## **Appendix E Evidence tables**

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Study	Agrawal et al. (2009)								
Pain category	Peripheral pain								
Study design	Country: India  Design: Parallel  Inclusion criteria: Diabetic at least 6 months with good glycaemic control, daily pain of at least moderate severity for >3months, pain intensity of >4 on VASpi, HbA1c <11  Exclusion criteria: Patients with erratic glycaemic control, peripheral vascular disease with absent foot pulses, prescence of foot ulceration, treatment with sublingual glyceryl trinitrate, males on concommitant sildenafil therapy, presence of other causes of neuropathy  Study length (days): 84  Intention-to-treat analysis? No								
Participants	Total number of patients: 83  Number of males: not reporte  Underlying cause of neuropat  Mean duration of NP (in mont  Baseline pain severity: 7.68 (  Mean age: 60.74	thic pain: Painfu ths): not reporte		neuro	pathy				
Intervention(s)	(1) Sodium valproate (fixed d Intervention: valproate Length of treatment (weeks): Fixed/flexible dose regimen: l Set dose: 1400mg/d Notes: dose was 20 mg/kg/da (2) Placebo + placebo spray Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: l	12 Fixed dose ay	spray						
Concomitant treatments	Drug free baseline period? Yo Concomitant pain treatment a	•	•	cue ana	algesics allowed either)				
Outcomes measures and effect sizes			SODIUI + PLAC	M VALE	PROATE (FIXED DOSE) SPRAY	PLACE	EBO + PLACEBO SPRAY	_	
CHECK SIZES			N	k m	nean	N I	k mean	Δ	
	pain score: NRS/NRS Pain – 0d NRS/NRS Pain – 84d VAS – 0d VAS – 84d	Continuous Continuous Continuous Continuous	20 20 20 20 20	4. 8	.9 (SD 0.447) .3 (SD 0.85) (SD 0.805) .15 (SD 1.43)	20 20 20 20 20	6.65 (SD 1.12) 4.15 (SD 1.12) 7.35 (SD 1.16) 6.9 (SD 1.03)	MD=0.150 (CI: -0.465, 0.765) MD=-0.750 (CI: -1.522, 0.022)	

PPI (from MPQ) – 0d	Continuous	20		3.4 (SD 0.492)	20		2.85 (SD 0.626)	
PPI (from MPQ) – 84d	Continuous	20		2.7 (SD 0.671)	20		2.55 (SD 0.581)	MD=0.150 (CI: -0.239, 0.539)
SF McGill – 0d	Continuous	20		24.8 (SD 4.96)	20		22.4 (SD 4.25)	
SF McGill – 84d	Continuous	20		20.4 (SD 5.99)	20		22.1 (SD 4.38)	MD=-1.750 (CI: -5.004, 1.504
adverse events:								
any adverse event – 84d	Dichotomous	20	4	(20.0%)	21	1	(4.8%)	OR=4.750 (CI: 0.481, 46.906)
any adverse event – 84d	Dichotomous	20	4	(20.0%)	20	1	(4.8%)	OR=4.750 (CI: 0.481, 46.906
headache – 84d	Dichotomous	20	0	(0.0%)	20	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849
headache – 84d	Dichotomous	20	0	(0.0%)	21	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849
Nausea – 84d	Dichotomous	20	2	(10.0%)	21	1	(4.8%)	OR=2.111 (CI: 0.176, 25.349
Nausea – 84d	Dichotomous	20	2	(10.0%)	20	1	(4.8%)	OR=2.111 (CI: 0.176, 25.349)
Sedation – 84d	Dichotomous	20	1	(5.0%)	21	0	(0.0%)	OR=3.154 (CI: 0.121, 82.165
Sedation – 84d	Dichotomous	20	1	(5.0%)	20	0	(0.0%)	OR=3.154 (CI: 0.121, 82.165
Weight gain – 84d	Dichotomous	20	0	(0.0%)	20	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849
Weight gain – 84d	Dichotomous	20	0	(0.0%)	21	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849)
treatment withdrawal:								
due to lack of efficacy - 84d	Dichotomous	20	0	(0.0%)	20	1	(4.8%)	OR=0.317 (CI: 0.012, 8.260)
due to lack of efficacy – 84d	Dichotomous	20	0	(0.0%)	21	1	(4.8%)	OR=0.317 (CI: 0.012, 8.260)

Study	Arbaiza & Vidal (2007)
Pain category	Peripheral pain
Study design	Country: Peru Design: Parallel Inclusion criteria: NCP of moderate to severe intensity with a duration of at least 3 months Exclusion criteria: Patients who were unable to provide adequate information about their pain, or had mainly somatic, visceral or sympathetically maintained pain. Also excluded were those scheduled for surgery, radiotherapy, chemotherapy or hormone therapy, use of tricyclic antidepressants, tramadol or othe types of opioid, change in dosage of antiepileptics within 30 days prior to the study, respiratory failure, COPD, intracranial hypertension, dependance on opioid analgesics, alcohol or other drugs, history of psychiatric illness Study length (days): 42 Intention-to-treat analysis? No
Participants	Total number of patients: 36 Number of males: 14 (38.9%) Underlying cause of neuropathic pain: Mixed pain (incl cancer&chemotherpy-induced) Mean duration of NP (in months): 4 Baseline pain severity: 7 (NRS (average of arm means)) Mean age: 49.86
Intervention(s)	(1) Tramadol 2.5mg drops (flexible dose) Intervention: tramadol Length of treatment (weeks): 6

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	Fixed/flexible dose regimen: Flex Mean dose: 254mg/d Range: 239.8–359.7 Notes: Tramadol was administere (tramadol) and 25.4 (placebo) (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flex	ed 1mg/kg of boo	dyweight e	every 6 ho	urs (concentration 2.5mg per o	drop). N	∕lean numbel	r of drops every 6 hours was 27.5
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allow	ved? Yes (Previo	ous antico	nvulsants,	paracetamol as rescue analgo	esic)		
Outcomes	TRAMADOL 2.5MG DROPS (FLEXIBLE DOSE)						ACEBO	
measures and effect sizes			N	k	mean	N	k mean	Δ
	pain score:  VAS – 0d  VAS – 42d  patient-reported improvement in daily physical and emotional	Continuous Continuous	18 13		6.8 2.9	18 12	7 4.3	MD=-1.400
	functioning, including sleep: NRS Sleep – 42d major adverse events	Dichotomous	13	3	(23.1%)	12	8 (66.7%)	OR=0.150 (CI: 0.026, 0.874)
	(defined as leading to withdrawal): any major adverse event – 42d adverse events:	Dichotomous	18	3	(16.7%)	18	0 (0.0%)	OR=8.355 (CI: 0.400, 174.498)
	any adverse event – 42d	Dichotomous	18	7	(38.9%)	18	0 (0.0%)	OR=24.130 (CI: 1.256, 463.720)
Comments	-							

Study	Arezzo et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel Inclusion criteria: Duration of PDN >3months, VASpi >40mm (greater than or equal to 4 on NRS over last 7 days), 18 years or older  Exclusion criteria: creatinine clearance rates of 60 ml/min or less, conditions that could confound assessment of pain due to PDN, prior use of potential retinotoxins, use of medications and supplemens commonly used for relief of pain, antiepileptics, anti-depressants (except stable SSRIs for anxiety or depression), NSAIDs  Study length (days): 91 Intention-to-treat analysis? Yes

Participants	Total number of patients: 167 Number of males: 103 (61.7%) Underlying cause of neuropathic pain: Painfu Mean duration of NP (in months): 55.8 Baseline pain severity: 6.43 (NRS) Mean age: 58	ıl diabetic neuropathy							
Intervention(s)	(1) Pregabalin 600mg/d Intervention: pregabalin Length of treatment (weeks): 13 Fixed/flexible dose regimen: Fixed dose Set dose: 600mg/d Notes: taken in 2 tablets each day; 1 week tit day 7 and continued for remainder of the stud (2) Placebo Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose		g with	sing	le dose of 150 m	g/d or	n day	/ 1, 2-150 mg/d	on day 2-6, and 2-300 mg/d on
Concomitant treatments	Drug free baseline period? Yes (duration: 7d) Concomitant pain treatment allowed? Yes (mainly cardiac and stroke prophylaxis (up to 325 mg) such as lorazepam for sleep problems (stable	nedications to treat NF n/d), acetaminophen (	up to 4	1 g/d	) also allowed, S	SRIs	for d	lepression or an	xiety (if stable), benzodiazepines
	odon do lorazopam for oldop probleme (etable	e dose for greater that	11 00 0	uy3)	; SSRIS could be	CONS	idere	eu conconniant	medications)
Outcomes	Cust as lorazopam for cloop problems (class)	e dose for greater that			BALIN 600MG/D		ACE		medications)
Outcomes measures and effect sizes	Cust as lorazopam for sloop problems (stable	e dose for greater that		GAI		PL	ACE		medications) - Δ
measures and	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:	Continuous	PRE N	EGAE k	BALIN 600MG/D mean 6.28 (SD 1.47)	PL N 85	ACE k	mean 6.58 (SD 1.58)	Δ
measures and	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:  PGIC - much worse – 91d  PGIC - moderately worse – 91d  PGIC - minimally worse – 91d  PGIC - no change – 91d  PGIC - minimally better – 91d	Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	PRE N 82 82 82 82 82 82 82	0 0 5 11 14	6.28 (SD 1.47) (0.0%) (0.0%) (6.1%) (13.4%) (17.1%)	PL N 85 85 85 85 85 85 85	0 2 10 28 10	BO mean  6.58 (SD 1.58)  (0.0%) (2.4%) (11.8%) (32.9%) (11.8%)	OR=1.036 (CI: 0.020, 52.842) OR=0.202 (CI: 0.010, 4.281) OR=0.487 (CI: 0.159, 1.492) OR=0.315 (CI: 0.145, 0.688) OR=1.544 (CI: 0.643, 3.705)
measures and	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:  PGIC - much worse – 91d PGIC - moderately worse – 91d PGIC - minimally worse – 91d PGIC - no change – 91d PGIC - minimally better – 91d PGIC - moderately better – 91d PGIC - moderately better – 91d PGIC - at least moderately better – 91d PGIC - much better – 91d patient-reported improvement in daily physical and emotional	Continuous Dichotomous Dichotomous Dichotomous Dichotomous	82 82 82 82 82 82 82 82 82	0 0 5 11 14 28 52	6.28 (SD 1.47) (0.0%) (0.0%) (6.1%) (13.4%)	PL. 85 85 85 85 85 85 85 85 85	0 2 10 28 10 19 35	BO mean  6.58 (SD 1.58)  (0.0%) (2.4%) (11.8%) (32.9%) (11.8%) (22.4%)	OR=1.036 (CI: 0.020, 52.842) OR=0.202 (CI: 0.010, 4.281) OR=0.487 (CI: 0.159, 1.492) OR=0.315 (CI: 0.145, 0.688)
measures and	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:  PGIC - much worse – 91d PGIC - moderately worse – 91d PGIC - minimally worse – 91d PGIC - no change – 91d PGIC - moderately better – 91d PGIC - moderately better – 91d PGIC - at least moderately better – 91d PGIC - much better – 91d patient-reported improvement in daily physical and emotional functioning, including sleep: NRS Sleep – 91d major adverse events	Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	PRE N 82 82 82 82 82 82 82 82 82 82	0 0 5 11 14 28 52	6.28 (SD 1.47) (0.0%) (0.0%) (6.1%) (13.4%) (17.1%) (34.1%) (63.4%)	PL. 85 85 85 85 85 85 85 85 85	0 2 10 28 10 19 35	BO mean  6.58 (SD 1.58)  (0.0%) (2.4%) (11.8%) (32.9%) (11.8%) (22.4%) (41.2%)	OR=1.036 (CI: 0.020, 52.842) OR=0.202 (CI: 0.010, 4.281) OR=0.487 (CI: 0.159, 1.492) OR=0.315 (CI: 0.145, 0.688) OR=1.544 (CI: 0.643, 3.705) OR=1.801 (CI: 0.908, 3.572) OR=2.476 (CI: 1.328, 4.618)
measures and	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:  PGIC - much worse – 91d PGIC - moderately worse – 91d PGIC - minimally worse – 91d PGIC - no change – 91d PGIC - minimally better – 91d PGIC - moderately better – 91d PGIC - at least moderately better – 91d PGIC - much better – 91d patient-reported improvement in daily physical and emotional functioning, including sleep: NRS Sleep – 91d	Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	82 82 82 82 82 82 82 82 82 82 82	0 0 5 11 14 28 52 24	6.28 (SD 1.47) (0.0%) (0.0%) (0.0%) (6.1%) (13.4%) (17.1%) (34.1%) (63.4%) (29.3%)	PL 85 85 85 85 85 85 85 85 85 85	0 2 10 28 10 19 35 16	BO mean  6.58 (SD 1.58)  (0.0%) (2.4%) (11.8%) (32.9%) (11.8%) (22.4%) (41.2%) (18.8%)	OR=1.036 (CI: 0.020, 52.842) OR=0.202 (CI: 0.010, 4.281) OR=0.487 (CI: 0.159, 1.492) OR=0.315 (CI: 0.145, 0.688) OR=1.544 (CI: 0.643, 3.705) OR=1.801 (CI: 0.908, 3.572) OR=2.476 (CI: 1.328, 4.618) OR=1.784 (CI: 0.866, 3.675)

	Dry mouth – 91d	Dichotomous	82 1	(1.2%)	85 4	(4.7%)	OR=0.250 (CI: 0.027, 2.285)
	euphoria – 91d	Dichotomous	82 0	(0.0%)	85 3	(3.5%)	OR=0.143 (CI: 0.007, 2.809)
	oedema – 91d	Dichotomous	82 0	(0.0%)	85 3	(3.5%)	OR=0.143 (CI: 0.007, 2.809)
	Peripheral oedema – 91d	Dichotomous	82 30	(36.6%)	85 2	7 (31.8%)	OR=1.239 (CI: 0.653, 2.352)
	Somnolence – 91d	Dichotomous	82 11	(13.4%)	85 5	(5.9%)	OR=2.479 (CI: 0.822, 7.480)
	Weight gain – 91d	Dichotomous	82 12	(14.6%)	85 1	(1.2%)	OR=14.400 (CI: 1.827, 113.492)
	treatment withdrawal:						
	unspecified/other reason – 91d	Dichotomous	82 28	(34.1%)	85 24	4 (28.2%)	OR=1.318 (CI: 0.683, 2.542)
	use of rescue medication:						
	proportion taking up to 4 g/d of paracetamol – 91d	Dichotomous	82 6	(7.3%)	85 7	(8.2%)	OR=0.880 (CI: 0.283, 2.738)
	ITT/LOCF (last-observation carried forward)						
	pain score:						
	NRS/NRS Pain – 91d	Continuous	82	3.54	85	4.82	MD=-1.280 (CI: -1.960, -0.600)
	NRS/NRS Pain – 91d	Mean change	82	-2.74	85	-1.76	MD=-0.980
	ITT/DOOF (becaution at a small on a small of small)	J					
	ITT/BOCF (baseline observation carried forward)						
	pain score:	O	00	4.00	0.5	F 00	MD 0.740 (CL 4.200 0.020)
	NRS/NRS Pain – 91d	Continuous	82	4.32	85	5.03	MD=-0.710 (CI: -1.390, -0.030)
2							
comments	no comments						

Study	Backonja et al. (1998)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Painful diabetic neuropathy for of 1-5 years, Pain score VAS at least 40mm Exclusion criteria: Presence of other severe pain that could confound assessment or self evaluation of the pain due to diabetic neuropathy, receipt of any investigational drug within 30 days prior to screening, amputation other than toes, creatinine clearance of less than 60mL/min. Study length (days): 56 Intention-to-treat analysis? Yes
Participants	Total number of patients: 165 Number of males: 99 (60.0%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.45 (NRS (average of arm means)) Mean age: 53
Intervention(s)	(1) Gabapentin 3600mg/d Intervention: gabapentin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose

Concomitant treatments	Set dose: 3600mg/d Notes: 4 week titration: week 1: 900 mg/d, week (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose  Drug free baseline period? Unclear Concomitant pain treatment allowed? Yes (SSR were prohibited; paracetamol or asprin were allo	ls (which could be c						but others w	hich could affect symptoms of PDN
Outcomes			GAE	BAPE	ENTIN 3600MG/D	PL	ACE	ВО	
measures and effect sizes			N	k	mean	N	k	mean	Δ
	pain score:  McGill VAS – 0d  McGill VAS – 56d  PPI (from MPQ) – 0d  PPI (from MPQ) – 56d  SF McGill – 0d  SF McGill – 56d  patient-reported global improvement:  PGIC - worse (all grades) – 56d  PGIC - no change or minimally better – 56d  PGIC - at least moderately better – 56d  PGIC - at least moderately better – 56d  patient-reported improvement in  daily physical and emotional  functioning, including sleep:  POMS – 0d  POMS – 56d  major adverse events  (defined as leading to withdrawal):	Continuous Continuous Continuous Continuous Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Continuous Continuous Continuous	82 82 81 81 82 82 79 79 79	2 30 47	67.7 36.9 2.4 1.2 20.5 10.9 (2.5%) (38.0%) (59.5%)	76	38 25	71.2 53.8 2.4 1.8 21 16.8 (17.1%) (50.0%) (32.9%)	MD=-16.900 MD=-0.600 MD=-5.900 OR=0.126 (CI: 0.027, 0.579) OR=0.612 (CI: 0.323, 1.160) OR=2.996 (CI: 1.554, 5.776) MD=-9.140 (CI: -17.290, -0.990)
	(defined as leading to withdrawal):     any major adverse event – 56d     adverse events:     Confusion     Diarrhoea     Dizziness – 56d     headache     Nausea – 56d     Somnolence – 56d     overall improvement in quality of life:     SF36 bodily pain – 0d     SF36 bodily pain – 56d     SF36 vitality – 0d     SF36 vitality – 56d     SF36 mental health – 0d     SF36 mental health – 56d treatment withdrawal:     due to lack of efficacy – 56d unspecified/other reason – 56d	Dichotomous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Continuous	84 84 84 84 77 77 78 78 78	7 9 20 9 7 19	(8.3%) (8.3%) (10.7%) (23.8%) (10.7%) (8.3%) (22.6%)  40.6 55.2 41.5 53.5 72 75.7 (1.2%) (3.6%)	81 81 81 81 81 81 76 76 76 76	1 7 4 3 4 5	(6.2%) (1.2%) (8.6%) (4.9%) (3.7%) (4.9%) (6.2%) 37.5 47.4 40.8 43.7 66.5 70.4 (6.2%) (3.7%)	OR=1.382 (CI: 0.420, 4.545)  OR=7.273 (CI: 0.874, 60.501) OR=1.269 (CI: 0.449, 3.584) OR=6.016 (CI: 1.956, 18.502) OR=3.120 (CI: 0.813, 11.970) OR=1.750 (CI: 0.492, 6.222) OR=4.443 (CI: 1.572, 12.561)  MD=7.800  MD=9.800  MD=5.300  OR=0.183 (CI: 0.021, 1.603) OR=0.963 (CI: 0.189, 4.916)

	protocol deviation – 56d	Dichotomous	84 3	(3.6%)	81 3	(3.7%)	OR=0.963 (CI: 0.189, 4.916)
	ITT/LOCF (last-observation carried forward)						
	pain score:						
	NRS/NRS Pain – 0d <sup>a</sup>	Continuous	82	6.4 (SD 1.36)	80	6.5 (SD 1.57)	
	NRS/NRS Pain – 56d	Continuous	82	3.9	80	5.1	MD=-1.200 (CI: -1.840, -0.560)
	patient-reported improvement in						
	daily physical and emotional						
	functioning, including sleep:	Continuous	00	<b>5</b> 0	00	T 4	
	NRS Sleep – 0d	Continuous	82 82	5.2 2.3	80 80	5.1 3.8	MD 4 470 (CL 0 470 0 770)
	NRS Sleep – 56d	Continuous	82	2.3	80	3.8	MD=-1.470 (CI: -2.170, -0.770)
	Observed cases						
	pain score:						
	NRS/NRS Pain – 0d <sup>a</sup>	Continuous	82	6.4 (SD 1.36)	80	6.5 (SD 1.57)	
	NRS/NRS Pain – 28d <sup>a</sup>	Continuous	70	4.1 (SD 2.38)	65	5 (SD 2.24)	MD=-0.900 (CI: -1.262, -0.538)
	NRS/NRS Pain – 56d <sup>a</sup>	Continuous	70	3.6 (SD 2.3)	65	4.55 (SD 2.42)	MD=-0.950 (CI: -1.357, -0.543)
	patient-reported improvement in						
	daily physical and emotional functioning, including sleep:						
	Normalised (10-pt) sleep interference measure – 0d <sup>b</sup>	Continuous	82	5.2 (SD 2.26)	80	5.1 (SD 2.24)	
	Normalised (10-pt) sleep interference measure – 56d <sup>b</sup>	Continuous	70	1.9 (SD 2.51)	65	2.95 (SD 2.22)	
	NRS Sleep – 0d <sup>a</sup>	Continuous	82	5.2 (SD 2.26)	80	5.1 (SD 2.24)	
	NRS Sleep – 56d°	Continuous	70	1.9 (SD 2.51)	65	2.95 (SD 2.22)	MD=-1.050 (CI: -1.474, -0.626)
	<sup>a</sup> SD calculated from unlabelled error bars (assumed to be	SEMs)					
	<sup>b</sup> SD calculated from unlabelled error bars (assumed to be		NRS Slee	ep			
Commonto	,	,			ط ماا ممد: -	nto rondomica d	who received at least 1 deep of
Comments	there was a 1 week baseline period but it is not clear						
	study medication (however, patients with no data rec	corded for a part	icular pai	ameter were auto	matically	excluded from a	manyses of that parameter)

Study	Backonja et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Aged 18 and over with a diagnosis of PHN and an average NPRS score of 3-9 (inclusive) were eligible if at least 6 months had elapsed since vesicle crusting Exclusion criteria: Pain at or around facial area Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 402 Number of males: 190 (47.3%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 46.8

	Baseline pain severity: 5.9 (NRS (	average of arm means))							
	Mean age: 71.1								
Intervention(s)	(1) Capasaicin 8% patch (60 minu	tes only)							
	Intervention: capsaicin patch Length of treatment (weeks):								
	Fixed/flexible dose regimen: Fixed Notes: Study reports 8% capsaicir		once (to	opical an	naesthetic cream a	pplied 60	mins	before patche	es)
	(2) Active placebo patch								
	Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed Notes: As with capsaicin patch, thi		moved (t	opical ar	naesthetic cream a	applied 60	) mins	s before patch	es)
Concomitant	Drug free baseline period? Unclea	ır							
treatments	Concomitant pain treatment allower		ng-term p	oain med	dications for at leas	st 21 days	s befo	re treatment a	and must stay on a stable
	dose during the study duration; op medications not allowed)	ioids rescue meds only up to 5	days af	ter appli	ication and then as	s needed	but n	ot permited af	ter day 5, topical
Outcomes measures and			CAPASAICIN 8% PATCH (60 MINUTES ONLY)			ACT PAT		LACEBO	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:	Percentage change from							MD=-8.000 (CI: -8.352, -
	NRS/NRS Pain – 28d <sup>a</sup>	baseline Percentage change from	190		-30 (SD 2)	202		-22 (SD 1.5)	7.648) MD=-10.500 (CI: -10.902,
	NRS/NRS Pain – 56d <sup>a</sup>	baseline	184		-31.5 (SD 2)	196		-21 (SD 2)	-10.098) MD=-9.000 (CI: -9.571, -
	NRS/NRS Pain – 84d <sup>a</sup>	Percentage change from baseline	172		-32 (SD 2.5)	185		-23 (SD 3)	8.429)
	at least 30% pain reduction (NRS) - 56d <sup>b</sup>	Dichotomous from baseline to average f-u	205	87		197	63		OR=1.568 (CI: 1.043, 2.358)
	at least 30% pain reduction (NRS) – 84d <sup>c</sup>	Dichotomous from baseline to average f-u	205	91		197	69		OR=1.481 (CI: 0.991, 2.213)
	patient-reported global improvement: PGIC - worse (all grades) or no								OR=0.631 (CI: 0.425,
	change – 84d	Dichotomous	205	92	(44.9%)	197	111	(56.3%)	0.935)
	PGIC - better (all grades) – 84d	Dichotomous	205	114	(55.6%)	197	85	(43.1%)	OR=1.651 (CI: 1.113, 2.448)
	major adverse events (defined as leading to withdrawal):				,			,	OR=2.897 (CI: 0.117,
	any major adverse event – 84d	Dichotomous	205	1	(0.5%)	197	0	(0.0%)	71.547)
	adverse events: Dizziness – 84d	Dichotomous	205	5	(2.4%)	197	6	(3.0%)	OR=0.796 (CI: 0.239, 2.651)
	headache – 84d	Dichotomous	205	7	(3.4%)	197		(4.1%)	OR=0.835 (CI: 0.297, 2.348)
					,			,	OR=3.959 (CI: 0.830,
	Nausea – 84d	Dichotomous	205	8	(3.9%)	197	2	(1.0%)	18.881) OR=6.062 (CI: 1.339,
	oedema – 84d	Dichotomous	205	12	(5.9%)	197	2	(1.0%)	27.445)

	Pruritus – 84d	Dichotomous	205	10	(4.9%)	197	6	(3.0%)	OR=1.632 (CI: 0.582, 4.580) OR=8.670 (CI: 4.515,
	site erythema – 84d	Dichotomous	205	193	(94.1%)	197	128	(65.0%)	16.649)
	site pain – 84d	Dichotomous	205	114	(55.6%)	197	43	(21.8%)	OR=4.487 (CI: 2.901, 6.939) OR=1.950 (CI: 0.481,
	Vomiting – 84d treatment withdrawal:	Dichotomous	205	6	(2.9%)	197	3	(1.5%)	7.906) OR=1.071 (CI: 0.426,
	due to lack of efficacy – 84d	Dichotomous	205	10	(4.9%)	197	9	(4.6%)	2.695) OR=0.633 (CI: 0.176,
	unspecified/other reason – 84d	Dichotomous	205	4	(2.0%)	197	6	(3.0%)	2.280) OR=1.448 (CI: 0.239,
	lost to follow-up – 84d	Dichotomous	205	3	(1.5%)	197	2	(1.0%)	8.760) OR=0.961 (CI: 0.060,
	poor compliance – 84d	Dichotomous	205	1	(0.5%)	197	1	(0.5%)	15.467) OR=1.016 (CI: 0.516,
	All withdrawals – 84d	Dichotomous	205	19	(9.3%)	197	18	(9.1%)	1.998)
	<sup>a</sup> extracted from graph <sup>b</sup> Baseline to weeks 2-8 <sup>c</sup> Baseline to weeks 2-12  Graph from which NRS data extra However, as the data in the text section.	• •	•				_		• .
Comments	study had a baseline screening p instead - they were included in th so as to avoid potentially confour	e intervention group for effolding effect of opioid rescu	icacy analyses	s but in	the control grou	p for safety			

Study	Bansal et al. (2009)
Pain category	Peripheral pain
Study design	Country: India Design: Crossover Inclusion criteria: 18 and 75 years with PDN from Type 2 diabetes mellitus for at least 1 month, and having pain of more than 50% as assessed by VAS were eligible to be recruited in the study  Exclusion criteria: clinically significant or unstable medical or psychiatric illnesses, history of renal or liver disease, epilepsy, psychiatric illness,
	uncontrolled hypertension, malignancy and substance abuse, pregnancy, women intending to become pregnant, lactating mothers, patietns with evidence of other causes of neuropathy and painful conditions, those taking anticonvulsants, antidepressants, local anaesthetics and opioids, and recent treatment with any investigational drugs within the last 30 days  Study length (days): 98  Intention-to-treat analysis? Yes
Participants	Total number of patients: 51 Number of males: 19 (37.3%)

	Underlying cause of neuropathic pain: F	Painful diabetic	neuro	pathy					
	Mean duration of NP (in months): 12								
	Baseline pain severity: 70 (VAS (media)	0))							
		1))							
	Mean age: 54.5								
Intervention(s)	(1) Amitriptyline flexi-dose (10-50mg)								
	Intervention: amitriptyline								
	Length of treatment (weeks): 5								
	Fixed/flexible dose regimen: Flexible do	se							
	Mean dose: 16mg/d								
	Range: 10–50				4 1 1 41 4	0			
	Notes: starting dose was 10 mg and up	ward titration (i	ir requ	irea) an	er i week and then ar	ter 3 we	eeks, de	epending on therapeu	nic response
	(2) Pregabalin flexi-dose (150-600mg)								
	Intervention: pregabalin								
	Length of treatment (weeks): 5								
	Fixed/flexible dose regimen: Flexible do Mean dose: 218mg/d	se							
	Range: 150–600								
	Notes: starting dose was 75 mg and up	ward titration (i	if requi	ired) aft	er 1 week and then af	ter 3 w	eeks. de	epending on therapeu	ıtic response
		•	- 1				,	3	
Concomitant	Drug free baseline period? Yes (duratio								
treatments	Concernitant pain treatment allowed? N								
					ants, anti-depressants				
	treatments for DPN were discontinued f								
Outcomes	treatments for DPN were discontinued f		cue m	edicatio RIPTYL		day of p	araceta GABALI		
measures and	treatments for DPN were discontinued f		cue m	edicatio RIPTYL	ns allowed (up to 3g/o	day of p	araceta GABALI	mol) during the run-ir	
	treatments for DPN were discontinued f		cue m	edicatio RIPTYL	ns allowed (up to 3g/o	day of p	araceta GABALI	mol) during the run-ir	
measures and	treatments for DPN were discontinued f		AMI7 50M	edicatio	ns allowed (up to 3g/c	PREG	GABALI	nmol) during the run-ir	n period and washout
measures and	pain score: VAS – 0d	or 1 week; reso	AMIT 50M0	edicatio	INE FLEXI-DOSE (10-mean	PREG 600M N	GABALI	N FLEXI-DOSE (150- mean	n period and washout
measures and	pain score: VAS – 0d VAS – 35d	Continuous Continuous	AMIT 50M0 N	RIPTYL G) k	INE FLEXI-DOSE (10-mean med: 70° med: 42.5°	PREG 600N N 44 44	GABALII IG) k	N FLEXI-DOSE (150- mean med: 70 <sup>b</sup> med: 40 <sup>d</sup>	n period and washout
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d	Continuous Continuous Dichotomous	AMIT 50M0 N 44 44 51	edicatio	INE FLEXI-DOSE (10-mean  med: 70° med: 42.5° (29.4%)	PRE6 600M N 44 44 51	GABALI	med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%)	n period and washout
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d	Continuous Continuous Dichotomous Continuous	AMIT 50M0 N	RIPTYL G) k	INE FLEXI-DOSE (10-mean  med: 70 <sup>a</sup> med: 42.5 <sup>c</sup> (29.4%) med: 9 <sup>e</sup>	PREG 600N N 44 44	GABALII K	mean  med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 9 <sup>l</sup>	n period and washout
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events	Continuous Continuous Dichotomous	AMIT 50M0 N 44 44 51 44	RIPTYL G) k	INE FLEXI-DOSE (10-mean  med: 70° med: 42.5° (29.4%)	PREC 600N N 44 44 51 44	GABALII K	med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%)	n period and washout
measures and	pain score:  VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal):	Continuous Continuous Dichotomous Continuous Continuous Continuous	AMIT 50M0 N 44 44 51 44 44	FRIPTYLG)  k	mean  med: 70° med: 42.5° (29.4%) med: 9° med: 5°	PRE6 600N N 44 44 44 44	GABALIII IG) k	mean  med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 9 <sup>l</sup> med: 4 <sup>h</sup>	ο period and washout  Δ  OR=3.988 (CI: 1.391,
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events	Continuous Continuous Dichotomous Continuous	AMIT 50M0 N 44 44 51 44	RIPTYL G) k	INE FLEXI-DOSE (10-mean  med: 70 <sup>a</sup> med: 42.5 <sup>c</sup> (29.4%) med: 9 <sup>e</sup>	PREC 600N N 44 44 51 44	GABALII K	mean  med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 9 <sup>l</sup>	ο period and washout  Δ  OR=3.988 (CI: 1.391, 11.434)
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal): any major adverse event – 35d	Continuous Continuous Dichotomous Continuous Continuous Continuous	AMIT 50M0 N 44 44 51 44 44	FRIPTYLG)  k	mean  med: 70° med: 42.5° (29.4%) med: 9° med: 5° (33.3%)	PRE6 600N N 44 44 44 44	GABALIII IG) k	mean  med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 9 <sup>t</sup> med: 4 <sup>h</sup> (11.8%)	OR=3.988 (CI: 1.391, 11.434) OR=3.988 (CI: 1.391,
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal): any major adverse event – 35d any major adverse event – 35d adverse events:	Continuous Continuous Dichotomous Continuous Dichotomous Continuous	AMIT 50M0 N 44 44 44 44 44 44	TRIPTYLG) k	mean  med: 70° med: 42.5° (29.4%) med: 9° med: 5° (33.3%) (33.3%)	PRE6600N N 44 44 44 51	GABALIII IG)  k  21  6 <sup>i</sup> 6 <sup>i</sup>	med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 4 <sup>h</sup> (11.8%)	ο period and washout  Δ  OR=3.988 (CI: 1.391, 11.434)
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal): any major adverse event – 35d any major adverse event – 35d	Continuous Continuous Dichotomous Continuous Dichotomous Continuous	AMIT 50M0 N 44 44 44 44 44 44	TRIPTYLG) k	mean  med: 70° med: 42.5° (29.4%) med: 9° med: 5° (33.3%)	PRE6600N N 44 44 44 51	GABALIIIG) k	mean  med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 9 <sup>t</sup> med: 4 <sup>h</sup> (11.8%)	OR=3.988 (Cl: 1.391, 11.434) OR=3.988 (Cl: 1.391, 11.434) OR=0.326 (Cl: 0.013, 8.219)
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal): any major adverse event – 35d any major adverse event – 35d adverse events: Confusion – 35d	Continuous Continuous Continuous Dichotomous Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous	AMIT 50M0 N 44 44 44 44 44 44 44 44 44 44	FRIPTYLG)  k  15  17 <sup>i</sup> 17 <sup>i</sup> 0	mean  med: 70° med: 42.5° (29.4%) med: 5° med: 5° (33.3%) (33.3%) (0.0%)	PRE600N N 44 44 51 44 44 44 44	GABALIII IG)  k  21  6 <sup>i</sup> 6 <sup>i</sup> 1	med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 4 <sup>h</sup> (11.8%) (11.8%) (2.0%)	OR=3.988 (Cl: 1.391, 11.434) OR=3.988 (Cl: 1.391, 11.434) OR=0.326 (Cl: 0.013, 8.219) OR=0.326 (Cl: 0.013,
measures and	pain score: VAS – 0d VAS – 35d at least 50% pain reduction (VAS) – 35d SF McGill – 0d SF McGill – 35d major adverse events (defined as leading to withdrawal): any major adverse event – 35d any major adverse event – 35d adverse events:	Continuous Continuous Continuous Dichotomous Continuous Continuous Continuous Dichotomous Dichotomous	AMIT 50M0 N 44 44 51 44 44 51 44 44	rRIPTYLG)  k  15  17 <sup>i</sup> 17 <sup>i</sup>	mean  med: 70° med: 42.5° (29.4%) med: 9° med: 5° (33.3%) (33.3%)	PRE6600N N 44 44 51 44 44 44	GABALIII IG)  k  21  6 <sup>i</sup> 6 <sup>i</sup>	med: 70 <sup>b</sup> med: 40 <sup>d</sup> (41.2%) med: 4 <sup>h</sup> (11.8%)	OR=3.988 (Cl: 1.391, 11.434) OR=3.988 (Cl: 1.391, 11.434) OR=0.326 (Cl: 0.013, 8.219)

Constipation – 35d	Dichotomous	51	2	(3.9%)	51	3	(5.9%)	OR=0.651 (CI: 0.103, 4.099)
daytime somnolence – 35d	Dichotomous	51	2	(3.9%)	51	3	(5.9%)	OR=0.651 (CI: 0.103, 4.099)
daytime somnolence – 35d	Dichotomous	44	2	(3.9%)	44	3	(5.9%)	OR=0.651 (CI: 0.103, 4.099)
Dizziness – 35d	Dichotomous	51	2	(3.9%)	51	3	(5.9%)	OR=0.651 (CI: 0.103, 4.099)
Dizziness – 35d	Dichotomous	44	2	(3.9%)	44	3	(5.9%)	OR=0.651 (CI: 0.103, 4.099)
Dry mouth – 35d	Dichotomous	51	2	(3.9%)	51	0	(0.0%)	OR=5.235 (CI: 0.244, 112.252)
Dry mouth – 35d	Dichotomous	44	2	(3.9%)	44	0	(0.0%)	OR=5.235 (CI: 0.244, 112.252)
flu-like symptoms – 35d	Dichotomous	51	0	(0.0%)	51	1	(2.0%)	OR=0.326 (CI: 0.013, 8.219) OR=0.326 (CI: 0.013,
flu-like symptoms – 35d	Dichotomous	44	0	(0.0%)	44	1	(2.0%)	8.219) OR=0.326 (CI: 0.013,
headache – 35d	Dichotomous	51	0	(0.0%)	51	1	(2.0%)	8.219) OR=0.326 (CI: 0.013,
headache – 35d	Dichotomous	44	0	(0.0%)	44	1	(2.0%)	8.219) OR=4.385 (CI: 1.534,
increase in sleep duration – 35d	Dichotomous	44	18	(35.3%)	44	6	(11.8%)	12.530) OR=4.385 (CI: 1.534,
increase in sleep duration – 35d	Dichotomous	51	18	(35.3%)	51	6	(11.8%)	12.530) OR=0.191 (CI: 0.009,
Peripheral oedema – 35d	Dichotomous	51	0	(0.0%)	51	2	(3.9%)	4.096) OR=0.191 (CI: 0.009,
Peripheral oedema – 35d	Dichotomous	44	0	(0.0%)	44	2	(3.9%)	4.096) OR=3.069 (CI: 0.122,
Postural hypotension – 35d	Dichotomous	51	1	(2.0%)	51	0	(0.0%)	77.410) OR=3.069 (CI: 0.122,
Postural hypotension – 35d	Dichotomous	44	1	(2.0%)	44	0	(0.0%)	77.410) OR=12.392 (CI: 0.664,
tiredness – 35d	Dichotomous	44	5	(9.8%)	44	0	(0.0%)	231.291) OR=12.392 (CI: 0.664,
tiredness – 35d	Dichotomous	51	5	(9.8%)	51	0	(0.0%)	231.291) OR=5.235 (CI: 0.244,
Urine retention – 35d <sup>k</sup>	Dichotomous	44	2	(3.9%)	44	0	(0.0%)	112.252) OR=5.235 (CI: 0.244,
Urine retention – 35d <sup>k</sup> use of rescue medication:	Dichotomous	51	2	(3.9%)	51	0	(0.0%)	112.252)
proportion taking up to 3 g/d of paracetamol – 35d	Dichotomous	51	2	(3.9%)	51	0	(0.0%)	OR=5.235 (CI: 0.244, 112.252)
proportion taking up to 3 g/d of paracetamol – 35d	Dichotomous	44	2	(3.9%)	44	0	(0.0%)	OR=5.235 (CI: 0.244, 112.252)
paracetamol – 35d proportion taking up to 3 g/d of				, ,			, ,	112.252 OR=5.2

	IQR: 8-11  g IQR: 3-6  l IQR: 3-7  i due to dizziness, postural hypotension, difficulty with urination and constipation, dry mouth, daytime somnolence and increased sleep  due to daytime somnolence, peripheral oedema and constipation  k defined as difficulty in urination
Comments	patients with prior exposure to gabapentin, pregabalin, amitriptyline, or other medications for DPN were permitted to enter (regardless of dose used and duration of treatment); authors report that ITT was performed but 7 dropouts were not included in the ITT analysis as they did not receive a single dose of both treatments

Study	Bernstein et al. (1989)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel Inclusion criteria: Aged 54 and 90 years with severe intractable PHN for at least 12 months poorly or incompletely controlled with oral analgesics, antidepressants or anticonvulsants  Exclusion criteria: None described  Study length (days): 42 Intention-to-treat analysis? No
Participants	Total number of patients: 32 Number of males: 12 (37.5%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 35.9 Baseline pain severity: 71.25 (VAS (average of arm means)) Mean age: 72.45
Intervention(s)	(1) Capsaicin 0.075% applied 3-4 times per day Intervention: capsaicin cream Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Notes: patients were instructed to use the cream 3-4 times per day (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Notes: Unclear if the placebo was active or not
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (previous oral medications for pain)

Outcomes measures and			CAPSA	ICIN 0.075	% APPLIED 3-4 TIMES PER DAY	PLACEBO				
effect sizes			N	k	mean	N	k	mean	Δ	
	pain score:									
	VAS – 0d	Continuous	16		71	16		71.5		
	VAS - 42d	Continuous	16		50	16		72.5	MD=-22.500	
	at least 30% pain reduction (VAS) – 28d <sup>a</sup>	Dichotomous	16	9	(56.3%)	16	3	(18.8%)		
	at least 30% pain reduction (VAS) - 42da	Dichotomous	16	9	(56.3%)	16	1	(6.3%)	OR=11.667 (CI: 1.227, 110.953)	
	adverse events:									
	Burning pain – 42d <sup>b</sup>	Dichotomous	16	5	(31.3%)	16	2	(12.5%)	OR=3.182 (CI: 0.516, 19.639)	
a b	<ul> <li>40% reduction recorded as 30% reduction</li> <li>Ns estimated as exact numbers not reported</li> </ul>									
	while there was no drug-free baseline pe 3 patients were lost to follow-up but it wa					efore	the	study (or	ral medications were allowed);	

Study	Beydoun et al. (2006)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Painful diabetic neuropathy of 6 month to 5 years VASpi at least 50mm Exclusion criteria: Patients with other types of pain, clinically significant medical or psychiatric illness, history of hyponatremia or non compliance, drug or alcohol abuse in the past year, amputations other than toes, treatment with lithium or MAOI, previous treatment with oxcarbazepine, or history of sensitivity to carbamazepine or its metabolites Study length (days): 112 Intention-to-treat analysis? Yes
Participants	Total number of patients: 347 Number of males: 192 (55.3%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 33.3 Baseline pain severity: 74.35 (VAS (mean of arm means)) Mean age: 60.7
Intervention(s)	(1) oxcarbazepine 600 mg/d Intervention: oxcarbazepine Length of treatment (weeks): 16 Fixed/flexible dose regimen: Fixed dose Set dose: 600mg/d Notes: 4 week titration, 12 week maintenance

	(2) oxcarbazepine 1200 mg/d								
	Intervention: oxcarbazepine Length of treatment (weeks): 16 Fixed/flexible dose regimen: Fixed dose Set dose: 1200mg/d Notes: 4 week titration, 12 week maintenan	nce							
	(3) oxcarbazepine 1800 mg/d								
	Intervention: oxcarbazepine Length of treatment (weeks): 16 Fixed/flexible dose regimen: Fixed dose Set dose: 1800mg/d Notes: 4 week titration, 12 week maintenan	ice							
	(4) Placebo								
	Intervention: placebo Length of treatment (weeks): 16 Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? Yes (duration: 1	4d)							
treatments		•		treat	mont rogimon must l	he ston	ned	2 weeks before	entry: however SSRIs (which
	Concomitant pain treatment allowed? Yes ( could be considered concomitant medicatio	(current neuropath ons) and benzodia	zepine	s wer	e allowed; paracetar	nol as i	resc	ue only)	,, (
Outcomes	Concomitant pain treatment allowed? Yes ( could be considered concomitant medicatio	(current neuropathons) and benzodia	zepine	s wer	e allowed; paracetar	nol as i	resc	ue only)	
	Concomitant pain treatment allowed? Yes ( could be considered concomitant medicatio	(current neuropath	zepine	s wer	e allowed; paracetar	nol as i	esc	ue only)	. Δ
Outcomes measures and	pain score: VAS – 0d VAS – 112d	(current neuropathons) and benzodia  Continuous  Mean change	oxc	s wer	e allowed; paracetar	nol as i	esc	ue only) BO	·
Outcomes measures and	pain score:  VAS – 0d VAS – 112d patient-reported global improvement: GATE- much/very much improved – 112da major adverse events	ons) and benzodia	OXC N	s wer	e allowed; paracetar AZEPINE 600 MG/D mean 76.9 (SD 14.2)	PLA N 89 89	ACEI k	mean 70.8 (SD 13.2)	- Δ
Outcomes measures and	pain score:  VAS – 0d VAS – 112d patient-reported global improvement: GATE- much/very much improved – 112d <sup>a</sup>	Continuous Mean change	OXC N 83 83	ARBA	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9	PLA N 89 89	ACEI k	mean 70.8 (SD 13.2) -19.1	Δ MD=-6.800
Outcomes measures and	pain score:  VAS – 0d  VAS – 112d  patient-reported global improvement:  GATE- much/very much improved – 112da  major adverse events (defined as leading to withdrawal):  any major adverse event – 112d	Continuous Mean change Dichotomous	OXC N 83 83 83	30 9 5 4 9 2	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9  (36.1%)	PLA N 89 89 89	33 6 2 6 7	mean 70.8 (SD 13.2) -19.1 (37.1%)	Δ MD=-6.800 OR=0.961 (CI: 0.516, 1.787)
Outcomes measures and	pain score: VAS – 0d VAS – 112d patient-reported global improvement: GATE- much/very much improved – 112d <sup>a</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 112d adverse events: Dizziness – 112d Fatigue – 112d headache – 112d	Continuous Mean change Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	OXC N 83 83 83 83 83 83 83 83	30 9 5 4 9	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9  (36.1%)  (10.8%)  (6.0%) (4.8%) (10.8%)	PLA N 89 89 89 89 89 89 89 89 89 89 89 89	33 6 2 6 7 5	we only)  BO  mean  70.8 (SD 13.2) -19.1  (37.1%)  (6.7%)  (2.2%) (6.7%) (7.9%)	MD=-6.800  OR=0.961 (CI: 0.516, 1.787)  OR=1.682 (CI: 0.572, 4.952)  OR=2.788 (CI: 0.526, 14.784)  OR=0.700 (CI: 0.190, 2.576)  OR=1.425 (CI: 0.505, 4.017)
Outcomes measures and	pain score:  VAS – 0d  VAS – 112d  patient-reported global improvement:  GATE- much/very much improved – 112d²  major adverse events (defined as leading to withdrawal):  any major adverse event – 112d adverse events: Dizziness – 112d Fatigue – 112d headache – 112d Nausea – 112d Somnolence – 112d treatment withdrawal:  due to lack of efficacy – 112d	Continuous Mean change Dichotomous	OXC N  83 83 83 83 83 83 83 83 83 83 83 83	30 9 5 4 9 2 2 2 2	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9  (36.1%)  (10.8%)  (6.0%) (4.8%) (10.8%) (2.4%) (2.4%) (2.4%) (2.4%)	PLA N 89 89 89 89 89 89 89 89 89 89	333 6 2 6 7 5 3 5	ue only)  BO  mean  70.8 (SD 13.2) -19.1  (37.1%)  (6.7%)  (2.2%)  (6.7%)  (7.9%)  (5.6%)  (3.4%)	MD=-6.800  OR=0.961 (CI: 0.516, 1.787)  OR=1.682 (CI: 0.572, 4.952)  OR=2.788 (CI: 0.526, 14.784)  OR=0.700 (CI: 0.190, 2.576)  OR=1.425 (CI: 0.505, 4.017)  OR=0.415 (CI: 0.078, 2.199)  OR=0.415 (CI: 0.078, 2.199)
Outcomes measures and	pain score:  VAS – 0d  VAS – 112d  patient-reported global improvement:  GATE- much/very much improved – 112d <sup>a</sup> major adverse events (defined as leading to withdrawal):  any major adverse event – 112d adverse events: Dizziness – 112d Fatigue – 112d headache – 112d Nausea – 112d Somnolence – 112d treatment withdrawal:	Continuous Mean change Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	OXC N  83 83 83 83 83 83 83 83 83 83	30 9 5 4 9 2 2 2	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9 (36.1%)  (10.8%) (6.0%) (4.8%) (10.8%) (2.4%) (2.4%) (2.4%)	PLA N 89 89 89 89 89 89 89 89 89 89	33 6 2 6 7 5 3 5 5	mean  70.8 (SD 13.2) -19.1 (37.1%)  (6.7%) (2.2%) (6.7%) (7.9%) (7.9%) (5.6%) (3.4%)	MD=-6.800  OR=0.961 (CI: 0.516, 1.787)  OR=1.682 (CI: 0.572, 4.952)  OR=2.788 (CI: 0.526, 14.784)  OR=0.700 (CI: 0.190, 2.576)  OR=1.425 (CI: 0.505, 4.017)  OR=0.415 (CI: 0.078, 2.199)  OR=0.708 (CI: 0.115, 4.346)
Outcomes measures and	pain score:  VAS – 0d  VAS – 112d  patient-reported global improvement:  GATE- much/very much improved – 112danger and major adverse events  (defined as leading to withdrawal):  any major adverse event – 112d  adverse events:  Dizziness – 112d  Fatigue – 112d  headache – 112d  Nausea – 112d  Somnolence – 112d  treatment withdrawal:  due to lack of efficacy – 112d  unspecified/other reason – 112d	Continuous Mean change Dichotomous	83 83 83 83 83 83 83 83 83 83 83 83 83 8	30 9 5 4 9 2 2 2 4	e allowed; paracetar  AZEPINE 600 MG/D  mean  76.9 (SD 14.2) -25.9  (36.1%)  (10.8%)  (4.8%) (10.8%) (2.4%) (2.4%) (2.4%) (4.8%)	PLA N 89 89 89 89 89 89 89 89 89 89	33 6 2 6 7 5 3 5 5	ue only)  BO  mean  70.8 (SD 13.2) -19.1  (37.1%)  (6.7%)  (2.2%) (6.7%) (7.9%) (5.6%) (3.4%)  (5.6%) (5.6%)	MD=-6.800  OR=0.961 (CI: 0.516, 1.787)  OR=1.682 (CI: 0.572, 4.952)  OR=2.788 (CI: 0.526, 14.784)  OR=0.700 (CI: 0.190, 2.576)  OR=1.425 (CI: 0.505, 4.017)  OR=0.415 (CI: 0.078, 2.199)  OR=0.708 (CI: 0.115, 4.346)  OR=0.415 (CI: 0.078, 2.199)  OR=0.851 (CI: 0.220, 3.282)

		N	k	mean	N	k	mean	Δ
pain score:								
VAS – 0d	Continuous	87		75.7 (SD 13.8)	89		70.8 (SD 13.2)	
VAS – 112d	Mean change	87		-29	89		-19.1	MD=-9.900
patient-reported global improvement:	•							
GATE- much/very much improved – 112d <sup>a</sup>	Dichotomous	87	44	(50.6%)	89	33	(37.1%)	OR=1.736 (CI: 0.952, 3.168)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 112d	Dichotomous	87	20	(23.0%)	89	6	(6.7%)	OR=4.129 (CI: 1.569, 10.865)
adverse events:								
Dizziness – 112d	Dichotomous	87	16	(18.4%)	89	2	(2.2%)	OR=9.803 (CI: 2.181, 44.066)
Fatigue – 112d	Dichotomous	87	11	(12.6%)	89	6	(6.7%)	OR=2.002 (CI: 0.706, 5.677)
headache – 112d	Dichotomous	87	9	(10.3%)	89	7	(7.9%)	OR=1.352 (CI: 0.480, 3.806)
Nausea – 112d	Dichotomous	87	13	(14.9%)	89	5	(5.6%)	OR=2.951 (CI: 1.005, 8.671)
Somnolence – 112d	Dichotomous	87	5	(5.7%)	89	3	(3.4%)	OR=1.748 (CI: 0.405, 7.549)
treatment withdrawal:								
due to lack of efficacy – 112d	Dichotomous	87	4	(4.6%)	89	5	(5.6%)	OR=0.810 (CI: 0.210, 3.121)
unspecified/other reason – 112d	Dichotomous	87	5	(5.7%)	89	5	(5.6%)	OR=1.024 (CI: 0.286, 3.671)
protocol deviation – 112d	Dichotomous	87	5	(5.7%)	89	1	(1.1%)	OR=5.366 (CI: 0.614, 46.902)
approximated to nearest integer (percentages	only procented in to	) vt)						
approximated to nearest integer (percentages	orny presented in te	5XL)						
		OXC	VDB V	ZEPINE 1800 MG/D	PLA	CER	.0	

		OXC	ARBA	ZEPINE 1800 MG/D	PL	ACE	во	
		N	k	mean	N	k	mean	Δ
pain score:								
VAS – 0d	Continuous	88		71.3 (SD 15.6)	89		70.8 (SD 13.2)	
VAS – 112d	Mean change	88		-26.5	89		-19.1	MD=-7.400
patient-reported global improvement:	_							
GATE- much/very much improved – 112d <sup>a</sup>	Dichotomous	88	43	(48.9%)	89	33	(37.1%)	OR=1.622 (CI: 0.890, 2.954)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 112d	Dichotomous	88	36	(40.9%)	89	6	(6.7%)	OR=9.577 (CI: 3.774, 24.302)
adverse events:								
Dizziness – 112d	Dichotomous	88	30	(34.1%)	89	2	(2.2%)	OR=22.500 (CI: 5.176, 97.800)
Fatigue – 112d	Dichotomous	88	13	(14.8%)	89	6	(6.7%)	OR=2.398 (CI: 0.868, 6.626)
headache – 112d	Dichotomous	88	10	(11.4%)	89	7	(7.9%)	OR=1.502 (CI: 0.545, 4.142)
Nausea – 112d	Dichotomous	88	17	(19.3%)	89	5	(5.6%)	OR=4.023 (CI: 1.413, 11.449)
Somnolence – 112d	Dichotomous	88	9	(10.2%)	89	3	(3.4%)	OR=3.266 (CI: 0.854, 12.496)
treatment withdrawal:								
due to lack of efficacy – 112d	Dichotomous	88	2	(2.3%)	89	5	(5.6%)	OR=0.391 (CI: 0.074, 2.070)
unspecified/other reason – 112d	Dichotomous	88	8	(9.1%)	89	5	(5.6%)	OR=1.680 (CI: 0.527, 5.351)
protocol deviation – 112d	Dichotomous	88	2	(2.3%)	89	1	(1.1%)	OR=2.047 (CI: 0.182, 22.987)

ITT population included all patients that were randomised and had provided at least one day of electronic diary data for the VAS during treatment (dichotomous outcomes were recorded by reviewers as patient randomised, regardless of data available)

Comments

Study	Biesbroeck et a	ıl. (1995)							
Pain category	Peripheral pain								
Study design	Country: USA Design: Paralle Inclusion criteri Exclusion criter Study length (d	a: PDN of at lea ia: - ays): 56	st 24 m	onths a	aged between 21 a	nd 85, with a	t least mod	erate daily pain interfering with a	ctivities or sleep
Participants	Total number of Number of male Underlying cause Mean duration of Baseline pain some Mean age: 60	es: 132 (56.2%) se of neuropath of NP (in month	ic pain: s): 105.		l diabetic neuropath	ny			
Intervention(s)	Intervention: ca Length of treatr Fixed/flexible d	nitriptyline ment (weeks): 8 ose regimen: Fl m of 5 25 mg ca asaicin 0.075% apsaicin cream ment (weeks): 8 ose regimen: Fi	exible dapsules applied	ose per day 4 times	y (ie. 125 mg) s per day + placebo es daily during the s	·			
Concomitant treatments	Drug free base Concomitant pa days before the during the stud	ain treatment alles study enrollme	owed?	Yes (ar	nitriptyline or other	trycyclics and associated	d all topical with neuro	medicines for the affected area pathy could be continued without	were discontinued at least 7 change in dosage or frequency
Outcomes measures and				RIPTYL EBO C	INE 125MG/D + REAM		AL CAPASA PLACEBO C	ICIN 0.075% APPLIED 4 TIMES PER APSULES	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score: VAS – 0d <sup>a</sup>	Continuous Mean	108		64.5	104		61.7	MD=-3.000 (CI: -3.794, -
	VAS - 56d	change	108		-29.1 (SD 3)	104		-26.1 (SD 2.9)	2.206)

	pain relief: VAS/VASpr – 56d adverse events:	Continuous	108		57 (SD 3.6)	104		55.1 (SD 3.5)	MD=1.900 (CI: 0.944, 2.856)
	Burning pain – 56d	Dichotomous	117	2	(1.7%)	118	68	(57.6%)	OR=0.003 (CI: 0.000, 0.052) OR=339.619 (CI: 20.616,
	Sedation – 56d	Dichotomous	117	69	(59.0%)	118	0	(0.0%)	5594.699)
	<sup>a</sup> change from bas	eline							_
Comments	-					·			

Study	Bone et al. (2002)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: UK & Ireland Design: Crossover Inclusion criteria: Phantom limb pain >6 months duration after a previous surgical amputation, aged 18-75 years, pain score of at least 40mm on 100mm VAS Exclusion criteria: Coexisting epilepsy, known allergy to gabapentin, significant hepatic or renal insufficiency, severe hematologic disease, history of illicit drug or alcohol abuse, serious psychiatric condition, severe pain that could confound the assessment Study length (days): 91 Intention-to-treat analysis? Yes
Participants	Total number of patients: 19 Number of males: 15 (78.9%) Underlying cause of neuropathic pain: Phantomb limb pain Mean duration of NP (in months): not reported Baseline pain severity: 6.4 (VAS (average of arm means); duration of time since amputation 18 months) Mean age: 56.25 (SD: 17.5)
Intervention(s)	(1) Gabapentin flexible dose Intervention: gabapentin Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Range: 300–2400 Notes: Titrated from 300mg to 2,400mg or maximum tolerated dose (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose

Concomitant treatments	Drug free baseline period? Unclear  Concomitant pain treatment allowed? Yes (tricyclics al therapy was discontinued before treatment; codeine(3thours))							
Outcomes measures and	- Hours))		GAE DOS		NTIN FLEXIBLE	PLA	СЕВО	
effect sizes			N	k	mean	N	k mean	Δ
	pain score: VAS – 0d VAS – 28d	Continuous Continuous	19 19		6.1 (SD 1.8) 4.1 (SD 2.7)	19 19	6.7 (SD 1.9) 4.4 (SD 2.1)	MD=-0.300 (CI: -1.838, 1.238)
	VAS – 28d VAS – 42d	Mean change Continuous Mean	19 19		-2 (SD 1.2) 2.9 (SD 2.2)	19 19	-2.3 (SD 1.1) 5.1 (SD 2.2) -1.6 (SD	MD=-0.300 (CI: -1.032, 0.432) MD=-2.200 (CI: -3.599, -0.801)
	VAS – 42d patient-reported improvement in daily physical and emotional functioning, including sleep:	change	19		-3.2 (SD 2.1)	19	0.7)	MD=1.600 (CI: 0.605, 2.595)
	NRS Sleep – 0d <sup>a</sup> NRS Sleep – 42d <sup>b</sup>	Continuous Continuous	19 19		4 3	19 19	4 4	MD=-1.000
	HADS-D – 0d° HADS-D – 42d adverse events:	Continuous Continuous	19 19		14 12 <sup>d</sup>	19 19	15 14 <sup>c</sup>	MD=-2.000
	Dizziness – 42d headache – 42d Nausea – 42d Somnolence – 42d	Dichotomous Dichotomous Dichotomous Dichotomous	19 19 19 19	2 2 1 7	(10.5%) (10.5%) (5.3%) (36.8%)	19 19	1 (5.3%) 1 (5.3%) 1 (5.3%) 2 (10.5%)	OR=2.118 (CI: 0.176, 25.549) OR=2.118 (CI: 0.176, 25.549) OR=1.000 (CI: 0.058, 17.249) OR=4.958 (CI: 0.873, 28.152)
	use of rescue medication: number of tablets (30mg codeine+500mg paracetamol) – 42d	Continuous	19		177 (SD 71)	19	187 (SD 80)	MD=-10.000 (CI: -58.095, 38.095)
	<sup>a</sup> IQR: 2-5 <sup>b</sup> IQR: 1-5 <sup>c</sup> IQR: 5-25 <sup>d</sup> IQR: 4-22							
Comments	Authors state they use ITT analyses with all randomise not complete) but it was not clear which treatment these						tocol violation,	1 withdrew consent and 3 did

Study	Boureau et al. (2003)
Pain category	Peripheral pain
Study design	Country: France Design: Parallel Inclusion criteria: Aged between 18 and 85 years with PHN for at least 3 months for a maximum of 1 year

	Exclusion criteria: Patients with symptoms or h renal, hepatic, cardiac, or respiratory pathology oxidase inhibitors within 15 days of inclusion vi Study length (days): 43 Intention-to-treat analysis? Yes	, hypersensitivity	to tra	ımadı	ol or to opioids, pregna	ant c	r br	eastfeeding won	nen, those on monoamine
Participants	Total number of patients: 127  Number of males: 31 (24.4%)  Underlying cause of neuropathic pain: Post-her  Mean duration of NP (in months): 6.85  Baseline pain severity: 60.45 (VAS (average of Mean age: 66.8)								
Intervention(s)	(1) Tramadol up to 400 mg/d Intervention: tramadol Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Mean dose: 275.5mg/d Range: 100–400 Notes: started on 100 mg/d and daily dose was decreased) - this increased from 1 tablet per da years. Maximum was 400 mgd/ in those 75 or y (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Mean dose: 307.3mg/d	ay (in the evening	) to 4	table	ts in those aged up to	75 y			
Concomitant treatments  Outcomes	Drug free baseline period? Unclear Concomitant pain treatment allowed? No (thosopioids or local/general anaesthesia within 7 da	e on monoamine ays were all exclu	ded;	Parad	etamol up to 3g/d was	s allo	owe	d as rescue med	depressants, anticonvulsants, lication)
measures and			TRA	MAD	OL UP TO 400 MG/D	PL	ACE	BO	
effect sizes			N	k	mean	N	k	mean	Δ
	ITT/LOCF (last-observation carried forward) pain score: VAS – 0d VAS – 43d at least 50% pain reduction (VAS) – 43d adverse events:	Continuous Continuous Dichotomous	63 63 63	41	60.5 (SD 13.8) 25.3 (SD 23) (65.1%)	62 62 62		60.4 (SD 13.5) 33.6 (SD 25.4) (50.0%)	MD=-8.300 (CI: -16.799, 0.199) OR=1.864 (CI: 0.909, 3.823)
	arrhthmias/dysrhythmias – 43d <sup>a</sup> Nausea – 43d <sup>b</sup> Urine retention – 43d <sup>c</sup>	Dichotomous Dichotomous Dichotomous	63 63 63	1 11 1	(1.6%) (17.5%) (1.6%)	62	0 5 1	(0.0%) (8.1%) (1.6%)	OR=3.000 (CI: 0.120, 75.066) OR=2.412 (CI: 0.785, 7.405) OR=0.984 (CI: 0.060, 16.087)

	treatment withdrawal: lost to follow-up – 43d use of rescue medication: proportion taking up to 3 g/d of paracetamol – 43d	Dichotomous Dichotomous	64 63	1	(1.6%) (22.2%)	63 62		(1.6%) (40.3%)	OR=0.984 (CI: 0.060, 16.085) OR=0.423 (CI: 0.194, 0.924)
	Per Protocol pain score:  VAS – 0d VAS – 15d <sup>d</sup> VAS – 22d <sup>d</sup> VAS – 43d  a described in paper as adverse effects 'Cardiovascular described in paper as adverse effects 'Digestive Syst described in paper as adverse effects 'Urogenital Syst extracted from graph; dispersion in graph assumed to	em' stem'	53 53 53 53	ated f	60.8 (SD 12.1) 35 (SD 21.1) 31 (SD 21.1) 24.6 (SD 22.4)	55 55 55 55		60 (SD 13.8) 44 (SD 21.5) 40 (SD 21.5) 31.8 (SD 25.3)	MD=-9.000 (CI: -17.038, -0.962) MD=-9.000 (CI: -17.038, -0.962) MD=-7.200 (CI: -16.204, 1.804)
Comments	as concomitant drugs were not permitted, those to convulsants, opioids or local/general anaesthesia VAS measurement at day 43 visit (or at the final analyses as they had no VAS measurement over major protocol deviation)	within 7 days visit in case of p	were e	exclu ture	ded; ITT population lidiscontinuation) (1 pa	had the atient f	ose from	from the safety each group wa	population having at least one s excluded from the efficacy

Study	Breuer et al. (2007)
Pain category	Central pain
Study design	Country: USA  Design: Crossover  Inclusion criteria: At least 18 years of age, had a diagnosis of probable or definite MS, and reported pain with neuropathic features for at least 3 months, Score of 4 or higher on the 11-point Neuropathic Pain Scale (0=none, 10=the worst imaginable)  Exclusion criteria: central pain from another condition, 2 more more MS relapses within the prior 6 months, rapid progressive course of MS, recevied corticosteroids for MS in the 30 days before screening, treatment of epilepsy with anticonvulsants other than lamotrigine, clinically relevant hepatic or renal function, neurologic or psychiatric disease sufficient to potentially compromise compliance or data collection, history of failure ot respond to treatment with lamotrigine, experience with lamotrigine of an adverse event preventing titration to a dose that would have provided pain relief, history of hypersensitivity or serious adverse event to lamotrigine  Study length (days): 203  Intention-to-treat analysis? No
Participants	Total number of patients: 18 Number of males: 2 (11.1%) Underlying cause of neuropathic pain: MS neuropathic pain Mean duration of NP (in months): not reported Baseline pain severity: not reported (not reported) Mean age: 49.3

Intervention(s)	(1) Lamotrigine flexible dose								
	Intervention: lamotrigine Length of treatment (weeks): 13 Fixed/flexible dose regimen: Flexible dose Set dose: 400mg/d Range: 25–400 Notes: 8 weeks titration, 3 weeks maintenduring each of the 2 study periods, of the regiment (2) placebo Intervention: placebo Length of treatment (weeks): 13 Fixed/flexible dose regimen: Flexible dose	ance, 2 weeks tap remaining 3 - dosa					stu	dy comple	ters reached the maximum dosage
Concernit									
Concomitant treatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? Yes for at least 2 weeks prior to study enrollme		o remain	stable	throughout treatment	(use of	an	other anti-	
Outcomes measures and			LAMC	TRIGIN	E FLEXIBLE DOSE	PL	AC	ЕВО	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score: NRS/NRS Pain – 77d at least 30% pain reduction (NRS) – 77d patient-reported improvement in daily physical and emotional functioning, including sleep:	Continuous Dichotomous	15 18	5	(27.8%)	15 18	2	(11.1%)	MD=0.820 (CI: -1.532, 3.172) OR=3.077 (CI: 0.511, 18.535)
	BPI Sleep – 77d major adverse events (defined as leading to withdrawal):	Continuous	15			15			MD=-0.020 (CI: -1.784, 1.744)
	any major adverse event – 77d adverse events:	Dichotomous	18	2	(11.1%)	18	0	(0.0%)	OR=5.606 (CI: 0.251, 125.449)
	Blurred vision – 77d Constipation – 77d Dizziness – 77d feeling drunk/drugged – 77d frequent urination – 77d oedema – 77d Rash – 77d Sedation – 77d vertigo – 77d overall improvement in quality of life: MSQoL-54 overall rating – 77d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Continuous	18 18 18 18 18 18 18 18 18	0 1 0 1 1 1 1 1 0	(0.0%) (5.6%) (0.0%) (5.6%) (5.6%) (5.6%) (5.6%) (5.6%) (0.0%)	18 18 18 18 18	0 1 0 0 3 0 0	(0.0%) (5.6%) (0.0%) (0.0%) (16.7%) (0.0%)	OR=1.000 (CI: 0.019, 53.120) OR=3.171 (CI: 0.121, 83.166) OR=0.315 (CI: 0.012, 8.269) OR=3.171 (CI: 0.121, 83.166) OR=3.171 (CI: 0.121, 83.166) OR=0.294 (CI: 0.028, 3.138) OR=3.171 (CI: 0.121, 83.166) OR=3.171 (CI: 0.121, 83.166) OR=3.170 (CI: 0.121, 83.166) OR=1.000 (CI: 0.019, 53.120)  MD=0.050 (CI: -0.930, 1.030)
Comments	study reported use of 1 week baseline per receving a corticosteroid and 3 withdrer) becarryover effect from one treatment of and NPS score; there was a 7-day baseline per before randomisation, 2 after randomisation.	ut it was not recor ther; study also re riod; all patients w	ded whice ported decomposition the composition of t	ch treati lifferent oleted a	ment drug these patie aspects of the Neuro t least one treatment	nts wer pathic F period v	e re Pair wer	eceiving; on Scale (Ni re included	ne person included had a PS) but did not report a summary in the analysis; 1 patient withdrew

patients were included in the authors' safety analysis)

Study	Cardenas et al. (2002)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: USA Design: Parallel Inclusion criteria: Age 18 to 65 years, injury more than 6 months ago, duration of pain at least 3 months averaging at least 3 on a 0 to 10 scale Exclusion criteria: history of cardiovascular disease, absnormal ECG, seizures, hyperthyroidism, glaucoma, pregnancy or ineffective contraception method, any type of antidepressant medication, consumption of more than 2 alcoholic drinks per day, met psychiatric diagnostic criteria for major depressive episode Study length (days): 42 Intention-to-treat analysis? Yes
Participants	Total number of patients: 84 Number of males: 67 (79.8%) Underlying cause of neuropathic pain: Spinal cord injury pain Mean duration of NP (in months): 168.25 Baseline pain severity: 5.25 (NRS (average of arm means)) Mean age: 41.45
Intervention(s)	(1) Amitriptyline (10-125mg/d) Intervention: amitriptyline Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Median dose: 50mg/d Range: 10–125 Notes: week 1: 10 mg/d, week 2: 25 mg/d then increasing weekly by 25 mg/d to a possible maximum of 125 mg/d (50 mg/d was the median maximum and week 6 dose) (2) Placebo (active benztropine 0.5mg/d) Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dose Set dose: 0.5mg/d Notes: benztropine was used to mimic dry mouth associated with amitriptyline
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Unclear (current use of any antidepressant medication was exclusion criteria but it was not clear about permissions for other pain medications)

Outcomes measures and				ITRIP MG/D	TYLINE (10-	PLAC 0.5M		ACTIVE BENZTROPINE	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:				(05 / 6)			- (05)	
	NRS/NRS Pain – 0d	Continuous	44		5.5 (SD 1.8)	40		5 (SD 1.7)	
	NRS/NRS Pain – 42d	Continuous	44		4.5 (SD 1.9)	40		4 (SD 2)	MD=0.500 (CI: -0.336, 1.336)
	SF McGill – 0d	Continuous	44		17.5 (SD 9.8)	40		15.7 (SD 7.4)	
	SF McGill – 42d	Continuous	44		14.6 (SD 9.7)	40		12.8 (SD 8)	MD=1.800 (CI: -1.990, 5.590)
	patient-reported improvement in daily physical and emotional functioning, including sleep:								
	CES-D – 0d	Continuous	44		17.1 (SD 9.7)	40		13.3 (SD 8.6)	
	CES-D = 00 CES-D = 42d	Continuous	44		13.4 (SD 10.9)	40		11.2 (SD 8.6)	MD=2.200 (CI: -1.980, 6.380)
	BPI (modified) – 0d	Continuous	44		34.8 (SD 24.5) <sup>a</sup>	40		34.7 (SD 24.3) <sup>b</sup>	WD=2.200 (OI: 1.300, 0.300)
	Bi i (modifica) – od	Continuous	77		34.0 (OD 24.3)	40		54.7 (OD 24.5)	MD=5.400 (CI: -3.753,
	BPI (modified) – 42d	Continuous	44		29.8 (SD 22.4) <sup>a</sup>	40		24.4 (SD 20.4) <sup>b</sup>	14.553)
	major adverse events	Continuous			20.0 (05 22.4)	40		24.4 (00 20.4)	14.000)
	(defined as leading to withdrawal): any major adverse event – 42d	Dichotomous	44	7	(15.9%)	40	2	(5.0%)	OR=3.595 (CI: 0.701, 18.445)
	adverse events:								OR=6.831 (CI: 0.342,
	Blurred vision – 42d	Dichotomous	44		(6.8%)	40	0	(0.0%)	136.478)
	Constipation	Dichotomous	44	14	(31.8%)	40	9	(22.5%)	OR=1.607 (CI: 0.606, 4.267)
	Diarrhoea	Dichotomous	44	4	(9.1%)	40	3	(7.5%)	OR=1.233 (CI: 0.259, 5.883)
	Dizziness <sup>c</sup>	Dichotomous	44	0	(0.0%)	40	3	(7.5%)	OR=0.120 (CI: 0.006, 2.406)
	drowsiness/tiredness/fatigue –	D: 1 .			(0.4.00())	40	4.0	(05.00()	00 4 400 (01 0 500 0 040)
	42d	Dichotomous	44	14	(31.8%)	40	10	(25.0%)	OR=1.400 (CI: 0.538, 3.643)
	Dry mouth – 42d	Dichotomous	44	17	(38.6%)	40	14	(35.0%)	OR=1.169 (CI: 0.481, 2.845)
	headache	Dichotomous	44	4	(0.40/)	40	0	(0.00/)	OR=9.000 (CI: 0.469,
	neadache	Dicholomous	44	4	(9.1%)	40	U	(0.0%)	172.647)
	irritability	Dichotomous	44	4	(9.1%)	40	0	(0.0%)	OR=9.000 (CI: 0.469, 172.647)
	nausea/vomiting	Dichotomous	44		(0.0%)	40	3	(7.5%)	OR=0.120 (CI: 0.006, 2.406)
	nausea/vorniting	Dictiolofficus	44	U	(0.0%)	40	3	(7.5%)	OR=9.000 (CI: 0.469,
	palpitation	Dichotomous	44	4	(9.1%)	40	0	(0.0%)	172.647)
	sleep disturbance	Dichotomous	44	0	(0.0%)	40	3	(7.5%)	OR=0.120 (CI: 0.006, 2.406)
	Urine retention	Dichotomous	44	5	(11.4%)	40	5	(12.5%)	OR=0.897 (CI: 0.240, 3.363)
	treatment withdrawal:	Dionotomodo	77	Ü	(11.470)	-10	J	(12.070)	On-0.007 (On 0.240, 0.000)
	unspecified/other reason – 42d	Dichotomous	44	0	(0.0%)	40	1	(2.5%)	OR=0.296 (CI: 0.012, 7.473)
	lost to follow-up – 42d	Dichotomous		1	(2.3%)	40	Ö	(0.0%)	OR=2.793 (CI: 0.111, 70.545)
	<sup>a</sup> BPI form was modified by: assessing				. ,			` ,	, , , , , , , , , , , , , , , , , , , ,
	pain interference with self-care, rec b BPI form was modified by: assessing pain interference with self-care, rec	creational activitieng interference we creational activities	s, and ith mo	d soci obility	al activities instead of interferenc				.,,
	<sup>c</sup> defined as 'dizziness/light-headedr								
Comments	some participants did have depre the groups	ession (score of	16 c	or gre	ater on CES-D) but	random	isation	was stratified so these patie	ents were split equallly between

Study	Chandra et al. (2006)
Pain category	Peripheral pain
Study design	Country: India Design: Parallel Inclusion criteria: Participants with at least 8 week history of PHN after healing of rash with at least 40mm on 100mm VAS Exclusion criteria: Prior treatment with nortriptyline, gabapentin or demonstrated hypersensitivity to the drugs or their ingredients, neurolytic or neurosurgical therapy for PHN, immunocompromised state, hepatic or renal insufficiency, significant haemotological disease, history of severe pain other than that caused by PHN, history of use of experimental drugs or participation in a clinical study within 2 months of screening, a history of ilicit drug or alcohol abuse within the last year, any serious medical or psychological condition, muscle relaxants, anti-convulsants, topical analgesics and anti-viral agents were discontinued for at least 1 week prior to screening Study length (days): 63 Intention-to-treat analysis? Yes
Participants	Total number of patients: 76 Number of males: 34 (44.7%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): not reported Baseline pain severity: 5.7 (NRS (average of arm means) (5.05 is average VAS score)) Mean age: 54
Intervention(s)	(1) Nortriptyline 100mg/d Intervention: nortriptyline Length of treatment (weeks): 9 Fixed/flexible dose regimen: Flexible dose Notes: started at 25 mg twice daily and escalated every 2 weeks if drugs were well-tolerated: 25 mg 3x per day at 2 week and 2-25 mg 3x per day at 4 weeks; 2/3 of patients responded at a daily dose of 75 mg (2) Gabapentin 2700mg/d Intervention: gabapentin Length of treatment (weeks): 9 Fixed/flexible dose regimen: Flexible dose Notes: started at 300 mg 3x daily and escalated every 2 weeks if drugs were well-tolerated: 2-300 mg 3x per day at 2 week and 3-300 mg 3x per day at 4 weeks; nearly 80% of patients responded at a daily dose of 2700 mg
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Unclear (muscle relaxants, anti-convulsants, topical analgesics and anti-viral agents were discontinued for at least 1 week prior to screening but there is no comment about whether or not other anti-depressants were allowed during treatment; non-opioids were allowed as rescue analgesics)
Outcomes	NORTRIPTYLINE 100MG/D GABAPENTIN 2700MG/D
measures and effect sizes	N k mean Δ

pain score: NRS/NRS Pain – 0d	Continuous	36		5.8 (SD 1.4)	34		5.6 (SD 1.1)	
NRS/NRS Pain – 63d	Mean change	36		-2.18 (SD 1.9)	34		-1.97 (SD 1.68)	MD=-0.210 (CI: -1.049, 0.629)
VAS – 0d	Continuous	36		5.3 (SD 1.3)	34		4.8 (SD 1.2)	MB= 0.210 (01. 1.010; 0.020)
VAS – 63d	Mean change	36		-2.37 (SD 2.22)	34		-2 (SD 1.99)	MD=-0.370 (CI: -1.357, 0.617)
at least 50% pain reduction (NRS) - 63d	Dichotomous	36	9	(25.0%)	34	7	(20.6%)	OR=1.286 (CI: 0.418, 3.951)
SF McGill – 0d	Continuous	36		10.8 (SD 4)	34		10.4 (SD 4.4)	, , , , , ,
SF McGill – 63d	Mean change	36		-3.8 (SD 2.94)	34		-3.44 (SD 3.52)	MD=-0.360 (CI: -1.884, 1.164)
adverse events:	· ·			,			,	,
Constipation – 63d	Dichotomous	36	8	(22.2%)	34	0	(0.0%)	OR=20.579 (CI: 1.138, 372.137)
Drowsiness – 63d <sup>a</sup>	Dichotomous	36	6	(16.7%)	34	4	(11.8%)	OR=1.500 (CI: 0.384, 5.860)
Dry mouth – 63d	Dichotomous	36	18	(50.0%)	34	0	(0.0%)	OR=69.000 (CI: 3.931, 1211.166
Fatigue – 63d	Dichotomous	36	0	(0.0%)	34	1	(2.9%)	OR=0.306 (CI: 0.012, 7.771)
Postural hypotension – 63d	Dichotomous	36	12	(33.3%)	34	0	(0.0%)	OR=35.204 (CI: 1.989, 623.221)
treatment withdrawal:								
unspecified/other reason – 63d	Dichotomous	36	0	(0.0%)	34	1	(2.9%)	OR=0.306 (CI: 0.012, 7.771)
lost to follow-up – 63d	Dichotomous	36	2	(5.6%)	34	3	(8.8%)	OR=0.608 (CI: 0.095, 3.882)
a described in paper as sleepiness				. ,				,

Study	Cheville et al. (2009)
Pain category	Peripheral pain
Study design	Country: USA  Design: Crossover  Inclusion criteria: persistent postsurgical neuropathic pain for at least one month, at least 4 (of 10) neuropathic features, age 18 years or greater  Exclusion criteria: recent history of drug or alcohol abuse, life expectation >6 months, without clinical evident cognitive or psychiatric morbidity, pregnancy or nursing, non-surgical pain etiologies (ie. Malignancy, dermal pathology, etc), concurrent radiation therapy to painful area, skin problems at the site, use of topical medicines on the site, history of allergy or intolerance to amide local anaesthetics, use of class 1 antiarrhythmic drugs  Study length (days): 56  Intention-to-treat analysis? Yes
Participants	Total number of patients: 28 Number of males: 9 (32.1%) Underlying cause of neuropathic pain: Post-surgical pain after surgery for cancer Mean duration of NP (in months): not reported Baseline pain severity: 4.9 (NRS) Mean age: 61.8
Intervention(s)	(1) Lidocaine patch 5% - flexible dose Intervention: lidocaine (topical) Length of treatment (weeks): 4

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Concomitant treatments	Fixed/flexible dose regimen: Flexible dose Notes: maximum of 3 patches for 18 hours (2) placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Drug free baseline period? No Concomitant pain treatment allowed? Yes of new analgesics or adjuvant drugs led to	s or their bedtime during stud	ıl analgesics (including opi			ant ana	lgesics) but ir	ntroduction
Outcomes measures and			LIDOCAINE P DOSE	ATCH 5% - FLE	XIBLE	PLA	СЕВО	
effect sizes			N	k	mean	N	k mean	Δ
	patient-reported improvement in daily physical and emotional functioning, including sleep:  BPI – 28d <sup>a</sup>	Mean change	28		-1.8	28	-0.1	MD=- 1.700
	BPI Mood – 28d <sup>a</sup>	Mean change	28		-2.5	28	-0.5	MD=- 2.000
	BPI Sleep – 28d <sup>a</sup>	Mean change	28		-0.9	28	0.3	MD=- 1.200
	BPI general activity – 28d <sup>a</sup>	Mean change	28		-1.6	28	-0.2	MD=- 1.400
	BPI walking ability – 28d <sup>a</sup>	Mean change	28		-1.8	28	-0.6	MD=- 1.200
	BPI normal work – 28d <sup>a</sup>	Mean change	28		-2.3	28	0	MD=- 2.300
	BPI relationship with other people – 28d <sup>a</sup>	Mean change	28		-1.5	28	0.8	MD=- 2.300
	BPI enjoyment of life – 28d <sup>a</sup> major adverse events	Mean change	28		-1.9	28	-0.4	MD=- 1.500 OR=5.377 (CI:
	(defined as leading to withdrawal): any major adverse event – 28d	Dichotomous	28	2	(7.1%)	28	0 (0.0%)	0.247, 117.247) OR=1.812 (CI:
	treatment withdrawal: unspecified/other reason – 28d	Dichotomous	28	5	(17.9%)	28	3 (10.7%)	0.389, 8.444)
	treatment phase 1 pain score: NRS/NRS Pain – 0d <sup>b</sup>	Continuous	14		4.6 (SD 1.8)	14	5.1 (SD 1.9)	MD=-
	NRS/NRS Pain – 28d°	Continuous	14		4.4 (SD 2.12)	14	4.8 (SD 1.71)	0.400 (CI: -1.827, 1.027)

	NRS/NRS Pain – 28d <sup>d</sup>	Mean change	13	-0.85 (SD 1)	8	-0.6 (SD 1.1)	MD=- 0.250 (CI: -1.186, 0.686) MD=-
	treatment phase 2 pain score: NRS/NRS Pain – 28d <sup>d</sup>	Continuous	10	-1.5 (SD 1.4)	7	-0.8 (SD 2)	0.700 (CI: -2.417, 1.017)
	<ul> <li>a not certain of denominator</li> <li>b first randomisation period only</li> <li>c not certain of denominator; first rand</li> <li>d estimated from graph</li> </ul>	domisation period only					
Comments		over effects showed no significant int sample size as the sample size calcu					

Study	Clifford et al. (2012)
Pain category	Peripheral pain
Study design	Country: not clear  Design: Parallel Inclusion criteria: =18 years with HIV distal sensory polyneuropathy for =2 months and average baseline NRS of 3-9  Exclusion criteria: prior use of the study drug, topically applied pain medication, initiation or cesstion of treatment with neurotoxic ARVs, parenteral opioids, other possible cause of peripheral neuropathy, implanted device for NP  Study length (days): 84  Intention-to-treat analysis? Yes
Participants	Total number of patients: 494 Number of males: 432 (87.4%) Underlying cause of neuropathic pain: HIV-related neuropathy Mean duration of NP (in months): 72.6 Baseline pain severity: 6 (NRS (average of arm means)) Mean age: 49.7
Intervention(s)	(1) Capsaicin 8% (60 minutes) Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose Notes: study reports 8% capsaicin patch applied for 60 minutes once (2) Capsaicin 8% (30 minutes) Intervention: capsaicin patch

		patch applied for 30 minutes once										
	(3) Active placebo (0.04% capaicin) (60 minutes)											
	Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed	dose										
	(4) Active placebo (0.04% capsaid	in) (30 minutes)										
	Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed	dose										
	(5) Capsaicin 8% (30 or 60 minute	s)										
	Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed Notes: both 60 and 30 minute patch	ches combined										
	(6) Active placebo (0.04%) (30 or (	60 minutes)										
	Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed	dosa										
	Notes: both 60 and 30 minute pate											
Concomitant	Notes: both 60 and 30 minute pate	ches combined										
Concomitant treatments	Notes: both 60 and 30 minute pate  Drug free baseline period? Unclea  Concomitant pain treatment allower	ches combined  or  ed? Yes (stable dosages of chronic    application and for the study duration										
treatments  Outcomes measures and	Notes: both 60 and 30 minute pate.  Drug free baseline period? Unclea Concomitant pain treatment allowe at least 21 days before the patch a	ches combined  or  ed? Yes (stable dosages of chronic    application and for the study duration	n; acetamin	ophen up to 3g/d	as res		esics, opioid					
treatments  Outcomes	Notes: both 60 and 30 minute pate.  Drug free baseline period? Unclea Concomitant pain treatment allowe at least 21 days before the patch a	ches combined  or  ed? Yes (stable dosages of chronic    application and for the study duration	n; acetamin	ophen up to 3g/d	as res	cue analge	esics, opioid					
treatments  Outcomes measures and	Notes: both 60 and 30 minute pate.  Drug free baseline period? Unclea Concomitant pain treatment allowe at least 21 days before the patch a	ches combined  or  ed? Yes (stable dosages of chronic    application and for the study duration	CAPSAIC	ophen up to 3g/d SIN 8% (60	CAP MINI	SAICIN 8% JTES) k mea	esics, opioid	d oral pain medication for Δ				
treatments  Outcomes measures and	Notes: both 60 and 30 minute pate.  Drug free baseline period? Unclea Concomitant pain treatment allows at least 21 days before the patch a up to 5 days after treatment for treepain score:	ches combined or  ed? Yes (stable dosages of chronic   application and for the study duratior atment-associated discomfort)	CAPSAIC MINUTES	SIN 8% (60 mean	CAP MINI N	SAICIN 8% JTES)  k mea	esics, opioid	Δ MD=-3.700 (CI: -11.429, 4.029)				
treatments  Outcomes measures and	Notes: both 60 and 30 minute pate  Drug free baseline period? Unclea  Concomitant pain treatment allows at least 21 days before the patch a up to 5 days after treatment for tre  pain score: NRS/NRS Pain – 0d	ches combined or  ed? Yes (stable dosages of chronic   application and for the study duration atment-associated discomfort)  Continuous	CAPSAIC MINUTES N k	ciN 8% (60 b) mean 6.2 (SD 1.28)	CAP MINU N	SAICIN 8% JTES) k mea 6 (S	(30 an	Δ  MD=-3.700 (CI: -11.429, 4.029) MD=-6.600 (CI: -9.926, -3.274)				
treatments  Outcomes measures and	Notes: both 60 and 30 minute pate  Drug free baseline period? Unclea  Concomitant pain treatment allows at least 21 days before the patch a up to 5 days after treatment for tre  pain score: NRS/NRS Pain – 0d  NRS/NRS Pain – 28da	ches combined or ed? Yes (stable dosages of chronic papplication and for the study duration atment-associated discomfort)  Continuous  Percentage change from baseline	CAPSAIC MINUTES N k	cin 8% (60 b) mean 6.2 (SD 1.28) -32.7 (SD 39.2)	CAP MINU N 167	SAICIN 8% JTES) k mea 6 (S -29 -26.	(30 an SD 1.29)	Δ  MD=-3.700 (CI: -11.429, 4.029)  MD=-6.600 (CI: -9.926, -3.274)  MD=-9.200 (CI: -17.898, -0.502)				
Outcomes measures and	Notes: both 60 and 30 minute pate  Drug free baseline period? Unclea  Concomitant pain treatment allows at least 21 days before the patch a up to 5 days after treatment for tre  pain score: NRS/NRS Pain – 0d  NRS/NRS Pain – 28da  NRS/NRS Pain – 49db	ches combined or ed? Yes (stable dosages of chronic papplication and for the study duration atment-associated discomfort)  Continuous  Percentage change from baseline  Percentage change from baseline	CAPSAIC MINUTES N k 165 165	ciN 8% (60 b) mean 6.2 (SD 1.28) -32.7 (SD 39.2) -32.8 (SD 15.4)	CAP MINI N 167 167	SAICIN 8% JTES)  k mea  6 (S  -29  -26.	(30 an SD 1.29) (SD 32.3) 2 (SD 15.5)	Δ  MD=-3.700 (CI: -11.429, 4.029)  MD=-6.600 (CI: -9.926, -3.274)  MD=-9.200 (CI: -17.898, -				
Outcomes measures and	Notes: both 60 and 30 minute pate  Drug free baseline period? Unclea Concomitant pain treatment allows at least 21 days before the patch a up to 5 days after treatment for tre  pain score: NRS/NRS Pain – 0d  NRS/NRS Pain – 28da  NRS/NRS Pain – 49db  NRS/NRS Pain – 56da  NRS/NRS Pain – 84da	ches combined or ed? Yes (stable dosages of chronic papplication and for the study duration atment-associated discomfort)  Continuous  Percentage change from baseline  Percentage change from baseline  Percentage change from baseline	CAPSAIC MINUTES N k 165 165 165	ein 8% (60 b) mean 6.2 (SD 1.28) -32.7 (SD 39.2) -32.8 (SD 15.4) -35.1 (SD 47.5)	CAP MINU N 167 167 167	SAICIN 8% JTES)  k mea  6 (S  -29  -26.  -25.	(30 an (SD 1.29) (SD 32.3) 2 (SD 15.5) 9 (SD 31.7) 8 (SD 32.3)	Δ  MD=-3.700 (CI: -11.429, 4.029)  MD=-6.600 (CI: -9.926, -3.274)  MD=-9.200 (CI: -17.898, -0.502)  MD=-10.600 (CI: -19.680,				

erythema (not restricted to site) – 70d	Dichotomous	165	2	(1.2%)	167	3	(1.8%)	OR=0.671 (CI: 0.111, 4.067)
,				,			,	OR=1.223 (CI: 0.366,
Nausea – 70d	Dichotomous	165	6	(3.6%)	167	5	(3.0%)	4.087) OR=3.074 (CI: 0.316,
Peripheral oedema – 70d	Dichotomous	165	3	(1.8%)	167	1	(0.6%)	29.860)
Pruritus – 70d	Dichotomous	165	4	(2.4%)	167	8	(4.8%)	OR=0.494 (CI: 0.146, 1.673)
Fidilius – 700	Dictiotomous	103	4	(2.470)	107	0	(4.076)	OR=1.589 (CI: 1.029,
site erythema – 70d	Dichotomous	165	97	(58.8%)	167	79	(47.3%)	2.453)
site pain – 70d	Dichotomous	165	139	(84.2%)	167	135	(80.8%)	OR=1.267 (CI: 0.717, 2.239)
'				,			,	OR=1.435 (CI: 0.446,
site papules – 70d treatment withdrawal:	Dichotomous	165	7	(4.2%)	167	5	(3.0%)	4.617) OR=3.055 (CI: 0.124,
due to lack of efficacy – 70d	Dichotomous	165	1	(0.6%)	167	0	(0.0%)	75.529)
	Dish stampage	405	0	(2.00()	407	7	(4.00()	OR=0.863 (CI: 0.284,
unspecified/other reason – 70d	Dichotomous	165	6	(3.6%)	167	7	(4.2%)	2.623) OR=0.671 (CI: 0.111,
lost to follow-up - 70d	Dichotomous	165	2	(1.2%)	167	3	(1.8%)	4.067)
poor compliance – 70d	Dichotomous	165	1	(0.6%)	167	1	(0.6%)	OR=1.012 (CI: 0.063, 16.319)
ITT/LOCF (last-observation carried	Districtionings	100	•	(0.070)	107	•	(0.070)	10.010)
forward)								
pain score:	Mana valva avanudada trial mariad	405		4.4 (CD 0.57)	407		4.F. (CD 4.00)	MD=-0.400 (CI: -0.838,
NRS/NRS Pain – 49d <sup>c</sup>	Mean value over whole trial period  Mean difference from baseline to	165		4.1 (SD 2.57)	167		4.5 (SD 1.29)	0.038) MD=-0.400 (CI: -0.838,
NRS/NRS Pain – 49d <sup>d</sup>	average f-u	165		-2 (SD 2.57)	167		-1.6 (SD 1.29)	0.038)
at least 30% pain reduction (NRS) – 84d <sup>e</sup>	Dichotomous from baseline to average f-u	165	79		167	65		OR=1.442 (CI: 0.932, 2.229)
patient-reported global improvement:	arolago i u	100	, ,		107	50		,
PGIC - worse (all grades) or no change – 70d	Dichotomous	165	99	(60.0%)	167	102	(61.1%)	OR=0.956 (CI: 0.616, 1.484)
Griange – 700	Dictiotofflous	103	33	(00.070)	107	102	(01.170)	OR=1.046 (CI: 0.674,
PGIC - better (all grades) - 70d	Dichotomous	165	66	(40.0%)	167	65	(38.9%)	1.625)

<sup>&</sup>lt;sup>a</sup> %age change from baseline and SEs estimated from graph; denominators are estimates

<sup>b</sup> %age change in LS mean from baseline; from baseline to weeks 2 to 12

<sup>c</sup> least squares mean; mean value from weeks 2 to 12

<sup>d</sup> least squares; mean difference from baseline to weeks 2 to 12

<sup>e</sup> least squares; mean difference from baseline to weeks 2 to 12; approximated to nearest integer (percentages only presented in text)

			CAPSAICIN 8% (60 ACTIVE PLACEBO (0.04% CAPAICIN) (60 MINUTES)			
		N k	mean	N	k mean	Δ
pain score:						
NRS/NRS Pain – 0d	Continuous Percentage change from	165	6.2 (SD 1.28) -32.7 (SD	89	5.9 (SD 1.89)	MD=-5.000 (CI: -
NRS/NRS Pain – 28d <sup>a</sup>	baseline Percentage change from	165	39.2) -32.8 (SD	89	-27.7 (SD 25.5)	12.984, 2.984) MD=-2.800 (CI: -6.799,
NRS/NRS Pain – 49d <sup>b</sup>	baseline	165	15.4) `	89	-30 (SD 15.6)	1.199)

NRS/NRS Pain – 56d <sup>a</sup>	Percentage change from baseline Percentage change from	165		-35.1 (SD 47.5) -36.4 (SD	89		-35.1 (SD 27.4)	MD=0.000 (CI: -9.214) 9.214) MD=0.700 (CI: -8.710
NRS/NRS Pain – 84d <sup>a</sup> major adverse events	baseline	165		50.1)	89		-37.1 (SD 26.4)	10.110)
(defined as leading to withdrawal): any major adverse event – 70d	Dichotomous	165	1	(0.6%)	90	1	(1.1%)	OR=0.543 (CI: 0.034, 8.781)
adverse events:	Dichotomous	105	1	(0.6%)	90	1	(1.170)	OR=3.943 (CI: 0.477)
Diarrhoea – 70d erythema (not restricted to site) –	Dichotomous	165	7	(4.2%)	90	1	(1.1%)	32.566) OR=0.209 (CI: 0.040)
70d	Dichotomous	165	2	(1.2%)	90	5	(5.6%)	1.098)
Nausea – 70d	Dichotomous	165	6	(3.6%)	90	3	(3.3%)	OR=1.094 (CI: 0.267 4.484)
Peripheral oedema – 70d	Dichotomous	165	2	(1.8%)	90	2	(2.2%)	OR=0.815 (CI: 0.134 4.969)
·	Dichotomous	100	3	(1.6%)	90	2	(2.2%)	OR=1.093 (CI: 0.196
Pruritus – 70d	Dichotomous	165	4	(2.4%)	90	2	(2.2%)	6.087) OR=2.349 (CI: 1.387
site erythema – 70d	Dichotomous	165	97	(58.8%)	90	34	(37.8%)	3.979)
site pain – 70d	Dichotomous	165	139	(84.2%)	90	29	(32.2%)	OR=11.245 (CI: 6.11 20.675)
site papules – 70d	Dichotomous	165	7	(4.2%)	90	0	(0.0%)	OR=8.565 (CI: 0.484 151.711)
treatment withdrawal: due to lack of efficacy – 70d	Dichotomous	165	1	(0.6%)	90	1	(1.1%)	OR=0.543 (CI: 0.034 8.781)
•				,		·	,	OR=0.811 (CI: 0.223
unspecified/other reason – 70d	Dichotomous	165	6	(3.6%)	90	4	(4.4%)	2.953) OR=2.768 (CI: 0.13 <sup>-</sup>
lost to follow-up – 70d	Dichotomous	165	2	(1.2%)	90	0	(0.0%)	58.275) OR=0.268 (CI: 0.024
poor compliance – 70d	Dichotomous	165	1	(0.6%)	90	2	(2.2%)	3.000)
ITT/LOCF (last-observation carried forward)								
pain score:	Mean value over whole trial							MD=-0.100 (CI: -0.6
NRS/NRS Pain – 49d°	period Mean difference from baseline	165		4.1 (SD 2.57)	89		4.2 (SD 1.89)	0.454) MD=-0.200 (CI: -0.7
NRS/NRS Pain – 49d <sup>d</sup>	to average f-u	165		-2 (SD 2.57)	89		-1.8 (SD 1.89)	0.354)
at least 30% pain reduction (NRS) – 84d	Dichotomous from baseline to average f-u	165	79	е	90	40	d	OR=1.148 (CI: 0.689
patient-reported global	average i a	100	7.5		00	40		1.024)
improvement:								OB_2 602 (CI, 0.40)
PGIC - worse (all grades) or no change – 70d	Dichotomous	165	99	(60.0%)	90	26	(28.9%)	OR=3.692 (CI: 2.126 6.413)
PGIC - better (all grades) – 70d	Dichotomous	165	66	(40.0%)	90	63	(70.0%)	OR=0.286 (CI: 0.165 0.494)
- Cic beller (all grades) - rod	Dionotomous	100	00	(-0.070)	50	00	(10.070)	J.7J7 <i>)</i>

 <sup>%</sup>age change from baseline and SEs estimated from graph; denominators are estimates
 %age change in LS mean from baseline; from baseline to weeks 2 to 12
 least squares mean; mean value from weeks 2 to 12
 least squares; mean difference from baseline to weeks 2 to 12
 least squares; mean difference from baseline to weeks 2 to 12; approximated to nearest integer (percentages only presented in text)

			SAICI UTES	N 8% (30 )	ACTIVE PLACEBO (0.04% CAPSAICIN) (30 MINUTES)				
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous Percentage change from	167		6 (SD 1.29)	73		5.9 (SD 1.71)	MD=-8.600 (CI: -	
NRS/NRS Pain – 28d <sup>a</sup>	baseline Percentage change from	167		-29 (SD 32.3) -26.2 (SD	73		-20.4 (SD 13.7)	14.417, -2.783) MD=-7.100 (CI: -	
NRS/NRS Pain – 49d <sup>b</sup>	baseline Percentage change from	167		15.5) -25.9 (SD	73		-19.1 (SD 15.4)	11.340, -2.860) MD=-6.200 (CI: -	
NRS/NRS Pain – 56d <sup>a</sup>	baseline Percentage change from	167		31.7) -25.8 (SD	73		-19.7 (SD 13.7)	11.935, -0.465) MD=-8.500 (CI: -	
NRS/NRS Pain – 84d <sup>a</sup> major adverse events	baseline	167		32.3)	73		-17.3 (SD 13.2)	14.265, -2.735)	
(defined as leading to withdrawal):	Dishatamana	407	0	(0.00()	70	0	(0.00()	OR=0.433 (CI: 0.009,	
any major adverse event – 70d adverse events:	Dichotomous	167		(0.0%)	72	0	(0.0%)	22.026) OR=2.646 (CI: 0.313,	
Diarrhoea – 70d erythema (not restricted to site) –	Dichotomous	167		(3.6%)	72	1	(1.4%)	22.385) OR=0.311 (CI: 0.068,	
70d	Dichotomous	167	3	(1.8%)	72	4	(5.6%)	1.427) OR=2.191 (CI: 0.251,	
Nausea – 70d	Dichotomous	167	5	(3.0%)	72	1	(1.4%)	19.098) OR=0.139 (CI: 0.014,	
Peripheral oedema – 70d	Dichotomous	167	1	(0.6%)	72	3	(4.2%)	1.355) OR=7.727 (CI: 0.440,	
Pruritus – 70d	Dichotomous	167	8	(4.8%)	72	0	(0.0%)	135.694) OR=1.795 (CI: 1.009,	
site erythema – 70d	Dichotomous	167	79	(47.3%)	72	24	(33.3%)	3.196) OR=4.986 (CI: 2.729,	
site pain – 70d	Dichotomous	167	135	(80.8%)	72	33	(45.8%)	9.110)	
site papules – 70d	Dichotomous	167	5	(3.0%)	72	0	(0.0%)	OR=4.908 (CI: 0.268, 89.933)	
treatment withdrawal: due to lack of efficacy – 70d	Dichotomous	167	0	(0.0%)	72	0	(0.0%)	OR=0.433 (CI: 0.009, 22.026)	
unspecified/other reason – 70d	Dichotomous	167	7	(4.2%)	72	0	(0.0%)	OR=6.776 (CI: 0.382, 120.236)	
lost to follow-up – 70d	Dichotomous	167	3	(1.8%)	72	2	(2.8%)	OR=0.640 (CI: 0.105, 3.916)	
poor compliance – 70d	Dichotomous	167	1	(0.6%)	72	0	(0.0%)	OR=1.306 (CI: 0.053, 32.449)	
ITT/LOCF (last-observation carried forward)									
pain score:	Mean value over whole trial							MD=-0.400 (CI: -0.83	
NRS/NRS Pain – 49d°	period Mean difference from baseline	167		4.5 (SD 1.29)	73		4.9 (SD 1.71)	0.038) MD=-0.500 (CI: -0.938	
NRS/NRS Pain – 49d <sup>d</sup> at least 30% pain reduction	to average f-u Dichotomous from baseline to	167		-1.6 (SD 1.29)	73		-1.1 (SD 1.71)	-0.062) OR=1.778 (CI: 0.966,	
(NRS) – 84d	average f-u	167	65	е	72	19	d	3.270)	

patient-reported global improvement: PGIC - worse (all grades) or no change – 70d	Dichotomous	167 102	2 (61.1%)	72	34 (47.2%)	OR=1.754 (CI: 1.004, 3.063) OR=0.539 (CI: 0.309,
PGIC - better (all grades) – 70d overall improvement in quality of life:	Dichotomous	167 65	(38.9%)	72	39 (54.2%)	0.942)
SF36 Physical – 70d SF36 role physical – 70d	Mean change Mean change	167 167	9 11.5	73 73	-1.7 3.5	MD=10.700 MD=8.000
SF36 social functioning – 70d	Mean change	167	11	73	1.3	MD=9.700

wage change from baseline and SEs estimated from graph; denominators are estimates
wage change in LS mean from baseline; from baseline to weeks 2 to 12
least squares mean; mean value from weeks 2 to 12
least squares; mean difference from baseline to weeks 2 to 12
least squares; mean difference from baseline to weeks 2 to 12; approximated to nearest integer (percentages only presented in text)

		CAPSAICII MINUTES)		I 8% (30 OR 60		VE PLA NUTES	CEBO (0.04%) (30 OR )		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous Percentage change from	332		6.1 (SD 1.82)	162		5.9 (SD 1.27)	MD=-5.000 (CI: -8.842,	
NRS/NRS Pain – 49d <sup>a</sup> major adverse events (defined as leading to	baseline	332		-29.5 (SD 28.2)	162		-24.5 (SD 15.3)	-1.158)	
withdrawal):								OR=2.458 (CI: 0.117,	
any major adverse event – 70d adverse events:	Dichotomous	332	2	(0.6%)	162	0	(0.0%)	51.505) OR=3.260 (CI: 0.727,	
Diarrhoea – 70d erythema (not restricted to site)	Dichotomous	332	13	(3.9%)	162	2	(1.2%)	14.622) OR=0.260 (CI: 0.086,	
– 70d	Dichotomous	332	5	(1.5%)	162	9	(5.6%)	0.789) OR=1.354 (CI: 0.424,	
Nausea – 70d	Dichotomous	332	11	(3.3%)	162	4	(2.5%)	4.318) OR=0.383 (CI: 0.101,	
Peripheral oedema – 70d	Dichotomous	332	4	(1.2%)	162	5	(3.1%)	1.446) OR=3.000 (CI: 0.663,	
Pruritus – 70d	Dichotomous	332	12	(3.6%)	162	2	(1.2%)	13.566) OR=2.023 (CI: 1.374,	
site erythema – 70d	Dichotomous	332	176	(53.0%)	162	58	(35.8%)	2.978) OR=7.620 (CI: 4.981,	
site pain – 70d	Dichotomous	332	274	(82.5%)	162	62	(38.3%)	11.655) OR=12.676 (CI: 0.746,	
site papules – 70d	Dichotomous	332	12	(3.6%)	162	0	(0.0%)	215.437)	
ITT/LOCF (last-observation carried forward)									
pain score: NRS/NRS Pain – 49d <sup>b</sup>	Mean value over whole trial period Mean difference from baseline	332		4.3 (SD 1.82)	162		4.6 (SD 2.55)	MD=-0.300 (CI: -0.738, 0.138) MD=-0.400 (CI: -0.838,	
NRS/NRS Pain – 49d <sup>c</sup>	to average f-u	332		-1.8 (SD 1.82)	162		-1.4 (SD 2.55)	0.038)	

	at least 30% pain reduction (NRS) – 84d <sup>d</sup> patient-reported global	Dichotomous from baseline to average f-u	332	143		162	58		OR=1.357 (CI: 0.921, 1.999)
	improvement: PGIC - worse (all grades) or no change – 70d	Dichotomous	332	265	(79.8%)	162	107	(66.0%)	OR=2.033 (CI: 1.334, 3.099) OR=0.492 (CI: 0.323,
	PGIC - better (all grades) - 70d	Dichotomous	332	67	(20.2%)	162	55	(34.0%)	0.750)
	<sup>a</sup> %age change in LS mean from baseline; from baseline to weeks 2 to 12 <sup>b</sup> least squares mean; mean value from weeks 2 to 12 <sup>c</sup> least squares; mean difference from baseline to weeks 2 to 12 <sup>d</sup> least squares; mean difference from baseline to weeks 2 to 12; approximated to nearest integer (percentages only presented in text)  authors state that covariate analysis found use of concomitant NP medication usage, age, baseline pain and percent decrease in pain during the papplication had significant affects on pain reduction.								
Comments	14 day baseline screening period; pre-treatment with lidocaine; McGill Pain Questionnaire also administered but differences were not significant; covariate analysis found concomitant medication use, age, pre-lidocaine pain, % decrease of pain during lidocaine application were all significant; one patient randomised to receive 30-minute control patch actually was treated with 60-minute control patch - this patient was included as randomised in the efficacy analyses but in the 60-minute group for the safety analyses								

Study	Davidoff et al. (1987)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: USA Design: Parallel Inclusion criteria: Patients with dysesthetic pain following traumatic myelopathy for at least 1 month, and initial onset within the first post injury year. Patients had failed to respond to conventional treatment, and had a pain induced functional impairment Exclusion criteria: Under 18 years of age, lacked English fluency, recent history of alcohol or substance abuse Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 18 Number of males: 16 (88.9%) Underlying cause of neuropathic pain: Spinal cord injury pain Mean duration of NP (in months): 49.3 Baseline pain severity: 2.25 (PPI from MPQ (average of arm means) (duration of NP and age are average of arm means)) Mean age: 39.1
Intervention(s)	(1) Trazodone hydrochloride 150mg/d Intervention: trazodone

	Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dos Set dose: 150mg/d Notes: 1 capsule per day for 3 days, 2 (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dos	capsules per c	lay for	the nex	kt 4 days, 3 per day for the rema	aining	35 weeks of the s	study
Concomitant	Drug free baseline period? No							
treatments	Concomitant pain treatment allowed?	Unclear						
Outcomes			TRA	ZODON	E HYDROCHLORIDE 150MG/D	PL	ACEBO	
measures and effect sizes			N	k	mean	N	k mean	Δ
	pain score: PPI (from MPQ) – 0d PPI (from MPQ) – 42d adverse events: any adverse event – 42d Constipation – 42d Dizziness – 42d Drowsiness – 42d Dry mouth – 42d Infection – 42d <sup>a</sup> Urine retention – 42d	Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	9 9 9 9 9 9 9	4 0 2 4 2 2 1	2.1 (SD 0.45) 2.6 (SD 0.3) (44.4%) (0.0%) (22.2%) (44.4%) (22.2%) (22.2%) (11.1%)	9 9 9 9	2.4 (SD 0.45) 1.7 (SD 0.3) 1 (11.1%) 0 (0.0%) 0 (0.0%) 1 (11.1%) 0 (0.0%) 0 (0.0%) 0 (0.0%)	MD=0.900 (CI: 0.623, 1.177)  OR=6.400 (CI: 0.547, 74.891)  OR=1.000 (CI: 0.018, 55.799)  OR=6.333 (CI: 0.262, 152.863)  OR=6.400 (CI: 0.547, 74.891)  OR=6.333 (CI: 0.262, 152.863)  OR=6.333 (CI: 0.262, 152.863)  OR=6.333 (CI: 0.262, 152.863)  OR=3.353 (CI: 0.120, 93.835)
	average per day pain score: Sternbach Pain Intensity (1-100) – 0d Sternbach Pain Intensity (1-100) – 42d average per week pain score: Sternbach Pain Intensity (1-100) – 0d Sternbach Pain Intensity (1-100) – 42d	Continuous Continuous Continuous Continuous	9 9 9		57.9 (SD 33.3) 61.7 (SD 20.4) 69.7 (SD 26.1) 73.9 (SD 14.1)	9 9 9	55.7 (SD 31.2) 63.4 (SD 25.2) 65.6 (SD 28.8) 68.3 (SD 20.7)	MD=-1.700 (CI: -22.882, 19.482)  MD=5.600 (CI: -10.763, 21.963)
	a urinary tract infection							
Comments	-							

Study	Dogra et al. (2005)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel

	Inclusion criteria: 6 months to 5	years history of PDN	N, at leas	st 50mm	on VAS-100mm				
	Exclusion criteria: Other types of neuropathic pain, amputation (of carbamazepine.  Study length (days): 112 Intention-to-treat analysis? Yes								
Participants	Total number of patients: 146 Number of males: 85 (58.2%) Underlying cause of neuropathic Mean duration of NP (in months) Baseline pain severity: 72.9 (VA Mean age: 60.1	): 31.8		opathy					
Intervention(s)	(1) Oxcarbazepine flexible dose Intervention: oxcarbazepine Length of treatment (weeks): 16 Fixed/flexible dose regimen: Flexible dose regimen: Flexible dose: 1445mg/d Range: 300–1800 Notes: 4 week titration, 12 week maximum of 900 mg 2x per day (2) Placebo Intervention: placebo Length of treatment (weeks): 16 Fixed/flexible dose regimen: Flexible	xible dose maintenance; starte in increments of 300					x per day, th	en titrated as tole	rated to a
Concomitant treatments	Drug free baseline period? Yes Concomitant pain treatment allo		nam ora	al cortico		9.6 1.1	ochloride de	vetro mothornhon	
	other medication that could affect Paracetamol 2000mg/d (as resc	ct neuropathic pain			steroids, TCAs, AEDs, mea ed; however, SSRIs and be				
Outcomes measures and		ct neuropathic pain	were not	t permitte			es apart fron		
		ct neuropathic pain	oxc	t permitte	ed; however, SSRIs and be	enzodiazepir	es apart fron		
measures and		ct neuropathic pain	OXCA 1800N	ARBAZEI	ed; however, SSRIs and be	enzodiazepir	es apart fron	m clonazepam we	

forward) Pain score:							74.3 (SD	
VAS – 0d	Continuous	69		71.5 (SD 15.8)	77		13.7)	
VAS – 28d <sup>c</sup>	Continuous	69		55 (SD 24.5)	77		65 (SD 22)	MD=-10.000 (CI: -17.587, -2.413)
				,			61.5 (SD <sup>^</sup>	MD=-12.000 (CI: -20.624, -
VAS – 56d <sup>c</sup>	Continuous	69		49.5 (SD 29)	77		23.5)	3.376) MD=-11.000 (CI: -20.065, -
VAS – 84d <sup>c</sup>	Continuous Mean	69		50 (SD 29.5)	77		61 (SD 26) -14.7 (SD	1.935) MD=-9.600 (CI: -18.316, -
VAS – 122d	change	69		-24.3 (SD 27.2)	77		26.4)	0.884)
VAS – 122d	Continuous	69		47.2 (SD 27.8)	77		59.6 (SD 27.4)	MD=-12.400 (CI: -21.371, - 3.429)
at least 30% pain reduction (VAS) – 122d	Dichotomous	69	31	(44.9%)	77	22	(28.6%)	OR=2.039 (CI: 1.028, 4.04
at least 50% pain reduction (VAS) – 122d	Dichotomous	69	24	(34.8%)			(18.2%)	OR=2.400 (CI: 1.120, 5.14)
atient-reported global improvement:				,			,	•
GATE- at least much improved – 122d najor adverse events	Dichotomous	69	33	(47.8%)	77	17	(22.1%)	OR=3.235 (CI: 1.581, 6.62)
defined as leading to withdrawal): any major adverse event – 122d dverse events:	Dichotomous	69	19	(27.5%)	77	6	(7.8%)	OR=4.497 (CI: 1.677, 12.0
Blurred vision	Dichotomous	69	1	(1.4%)	77	1	(1.3%)	OR=1.118 (CI: 0.069, 18.2
Diarrhoea	Dichotomous	69	1	(1.4%)	77		(5.2%)	OR=0.268 (CI: 0.029, 2.46
Dizziness – 122d	Dichotomous	69	7	(10.1%)	77		(1.3%)	OR=8.581 (CI: 1.028, 71.6
Fatigue – 122d	Dichotomous	69	3	(4.3%)	77			OR=3.455 (CI: 0.351, 34.0
headache	Dichotomous	69	5	(7.2%)	77		(1.3%)	OR=5.938 (CI: 0.676, 52.1)
Nausea – 122d	Dichotomous	69	2	(2.9%)	77		(1.3%)	OR=2.269 (CI: 0.201, 25.5 OR=13.217 (CI: 0.717,
Somnolence – 122d	Dichotomous	69	5	(7.2%)	77	0	(0.0%)	243.557)
Vomiting	Dichotomous	69	2	(2.9%)	77		(1.3%)	OR=2.269 (CI: 0.201, 25.5
reatment withdrawal:	Dionoteoue	00	-	(2.070)	• •	•	(1.070)	011-2:200 (0:: 0:20:, =:::
due to lack of efficacy – 122d	Dichotomous	69	0	(0.0%)	77	2	(2.6%)	OR=0.217 (CI: 0.010, 4.60
unspecified/other reason – 122d	Dichotomous	69	5	(7.2%)	77		(7.8%)	OR=0.924 (CI: 0.269, 3.17
protocol deviation – 122d	Dichotomous	69	1	(1.4%)	77		(1.3%)	OR=1.118 (CI: 0.069, 18.2
use of rescue medication: mean daily dose <sup>d</sup>	Continuous	69		915 (SD 895)	77		947 (SD 970)	MD=-32.000 (CI: -334.550, 270.550)
Treatment completers				,			(- ,	,
pain score:								
VAS – 0d	Continuous	44		69 (SD 16)	58		73 (SD 12.5) 56.1 (SD	MD=-16.500 (CI: -26.906,
VAS – 122d	Continuous Mean	44		39.6 (SD 25.9)	58		27.4) -16.9 (SD	6.094) MD=-12.500 (CI: -23.290,
VAS – 122d	change	44		-29.4 (SD 27.1)	58		28.1)	1.710)

<sup>&</sup>lt;sup>c</sup> Estimated from graph mg/d

Comments

there was a 2 week screening phase - unclear if this included a drug-free phase (however, as concomitant medications were not allowed)

Study	Donofrio & Capsaicin study (1992)						
Pain category	Peripheral pain						
Study design	Country: USA Design: Parallel Inclusion criteria: Participants with PDN or radiculopath Exclusion criteria: pregnancy, another skin condition in or disorder not under long-term control Study length (days): 56 Intention-to-treat analysis? No				uncontrol	lled diabetes,	another organic disease
Participants	Total number of patients: 277  Number of males: 139 (50.2%)  Underlying cause of neuropathic pain: Painful diabetic Mean duration of NP (in months): not reported  Baseline pain severity: 76 (VAS (89% had peripheral p duration, 4% had both peripheral polyneuropathy and mean age: 60	olyneuroap	thy with 5 y	ear mean pain duration, 7%	s had rad	iculopathy wi	th 3 year mean pain
Intervention(s)	(1) Capsaicin 0.075% fixed dosage (applied 4x per day Intervention: capsaicin cream Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose (2) Placebo (vehicle) Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose	<b>(</b> )					
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (medication for study))	dosage of p	orevious ora	al pain medications that wer	e not exp	pected to cha	ange (otherwise, ineligible
Outcomes measures and		CAPSAIC 4X PER I		FIXED DOSAGE (APPLIED	PLAC (VEHI		
effect sizes		N	k	mean	N	k mean	Δ
	pain score:  VAS – 56d  Percentage change from baseline  VAS – 56d  Continuous	119 120		-38.1 58.4	131 131	-27.4 45.2	MD=-10.700 MD=13.200

	major adverse events (defined as leading to							
	withdrawal): any major adverse event –							OR=4.020 (CI: 1.448,
	56d	Dichotomous	138	18	(13.0%)	139	5 (3.69	,
	adverse events:							OR=8.604 (CI: 4.888,
	Burning pain – 56d	Dichotomous	138	87	(63.0%)	139	23 (16.	,
	Rash – 56d treatment withdrawal:	Dichotomous	138	10	(7.2%)	139	4 (2.9	OR=2.637 (CI: 0.807, %) 8.619) OR=0.199 (CI: 0.009,
	due to lack of efficacy – 56d unspecified/other reason –	Dichotomous	138	0	(0.0%)	139	2 (1.49	•
	56d	Dichotomous	138	13	(9.4%)	139	7 (5.09	,
	poor compliance – 56d	Dichotomous	138	7	(5.1%)	139	6 (4.3	,
	<sup>a</sup> percentage improvement from	baseline						
Comments	new oral analgesic usage, a discontinued for at least 7 da		CNS-acting drugs	were not al	lowed during the stu	dy, topic medi	cations pr	eviously applied were

Study	Dworkin et al. (2003)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Pain for 3 or more months following herpes zoster rash healing, at least 40mm on the VAS100mm Exclusion criteria: Those who had previously failed to respond to gabapentin Study length (days): 56 Intention-to-treat analysis? Yes
Participants	Total number of patients: 173 Number of males: 81 (46.8%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 33.8 Baseline pain severity: 6.4 (NRS) Mean age: 71.5
Intervention(s)	(1) Pregabalin 300 mgd or 600mg/d Intervention: pregabalin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 600mg/d Notes: start at 150 mg/d (50 mg 3x) for first 3 days and 300 mg/d (100 mg 3x) for remainder at firset treatment week; those with creatinine clearance > 60

	ml/min were given 300 mg/d (200 m (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed of	dose	rt of the	e 2nd v	veek								
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Yes (Some existing medications allowed if stable doses for at least 30 day: narcotic and non-narcotic analgesi NSAIDs, antidepressants, acetaminophen (no more than 4g/d), aspirin, anti-depressants including SSRIs; prohibited medications requiring 7 day washout included: benzodiazepine, skeletal muscle relaxant, orally administered steroids, local and topical agents for PHN and anti-convulsants (including gabapentin) (injected local anaesthetics or steroids were not permitted within one month of baseline))												
Outcomes measures and			PREGABALIN 300 MGD OR 600MG/D					во					
effect sizes			N	k	mean	N	k	mean	Δ				
	NRS/NRS Pain – 56d at least 30% pain reduction – 56d <sup>a</sup> at least 50% pain reduction – 56d <sup>a</sup> I McGill VAS – 56d <sup>b</sup>	Continuous Continuous Dichotomous Dichotomous Continuous Continuous	89 88 89 89 89	56 44	6.3 (SD 1.4) 3.6 (SD 2.25) (62.9%) (49.4%) 38.7 (SD 27.4) 1.58 (SD 1.13)			6.4 (SD 1.5) 5.29 (SD 2.2) (25.0%) (20.2%) 56.3 (SD 26.9) 1.98 (SD 1.1)	MD=-1.690 (CI: -2.330, -1.050) OR=5.091 (CI: 2.645, 9.800) OR=3.854 (CI: 1.962, 7.571) MD=-17.620 (CI: -25.375, -9.865) MD=-0.400 (CI: -0.710, -0.090)				
	PGIC - worse (all grades) – 56d PGIC - no change – 56d PGIC - better (all grades) – 56d patient-reported improvement in daily physical and emotional functioning, including sleep:	Dichotomous Dichotomous Dichotomous	89 89 89	3 11 71	(3.4%) (12.4%) (79.8%)	84	50	(14.3%) (59.5%) (26.2%)	OR=0.209 (CI: 0.057, 0.771) OR=0.096 (CI: 0.045, 0.206) OR=11.116 (CI: 5.465, 22.610)				
	MOS sleep problems index – 56d <sup>b</sup> major adverse events (defined as leading to withdrawal):	Continuous	85		26.6 (SD 16.3)	82		36.4 (SD 15.8)	MD=-9.800 (CI: -14.490, -5.110)				
	any major adverse event – 56d adverse events:	Dichotomous	89	28	(31.5%)	84		(4.8%)	OR=9.180 (CI: 3.058, 27.561)				
	Confusion – 56d Diarrhoea – 56d Dizziness – 56d Dry mouth – 56d Gait disturbance – 56d headache – 56d Peripheral oedema – 56d Somnolence – 56d overall improvement in quality of life:	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	89 89 89 89 89 89	6 6 25 10 7 7 17 22	(6.7%) (6.7%) (28.1%) (11.2%) (7.9%) (7.9%) (19.1%) (24.7%)	84 84 84 84	4 10 2 1 7 2	(0.0%) (4.8%) (11.9%) (2.4%) (1.2%) (8.3%) (2.4%) (7.1%)	OR=13.156 (CI: 0.729, 237.259) OR=1.446 (CI: 0.393, 5.315) OR=2.891 (CI: 1.291, 6.472) OR=5.190 (CI: 1.102, 24.435) OR=7.085 (CI: 0.853, 58.876) OR=0.939 (CI: 0.315, 2.801) OR=9.681 (CI: 2.162, 43.340) OR=4.269 (CI: 1.635, 11.148)				
	SF36 Mental – 56d <sup>b</sup> SF36 Physical – 56d <sup>b</sup> treatment withdrawal:	Continuous Continuous	86 85		77.5 (SD 14.3) 62.2 (SD 18.1)	83 83		73.7 (SD 14) 61.4 (SD 17.3)	MD=3.810 (CI: -0.275, 7.895) MD=0.840 (CI: -4.600, 6.280)				
	due to lack of efficacy – 56d withdrawal of consent – 56d poor compliance – 56d	Dichotomous Dichotomous Dichotomous	89 89 89	0 1 2	(0.0%) (1.1%) (2.2%)	84 84 84	0	(7.1%) (0.0%) (0.0%)	OR=0.067 (CI: 0.004, 1.217) OR=2.864 (CI: 0.115, 71.295) OR=4.829 (CI: 0.228, 102.063)				

	<sup>a</sup> calculated from percentages <sup>b</sup> baseline not reported
Comments	-

Study	Eisenberg et al. (2001)
Pain category	Peripheral pain
Study design	Country: Israel Design: Parallel Inclusion criteria: People with Type 1 or 2 diabetes, with evidence of peripheral neuropathy, and with no changes in their anithyperglycaemic medications within Exclusion criteria: Under the age of 18, older than 75 years, impaired renal or liver function, known epilepsy, presence for other painful conditions, receipt of anticonvulsants antidepressants or membrane stablilising agents for reasons other than pain relief, opioids, participation in any clinical trial in the 30 days prior to screening. Study length (days): 77 Intention-to-treat analysis? Yes
Participants	Total number of patients: 53 Number of males: 33 (62.3%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 44.4 Baseline pain severity: 6.5 (NRS) Mean age: 55.25
Intervention(s)	(1) Lamotrigine 400 mg/d Intervention: lamotrigine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d Notes: titrated from 25 to 400 mg over a 6-week period (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? Yes (duration: 3d)  Concomitant pain treatment allowed? No (analgesics (including anti-convulsants, anti-depressants, membrane stablizers and opioids) were discontinued at least 3 days before treatment; Paracetamol, dipyrone or NSAIDs as rescue)
Outcomes measures and	LAMOTRIGINE 400 MG/D PLACEBO

effect sizes			N	k	mean	N F	mean	Δ
	pain score:  NRS/NRS Pain – 0d  NRS/NRS Pain – 56d  at least 50% pain reduction – 46d <sup>a</sup> McGill Pain Questionnaire – 0d <sup>b</sup> McGill Pain Questionnaire – 56d <sup>b</sup> patient-reported improvement in daily physical and emotional	Continuous Continuous Dichotomous Continuous Continuous	27 27 27 27 27	12	6.4 (SD 0.52) 4.2 (SD 0.52) (44.4%) 12 (SD 3.92) 12.5 (SD 4.41)	26 26 26 26 26 26	6.5 (SD 0.51) 5.3 (SD 0.51) 6 (19.2%) 11.1 (SD 3.75) 10.7 (SD 4.69)	MD=-1.100 (CI: -1.376, -0.824) OR=3.360 (CI: 0.976, 11.563) MD=1.800 (CI: -0.653, 4.253)
	functioning, including sleep:  BDI – 0d  BDI – 56d  major adverse events	Continuous Continuous	27 27		14.1 (SD 7.35) 14.5 (SD 10.3)	26 26	17.1 (SD 10.3) 15.9 (SD 10.3)	MD=-1.400 (CI: -6.949, 4.149)
	(defined as leading to withdrawal): any major adverse event – 56d adverse events:	Dichotomous	27	2	(7.4%)	26 2	? (7.7%)	OR=0.960 (CI: 0.125, 7.371)
	Dizziness – 56d Drowsiness epigastric pain headache Nausea – 56d Rash – 56d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	27 27 27 27 27 27	3 1 3 2 4 2	(11.1%) (3.7%) (11.1%) (7.4%) (14.8%) (7.4%)	26 4 26 4 26 1 26 2 26 4 26 0	(3.8%) 2 (7.7%) 4 (15.4%)	OR=0.688 (Cl: 0.138, 3.422) OR=0.212 (Cl: 0.022, 2.035) OR=3.125 (Cl: 0.304, 32.165) OR=0.960 (Cl: 0.125, 7.371) OR=0.957 (Cl: 0.213, 4.305) OR=5.196 (Cl: 0.238, 113.586)
	treatment withdrawal: unspecified/other reason – 56d protocol deviation poor compliance use of rescue medication: proportion requiring at least 1 tablet of rescue medication	Dichotomous Dichotomous Dichotomous	27 27 27 27	1° 0 2	(3.7%) (0.0%) (7.4%)	26 2 26 1 26 3	(3.8%) (3.8%) (3.11.5%)	OR=0.462 (CI: 0.039, 5.422) OR=0.309 (CI: 0.012, 7.937) OR=0.613 (CI: 0.094, 4.006)
	proportion requiring at least 1 tablet of rescue medication proportion requiring at least 1 tablet of rescue medication  a Measured during last 3 weeks of treatment b MPQ words c personal reasons d personal reasons or car accident	Dichotomous	27	2	(29.2%) (7.4%)	26 3 26 3		OR=0.613 (CI: 0.094, 4.006)
Comments	-							

Study	Falah et al. (2012)
Pain category	Central pain
Study design	Country: Denmark  Design: Crossover  Inclusion criteria: 18 years and older with signs and symptoms consistent with central neuropathic pain due to multiple sclerosis (MS confirmed by a specialist in neurology using Poser criteria as patients were typically recruited before McDonald criteria were used; central NP signs and symptoms included pain in a body area with sensory abnormality on clinical examination or quantitative sensory examination corresponding to at least one lesion of the CNS), median total pain of at least 5 on 11-point NRS
	Exclusion criteria: causes other than central NP due to MS, previous allergic reaction/severe adverse reactions to levetiracetam, pregnancy and lactation,

	severe terminal illness or concomitant treatment w	vith antidepres	ssants	, other	anticonvulsants or o	opioids that	could not be o	discontinued				
	Study length (days): 105											
	Intention-to-treat analysis? Yes											
Participants	Total number of patients: 30											
·	Number of males: 22 (73.3%)											
	Underlying cause of neuropathic pain: MS neurop	athic pain										
	Mean duration of NP (in months): 60											
	Baseline pain severity: 5.8 (NRS (median)											
	(also, median duration of NP and age))											
	Mean age: 47											
Intervention(s)	(1) levetiracetam flexible dose											
	Intervention: levetiracetam											
	Length of treatment (weeks): 6	Length of treatment (weeks): 6										
	Fixed/flexible dose regimen: Flexible dose Range: 2000–3000											
	Notes: slow titration in the first 15 days up to 3000 mg/d but those with unacceptable side effects were permitted to lower their dose to 2000-2500 mg/d;											
	actual numbers of patients achieving these different dosage levels was not reported; 7 of 37 eligible patients were withdrawan prior to randomisation for reasons including that they could not stop current pain treatment or failed to meet inclusion criteria											
		pain treatmer	it or ia	iiea to	meet inclusion crite	па						
	(2) placebo											
	Intervention: placebo Length of treatment (weeks): 6											
	Fixed/flexible dose regimen: Flexible dose											
Concomitant	Drug free baseline period? Yes (duration: 7d)											
treatments	Concomitant pain treatment allowed? No (all concor patients on these were excluded; up to six table medication)											
Outcomes measures and			LEV DOS		CETAM FLEXIBLE	PLAC	EBO					
effect sizes			N	k	mean	N k	mean	_ Δ				
	ITT/LOCF (last-observation carried forward) pain score:											
	NRS/NRS Pain – 0d	Continuous	27		5.8 (SD 1.4)	27	5.8 (SD 1.4)					
	NRS/NRS Pain – 42d	Continuous	27		5.3 (SD 2)	27	5.7 (SD 1.8)	MD=-0.400 (CI: -1.415, 0.615)				
	patient-reported improvement in daily physical and emotional											
	functioning, including sleep:	0	07		4.4.(00.0.5)	07	4.4.(00.0.5)					
	Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure –	Continuous	27		4.4 (SD 2.5)	27	4.4 (SD 2.5)					
	42d <sup>a</sup>	Continuous	27		3.6 (SD 2.8)	27	4.1 (SD 2.9)					
	NRS Sleep – 0d	Continuous	27		4.4 (SD 2.5)	27	4.4 (SD 2.5)					

	NRS Sleep – 42d	Continuous	27		3.6 (SD 2.8)	27	4.1 (SD 2.9)	MD=-0.500 (CI: -2.021, 1.021)
	major adverse events							
	(defined as leading to withdrawal):							
	any major adverse event – 42d	Dichotomous	30	$4^b$	(13.3%)	30 1°	(3.3%)	OR=4.462 (CI: 0.468, 42.514)
	adverse events:				,		, ,	,
	Blurred vision – 42d <sup>d</sup>	Dichotomous	30	1	(3.3%)	30 0	(0.0%)	OR=3.102 (CI: 0.121, 79.228)
	Constipation – 42d	Dichotomous	30	1	(3.3%)	30 3	(10.0%)	OR=0.310 (CI: 0.030, 3.168)
	Diarrhoea – 42d	Dichotomous	30	2	(6.7%)		(6.7%)	OR=1.000 (CI: 0.131, 7.605)
		2.0		_	(811 70)		(011 70)	OR=23.044 (CI: 1.263,
	Dizziness – 42d	Dichotomous	30	8	(26.7%)	30 0	(0.0%)	420.370)
	Drowsiness – 42d <sup>e</sup>	Dichotomous	30	9	(30.0%)	30 5		OR=2.143 (CI: 0.622, 7.387)
	Fatigue – 42d	Dichotomous	30	6	(20.0%)	30 1		OR=7.250 (CI: 0.815, 64.457)
	headache – 42d	Dichotomous	30	6	(20.0%)	30 3		OR=2.250 (CI: 0.507, 9.993)
	mental change – 42d	Dichotomous	30	3	(10.0%)	30 0	` ,	OR=7.764 (CI: 0.384, 157.138)
	mood disturbance – 42d <sup>f</sup>	Dichotomous	30	5	(16.7%)	30 1	(3.3%)	OR=5.800 (CI: 0.635, 53.012)
	Nausea – 42d	Dichotomous	30	4	,		` '	,
	other – 42d				(13.3%)	30 1		OR=4.462 (CI: 0.468, 42.514)
		Dichotomous	30	13	(43.3%)	30 4		OR=4.971 (Cl: 1.387, 17.816)
	parasthesia – 42d	Dichotomous	30	3	(10.0%)	30 2		OR=1.556 (CI: 0.241, 10.049)
	sleep disturbance – 42d	Dichotomous	30	2	(6.7%)	30 0	` '	OR=5.351 (CI: 0.246, 116.310)
	vertigo – 42d <sup>h</sup>	Dichotomous	30	2	(6.7%)	30 1	(3.3%)	OR=2.071 (CI: 0.178, 24.148)
	treatment withdrawal:				<b>.</b>		4	
	due to lack of efficacy – 42d	Dichotomous	30	1,	(3.3%)	30 0	(0.0%)	OR=3.102 (CI: 0.121, 79.228)
	unspecified/other reason – 42d	Dichotomous	30	1′	(3.3%)	30 0	(0.0%)	OR=3.102 (CI: 0.121, 79.228)
	use of rescue medication:						16.8 (SD	
	500 mg paracetamol tablets per week – 0d	Continuous	27		16.8 (SD 16.9)	27	16.9) 18.2 (SD	
	500 mg paracetamol tablets per week – 42d	Continuous	27		17.6 (SD 17.7)	27	17.6)	MD=-0.600 (CI: -10.015, 8.815)
	50 mg tramadol tablets per week – 0d	Continuous	27		1.4 (SD 3)	27	1.4 (SD 3)	WB= 0.000 (Oil 10.010, 0.010)
	50 mg tramadol tablets per week – 42d	Continuous	27		0.9 (SD 2.4)	27	1.3 (SD 2.5)	MD=-0.400 (CI: -1.707, 0.907)
	,	Continuous	21		0.0 (02 2.4)	-1	1.0 (02 2.0)	WB= 0.400 (OI. 1.707, 0.007)
	Per Protocol							
	pain score:							
	NRS/NRS Pain – 0d	Continuous	23		5.8 (SD 1.5)	23	5.8 (SD 1.5)	
	NRS/NRS Pain – 42d	Continuous	23		5.4 (SD 2.1)	23	5.7 (SD 1.9)	MD=-0.300 (CI: -1.457, 0.857)
	<sup>a</sup> based on NRS Sleep							
	<sup>b</sup> 1 fatigue, 2 dizziness, 1 tiredness							
	<sup>c</sup> influenza and tiredness							
	<sup>d</sup> defined in study as 'double vision'							
	e defined in study as 'tiredness'							
	f defined in study as 'mood swings'							
	g no other details provided							
	h defined in study as 'balance problems'							
	because of MS attack							
Comments	Study reports the use of tramadol (one of the of							
	were receiving this at baseline as a rescue med							
	randomised were included in the analysis; 19 p	atients had prior	treatm	nent w	ith drugs specific for	NP (ie. Ant	tidepressants.	etc) and 3 had been treatd with
	more than three different drugs; 27 patients we							
	treatment periods to be included)			y C	(	p.0.00 t	5.00,	
Definitions of althou	interest periods to be included)							

Study	Finnerup et al. (2002)						
Pain category	Mixed (central and peripheral) or unclear if mixe	d					
Study design	Country: Denmark  Design: Crossover  Inclusion criteria: neurpathic pain after traumatic numeric rating scale.  Exclusion criteria: Concomitant cerebral damage allergic reaction or hypersensitivity to lamotriging Study length (days): 147  Intention-to-treat analysis? Unclear	e or dementia, pregr	nant or la	ctating women and fo	ertile wom	en with inap	
Participants	Total number of patients: 30 Number of males: 18 (60.0%) Underlying cause of neuropathic pain: Spinal co Mean duration of NP (in months): 84 Baseline pain severity: 5 (median NRS (and me Mean age: 49		)				
Intervention(s)	(1) lamotrigine 200 mg/d Intervention: lamotrigine Length of treatment (weeks): 9 Fixed/flexible dose regimen: Flexible dose Range: 200–400 Notes: tablets containing 25mg or 100mg were Patients were permitted to reduce the dose if the weeks to complete the trial. (2) Placebo Intervention: placebo Length of treatment (weeks): 9 Fixed/flexible dose regimen: Flexible dose						
Concomitant treatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? Yes (treat in a constant and unchanged dose during the tri		tics, seda	tives for insomnia ar	nd simple	analgesics fo	or other type of pain was allowed
Outcomes			LAMO	TRIGINE 200 MG/D	PLACI	ВО	
measures and effect sizes			N	k mean	N k	mean	_ Δ
	pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 56d <sup>b</sup>	Continuous Continuous Continuous	22 22 22	med: 5 med: 4 med: 3	22 22 22	med: 5 med: 4.5 med: 4	

	NRS/NRS Pain – 63d	Mean change	22		med: 1	22	med: 0	
	NRS/NRS Pain – 63d <sup>b</sup>	Continuous	22		med: 3	22	med: 4	
	McGill Pain Questionnaire – 0d°	Continuous	22		med: 21.5	22	med: 21.5	
	McGill Pain Questionnaire – 63d	Continuous	22		med: 19 <sup>d</sup>	22	med: 18.5 <sup>e</sup>	
	patient-reported improvement in							
	daily physical and emotional							
	functioning, including sleep:	<b>0</b>						
	NRS Sleep – 0d <sup>f</sup>	Continuous	22		med: 1.5	22	med: 1.5	
	NRS Sleep – 63d <sup>g</sup>	Continuous	22		med: 0	22	med: 1	
	major adverse events							
	(defined as leading to withdrawal):	D: 1 .	00		(0.00()		(0.70()	OD 0 400 (OL 0 044 5 000)
	any major adverse event	Dichotomous	30	1	(3.3%)	30 2	(6.7%)	OR=0.483 (CI: 0.041, 5.628)
	adverse events:	D' L ·			(40.00%)		(40.76)	00 0074 (01 0010 0110)
	any adverse event – 63d	Dichotomous	30	13	(43.3%)	30 14		OR=0.874 (CI: 0.316, 2.418)
	moderate to severe – 63d	Dichotomous	30	5	(16.7%)	30 4		OR=1.300 (CI: 0.313, 5.404)
	skin-related side effects – 63d	Dichotomous	30	4	(13.3%)	30 4	(13.3%)	OR=1.000 (CI: 0.226, 4.431)
	overall improvement in quality of life:	O 11			–			
	SF36 Mental – 0d <sup>n</sup>	Continuous	22		med: 60.7	22	med: 60.7	
	SF36 Mental – 63d	Continuous	22		med: 60.7'	22	med: 61.9 <sup>/</sup>	
	SF36 Physical – 0d <sup>k</sup>	Continuous	22		med: 33.5	22	med: 33.5	
	SF36 Physical – 63d	Continuous	22		med: 32.6 <sup>1</sup>	22	med: 33.9 <sup>m</sup>	
	treatment withdrawal:	<b>5</b> 1.1.1		an.	(0 =0()		(0.00()	00 000 (0) 0 (00 0)
	unspecified/other reason	Dichotomous	30	2 <sup>n</sup>	(6.7%)	30 1°		OR=2.071 (CI: 0.178, 24.148)
	withdrawal of consent	Dichotomous	30	0	(0.0%)	30 1	(3.3%)	OR=0.322 (CI: 0.013, 8.235)
	protocol deviation	Dichotomous	30	0	(0.0%)	30 1	(3.3%)	OR=0.322 (CI: 0.013, 8.235)
	use of rescue medication:	O 11						
	number of people using paracetamol weekly – 0d <sup>p</sup>	Continuous	22		med: 0	22	med: 0	
	number of people using paracetamol weekly – 63d	Continuous	22		med: 0 <sup>r</sup>	22	med: 0 <sup>q</sup>	
	<sup>a</sup> IQR: 3-8 (value for all patients in both groups)							
	b estimated from graph							
	° IQR: 11-31							
	<sup>d</sup> IQR: 13-27							
	° IQR: 9-32							
	f IQR: 0-4							
	g IQR: 0-3							
	h IQR: 58-67							
	IQR: 50-67							
	j IQR: 58-68							
	1QR: 58-68   R   1QR: 30-38							
	IQR: 30-36 IQR: 28-42							
	<sup>m</sup> IQR: 28-42							
	one patient left the country and another patient had a n	ow trauma						
	one patient left the country and another patient had a no patient was unable to complete without usual medication	on liduilid						
	P IQR: 0-7	лі						
	<sup>q</sup> IQR: 0-6							
Comments	Analyses were made on patients who achieved at I	least 200mg/d for	at leas	st 2 w	eeks (study pop	ulation). Th	ne last observa	ation carried over method was
	implemented to the diary account for early disconting							
	intention-to-treat here (with patients randomised as							
	text regarding the reasons why 8 patients withdrew							
		monn ine study -	110 100	130113	WITHOUT WEIGHT	ne now ula	grain were ext	IAUGU IIGIG.
Definitions of abb	reviations are given at the end of this document							

Study	Finnerup et al. (2009)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: Denmark Design: Crossover Inclusion criteria: 18 years and older with at and/or below level neuropathic pain for at least 3 months due to trauma or disease of the spinal cord or cauda equina with a median pain intensity of 4 or more on a 0-10 point NRS during a 1 week baseline period.  Exclusion criteria: Concomitant cerebral damage, pregancy or lactation, alcohol or substance abuse, hypersensitivity to levetriacetam or pyrrolidine derivates, epilepsy, psychiatric disease, depression, severe liver disease or impaired renal function.  Study length (days): 84 Intention-to-treat analysis? No
Participants	Total number of patients: 24 Number of males: 21 (87.5%) Underlying cause of neuropathic pain: Spinal cord injury pain Mean duration of NP (in months): not reported Baseline pain severity: 6 (NRS) Mean age: 51 (SD: 11.2)
Intervention(s)	(1) levetiracetam Intervention: levetiracetam Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose Range: 2000–3000 Notes: the dose was gradually increased from 1000mg (wk 1), 2000 mg (wk 2), and 3000mg (wk 3). Patients were permitted to reduce the final dose to 2000 or 2500mg daily if they experienced adverse effects. The final dose had to be at least 2000mg to be included in the trial (21 achieved maximum dosage and 3 had 2000 mg/d) (2) Placebo Intervention: placebo Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? Yes (spasmolytics, gabapentin, pregabalin, opioids and simple analgesics for pain (NSAIDs, paracetamol, acetylsalicylic acid) were allowed in a constant and unchanged dose during the trial (anti-depressants were slowly tapered off at least 1 week before entering the trial))
Outcomes	LEVETIRACETAM PLACEBO
measures and effect sizes	N k mean Δ
	pain score:  NRS/NRS Pain – 0d <sup>a</sup> Continuous 24 med: 6 [rng 4–9] 24 med: 6 [rng 4–9]

	NRS/NRS Pain – 35d at least 30% pain reduction (NRS) <sup>b</sup>	Continuous Dichotomous	24 36 3	med: 6 [rng 3–9.5] (8.3%)	24 36 4	med: 7 [rng 3–9.5] (11.1%)	OR=0.727 (CI: 0.151, 3.510)
	at least 50% pain reduction (NRS)	Dichotomous	36 1	(2.8%)	36 1	(2.8%)	OR=0.727 (Cl. 0.151, 3.510) OR=1.000 (Cl: 0.060, 16.629)
	patient-reported global improvement:	2.00.0000		(=1070)		(=1070)	(C.: 0.000 (C.: 0.000), 10.0 <u>2</u> 0)
	PGIC - worse (all grades) <sup>c</sup>	Dichotomous	36 7	(19.4%)	36 2	(5.6%)	OR=4.103 (CI: 0.790, 21.318)
	PGIC - no change <sup>c</sup>	Dichotomous	36 16	\ /	36 20	` '	OR=0.640 (CI: 0.253, 1.622)
	PGIC - minimally better <sup>d</sup>	Dichotomous	36 2	(5.6%)	36 1	(2.8%)	OR=2.059 (CI: 0.178, 23.773)
	PGIC - moderately better <sup>e</sup> PGIC - at least moderately better <sup>r</sup>	Dichotomous Dichotomous	36 1 36 1	(2.8%) (2.8%)	36 1 36 1	(2.8%) (2.8%)	OR=1.000 (CI: 0.060, 16.629) OR=1.000 (CI: 0.060, 16.629)
	PGIC - much better <sup>g</sup>	Dichotomous	36 0	(0.0%)	36 0	(0.0%)	OR=1.000 (CI: 0.000, 10.023)
	patient-reported improvement in	2.00.0000	00 0	(0.070)	00 0	(0.070)	
	daily physical and emotional						
	functioning, including sleep:						
	NRS Sleep – 0d <sup>a</sup>	Continuous	24	med: 4 [rng 0-8]	24	med: 4 [rng 0-8]	
	NRS Sleep – 35d	Continuous	24	med: 3 [rng 0-9]	24	med: 3.5 [rng 0–9]	
	major adverse events (defined as leading to withdrawal):						
	any major adverse event	Dichotomous	36 7	(19.4%)	36 2	(5.6%)	OR=4.103 (CI: 0.790, 21.318)
	adverse events:	Dichotomous	30 7	(13.470)	30 Z	(3.070)	ON-4.103 (OI. 0.730, 21.310)
	any adverse event – 35d	Dichotomous	36 14	(38.9%)	36 11	(30.6%)	OR=1.446 (CI: 0.545, 3.837)
	balance disorder – 35d	Dichotomous	36 5	(13.9%)	36 1	(2.8%)	OR=5.645 (CI: 0.625, 50.987)
	Dizziness – 35d	Dichotomous	36 6	(16.7%)	36 2	(5.6%)	OR=3.400 (CI: 0.638, 18.132)
	Dry mouth – 35d	Dichotomous	36 1	(2.8%)	36 2	(5.6%)	OR=0.486 (CI: 0.042, 5.608)
	headache – 35d moderate to severe – 35d	Dichotomous Dichotomous	36 0 36 9	(0.0%) (25.0%)	36 1 36 4	(2.8%) (11.1%)	OR=0.324 (CI: 0.013, 8.227)
	Somnolence – 35d	Dichotomous	36 11		36 4	(11.1%)	OR=2.667 (CI: 0.738, 9.633) OR=3.520 (CI: 1.000, 12.388)
	treatment withdrawal:	Bioriotomous	00 11	(00.070)	00 4	(11.170)	ON-0.020 (OI. 1.000, 12.000)
	unspecified/other reason	Dichotomous	36 1 <sup>h</sup>	(2.8%)	36 1 <sup>i</sup>	(2.8%)	OR=1.000 (CI: 0.060, 16.629)
	protocol deviation	Dichotomous	36 1	(2.8%)	36 0	(0.0%)	OR=3.085 (CI: 0.122, 78.271)
	use of rescue medication:						
	proportion taking up to 3 g/d of paracetamol – 0d <sup>a</sup>	Continuous	24	med: 0 [rng 0–56]	24	med: 0 [rng 0–56]	
	proportion taking up to 3 g/d of paracetamol – 35d	Continuous	24	med: 0 [rng 0–56]	24	med: 0 [rng 0–56]	
	a average of patients in both groups at baseline						
	<sup>b</sup> 33% pain reduction						
	c estimated from graph						
	defined in study as 'slight'; estimated from graph						
	<ul> <li>defined in study as 'some'; estimated from graph</li> <li>combined 'some' with 'a lot'; estimated from graph</li> </ul>						
	g defined in study as 'a lot'; estimated from graph						
	<sup>h</sup> patient had an 'accident with fracture'						
	increased pain						
Comments	2 dropped out before randomisation because they	could not be ef	fectively	tapered from amitri	ptyline o	r escitalopram; 12 di	ropped out after randomisation
	- only 24 patients achieved 2000 mg/d for at least						
	outcomes using intention-to-treat analysis with all				- (-	,	
D (: ::: ( ) )	victions are given at the and of this document			,			

Study	Freynhagen et al. (2005)
Pain category	Peripheral pain

Study design	Country: USA, Germany, Poland
	Design: Parallel
	Inclusion criteria: participants with PDN for at least 6 months or PHN for at least 3 months, scoring at least 40mm on VAS
	Exclusion criteria: unstable medical or psychiatric condition, malignancy within the past 2 years (except basal cell carcinoma), abnormal ECG, ellicit drugs or alcohol abuse in last 2 years, hepatitis B or C or HIV, neurologic disorders, severe pain unrelated to primary diagnosis (ie. PDN/PHN), any potentially sensiation-altering skin conditions that could confound assessment of NP, amputations other than toes, untreated hyperthyroidism (if PDN), neurolytic or neurosurgical therapy (PHN), drugs commonly used to treat NP (including non-SSRIs, benzodiazepines, capsaicin, opiods, NSAIDs, etc - see list of permitted drug use under 'notes')  Study length (days): 84  Intention-to-treat analysis? Yes
Participants	Total number of patients: 338
r artioiparito	Number of males: 183 (54.1%)
	Underlying cause of neuropathic pain: Painful diabetic neuropathy or PHN
	Mean duration of NP (in months): 46.8
	Baseline pain severity: 6.85 (NRS (average of means))
	Mean age: 62.2
Intervention(s)	(1) Pregabalin (flexible dose)
	Intervention: pregabalin
	Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose
	Mean dose: 372.2mg/d
	Range: 150–600  Notes: weekly dosage escalation based on patients tolerability and individual response; single downward dosage titration was allowed after week 1 or at
	or after week 2, 3, or 4 (and then the patient remained on that dosage for the remainder of the study)
	(2) Pregabalin (600 mg/d)
	Intervention: pregabalin
	Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose
	Set dose: 600mg/d
	Mean dose: 481.5mg/d
	Notes: 300 mg/d for 1 week and then 600 mg/d for remaining period
	(3) Placebo Intervention: placebo
	Length of treatment (weeks): 12
	Fixed/flexible dose regimen: Fixed dose
	(4) Pregabalin (flexi and fixed dosages)
	Intervention: pregabalin Length of treatment (weeks):
	Fixed/flexible dose regimen: Flexible dose
Concomitant	Drug free baseline period? Yes (duration: 7d)

nents	Concomitant pain treatment allowed? Ye NSAIDs; SSRIs for depression, aspirin for could be considered concomitant medical	or MI and stroke p	rophylax	kis, short-	acting benzodia:					
omes			PREGA	BALIN (FL	EXIBLE DOSE)	PRE	GAB	ALIN	I (600 MG/I	D)
ures and sizes			N	k	mean	N	k		mean	Δ
	pain score:									
	at least 30% pain reduction (NRS) – 84d	Dichotomous	141	83	(58.9%)	132	8	8	(66.7%)	OR=0.716 (CI: 0.437, 1.172)
	at least 50% pain reduction (NRS) – 84d	Dichotomous	141	68	(48.2%)	132		9	(52.3%)	OR=0.851 (CI: 0.529, 1.368)
	patient-reported global improvement:				(101=70)		_	-	(====,=)	
	PGIC - worse (all grades) – 84d	Dichotomous	141	13	(9.2%)	132	1	6	(12.1%)	OR=0.736 (CI: 0.340, 1.596
	PGIC - no change – 84d	Dichotomous	141	24	(17.0%)	132	2	-	(15.9%)	OR=1.084 (CI: 0.571, 2.058
	PGIC - minimally better – 84d	Dichotomous	141	31	(22.0%)	132		4	(18.2%)	OR=1.268 (CI: 0.699, 2.300
	PGIC - at least moderately better – 84d	Dichotomous	141	73	(51.8%)	132	7		(53.8%)	OR=0.922 (CI: 0.573, 1.484
	major adverse events	Dicholomous	141	73	(31.0%)	132	,	1	(33.6%)	OR=0.922 (Cl. 0.373, 1.464
	(defined as leading to withdrawal):									
	any major adverse event – 84d	Dichotomous	141	24	(17.0%)	132	3	3	(25.0%)	OR=0.615 (CI: 0.341, 1.110
	adverse events:	Dionotomous	171	27	(17.070)	102	·	0	(20.070)	ON-0.010 (OI. 0.041, 1.110
	Dizziness – 84d	Dichotomous	141	27	(19.1%)	132	3	8	(28.8%)	OR=0.586 (CI: 0.333, 1.030
	Nausea – 84d	Dichotomous	141	7	(5.0%)	132		4	(10.6%)	OR=0.440 (CI: 0.172, 1.128
	Peripheral oedema – 84d	Dichotomous	141	23	(16.3%)	132		0	(7.6%)	OR=2.378 (CI: 1.085, 5.210
	· ·			-	` '	-		-	` ,	,
	Somnolence – 84d	Dichotomous	141	15	(10.6%)	132		7	(12.9%)	OR=0.805 (CI: 0.385, 1.686
	Weight gain – 84d	Dichotomous	141	17	(12.1%)	132	1	8	(13.6%)	OR=0.868 (CI: 0.427, 1.766
	treatment withdrawal:	D: 1 /		40	(0.50()	400			(0.00()	00 4 000 (0) 0 405 0 406
	due to lack of efficacy – 84d	Dichotomous	141	12	(8.5%)	132	1		(8.3%)	OR=1.023 (CI: 0.435, 2.406
	unspecified/other reason – 84d	Dichotomous	141	10	(7.1%)	132	3		(2.3%)	OR=3.282 (CI: 0.883, 12.20
	poor compliance – 84d	Dichotomous	141	3	(2.1%)	132	3		(2.3%)	OR=0.935 (CI: 0.185, 4.715
			PRE	GABALIN	(FLEXIBLE DOSE	Ξ)	PLACEBO			
			N	k	mean	_	N	k	mean	Δ
	pain score:									
	at least 30% pain reduction (NRS) – 84d	Dichotomous	141	83	(58.9%)		65	24	(36.9%)	OR=2.445 (CI: 1.335, 4.478)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d	Dichotomous Dichotomous	141 141	83 68	(58.9%) (48.2%)			24 16	(36.9%) (24.6%)	OR=2.445 (CI: 1.335, 4.478) OR=2.853 (CI: 1.483, 5.486)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement:				(48.2%)					
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d						65	16		
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement:	Dichotomous	141	68	(48.2%)		65 65	16	(24.6%)	OR=2.853 (CI: 1.483, 5.486)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d	Dichotomous Dichotomous	141 141	68 13	(48.2%) (9.2%)		65 65 65	16 11	(24.6%)	OR=2.853 (CI: 1.483, 5.486) OR=0.499 (CI: 0.210, 1.183)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d	Dichotomous Dichotomous Dichotomous	141 141 141	68 13 24	(48.2%) (9.2%) (17.0%)		65 65 65	16 11 23 11	(24.6%) (16.9%) (35.4%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d	Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141	68 13 24 31	(48.2%) (9.2%) (17.0%) (22.0%)		65 65 65	16 11 23 11	(24.6%) (16.9%) (35.4%) (16.9%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events	Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141	68 13 24 31	(48.2%) (9.2%) (17.0%) (22.0%)		65 65 65	16 11 23 11	(24.6%) (16.9%) (35.4%) (16.9%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal):	Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141 141	68 13 24 31 73	(48.2%) (9.2%) (17.0%) (22.0%) (51.8%)		65 65 65 65	16 11 23 11 20	(24.6%) (16.9%) (35.4%) (16.9%) (30.8%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)  OR=2.415 (CI: 1.297, 4.498)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d	Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141	68 13 24 31	(48.2%) (9.2%) (17.0%) (22.0%)		65 65 65	16 11 23 11 20	(24.6%) (16.9%) (35.4%) (16.9%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events:	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141 141	68 13 24 31 73	(48.2%) (9.2%) (17.0%) (22.0%) (51.8%)		65 65 65 65 65	16 11 23 11 20 5	(24.6%) (16.9%) (35.4%) (16.9%) (30.8%) (7.7%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)  OR=2.415 (CI: 1.297, 4.498)  OR=2.462 (CI: 0.894, 6.775)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events: Dizziness – 84d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141 141 141	68 13 24 31 73 24 27	(48.2%) (9.2%) (17.0%) (22.0%) (51.8%) (17.0%) (19.1%)		65 65 65 65 65 65	16 11 23 11 20 5	(24.6%) (16.9%) (35.4%) (16.9%) (30.8%) (7.7%) (4.6%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)  OR=2.415 (CI: 1.297, 4.498)  OR=2.462 (CI: 0.894, 6.775)  OR=4.895 (CI: 1.427, 16.784)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events: Dizziness – 84d Nausea – 84d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141 141 141 141	68 13 24 31 73 24 27 7	(48.2%) (9.2%) (17.0%) (22.0%) (51.8%) (17.0%) (19.1%) (5.0%)		65 65 65 65 65 65	16 11 23 11 20 5 3 1	(24.6%) (16.9%) (35.4%) (16.9%) (30.8%) (7.7%) (4.6%) (1.5%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)  OR=2.415 (CI: 1.297, 4.498)  OR=2.462 (CI: 0.894, 6.775)  OR=4.895 (CI: 1.427, 16.784)  OR=3.343 (CI: 0.403, 27.752)
	at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events: Dizziness – 84d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	141 141 141 141 141 141	68 13 24 31 73 24 27	(48.2%) (9.2%) (17.0%) (22.0%) (51.8%) (17.0%) (19.1%)		65 65 65 65 65 65	16 11 23 11 20 5 3 1 2	(24.6%) (16.9%) (35.4%) (16.9%) (30.8%) (7.7%) (4.6%)	OR=2.853 (CI: 1.483, 5.486)  OR=0.499 (CI: 0.210, 1.183)  OR=0.375 (CI: 0.191, 0.733)  OR=1.383 (CI: 0.646, 2.961)  OR=2.415 (CI: 1.297, 4.498)  OR=2.462 (CI: 0.894, 6.775)  OR=4.895 (CI: 1.427, 16.784)

treatment withdrawal: due to lack of efficacy – 84d unspecified/other reason – 84d	Dichotomous Dichotomous	141 141	12 10	(8.5%) (7.1%)		65 65	5 1 5 4		OR=0.225 (CI: 0.101, 0.500) OR=1.164 (CI: 0.351, 3.860)
poor compliance – 84d	Dichotomous	141	3	(2.1%)		65	5 2	2 (3.1%)	OR=0.685 (CI: 0.112, 4.200)
		PREG	SABALI	N (600 MG/D)	)	PLA	CEB	BO	
		N	k	mean		N	k	mean	Δ
pain score:									
at least 30% pain reduction (NRS) – 84d	Dichotomous	132	88	(66.7%)				(36.9%)	OR=3.417 (CI: 1.838, 6.353)
at least 50% pain reduction (NRS) – 84d	Dichotomous	132	69	(52.3%)	(	65	16	(24.6%)	OR=3.354 (CI: 1.734, 6.487)
patient-reported global improvement:									
PGIC - worse (all grades) – 84d	Dichotomous	132	16	(12.1%)				(16.9%)	OR=0.677 (CI: 0.294, 1.557)
PGIC - no change – 84d	Dichotomous	132	21	(15.9%)				(35.4%)	OR=0.345 (CI: 0.173, 0.689)
PGIC - minimally better – 84d	Dichotomous	132	24	(18.2%)			11	(16.9%)	OR=1.091 (CI: 0.498, 2.391)
PGIC - at least moderately better – 84d	Dichotomous	132	71	(53.8%)	(	65	20	(30.8%)	OR=2.619 (CI: 1.397, 4.908)
major adverse events									
(defined as leading to withdrawal):									
any major adverse event – 84d	Dichotomous	132	33	(25.0%)	(	65	5	(7.7%)	OR=4.000 (CI: 1.481, 10.805)
adverse events:									
Dizziness – 84d	Dichotomous	132	38	(28.8%)		65		(4.6%)	OR=8.355 (CI: 2.471, 28.252)
Nausea – 84d	Dichotomous	132	14	(10.6%)		65		(1.5%)	OR=7.593 (CI: 0.976, 59.069)
Peripheral oedema – 84d	Dichotomous	132	10	(7.6%)		65		(3.1%)	OR=2.582 (CI: 0.549, 12.145)
Somnolence – 84d	Dichotomous	132	17	(12.9%)	(	65	0	(0.0%)	OR=19.848 (CI: 1.174, 335.47)
Weight gain – 84d	Dichotomous	132	18	(13.6%)	(	65	2	(3.1%)	OR=4.974 (CI: 1.118, 22.133)
treatment withdrawal:									
due to lack of efficacy – 84d	Dichotomous	132	11	(8.3%)		65	19	(29.2%)	OR=0.220 (CI: 0.097, 0.498)
unspecified/other reason – 84d	Dichotomous	132	3	(2.3%)	(	65	4	(6.2%)	OR=0.355 (CI: 0.077, 1.634)
poor compliance – 84d	Dichotomous	132	3	(2.3%)	(	65	2	(3.1%)	OR=0.733 (CI: 0.119, 4.496)
		Р	LACEE	0	PREGA	ABAL	.IN (	(FLEXI AND	FIXED DOSAGES)
		N	k	mean	N			k	mean
patient-reported global improvement:									
PGIC - worse (all grades) – 84d	Dichotomous	s 6	5 11	(16.9%)	273			29	(10.6%)
PGIC - no change – 84d	Dichotomous	s 6	5 23	(35.4%)	273			45	(16.5%)
PGIC - minimally better – 84d	Dichotomous	s 6	5 11	(16.9%)	273			76	(27.8%)
PGIC - at least moderately better – 84d	Dichotomous	s 6	5 20	(30.8%)	273			149	(54.6%)
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Study	Gao et al. (2010)
Pain category	Peripheral pain

Study design	Country: China Design: Parallel										
	Inclusion criteria: Patients 18 years or older with a diagnosos of PDN and an average brief pain inventory (BPI) score of 4 or higher were eligible if they have daily pain for at least 6 months										
	Exclusion criteria: If they had mania, bip 9 of the BDI-II, taking any monoamine of Study length (days): 84 Intention-to-treat analysis? Yes					ged by the	inve	estigator or ha	ad a rating of >2 on question		
Participants	Total number of patients: 215 Number of males: 101 (47.0%) Underlying cause of neuropathic pain: P Mean duration of NP (in months): 3.2 Baseline pain severity: 5.5 (BPI average Mean age: 59.25		opathy								
Intervention(s)	(1) Duloxetine (flexible dose 30-120mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose Range: 60–120 Notes: started at 30 mg/d for 1 week, the to 60mg/d (2) Placebo Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose	se en increased to 60 i	mg/d, th	nen inc	reased to 120 mg once o	daily any t	iime	after 2 week	s if patients did not respond		
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Unwere excluded; unclear if others were per		ear to o	nly sta	te that use of monoamin	ne oxidase	inh	nibitors within	14 days of randomisation		
Outcomes measures and			DULO 120M		E (FLEXIBLE DOSE 30-	PLA	CEE	BO			
effect sizes			N	k	mean	N	k	mean	Δ		
	pain score: at least 30% pain reduction – 84d <sup>a</sup>	Dichotomous	106	74	(69.8%)	109	67	(61.5%)	OR=1.450 (CI: 0.823, 2.554)		
	· ·	Dichotomous Dichotomous	106 106	74 57	(69.8%) (53.8%)			(50.5%)	2.554) OR=1.142 (CI: 0.669, 1.951)		
	at least 30% pain reduction – 84d <sup>a</sup>				,			,	2.554) OR=1.142 (CI: 0.669,		

patient-reported global improvement: PGI-I – 84d <sup>b</sup>	Mean change	106		2.32 (SD 1.13)	109	2.64 (SD 1.04)	MD=-0.320 (CI: -0.611, - 0.029)
patient-reported improvement in daily physical and emotional	· ·			, ,		,	,
functioning, including sleep:							
Normalised (10-pt) sleep interference measure	Mean	400		0.05 (00.00)	100	-2.67 (SD	
– 84d <sup>c</sup>	change Mean	106		-2.85 (SD 2.88)	109	2.82) -1.88 (SD	MD=-0.400 (CI: -0.968,
BPI – 84d	change Mean	106		-2.28 (SD 2.16)	109	2.09)	0.168) MD=-0.470 (CI: -1.122,
BPI Mood – 84d	change Mean	106		-2.32 (SD 2.47)	109	-1.85 (SD 2.4) -2.67 (SD	0.182) MD=-0.180 (CI: -0.942,
BPI Sleep – 84d	change Mean	106		-2.85 (SD 2.88)	109	2.82) -1.96 (SD	0.582) MD=-0.540 (CI: -1.219,
BPI general activity – 84d	change Mean	106		-2.5 (SD 2.57)	109	2.51)	0.139) MD=-0.630 (CI: -1.282,
BPI walking ability – 84d	change Mean	106		-2.45 (SD 2.47)	109	-1.82 (SD 2.4)	0.022) MD=-0.310 (CI: -0.934,
BPI normal work – 84d	change Mean	106		-2.01 (SD 2.37)	109	-1.7 (SD 2.3) -1.13 (SD	0.314) MD=-0.320 (CI: -0.916,
BPI relationship with other people – 84d	change	106		-1.45 (SD 2.27)	109	2.19)	0.276) MD=-0.290 (CI: -0.942,
BPI enjoyment of life – 84d major adverse events	Continuous	106		-1.94 (SD 2.47)	109	-1.65 (SD 2.4)	0.362)
(defined as leading to withdrawal):							OR=4.327 (CI: 1.386,
any major adverse event – 84d	Dichotomous	106	15	(14.2%)	109 4	(3.7%)	13.504)
adverse events:	Disheteman	400	•	(F 70/)	400 4	(0.00()	OR=6.480 (CI: 0.767,
asthenia – 84d	Dichotomous	106	6	(5.7%)	109 1	(0.9%)	54.769) OR=1.287 (CI: 0.510,
Constipation – 84d	Dichotomous	106	11	(10.4%)	109 9	(8.3%)	3.243) OR=1.788 (CI: 0.626,
Diarrhoea – 84d	Dichotomous	106	10	(9.4%)	109 6	(5.5%)	5.108) OR=1.437 (CI: 0.645,
Dizziness – 84d	Dichotomous	106	16	(15.1%)	109 12	(11.0%)	3.203) OR=2.120 (CI: 0.516,
Dry mouth – 84d	Dichotomous	106	6	(5.7%)	109 3	(2.8%)	8.706) OR=1.031 (CI: 0.372,
Fatigue – 84d	Dichotomous	106	8	(7.5%)	109 8	(7.3%)	2.854) OR=1.030 (CI: 0.321,
headache – 84d	Dichotomous	106	6	(5.7%)	109 6	(5.5%)	3.301) OR=3.039 (CI: 0.936,
lethargy – 84d	Dichotomous	106	11	(10.4%)	109 4	(3.7%)	9.867) OR=3.193 (CI: 1.566,
Nausea – 84d	Dichotomous	106	32	(30.2%)	109 13	(11.9%)	6.511) OR=0.368 (CI: 0.095,
Pruritus – 84d	Dichotomous	106	3	(2.8%)	109 8	(7.3%)	1.426) OR=3.279 (CI: 1.239,
Somnolence – 84d	Dichotomous	106	17	(16.0%)	109 6	(5.5%)	8.676)
Vomiting – 84d	Dichotomous	106	6	(5.7%)	109 5	(4.6%)	OR=1.248 (CI: 0.369, 4.219)
overall improvement in quality of life: EQ-5D - health status index – 84d	Mean change	106		0.12 (SD 0.206) <sup>d</sup>	109	0.14 (SD 0.209) <sup>e</sup>	MD=-0.020 (CI: -0.075, 0.035)

		Mean					0.14 (SD	MD=0.030 (CI: -0.025,
	EQ-5D - health status index – 84d	change	106		0.12 (SD 0.206) <sup>d</sup>	109	0.209) <sup>e</sup>	0.085)
		Mean			- (		0.1 (SD	MD=-0.020 (CI: -0.075,
	EQ-5D - health status index – 84d	change	106		0.17 (SD 0.206) <sup>e</sup>	109	$0.209)^d$	0.035)
		Mean					0.1 (SD	MD=0.030 (CI: -0.025,
	EQ-5D - health status index – 84d	change	106		0.17 (SD 0.206) <sup>e</sup>	109	0.209) <sup>a</sup>	0.085)
	_	Mean					0.14 (SD	MD=-0.020 (CI: -0.075,
	EQ-5D - health status index – 84d <sup>e</sup>	change	106		0.17 (SD 0.206)	109	0.209)	0.035)
		Mean			/ <b></b>		0.14 (SD	MD=0.030 (CI: -0.025,
	EQ-5D - health status index – 84d <sup>e</sup>	change	106		0.17 (SD 0.206)	109	0.209)	0.085)
	FO FD the although the days and all the state of the stat	Mean	400		0.40 (00.000)	400	0.4 (0D.0.000)	MD=-0.020 (CI: -0.075,
	EQ-5D - health status index – 84d <sup>d</sup>	change	106		0.12 (SD 0.206)	109	0.1 (SD 0.209)	0.035)
	EQ-5D - health status index – 84d <sup>d</sup>	Mean	106		0.12 (SD 0.206)	109	0.1 (SD 0.209)	MD=0.030 (CI: -0.025, 0.085)
	treatment withdrawal:	change	100		0.12 (3D 0.200)	109	0.1 (3D 0.209)	OR=0.250 (CI: 0.027,
	due to lack of efficacy – 84d	Dichotomous	106	1	(0.9%)	109 4	(3.7%)	2.274)
	add to lack of emodey 644	Bioriotomous	100	•	(0.070)	100 4	(0.770)	OR=0.679 (CI: 0.111,
	withdrawal of consent – 84d	Dichotomous	106	2	(1.9%)	109 3	(2.8%)	4.150)
				_	(110,70)		(===,=)	OR=0.163 (CI: 0.019,
	protocol deviation – 84d	Dichotomous	106	1	(0.9%)	109 6	(5.5%)	1.382)
	·				. ,			,
	this is based on BPI average pain							
	<sup>°</sup> least squares mean change <sup>°</sup> based on BPI Sleep							
	dased on BPI Sleep							
	° EQ-5D UK							
Comments	screening period for 3 to 30 days before	randomisation - un	clear if	any pa	art of this was drug-free	(unclear if ma	iny concomitant	drugs were allowed)

Study	Gilron et al. (2012)
Pain category	Peripheral pain
Study design	Country: Canada  Design: Crossover  Inclusion criteria: PHN or PDN, daily pain score of at least 4 (on NRS 0-10) for at least 6 months prior to trial, aspartate aminotransferase and alanine aminotransferase concentration of 120% of the upper limit of normal or less, serum creatinine concentration of 150% fo the upper limit of normal or less and haemoglobin A1c conctration of less than 13%  Exclusion criteria: patient history or lab results suggestion inherited neuropathy or neuropathy from other causes, major organ system disease, cardiovascular autonomic neuropathy, baseline postrual hypotension of more than 20 mm Hg, sedation or ataxia dur to concomitant drugs or other caseus, urinary symptoms indicative of benign prostatic hyupertrophy, psychiatric or substance abuse disorder, hypersensitivyt toa ny of the study drugs
	or coexisting disorder causing pain as severe as neuropathic pain, no use of contraception in women of child-bearing age Study length (days): 133 Intention-to-treat analysis? Yes
Participants	Total number of patients: 56 Number of males: 35 (62.5%)

	Underlying cause of neuropathic pain	: Painful diabetic neur	opathy	or F	PHN				
	Mean duration of NP (in months): 48								
	Baseline pain severity: 5.4 (NRS)								
	Mean age: 64.5								
	Weari age. 64.5								
Intervention(s)	(1) Gabapentin flexible-dose								
	Intervention: gabapentin								
	Length of treatment (weeks): 5								
	Fixed/flexible dose regimen: Flexible (	dose							
	Mean dose: 2433mg/d (SD: 106) Notes: First 24 days of the 6 week per	riod was titration days	25_31	l wa	the maintenance	nhaca (	at ma	y tolerated dose) day	ve 32-35 were dose taper
	phase and days 36-42 were drug was					priase (	at IIIa	ix tolerated dose), da	ys 32-33 were dose taper
	(2) Nortriptyline flexible-dose								
	Intervention: nortriptyline								
	Length of treatment (weeks): 5								
	Fixed/flexible dose regimen: Flexible of Mean dose: 61.6mg/d (SD: 3.6)	dose							
	Notes: First 24 days of the 6 week per	rind was titration days	25-31	l wa	the maintenance	nhasa (	at ma	v tolerated dose) day	ve 32-35 were dose taner
	phase and days 36-42 were drug was	hout phase; (dispersion	on give	n is	SE, not SD)	priase (	at ma	ix tolerated dose), da	ys 52 55 were dose taper
	(3) Gabapentin and nortriptyline flexib	le-dose							
	Intervention: gabapentin+nortriptyline								
	Length of treatment (weeks): 5								
	Fixed/flexible dose regimen: Flexible of								
	Notes: First 24 days of the 6 week pe	riod was titration, days	s 25-31	was	s the maintenance	phase (	at ma	x tolerated dose), day	ys 32-35 were dose taper
	phase and days 36-42 were drug was	hout phase; mean am	nximum	ı tole	erated dose was 21	80 mg (	(SE 1	08) of gabapentin and	d 50.1 mg (SE 3.5)
Concomitant	Drug free baseline period? Yes (durat	ion: 7d)							
treatments	Concomitant pain treatment allowed?	•	ages o	f oni	oids NSAIDs or pa	araceta	mol (r	not tricyclics, gabaner	ntin or pregabalin or
	procedural pain treatments like nerve		agoo o	· op.	0100, 110, 1120, 01 pt	a. a.o		iot irroyonoo, gabapor	init of progadami of
Outcomes									
measures and effect sizes			DOS		NTIN FLEXIBLE-	DOS		TYLINE FLEXIBLE-	
enect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	NRS/NRS Pain – 0d	Continuous	56		5.4 (SD 1.53)	56		5.4 (SD 1.53)	
	NRS/NRS Pain – 35d	Continuous	46		3.2 (SD 2.42)	50		2.9 (SD 1.8)	MD=0.300 (CI: -0.560, 1.160)
	BPI average pain – 0d	Continuous	56		4.9 (SD 1.5)	56		4.9 (SD 1.5)	
	BPI average pain – 35d McGill VAS – 0d	Continuous Continuous	46 56		3.3 (SD 2.03) 4.3 (SD 2.99)	50 56		3.1 (SD 1.41) 4.3 (SD 2.99)	MD=0.200 (CI: -0.507, 0.907)
	IVICGIII VAS – UU	Continuous	30		7.3 (SD 2.88)	50		4.3 (3D 2.88)	MD=-0.100 (CI: -0.932,
	McGill VAS – 35d	Continuous	46		2.4 (SD 2.03)	50		2.5 (SD 2.12)	0.732)
	PPI (from MPQ) – 0d	Continuous	56		2 (SD 1.5)	56		2 (SD 1.5)	•
	DDI (C. MDO) OF I	0 "	40		4.5.(00.4.00)	=-		4.0 (00.0 707)	MD=-0.100 (CI: -0.538,
	PPI (from MPQ) – 35d	Continuous	46		1.5 (SD 1.36)	50		1.6 (SD 0.707)	0.338)

patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
Normalised (10-pt) sleep interference measure –								
0d <sup>a</sup>	Continuous	56		5.1 (SD 2.99)	56		5.1 (SD 2.99)	
Normalised (10-pt) sleep interference measure -				,			,	MD=-0.100 (CI: -0.930,
35d <sup>a</sup>	Continuous	46		2.2 (SD 2.03)	50		2.3 (SD 2.12)	0.730)
BDI – 0d	Continuous	56		8.3 (SD 5.24)	56		8.3 (SD 5.24)	·
								MD=-1.000 (CI: -2.386,
BDI – 35d	Continuous	46		5.8 (SD 3.39)	50		6.8 (SD 3.54)	0.386)
BPI Sleep – 0d	Continuous	56		5.1 (SD 2.99)	56		5.1 (SD 2.99)	
P.P.I.O				(05 )			0.0 (0.0 0.40)	MD=-0.100 (CI: -0.932,
BPI Sleep – 35d	Continuous	46		2.2 (SD 2.03)	50		2.3 (SD 2.12)	0.732)
overall improvement in quality of life:	0			50.0 (OD 45.7)	50		50.0 (OD 45.7)	
SF36 – 0d	Continuous	56		56.8 (SD 15.7)	56		56.8 (SD 15.7)	MD 0 200 (CL 0 000 7 200)
SF36 – 35d treatment withdrawal:	Continuous	46		65.4 (SD 12.2)	50		63.1 (SD 12.7)	MD=2.300 (CI: -2.689, 7.289)
due to lack of efficacy – 35d	Dichotomous	56	0	(0.0%)	56	1	(1.8%)	OR=0.327 (CI: 0.013, 8.211)
due to lack of efficacy – 550	Dictiolomous	50	U	(0.0%)	36	'	(1.0%)	OR=0.327 (CI: 0.013, 8.211) OR=2.037 (CI: 0.179,
unspecified/other reason – 35d	Dichotomous	56	$2^b$	(3.6%)	56	1 <sup>c</sup>	(1.8%)	23.130)
unspecified/other reason – 350	Dictiotomous	50	_	(3.070)	30	•	(1.070)	OR=3.054 (CI: 0.122,
protocol deviation – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	76.588)
•	Dionotomodo	00	•	(1.070)	00	Ü	(0.070)	70.000)
during dose titration								
adverse events:	5		_	(= 404)		_	(0.004)	OR=7.393 (CI: 0.373,
Blurred vision – 35d	Dichotomous	56	3	(5.4%)	56	0	(0.0%)	146.518)
Constinution OF d	Diahatama	F.C.	4.4	(70.00/)		•	(40.70/)	OR=30.556 (CI: 10.582,
Constipation – 35d Dizziness – 35d	Dichotomous Dichotomous	56 56	44 7	(78.6%) (12.5%)	56 56	6 6	(10.7%) (10.7%)	88.232) OR=1.190 (CI: 0.373, 3.795)
Dry mouth – 35d	Dichotomous	56	, 11	(12.5%)	56	29	(51.8%)	OR=0.228 (CI: 0.098, 0.528)
Fatigue – 35d	Dichotomous	56	7	(12.5%)	56	9	(16.1%)	OR=0.746 (CI: 0.257, 2.166)
r aligue – 35u	Dictiolofficus	50	'	(12.576)	30	9	(10.170)	OR=6.600 (CI: 0.768,
feeling drunk/drugged – 35d	Dichotomous	56	6	(10.7%)	56	1	(1.8%)	56.738)
headache – 35d	Dichotomous	56	7	(12.5%)	56	5	(8.9%)	OR=1.457 (CI: 0.433, 4.900)
	2.00.0000	•		(12.070)		Ū	(0.070)	OR=14.545 (CI: 0.799,
impaired attention – 35d	Dichotomous	56	6	(10.7%)	56	0	(0.0%)	264.698)
mood disturbance – 35d	Dichotomous	56	1	(1.8%)	56	4	(7.1%)	OR=0.236 (CI: 0.026, 2.185)
				,			,	OR=2.647 (CI: 0.491,
oedema – 35d	Dichotomous	56	5	(8.9%)	56	2	(3.6%)	14.258)
Pruritus – 35d	Dichotomous	56	0	(0.0%)	56	3	(5.4%)	OR=0.135 (CI: 0.007, 2.681)
Somnolence – 35d	Dichotomous	56	9	(16.1%)	56	8	(14.3%)	OR=1.149 (CI: 0.409, 3.231)
Urine retention – 35d	Dichotomous	56	2	(3.6%)	56	4	(7.1%)	OR=0.481 (CI: 0.085, 2.742)
								OR=3.113 (CI: 0.314,
Weight gain – 35d	Dichotomous	56	3	(5.4%)	56	1	(1.8%)	30.878)
at maximum tolerated dose								
adverse events:								OR=3.054 (CI: 0.122,
Blurred vision – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	76.588)
				· /		-	· /	OR=1.000 (CI: 0.061,
Constipation – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394)
·								OR=2.077 (CI: 0.365,
Dizziness – 35d	Dichotomous	56	4	(7.1%)	56	2	(3.6%)	11.828)
Dry mouth – 35d	Dichotomous	56	8	(14.3%)	56	29	(51.8%)	OR=0.155 (CI: 0.062, 0.387)
Fatigue – 35d	Dichotomous	56	2	(3.6%)	56	6	(10.7%)	OR=0.309 (CI: 0.060, 1.600)

feeling drunk/drugged – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
headache – 35d	Dichotomous	56	2	(3.6%)	56	2	(3.6%)	OR=1.000 (CI: 0.136, 7.359) OR=5.183 (CI: 0.243,
impaired attention – 35d	Dichotomous	56	2	(3.6%)	56	0	(0.0%)	110.450)
mood disturbance – 35d	Dichotomous	56	1	(1.8%)	56	3	(5.4%)	OR=0.321 (CI: 0.032, 3.186) OR=2.077 (CI: 0.365,
oedema – 35d	Dichotomous	56	4	(7.1%)	56	2	(3.6%)	11.828) OR=1.000 (CI: 0.061,
Pruritus – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394) OR=1.000 (CI: 0.061,
Somnolence – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394)
Urine retention – 35d	Dichotomous	56	1	(1.8%)	56	3	(5.4%)	OR=0.321 (CI: 0.032, 3.186) OR=1.000 (CI: 0.061,
Weight gain – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394)

		GAB/ DOSE	APENTIN FLEXIBLE-		APENTI (IBLE-D	N AND NORTRIPTYLINE OSE	
		N	c mean	N	k	mean	Δ
pain score:							
NRS/NRS Pain – 0d	Continuous	56	5.4 (SD 1.53)	56		5.4 (SD 1.53)	
							MD=0.900 (CI: 0.040,
NRS/NRS Pain – 35d	Continuous	46	3.2 (SD 2.42)	50		2.3 (SD 1.8)	1.760)
BPI average pain – 0d	Continuous	56	4.9 (SD 1.5)	56		4.9 (SD 1.5)	
							MD=0.800 (CI: 0.093,
BPI average pain – 35d	Continuous	46	3.3 (SD 2.03)	50		2.5 (SD 1.41)	1.507)
McGill VAS – 0d	Continuous	56	4.3 (SD 2.99)	56		4.3 (SD 2.99)	
							MD=0.400 (CI: -0.432,
McGill VAS – 35d	Continuous	46	2.4 (SD 2.03)	50		2 (SD 2.12)	1.232)
PPI (from MPQ) – 0d	Continuous	56	2 (SD 1.5)	56		2 (SD 1.5)	
							MD=0.200 (CI: -0.238,
PPI (from MPQ) – 35d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference	Continuous	46	1.5 (SD 1.36)	50		1.3 (SD 0.707)	0.638)
measure – 0d <sup>a</sup>	Continuous	56	5.1 (SD 2.99)	56		5.1 (SD 2.99)	
Normalised (10-pt) sleep interference			*** (** =:**)			511 (GE =100)	MD=1.200 (CI: 0.370,
measure – 35d <sup>a</sup>	Continuous	46	2.2 (SD 2.03)	50		1 (SD 2.12)	2.030)
BDI – 0d	Continuous	56	8.3 (SD 5.24)	56		8.3 (SD 5.24)	,
			(			0.0 (0.2 0.2 1)	MD=0.400 (CI: -0.986,
BDI – 35d	Continuous	46	5.8 (SD 3.39)	50		5.4 (SD 3.54)	1.786)
BPI Sleep – 0d	Continuous	56	5.1 (SD 2.99)	56		5.1 (SD 2.99)	/
r			- ()	, ,		- (- 3-)	MD=1.200 (CI: 0.368,
BPI Sleep – 35d overall improvement in quality of life:	Continuous	46	2.2 (SD 2.03)	50		1 (SD 2.12)	2.032)
SF36 - 0d	Continuous	56	56.8 (SD 15.7)	56		56.8 (SD 15.7)	

 <sup>&</sup>lt;sup>a</sup> based on BPI Sleep
 <sup>b</sup> depression and development of painful arthritic disorder (likely unrelated)
 <sup>c</sup> onset of sciatica (likely unrelated)

SF36 – 35d	Continuous	46		65.4 (SD 12.2)	50		66.3 (SD 12.7)	MD=-0.900 (CI: -5.889, 4.089)
treatment withdrawal: due to lack of efficacy – 35d	Dichotomous	56	0	(0.0%)	56	0	(0.0%)	OR=1.000 (CI: 0.020, 51.277)
unspecified/other reason – 35d	Dichotomous	56	2 <sup>b</sup>	(3.6%)	56	0	(0.0%)	OR=5.183 (CI: 0.243, 110.450)
protocol deviation – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
during dose titration adverse events:								OR=7.393 (CI: 0.373,
Blurred vision – 35d	Dichotomous	56	3	(5.4%)	56	0	(0.0%)	146.518) OR=37.400 (CI: 12.221,
Constipation – 35d	Dichotomous	56	44	(78.6%)	56	5	(8.9%)	114.454) OR=1.190 (CI: 0.373,
Dizziness – 35d	Dichotomous	56	7	(12.5%)	56	6	(10.7%)	3.795) OR=0.263 (CI: 0.113,
Dry mouth – 35d	Dichotomous	56	11	(19.6%)	56	27	(48.2%)	0.610) OR=1.190 (CI: 0.373,
Fatigue – 35d	Dichotomous	56	7	(12.5%)	56	6	(10.7%)	3.795) OR=1.560 (CI: 0.415,
feeling drunk/drugged – 35d	Dichotomous	56	6	(10.7%)	56	4	(7.1%)	5.859) OR=3.857 (CI: 0.765,
headache – 35d	Dichotomous	56	7	(12.5%)	56	2	(3.6%)	19.458) OR=2.120 (CI: 0.503,
impaired attention – 35d	Dichotomous	56	6	(10.7%)	56	3	(5.4%)	8.937) OR=1.000 (CI: 0.061,
mood disturbance – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394) OR=1.732 (CI: 0.393,
oedema – 35d	Dichotomous	56	5	(8.9%)	56	3	(5.4%)	7.625) OR=1.000 (CI: 0.020,
Pruritus – 35d	Dichotomous	56	0	(0.0%)	56	0	(0.0%)	51.277) OR=1.000 (CI: 0.365,
Somnolence – 35d	Dichotomous	56	9	(16.1%)	56	9	(16.1%)	2.742) OR=0.654 (CI: 0.105,
Urine retention – 35d	Dichotomous	56	2	(3.6%)	56	3	(5.4%)	4.074) OR=1.000 (CI: 0.193,
Weight gain – 35d	Dichotomous	56	3	(5.4%)	56	3	(5.4%)	5.181)
at maximum tolerated dose adverse events:								OR=1.000 (CI: 0.061,
Blurred vision – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394) OR=1.000 (CI: 0.061,
Constipation – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394) OR=1.000 (CI: 0.237,
Dizziness – 35d	Dichotomous	56	4	(7.1%)	56	4	(7.1%)	4.213) OR=0.144 (CI: 0.058,
Dry mouth – 35d	Dichotomous	56	8	(14.3%)	56	30	(53.6%)	0.360) OR=0.481 (CI: 0.085,
Fatigue – 35d	Dichotomous	56	2	(3.6%)	56	4	(7.1%)	2.742) OR=0.491 (CI: 0.043,
feeling drunk/drugged – 35d	Dichotomous	56	1	(1.8%)	56	2	(3.6%)	5.574) OR=2.037 (CI: 0.179,
headache – 35d	Dichotomous	56	2	(3.6%)	56	1	(1.8%)	23.130)

							OD 1 000 (Ch 0 126
impaired attention – 35d	Dichotomous	56	2 (3.6%)	56	2	(3.6%)	OR=1.000 (CI: 0.136, 7.359)
mood disturbance – 35d	Dichotomous	56	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
oedema – 35d	Dichotomous	56	1 (7.1%)	56	4	(7.1%)	OR=1.000 (CI: 0.237, 4.213)
Pruritus – 35d	Dichotomous	56	I (1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
Somnolence – 35d	Dichotomous	56	(1.8%)	56	4	(7.1%)	OR=0.236 (CI: 0.026, 2.185)
Urine retention – 35d	Dichotomous	56	I (1.8%)	56	2	(3.6%)	OR=0.491 (CI: 0.043, 5.574)
			,		_	,	OR=3.054 (CI: 0.122,
Weight gain – 35d	Dichotomous	56	I (1.8%)	56	0	(0.0%)	76.588)

<sup>&</sup>lt;sup>a</sup> based on BPI Sleep <sup>b</sup> depression and development of painful arthritic disorder (likely unrelated)

		NOR DOS		PTYLINE FLEXIBLE-		APENTI (IBLE-D	N AND NORTRIPTYLINE OSE	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	56		5.4 (SD 1.53)	56		5.4 (SD 1.53)	
NDOWIDO D. C. O. C.	o .:	50		0.0 (00.4.0)			0.0 (00.4.0)	MD=0.600 (CI: -0.107,
NRS/NRS Pain – 35d	Continuous	50 56		2.9 (SD 1.8)	50 56		2.3 (SD 1.8)	1.307)
BPI average pain – 0d	Continuous	56		4.9 (SD 1.5)	90		4.9 (SD 1.5)	MD=0.600 (CI: 0.046,
BPI average pain – 35d	Continuous	50		3.1 (SD 1.41)	50		2.5 (SD 1.41)	1.154)
McGill VAS – 0d	Continuous	56		4.3 (SD 2.99)	56		4.3 (SD 2.99)	1.104)
	001111111111111111111111111111111111111			(02 2.00)			(02 2.00)	MD=0.500 (CI: -0.332,
McGill VAS - 35d	Continuous	50		2.5 (SD 2.12)	50		2 (SD 2.12)	1.332)
PPI (from MPQ) – 0d	Continuous	56		2 (SD 1.5)	56		2 (SD 1.5)	,
								MD=0.300 (CI: 0.023,
PPI (from MPQ) – 35d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference	Continuous	50		1.6 (SD 0.707)	50		1.3 (SD 0.707)	0.577)
measure – 0d <sup>a</sup>	Continuous	56		5.1 (SD 2.99)	56		5.1 (SD 2.99)	
Normalised (10-pt) sleep interference								MD=1.300 (CI: 0.469,
measure – 35d <sup>a</sup>	Continuous	50		2.3 (SD 2.12)	50		1 (SD 2.12)	2.131)
BDI – 0d	Continuous	56		8.3 (SD 5.24)	56		8.3 (SD 5.24)	MD 4 400 (Cl- 0 044
BDI – 35d	Continuous	50		6.8 (SD 3.54)	50		5.4 (SD 3.54)	MD=1.400 (CI: 0.014, 2.786)
BPI Sleep – 0d	Continuous	56		5.1 (SD 2.99)	56		5.1 (SD 2.99)	2.760)
2 c.cop ou	Johnhadas	00		0.1 (OD 2.00)	00		3.1 ( <b>32</b> 2.33)	MD=1.300 (CI: 0.468,
BPI Sleep – 35d overall improvement in quality of life:	Continuous	50		2.3 (SD 2.12)	50		1 (SD 2.12)	2.132)
SF36 – 0d	Continuous	56		56.8 (SD 15.7)	56		56.8 (SD 15.7)	
				, ,			,	MD=-3.200 (CI: -8.189,
SF36 – 35d	Continuous	50		63.1 (SD 12.7)	50		66.3 (SD 12.7)	1.789)

treatment withdrawal: due to lack of efficacy – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
unspecified/other reason – 35d	Dichotomous	56	1 <sup>b</sup>	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588)
protocol deviation – 35d	Dichotomous	56	0	(0.0%)	56	0	(0.0%)	OR=1.000 (CI: 0.020, 51.277)
during dose titration								·
adverse events: Blurred vision – 35d	Dichotomous	56	0	(0.0%)	56	0	(0.0%)	OR=1.000 (CI: 0.020, 51.277) OR=1.224 (CI: 0.351,
Constipation – 35d	Dichotomous	56	6	(10.7%)	56	5	(8.9%)	4.269)
Dizziness – 35d	Dichotomous	56	6	(10.7%)	56	6	(10.7%)	OR=1.000 (CI: 0.302, 3.312)
Dry mouth – 35d	Dichotomous	56	29	(51.8%)	56	27	(48.2%)	OR=1.154 (CI: 0.550, 2.421) OR=1.596 (CI: 0.527,
Fatigue – 35d	Dichotomous	56	9	(16.1%)	56	6	(10.7%)	4.828) OR=0.236 (CI: 0.026,
feeling drunk/drugged – 35d	Dichotomous	56	1	(1.8%)	56	4	(7.1%)	2.185) OR=2.647 (CI: 0.491,
headache – 35d	Dichotomous	56	5	(8.9%)	56	2	(3.6%)	14.258) OR=0.135 (CI: 0.007,
impaired attention – 35d	Dichotomous	56	0	(0.0%)	56	3	(5.4%)	2.681) OR=4.231 (CI: 0.458,
mood disturbance – 35d	Dichotomous	56	4	(7.1%)	56	1	(1.8%)	39.105) OR=0.654 (CI: 0.105,
oedema – 35d	Dichotomous	56	2	(3.6%)	56	3	(5.4%)	4.074) OR=7.393 (CI: 0.373,
Pruritus – 35d	Dichotomous	56	3	(5.4%)	56	0	(0.0%)	146.518) OR=0.870 (CI: 0.310,
Somnolence – 35d	Dichotomous	56	8	(14.3%)	56	9	(16.1%)	2.447) OR=1.359 (CI: 0.290,
Urine retention – 35d	Dichotomous	56	4	(7.1%)	56	3	(5.4%)	6.371) OR=0.321 (CI: 0.032,
Weight gain – 35d	Dichotomous	56	1	(1.8%)	56	3	(5.4%)	3.186)
at maximum tolerated dose adverse events:								OR=0.327 (CI: 0.013,
Blurred vision – 35d	Dichotomous	56	0	(0.0%)	56	1	(1.8%)	8.211) OR=1.000 (CI: 0.061,
Constipation – 35d	Dichotomous	56	1	(1.8%)	56	1	(1.8%)	16.394) OR=0.481 (CI: 0.085,
Dizziness – 35d	Dichotomous	56	2	(3.6%)	56	4	(7.1%)	2.742) OR=0.931 (CI: 0.443,
Dry mouth – 35d	Dichotomous	56	29	(51.8%)	56	30	(53.6%)	1.955) OR=1.560 (CI: 0.415,
Fatigue – 35d	Dichotomous	56	6	(10.7%)	56	4	(7.1%)	5.859) OR=0.193 (CI: 0.009,
feeling drunk/drugged – 35d	Dichotomous	56	0	(0.0%)	56	2	(3.6%)	4.111) OR=2.037 (CI: 0.179,
headache – 35d	Dichotomous	56	2	(3.6%)	56	1	(1.8%)	23.130) OR=0.193 (CI: 0.009,
impaired attention – 35d	Dichotomous	56	0	(0.0%)	56	2	(3.6%)	4.111)

	mood disturbance – 35d	Dichotomous	56	3	(5.4%)	56	0	(0.0%)	OR=7.393 (CI: 0.373, 146.518)
	oedema – 35d	Dichotomous	56	2	(3.6%)	56	4	(7.1%)	OR=0.481 (CI: 0.085, 2.742)
	Pruritus – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	OR=3.054 (CI: 0.122, 76.588) OR=0.236 (CI: 0.026,
	Somnolence – 35d	Dichotomous	56	1	(1.8%)	56	4	(7.1%)	2.185) OR=1.528 (CI: 0.245,
	Urine retention – 35d	Dichotomous	56	3	(5.4%)	56	2	(3.6%)	9.517) OR=3.054 (CI: 0.122,
	Weight gain – 35d	Dichotomous	56	1	(1.8%)	56	0	(0.0%)	76.588)
	<ul> <li>based on BPI Sleep</li> <li>onset of sciatica (likely unrelated)</li> </ul>								
Comments	only								

Study	Gimbel et al. (2003)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel Inclusion criteria: PDN in both feet, average of at least 5 on an NRS 11 point for more than half a day for at least 3 months  Exclusion criteria: unstable or poorly controlled diabetes, chronic pain unrelated to PDN, history of substance or alcohol abuse in last 10 years, =2.5 mg/dl serum creatinine levels, =3 times the upper limit of normal hepatic dysfunction, hypersensitivity to oxycodone or opioids, rapidly escalating pain or recent neurologic deficit in previous month, total fo more than 3 doses per day or short-acting opioids formulation in preceeding 2 weeks, pregnancy, breastfeeding, autonomic neuropathy or gastrointestinal dysfunction that could compromise drug absorportion or increase risk from therapy Study length (days): 42  Intention-to-treat analysis? Yes
Participants	Total number of patients: 159 Number of males: 83 (52.2%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.9 (NRS) Mean age: 58.9 (SD: 11.3)
Intervention(s)	(1) Oxycodone (oral) (flexible dose 60 to 120 mg/d) Intervention: oxycodone Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Mean dose: 37mg/d (SD: 21) Range: 10–120

	Notes: 10 mg every 12 hours to start to (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible do		tablets (or 6	60 mg) every 12 hours			
Concomitant treatments	Drug free baseline period? Yes (duratio Concomitant pain treatment allowed? U opioid analgesics (ie. NSAIDs or acetan monitored at least study visit; unclear at	nclear (all pre-sti ninophen) could l	oe continue	d if they were at stable dosag			
Outcomes measures and			OXYCOD 120 MG/D	ONE (ORAL) (FLEXIBLE DOSE	60 TO PLAC	ЕВО	
effect sizes			N I	mean	N k	mean	Δ
	pain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous	82	7 (SD 2.35)	77	6.9 (SD 2.28) 4.7 (SD	MD=-0.600 (CI: -1.321,
	NRS/NRS Pain – 28d <sup>a</sup>	Continuous Mean	82	4.1 (SD 2.35)	77	2.28) -1.1 (SD	0.121) MD=-1.000 (CI: -1.710, -
	NRS/NRS Pain – 42d <sup>b</sup>	change	82	-2.1 (SD 2.28)	77	2.28) 5.3 (SD	0.290) MD=-1.200 (CI: -1.921, -
	NRS/NRS Pain – 42d <sup>b</sup> patient-reported improvement in daily physical and emotional functioning, including sleep:	Continuous	82	4.1 (SD 2.35)	77	2.28)	0.479)
	Normalised (10-pt) sleep interference measure – 0d° Normalised (10-pt) sleep interference	Continuous	82	6.1 (SD 2.17)	77	5.4 (SD 2.11) 0.5 (SD	
	measure – 42d°	Continuous	82	1.2 (SD 2.17)	77	2.11) 3.7 (SD	
	BPI Mood – 0d	Continuous Mean	82	3.2 (SD 2.9)	77	2.81) -2.1 (SD	MD=-0.500 (CI: -1.373,
	BPI Mood – 42d	change	82	-2.6 (SD 2.81)	77	2.81) 5.3 (SD	0.373)
	BPI Sleep – 0d	Continuous Mean	82	3.6 (SD 2.9)	77	2.72) -1.5 (SD	MD=-1.800 (CI: -2.687, -
	BPI Sleep – 42d	change Mean	82	-3.3 (SD 2.9)	77	2.81) 0.5 (SD	0.913) MD=0.700 (CI: 0.035,
	NRS Sleep – 42d <sup>b</sup>	change	82	1.2 (SD 2.17)	77	2.11) 5.4 (SD	1.365) MD=0.700 (CI: 0.035,
	NRS Sleep – 42d <sup>b</sup>	Continuous	82	6.1 (SD 2.17)	77	2.11) 4.1 (SD	1.365)
	BPI general activity – 0d  BPI general activity – 42d	Continuous Mean change	82 82	3.5 (SD 2.63) -2.4 (SD 2.63)	77 77	2.54) -1.8 (SD 2.54)	MD=-0.600 (CI: -1.404, 0.204)
	BPI general activity – 420  BPI walking ability – 0d	Continuous	82	-2.4 (SD 2.03) 4.2 (SD 2.9)	77	4.5 (SD 2.81)	U.2U4)
	BPI walking ability – 42d	Mean change	82	-2.4 (SD 2.99)	77	-2 (SD 2.9)	MD=-0.400 (CI: -1.315, 0.515)

BPI normal work – 0d	Continuous	82		3.9 (SD 2.81)	77	4.4 (SD 2.72)	
BPI normal work – 42d	Mean change	82		-2.4 (SD 2.81)	77	-1.9 (SD 2.81)	MD=-0.500 (CI: -1.373, 0.373)
BPI relationship with other people – 0d	Continuous	82		2.4 (SD 2.44)	77	3.2 (SD 2.37)	
BPI relationship with other people – 42d	Mean change	82		-2 (SD 2.44)	77	-1.3 (SD 2.37)	MD=-0.700 (CI: -1.448, 0.048)
BPI enjoyment of life – 0d	Continuous	82		3.6 (SD 2.81)	77	4.6 (SD 2.81)	
BPI enjoyment of life – 42d	Mean change	82		-3.2 (SD 2.81)	77	-2.2 (SD 2.81)	MD=-1.000 (CI: -1.873, 0.127)
BPI interference score – 0d	Continuous	82		3.5 (SD 2.35)	77	4.3 (SD 2.37)	MD 0 000 (OL 4 505
BPI interference score – 42d	Mean change	82		-2.6 (SD 2.35)	77	-1.8 (SD 2.37)	MD=-0.800 (CI: -1.535, 0.065)
BPI average pain intensity – 0d	Continuous	82		4.2 (SD 2.54)	77	5.2 (SD 2.46)	MD 4400/01 4 000
BPI average pain intensity – 42d	Mean change	82		-2.6 (SD 2.54)	77	-1.5 (SD 2.54)	MD=-1.100 (CI: -1.890 0.310)
major adverse events (defined as leading to withdrawal):	D'abatana	00	7	(0.5%)	77. 4	(F.00()	OR=1.703 (CI: 0.478,
any major adverse event – 42d adverse events:	Dichotomous	82	7	(8.5%)	77 4	(5.2%)	6.066) OR=2.469 (CI: 0.827,
asthenia – 42d	Dichotomous	82	12	(14.6%)	77 5	(6.5%)	7.371) OR=4.468 (CI: 2.061,
Constipation – 42d	Dichotomous	82	35	(42.7%)		(14.3%)	9.688) OR=4.004 (CI: 1.682,
Dizziness – 42d	Dichotomous	82	26	(31.7%)	77 8	(10.4%)	9.532) OR=7.065 (CI: 1.539,
Dry mouth – 42d	Dichotomous	82	13	(15.9%)	77 2	(2.6%)	32.439) OR=0.404 (CI: 0.169,
headache – 42d	Dichotomous	82	9	(11.0%)	77 18	(23.4%)	0.965) OR=6.827 (CI: 2.649,
Nausea – 42d	Dichotomous	82	30	(36.6%)	77 6	(7.8%)	17.595) OR=3.817 (CI: 1.441,
Pruritus – 42d	Dichotomous	82	20	(24.4%)	77 6	(7.8%)	10.108) OR=51.184 (CI: 6.779,
Somnolence – 42d	Dichotomous	82	33	(40.2%)	77 1	(1.3%)	386.452) OR=9.808 (CI: 2.183,
Vomiting – 42d treatment withdrawal:	Dichotomous	82	17	(20.7%)	77 2	(2.6%)	44.058) OR=0.074 (CI: 0.009,
due to lack of efficacy – 42d	Dichotomous	82	1	(1.2%)	77 11	(14.3%)	0.589) OR=1.344 (CI: 0.408,
unspecified/other reason – 42d	Dichotomous	82	7	(8.5%)	77 5	(6.5%)	4.428) OR=0.360 (CI: 0.068,
protocol deviation – 42d	Dichotomous	82	2	(2.4%)	77 5	(6.5%)	1.913) OR=4.814 (CI: 0.227,
lost to follow-up - 42d	Dichotomous	82	2	(2.4%)	77 0	(0.0%)	101.880)

b least squares mean c least squares mean; based on NRS Sleep

Comments	initial washout/screening phase was 3-7 days
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Study	Goldstein et al. (2005)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Participants with PDN with at least 4 on the 24h Average Pain Score (NRS 11-point), With a mean duration of PDN for at least 6 months which had to have begun in the feet with symetrical onset Exclusion criteria: Participants who met DSM-IV criteria for axis 1 diagnosis of major depressive disorder, depression-partial remission, dysthymic disorder, Generalised anxiety disorder, alcohol or eating disorders, pain that was not distinguishable from or unrelated to dabetic neuropathy. Patients were also excluded if they has a history of substance abuse, taken excluded medications within 7 days of study, received treatment with MAOI or fluoxetine within 30 days of study, or had opioid use within 3 days of study Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 457 Number of males: 281 (61.5%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 44.4 Baseline pain severity: 5.9 (NRS) Mean age: 60.1 (SD: 10.9)
Intervention(s)	(1) duloxetine 20mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 20mg/d (2) duloxetine 60mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 60mg/d (3) duloxetine 120mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 120mg/d Intervention: placebo

ncomitant	Drug free baseline period? Unclear										
tments	Concomitant pain treatment allowed? Unclear (Paracetamol (max 4g/d) but no other analgesics medications for PDN (unclear about anti-depressants patients considered depressed were excluded))										
comes			DUL	OXE	TINE 20MG/D	PLA	CEB	0			
asures and ct sizes			N	k	mean	N	k	mean	Δ		
	pain score:										
	NRS/NRS Pain – 0d	Continuous	115		5.9 (SD 1.6)	115		5.8 (SD 1.5)			
	NRS/NRS Pain – 84d	Mean change	91		-2.36 (SD 2)	88		-1.91 (SD 2.06)	MD=-0.450 (CI: -1.046, 0.146)		
	at least 50% pain reduction (NRS) – 84d	Dichotomous	115	46	(40.0%)	115	29	(25.2%)	OR=1.977 (CI: 1.127, 3.469)		
	BPI (severity) – 84d	Mean change	110		-2.25 (SD 2.2)	112		-2.04 (SD 2.22)	MD=-0.210 (CI: -0.792, 0.372)		
	SF McGill – 84d	Mean change	88		-7.23 (SD 6.29)	96		-5.39 (SD 6.47)	MD=-1.840 (CI: -3.683, 0.003)		
	patient-reported global improvement:	Would change	00		7.20 (02 0.20)	00		0.00 (02 0.11)	MB= 1.0 10 (OI. 0.000, 0.000)		
	PGI-I – 84d	Continuous	108		2.68 (SD 1.25)	111		2.91 (SD 1.26)	MD=-0.230 (CI: -0.563, 0.103)		
	patient-reported improvement in	Continuous	100		2.00 (OD 1.20)			2.51 (00 1.20)	WD= 0.230 (OI: 0.303, 0.103)		
	daily physical and emotional										
	functioning, including sleep:										
	BDI – 84d	Continuous	82		-2.44 (SD 4.35)	79		-1.74 (SD 4.27)	MD=-0.700 (CI: -2.030, 0.630)		
	major adverse events	Continuous	02		-2.44 (3D 4.33)	19		-1.74 (3D 4.27)	MD=-0.700 (CI2.030, 0.030)		
	(defined as leading to withdrawal):	Dichotomous	115	_	(4.20/)	115	6	(F 20/)	OP-0 926 (CI: 0 245, 2 796)		
	any major adverse event – 84d	Dicholomous	115	Э	(4.3%)	115	О	(5.2%)	OR=0.826 (CI: 0.245, 2.786)		
	adverse events:	Dichotomous	115	c	(F 20/)	115	4	(2.50/)	OD 4 529 (Ch 0 440 5 562)		
	Constipation		115		(5.2%)	115		(3.5%)	OR=1.528 (CI: 0.419, 5.563)		
	Dizziness – 84d	Dichotomous	115		(6.1%)	115	_	(7.0%)	OR=0.867 (CI: 0.304, 2.475)		
	Dry mouth – 84d	Dichotomous	115		(5.2%)	115		(6.1%)	OR=0.849 (CI: 0.276, 2.609)		
	Nausea – 84d	Dichotomous	115		(13.9%)	115		(9.6%)	OR=1.528 (CI: 0.676, 3.454)		
	Somnolence – 84d	Dichotomous	115	9	(7.8%)	115	9	(7.8%)	OR=1.000 (CI: 0.382, 2.618)		
	overall improvement in quality of life:										
	SF36 Mental – 84d	Continuous	102		0.02 (SD 7.68)	102		-1.09 (SD 7.76)	MD=1.110 (CI: -1.008, 3.228)		
	SF36 Physical – 84d	Continuous	98		3.67 (SD 7.72)	102		3.94 (SD 7.78)	MD=-0.270 (CI: -2.418, 1.878)		
	EQ-5D - health status index – 84d	Continuous	101		0.1 (SD 0.201)	107		0.08 (SD 0.207)	MD=0.020 (CI: -0.035, 0.075)		
	SF36 bodily pain – 84d	Continuous	102		13.2 (SD 19.3)	107		10.3 (SD 19.6)	MD=2.900 (CI: -2.367, 8.167)		
	SF36 general health – 84d	Continuous	100		3.94 (SD 16.5)	106		2.03 (SD 16.7)	MD=1.910 (CI: -2.613, 6.433)		
	SF36 mental health – 84d	Continuous	102		0.74 (SD 17)	107		-2.63 (SD 17.5)	MD=3.370 (CI: -1.301, 8.041)		
	treatment withdrawal:										
	due to lack of efficacy – 84d	Dichotomous	115	2	(1.7%)	115	4	(3.5%)	OR=0.491 (CI: 0.088, 2.736)		
	unspecified/other reason – 84d	Dichotomous	115	7	(6.1%)	115	14	(12.2%)	OR=0.468 (CI: 0.181, 1.205)		
	protocol deviation – 84d	Dichotomous	115	6	(5.2%)	115	3	(2.6%)	OR=2.055 (CI: 0.501, 8.424)		
	lost to follow-up – 84d	Dichotomous	115	4	(3.5%)	115	1	(0.9%)	OR=4.108 (CI: 0.452, 37.330)		
					DULOXETINE (	60MG/D		PLACEBO			
					N k mean			N k mean	Δ		

SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in	Mean change Continuous	95 111	-8.25 (SD 6.34) 2.21 (SD 1.26)	96 111	-5.39 (SD 6.47) 2.91 (SD 1.26)	1.044) MD=-0.700 (CI: -1.033, - 0.367)
daily physical and emotional functioning, including sleep: BDI – 84d major adverse events	Continuous	78	-2.71 (SD 4.33)	79	-1.74 (SD 4.27)	MD=-0.970 (CI: -2.314, 0.374)
(defined as leading to withdrawal): any major adverse event – 84d adverse events:	Dichotomous	114 15	(13.2%)	115 6	(5.2%)	OR=2.753 (CI: 1.028, 7.371)
Constipation	Dichotomous	114 17	(14.9%)	115 4	(3.5%)	OR=4.863 (CI: 1.582, 14.947)
Dizziness – 84d	Dichotomous	114 11	(9.6%)	115 8	(7.0%)	OR=1.428 (CI: 0.552, 3.694)
Dry mouth – 84d	Dichotomous	114 8	(7.0%)	115 7	(6.1%)	OR=1.164 (CI: 0.408, 3.325)
Nausea – 84d	Dichotomous	114 19	(16.7%)	115 11	(9.6%)	OR=1.891 (CI: 0.856, 4.179)
Somnolence – 84d	Dichotomous	114 23	(20.2%)	115 9	(7.8%)	OR=2.977 (CI: 1.311, 6.758)
overall improvement in quality of life:			,		, ,	,
SF36 Mental – 84d	Continuous	101	0.63 (SD 7.75)	102	-1.09 (SD 7.76)	MD=1.720 (CI: -0.413, 3.853)
SF36 Physical – 84d	Continuous	101	5.86 (SD 7.74) 0.13 (SD	102	3.94 (SD 7.78) 0.08 (SD	MD=1.920 (CI: -0.214, 4.054)
EQ-5D - health status index – 84d	Continuous	104	0.204)	107	0.207)	MD=0.050 (CI: -0.005, 0.105) MD=7.680 (CI: 2.441,
SF36 bodily pain – 84d	Continuous	104	18 (SD 19.3)	107	10.3 (SD 19.6)	12.919)
SF36 general health – 84d	Continuous	103	5.66 (SD 16.5)	106	2.03 (SD 16.7)	MD=3.630 (CI: -0.868, 8.128) MD=5.620 (CI: 0.991,
SF36 mental health – 84d treatment withdrawal:	Continuous	104	2.99 (SD 16.8)	107	-2.63 (SD 17.5)	10.249)
due to lack of efficacy – 84d	Dichotomous	114 1	(0.9%)	115 4	(3.5%)	OR=0.246 (CI: 0.027, 2.232)
unspecified/other reason – 84d	Dichotomous	114 7	(6.1%)		(12.2%)	OR=0.472 (CI: 0.183, 1.217)
protocol deviation – 84d	Dichotomous	114 2	(1.8%)	115 3	(2.6%)	OR=0.667 (CI: 0.109, 4.067)
lost to follow-up – 84d	Dichotomous	114 3	(2.6%)	115 1	(0.9%)	OR=3.081 (CI: 0.316, 30.069)
		DULOX	ETINE 120MG/D	PLACE	30	
		N k	mean	N k	mean	Δ

	at least 50% pain reduction (NRS) –	Dieksterseus	440 57	(50.40()	445 00	(05.00()	OD 2 040 (Ob 4 705 5 200)
	84d	Dichotomous		(50.4%)		(25.2%)	OR=3.018 (CI: 1.725, 5.282) MD=-1.030 (CI: -1.626, -
	BPI (severity) – 84d	Mean change	109	-3.07 (SD 2.3)	112	-2.04 (SD 2.22)	0.434) MD=-3.790 (CI: -5.592, -
	SF McGill – 84d patient-reported global improvement:	Mean change	99	-9.18 (SD 6.37)	96	-5.39 (SD 6.47)	1.988) MD=-0.670 (CI: -1.003, -
	PGI-I – 84d	Continuous	109	2.24 (SD 1.25)	111	2.91 (SD 1.26)	0.337)
	patient-reported improvement in daily physical and emotional						
	functioning, including sleep: BDI – 84d	Continuous	74	-3.11 (SD 4.3)	79	-1.74 (SD 4.27)	MD=-1.370 (CI: -2.728, - 0.012)
	major adverse events (defined as leading to withdrawal):						
	any major adverse event – 84d adverse events:	Dichotomous	113 22	(19.5%)	115 6	(5.2%)	OR=4.392 (CI: 1.708, 11.295)
	Constipation	Dichotomous	113 12	(10.6%)	115 4	(3.5%)	OR=3.297 (CI: 1.030, 10.551)
	Dizziness – 84d	Dichotomous		(23.0%)	115 8	(7.0%)	OR=3.997 (CI: 1.723, 9.272)
	Dry mouth – 84d	Dichotomous		(15.0%)	115 7	(6.1%)	OR=2.732 (CI: 1.086, 6.870)
	Nausea – 84d	Dichotomous		(27.4%)	115 11		OR=3.574 (CI: 1.695, 7.539)
	Somnolence – 84d	Dichotomous	113 32	(28.3%)	115 9	(7.8%)	OR=4.653 (CI: 2.103, 10.294)
	overall improvement in quality of life:						
	SF36 Mental – 84d	Continuous	101	1.84 (SD 7.69)	102	-1.09 (SD 7.76)	MD=2.930 (CI: 0.806, 5.054)
	SF36 Physical – 84d	Continuous	101	5.58 (SD 7.64) 0.13 (SD	102	3.94 (SD 7.78) 0.08 (SD	MD=1.640 (CI: -0.480, 3.760)
	EQ-5D - health status index – 84d	Continuous	105	0.205)	107	0.207)	MD=0.050 (CI: -0.005, 0.105) MD=8.000 (CI: 2.775,
	SF36 bodily pain – 84d	Continuous	105	18.3 (SD 19.3)	107	10.3 (SD 19.6)	13.225) MD=7.530 (CI: 3.010,
	SF36 general health – 84d	Continuous	102	9.56 (SD 16.6)	106	2.03 (SD 16.7)	12.050) MD=7.770 (CI: 3.182,
	SF36 mental health – 84d treatment withdrawal:	Continuous	105	5.14 (SD 16.6)	107	-2.63 (SD 17.5)	12.358)
	due to lack of efficacy – 84d	Dichotomous	113 2	(1.8%)	115 4	(3.5%)	OR=0.500 (CI: 0.090, 2.786)
	unspecified/other reason – 84d	Dichotomous	113 2	(4.4%)		(12.2%)	OR=0.334 (CI: 0.116, 0.961)
	protocol deviation – 84d	Dichotomous	113 3	(1.8%)	115 3	(2.6%)	OR=0.673 (CI: 0.110, 4.104)
	lost to follow-up – 84d	Dichotomous	113 2	(1.8%)	115 1	(0.9%)	OR=2.054 (CI: 0.184, 22.976)
Comments	there was a 1-2 week screening pha	se (unclear if this included a drug-free	e phase):	unspecified reas	son' for w	ithdrawal include	es 'sponsor's decision',
		'physician's decision'; ITT included a					
	•						

Study	Gordh et al. (2008)
Pain category	Peripheral pain
Study design	Country: Denmark, Sweden, Finland, Norway Design: Crossover Inclusion criteria: neuropathic pain for at least 6 months, with pain intensity at least 30m on VAS-100mm, at least 18 years old, either hyper- or hypo-

	phenomena on sensibility tests  Exclusion criteria: pregnancy, lactating, previdisease, unstable cardiovascular disease, ot previous 3 years  Study length (days): 35  Intention-to-treat analysis? Yes							
Participants	Total number of patients: 120 Number of males: 56 (46.7%) Underlying cause of neuropathic pain: Nerve Mean duration of NP (in months): not reporte Baseline pain severity: 53.15 (VAS (average and between 1 and 5 years for the remaining Mean age: 48.8	ed of arm means) (du		of pair	n was 6-12 months	in 13 patio	ents, more tha	n 5 years in another 13 patients,
Intervention(s)	(1) gabapentin (flexible dose) Intervention: gabapentin Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose Mean dose: 2243mg/d Notes: paper says it is a fixed dose treatmen and gave a maximum daily dose; titration sta (2) placebo Intervention: placebo Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose		ates the	e dos	e was increased ur	ntil maximu	m pain relief a	at a tolerable dose was achieved
Concomitant treatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? No (TE muscle relaxants with centrally acting probat occasional use of NSAIDs for other types of screening; paracetamol with codeine and de	oilities, antiepileptic pain and the use of	drugs, i	mexi diaze	letine, dextrometho pines, zolpidem or	orphan, cap	saicin, anxioly	ytics) were prohibited; however,
Outcomes measures and			GABA DOSE		TIN (FLEXIBLE	PLAC	ЕВО	
effect sizes			N	k	mean	N k	mean	Δ
	//// population pain score:     at least 30% pain reduction (VAS) – 35d     at least 50% pain reduction (VAS) – 35d major adverse events	Dichotomous Dichotomous	120 120	31 22	(25.8%) (18.3%)	120 1 120 8	4 (11.7%) (6.7%)	OR=2.637 (CI: 1.321, 5.264) OR=3.143 (CI: 1.339, 7.378)
	(defined as leading to withdrawal): any major adverse event – 35d	Dichotomous	120	7	(5.8%)	120 4	(3.3%)	OR=1.796 (CI: 0.512, 6.305)

adverse events:							
Confusion – 35d	Dichotomous	120	16	(13.3%)	120 2	(1.7%)	OR=9.077 (CI: 2.039, 40.413)
dizziness or vertigo – 35d	Dichotomous	120	39	(32.5%)	120 9	(7.5%)	OR=5.938 (CI: 2.724, 12.946)
Dry mouth – 35d	Dichotomous	120	9	(7.5%)	120 3	(2.5%)	OR=3.162 (CI: 0.834, 11.983)
headache – 35d <sup>a</sup>	Dichotomous	120	18	(15.0%)	120 20	(16.7%)	OR=0.882 (CI: 0.441, 1.766)
Infection – 35d	Dichotomous	120	10	(8.3%)	120 15	(12.5%)	OR=0.636 (CI: 0.274, 1.479)
nausea/vomiting – 35d	Dichotomous	120	8	(6.7%)	120 10	(8.3%)	OR=0.786 (CI: 0.299, 2.065)
skin-related side effects – 35d <sup>b</sup>	Dichotomous	120	10	(8.3%)	120 5	(4.2%)	OR=2.091 (CI: 0.693, 6.312)
tiredness – 35d <sup>c</sup>	Dichotomous	120	31	(25.8%)	120 17	(14.2%)	OR=2.110 (CI: 1.095, 4.067)
treatment withdrawal:							
due to lack of efficacy – 35d	Dichotomous	120	1	(0.8%)	120 2	(1.7%)	OR=0.496 (CI: 0.044, 5.542)
unspecified/other reason – 35d	Dichotomous	120	1	(0.8%)	120 5	(4.2%)	OR=0.193 (CI: 0.022, 1.680)
withdrawal of consent – 35d	Dichotomous	120	1	(0.8%)	120 1	(0.8%)	OR=1.000 (CI: 0.062, 16.174)
poor compliance – 35d	Dichotomous	120	2	(1.7%)	120 1	(0.8%)	OR=2.017 (CI: 0.180, 22.545)
use of rescue medication:							
proportion taking NSAIDs – 35d	Dichotomous	120	10	(8.3%)	120 7	(5.8%)	OR=1.468 (CI: 0.539, 3.993)
proportion using pain medication – 35d <sup>d</sup>	Dichotomous	120	40	(33.3%)	120 45	(37.5%)	OR=0.833 (CI: 0.491, 1.415)
treatment phase 1							
pain score:							
VAS – 0d	Continuous	48		52.2 (SD 16.4)	50	54.1 (SD 15.4)	
VAO – Od	Mean	40		32.2 (OD 10.4)	30	34.1 (OD 13.4)	
VAS – 35d	change	48		7.2 (SD 17.8)	50	6.9 (SD 15.5)	MD=0.300 (CI: -6.319, 6.919)
VAS – 35d	Continuous	48		45.2 (SD 23.6)	50	47.1 (SD 22.2)	MD=-1.900 (CI: -10.980, 7.180)
patient-reported improvement in	Continuous	40		40.2 (OD 20.0)	00	47.1 (OD 22.2)	WD= 1.000 (OI: 10.000, 7.100)
daily physical and emotional							
functioning, including sleep:							
Normalised (10-pt) sleep interference measure – 0d	Continuous	48		3.79 (SD 2.6)	50	3.74 (SD 2.18)	
Normalised (10-pt) sleep interference measure –				(02 =.0)		(02 2)	
35d	Continuous	48		2.8 (SD 2.61)	50	3.14 (SD 2.09)	MD=-0.340 (CI: -1.278, 0.598)
Normalised (10-pt) sleep interference measure –	Mean			- ( /		-0.63 (SD	(
35d	change	48		-1.02 (SD 1.56)	50	1.25)	MD=-0.390 (CI: -0.951, 0.171)
VAS Sleep – 0d	Continuous	48		37.9 (SD 26)	50	37.4 (SD 21.8)	, , ,
	Mean			- (/		- ( /	
VAS Sleep – 35d	change	48		-10.2 (SD 15.6)	50	-6.3 (SD 12.5)	MD=3.900 (CI: -1.711, 9.511)
VAS Sleep – 35d	Continuous	48		28 (SD 26.1)	50	31.4 (SD 20.9)	MD=-3.400 (CI: -12.785, 5.985)
'				` '		` '	, , , , , , , , , , , , , , , , , , , ,
treatment phase 2							
pain score: VAS – 0d	Continuous	EC		E2 6 (CD 24 4)	10	EO O (SD 04 6)	
VAS - 00	Continuous	50		52.6 (SD 21.1)	48	50.9 (SD 21.6)	MD 46 700 (CL 20 224
VAS – 35d	Continuous	50		47.2 (SD 25.4)	10	40.0 (SD 24.2)	MD=46.700 (CI: 39.221,
v MO - 30U	Continuous	50		47.2 (SD 25.1)	48	49.9 (SD 24.3)	54.179) MD=46.700 (CI: 39.221,
VAS – 35d	Continuous	<b>5</b> 0		47.2 (SD 25.4)	10	0 F (SD 0 7)	
	Continuous	50		47.2 (SD 25.1)	48	0.5 (SD 9.7)	54.179)
patient-reported improvement in daily physical and emotional							
functioning, including sleep:							
Normalised (10-pt) sleep interference measure – 0d	Continuous	50		3.29 (SD 2.11)	48	3.23 (SD 2.55)	
Normalised (10-pt) sleep interference measure – 0d Normalised (10-pt) sleep interference measure –	Continuous	30		3.23 (30 2.11)	40	3.23 (SD 2.33)	
35d	Continuous	50		2.86 (SD 2.26)	48	3.1 (SD 2.65)	MD=-0.240 (CI: -1.217, 0.737)
Normalised (10-pt) sleep interference measure –	Mean	30		2.00 (3D 2.20)	40	-0.05 (SD	WD=-0.240 (CI1.217, 0.737)
35d	change	50		-0.38 (SD 0.93)	48	1.05)	MD=-0.330 (CI: -0.723, 0.063)
VAS Sleep – 0d	Continuous	50		32.9 (SD 21.1)	48 48	32.3 (SD 25.5)	WID=-0.000 (CI0.720, 0.000)
v no oleeh – oa	Continuous	50		JZ.8 (JD Z1.1)	40	JZ.J (JD ZJ.J)	

	VAS Sleep – 35d VAS Sleep – 35d	Mean change Continuous	50 50	-3.8 (SD 9.3) 28.6 (SD 22.6)	48 48	-0.5 (SD 10.5) 31 (SD 26.5)	MD=3.300 (CI: -0.633, 7.233) MD=-2.400 (CI: -12.169, 7.369)
	a including migraine b 'skin disorders' c malaise and tiredness						
Comments	it was unclear if the run-in period of 2 analgesics, 11% NSAIDs, 10% sedat during treatment periods and also too improved during gabapentin than place both treatment periods (per protocol vandomised as the denominator; the preduction in pain intensity but there we	ives and 9% anti-depress of more NSAIDs during tree cebo but actual data not sewas all those in the ITT postudy reported that statisti	ants (those atment phown; IT pulation cally mor	se in the placebo-gaba periods); PGIC data col T population used for c with no major protocol re patients responded t	pentin arn lected and ontinuous deviations o gabaper	n were the majorit d authors state that outcomes is all the s); all dichotomous ntin if response wa	y of those taking analgesics at more patients state that they he patients who had completed soutcomes use all patients as defined as 30% or more

Study	Graff-Radford et al. (2000)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Duration of pain for at least 6 months Exclusion criteria: Not described Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 50 Number of males: 27 (54.0%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 24.25 Baseline pain severity: 54.91 (VAS (average of arm means) (duration of NP is also average of arm means)) Mean age: 72.9 (SD: 10.1)
Intervention(s)	(1) Amitriptyline up to 200mg/d Intervention: amitriptyline Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose Notes: maximum of 200 mg or maximum tolerated dosage (2) active placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose

comitant tments	Drug free baseline period? No Concomitant pain treatment allowed? Unclear										
comes			AMIT	RIPTY	/LINE UP TO 200MG/D	AC	TIVE PLACEBO				
sures and ct sizes			N	k	mean	N	k mean	Δ			
	pain score:										
	VAS – 0d	Continuous	11		55.9 (SD 19.6)	13	53.9 (SD 17)				
	VAS – 56d	Continuous	11		26.6 (SD 16.8)	13	48.5 (SD 25)	MD=-21.930 (CI: -38.745, -5.115)			
	McGill Pain Questionnaire – 0d	Continuous	11		22.5 (SD 14)	13	21.5 (SD 10.9)				
	McGill Pain Questionnaire – 56d patient-reported improvement in daily physical and emotional functioning, including sleep:	Continuous	11		17.4 (SD 10.9)	13	17.8 (SD 13.9)	MD=-0.470 (CI: -10.423, 9.483)			
	BDI – Od <sup>a</sup>	Continuous	11		12.1 (SD 7.3)	13	13.2 (SD 6.7)				
	BDI – 56d <sup>a</sup> adverse events:	Continuous	11		11.1 (SD 7.5)	13	14 (SD 14.3)	MD=-2.900 (CI: -11.848, 6.048)			
	Sedation – 56d treatment withdrawal:	Dichotomous	12	1	(8.3%)	13	0 (0.0%)	OR=3.522 (CI: 0.130, 95.086)			
	unspecified/other reason – 56d	Dichotomous	12	1	(8.3%)	13	0 (0.0%)	OR=3.522 (CI: 0.130, 95.086)			
	<sup>a</sup> Ns inferred										

Study	Grosskopf et al. (2006)
Pain category	Peripheral pain
Study design	Country: USA, Germany, UK  Design: Parallel Inclusion criteria: PDN for at least 6 months to 5 years, with at least pain rating of 50mm on the VAS-100mm, and stable glycaemic control Exclusion criteria: Other pain that could confound assessment, previous or current oxcarbazepine treatment, skin conditions that could affect assessment of pain, amputations (except toes), renal insufficiency, serum sodium levels <135mmol/l, chronic infectiois disease, hypersensitivity to oxcarbazepine or carbamazepine.  Study length (days): 112 Intention-to-treat analysis? Yes
Participants	Total number of patients: 141 Number of males: 78 (55.3%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 34.8

	Baseline pain severity: 71.4 (V	AS)						
	Mean age: 61.1 (SD: 10.5)	·						
Intervention(s)	(1) oxcarbazepine (flexible dos Intervention: oxcarbazepine Length of treatment (weeks): 1 Fixed/flexible dose regimen: Fl Mean dose: 1091mg/d (SD: 22 Range: 300–1200 Notes: 4 week titration, 12 wee mg twice per day (1200 mg) (2) Placebo Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fl	6 lexible dose 22) ek maintenance; started at 30	0 mg/d an	d then i	increased over 4 we	eks to a m	aximum tolera	ated dose or a mximum of 600
Concomitant treatments	Drug free baseline period? Yes Concomitant pain treatment all allowed)	,	(up to 4g	/d). No	other analgesics (or	drugs with	n analgesics o	r anti-hyperalgesic properties)
			OXCARBAZEPINE (FLEXIBLE DOSE)					
Outcomes measures and					EPINE (FLEXIBLE	PLA	CEBO	
					EPINE (FLEXIBLE		CEBO k mean	Δ
measures and	pain score: VAS – 0d	Continuous Percentage change from	DOS	E)				Δ
measures and	l '		DOS N	E)	mean	N	<b>k mean</b> 70.7 (SD	Δ MD=-3.200
measures and	VAS – 0d VAS – 112d <sup>a</sup>	Percentage change from	DOS N 71	E)	mean 72 (SD 14.2)	70 53	70.7 (SD 13.6)	MD=-3.200
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup>	Percentage change from baseline  Dichotomous  Dichotomous	71 42 71 71	<b>k</b> 4 3	mean 72 (SD 14.2) 27.9 (5.6%) (4.2%)	70 53 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%)	MD=-3.200 OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup>	Percentage change from baseline Dichotomous	71 42 71	<b>k</b> 4	mean 72 (SD 14.2) 27.9 (5.6%)	70 53 70 70	70.7 (SD 13.6) 31.1 1 (1.4%)	MD=-3.200 OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup> treatment withdrawal: due to lack of efficacy – 112d	Percentage change from baseline  Dichotomous  Dichotomous	71 42 71 71	<b>k</b> 4 3	mean 72 (SD 14.2) 27.9 (5.6%) (4.2%)	70 53 70 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%)	MD=-3.200 OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup> treatment withdrawal: due to lack of efficacy – 112d unspecified/other reason – 112d	Percentage change from baseline  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	71 42 71 71 71 71 71	<b>k</b> 4 3 2 3 4	mean  72 (SD 14.2)  27.9  (5.6%)  (4.2%) (2.8%)  (4.2%) (5.6%)	70 53 70 70 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%) 1 (1.4%) 3 (4.3%) 5 (7.1%)	MD=-3.200  OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092) OR=2.000 (CI: 0.177, 22.571)  OR=0.985 (CI: 0.192, 5.056)  OR=0.776 (CI: 0.200, 3.019)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup> treatment withdrawal: due to lack of efficacy – 112d unspecified/other reason – 112d protocol deviation – 112d	Percentage change from baseline  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	71 42 71 71 71 71 71 71 71	<b>k</b> 4 3 2 3 4 4	mean  72 (SD 14.2)  27.9  (5.6%)  (4.2%) (2.8%)  (4.2%) (5.6%) (5.6%)	70 53 70 70 70 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%) 1 (1.4%) 3 (4.3%) 5 (7.1%)	MD=-3.200  OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092) OR=2.000 (CI: 0.177, 22.571)  OR=0.985 (CI: 0.192, 5.056)  OR=0.776 (CI: 0.200, 3.019) OR=0.776 (CI: 0.200, 3.019)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup> treatment withdrawal: due to lack of efficacy – 112d unspecified/other reason – 112d protocol deviation – 112d Adverse events – 112d  anumerators not reported for this	Percentage change from baseline  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Outcome so they are estimates (a	71 42 71 71 71 71 71 71 71	<b>k</b> 4  3 2  3 4 4 18	mean  72 (SD 14.2)  27.9  (5.6%)  (4.2%) (2.8%)  (4.2%)  (5.6%) (5.6%) (25.4%)	70 53 70 70 70 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%) 1 (1.4%) 3 (4.3%) 5 (7.1%)	MD=-3.200  OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092) OR=2.000 (CI: 0.177, 22.571)  OR=0.985 (CI: 0.192, 5.056)  OR=0.776 (CI: 0.200, 3.019) OR=0.776 (CI: 0.200, 3.019)
measures and	VAS – 0d  VAS – 112d <sup>a</sup> adverse events: Dizziness <sup>b</sup> headache <sup>b</sup> Nausea <sup>b</sup> treatment withdrawal: due to lack of efficacy – 112d unspecified/other reason – 112d protocol deviation – 112d Adverse events – 112d	Percentage change from baseline  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Outcome so they are estimates (a	71 42 71 71 71 71 71 71 71	<b>k</b> 4  3 2  3 4 4 18	mean  72 (SD 14.2)  27.9  (5.6%)  (4.2%) (2.8%)  (4.2%)  (5.6%) (5.6%) (25.4%)	70 53 70 70 70 70 70	70.7 (SD 13.6) 31.1 1 (1.4%) 0 (0.0%) 1 (1.4%) 3 (4.3%) 5 (7.1%)	MD=-3.200  OR=4.119 (CI: 0.449, 37.813) OR=7.204 (CI: 0.365, 142.092) OR=2.000 (CI: 0.177, 22.571)  OR=0.985 (CI: 0.192, 5.056)  OR=0.776 (CI: 0.200, 3.019)

Otro-do-	0
Study	Guan et al. (2011)

Pain category	Peripheral pain
Study design	Country: China Design: Parallel Inclusion criteria: 18-75 years with moderate to severe neuropathic pain caused by PHN or PDN (PDN: HBA1c =11% and between 1 and 5 years of distal, symmetrical sensorimotor polyneuropathy; PHN: pain for at least 3 months after herpes virus), mean score over 4 days =40 cm on MPQ VAS Exclusion criteria: other unrelated neurological disorders, clinically significant or unstable medical or psychiatric conditions, abnormal ECG or hematology findings, creatinin clearance <60ml/min,taking other drugs for neuropathic pain (apart from SSRIs being used for depression lasting 30 days or NSAIDs for 7 days if on stable dose) or therapies (massage, mind care, bodybuilding, yoga, Chinese traditional medicine) for 30 days before treatment Study length (days): 63 Intention-to-treat analysis? Yes
Participants	Total number of patients: 309 Number of males: 99 (32.0%) Underlying cause of neuropathic pain: Painful diabetic neuropathy or PHN Mean duration of NP (in months): 25.2 Baseline pain severity: 6.35 (NRS (average of arm means)) Mean age: 60.05
Intervention(s)	(1) pregabalin (flexible dose) Intervention: pregabalin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose Range: 150–600 Notes: dosages only flexible for first 4 weeks, after which they were maintained on the same dosage (2) placebo Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Yes (most drugs used to treat NP excluded, however, those already on stable doses of SSRI for depression lasting 30 days (SSRIs could be considered concomitant medications) or NSAIDs for 7 days were allowed to continue with this stable dose (other treatments, like traditional Chinese medicines, physical therapies, massage, yoga, etc were not allowed))
Outcomes measures and	PREGABALIN (FLEXIBLE DOSE) PLACEBO
effect sizes	N         k         mean         N         k         mean         Δ           pain score:         NRS/NRS Pain – 0d <sup>a</sup> Continuous         206         6.3 (SD 1.58)         102         6.4 (SD 1.53)           NRS/NRS Pain – 28d <sup>b</sup> Continuous         196         4.2 (SD 1.96)         93         4.6 (SD 1.83)         MD=-0.400 (CI: -0.863, 0.063)           NRS/NRS Pain – 56d <sup>a</sup> Continuous         186         3.7 (SD 1.91)         85         4.3 (SD 1.75)         MD=-0.600 (CI: -1.063, -0.137)           at least 30% pain reduction (NRS) – 56d         Dichotomous         203         130         (64.0%)         102         53         (52.0%)         OR=1.646 (CI: 1.016, 2.668)

	major adverse events							
	(defined as leading to withdrawal):							
	any major adverse event – 56d	Dichotomous	206	11	(5.3%)	102 4	(3.9%)	OR=1.382 (CI: 0.429, 4.452)
	adverse events:							
	Dizziness – 56d	Dichotomous	206	23	(11.2%)	102 7	(6.9%)	OR=1.706 (CI: 0.706, 4.119)
	lethargy – 56d	Dichotomous	206	16	(7.8%)	102 3	(2.9%)	OR=2.779 (CI: 0.791, 9.766)
	oedema	Dichotomous	206	15	(7.3%)	102 2	(2.0%)	OR=3.927 (CI: 0.880, 17.512)
	Somnolence – 56d	Dichotomous	206	10	(4.9%)	102 1	(1.0%)	OR=5.153 (CI: 0.651, 40.821)
	Weight gain – 56d	Dichotomous	206	5	(2.4%)	102 1	(1.0%)	OR=2.512 (CI: 0.290, 21.792)
	treatment withdrawal:							
	unspecified/other reason – 56d	Dichotomous	206	2	(1.0%)	102 0	(0.0%)	OR=2.506 (CI: 0.119, 52.686)
	withdrawal of consent – 56d	Dichotomous	206	5	(2.4%)	102 3	(2.9%)	OR=0.821 (CI: 0.192, 3.505)
	protocol deviation – 56d	Dichotomous	206	2	(1.0%)		(2.9%)	OR=0.324 (CI: 0.053, 1.967)
	lost to follow-up – 56d	Dichotomous	206	5	(2.4%)	102 7	(6.9%)	OR=0.338 (CI: 0.104, 1.091)
	ITT/LOCF (last-observation carried forward)							
	pain score:							
	NRS/NRS Pain – 56d	Continuous	206			102		MD=-0.600 (CI: -1.050, -0.150)
	McGill VAS – 56d	Continuous	206			102		MD=-6.560 (CI: -11.650, -1.470)
	PPI (from MPQ) – 56d	Continuous	206			102		MD=-0.350 (CI: -0.580, -0.120)
	patient-reported improvement in	001111111111111111111111111111111111111	_00			.02		2 0.000 (0 0.000, 020)
	daily physical and emotional							
	functioning, including sleep:							
	NRS Sleep – 56d	Continuous	206			102		MD=-0.500 (CI: -0.930, -0.070)
	<u> </u>							
	a least squares mean							
	<sup>b</sup> least squares mean; estimated from graph							
Comments	duration of PDN (2.9 years) was longer tha	n PHN (1.3 vear	s)· 1 na	tiont in	the pregabalin a	rm dropped out	after rando	misation but before receiving study
Comments	medication	iii iii (i.o yeai	3), i pa	uent III	ine pregaballi a	iiii aioppea oai	aner rando	inisation but before receiving study
	medication							

Study	Hahn et al. (2004)
Pain category	Peripheral pain
Study design	Country: Germany Design: Parallel Inclusion criteria: HIV related sensory neuropathies, =18 years old, completed baseline pain diary Exclusion criteria: pregnancy, alternative causes for neuropathy, acute or chronic pancreatitis or chronic renal insufficiency, elevated parameters of lipase and/or amylase, use of tricyclic or tetracyclic antidepressants, other anticonvulsants, topical capsaicin, mexiletine, alpha-liponic acid, systemtic corticosteroids or immunie modulators, central analgesics, had previously had nerve blocks or acupuncture (NSAIDs were discontinued or reduced to a minimum) Study length (days): 42 Intention-to-treat analysis? No
Participants	Total number of patients: 26 Number of males: 20 (76.9%)

	1								
	Underlying cause of neuropathic	pain: HIV-rela	ated ne	europ	athy				
	Mean duration of NP (in months	Mean duration of NP (in months): 152							
	Baseline pain severity: 4.9 (10-cm VAS (mean of medians for each arm))								
	' ' '	m vas (mean	or me	dians	s for each arm))				
	Mean age: 45								
Intervention(s)	(1) Gabapentin flexible (up to 24	100 mg/d)							
	Intervention: gabapentin								
	Length of treatment (weeks): 6								
	Fixed/flexible dose regimen: Fle	xible dose							
	Range: 1200–2400								
	Notes: dose escalated from 400	mg to 1200mg	over 2	2 wee	eks then maintained this if beneficia	ıl. If no	t dose increased to 240	00mg.	
	(2) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): 6								
	Fixed/flexible dose regimen: Fle	xible dose							
Concomitant	Drug free baseline period? No								
treatments		wodo No (NCA	IDo w		ither disceptioned or reduced to a	minim	um (aa aama may atill b	o on NCAIDo), triovalia or	
ti odtinonto					ither discontinued or reduced to a reapsaicin, mexiletine, alpha-liponic				
	central analgesics were all exclu		nis, io	picai	capsaicin, mexiletine, alpha-liponic	aciu,	systemuc contcosteroic	as of immunie modulators,	
	certifal allaigesics were all excit	ided)							
Outcomes measures and			GAE	BAPEN	NTIN FLEXIBLE (UP TO 2400 MG/D)	PLA	CEBO		
effect sizes									
enect sizes			N	k	mean	N I	c mean	Δ	
enect sizes	pain score:		N	k	mean	N I	c mean	Δ	
GHECT SIZES	VAS – 0d	Continuous	15	k	med: 5.1 [rng 1.7–8.7]	11	med: 4.7 [rng 1.5–9.3]	Δ	
GHECT SIZES	VAS – 0d VAS – 28d	Continuous	15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85	11 11	med: 4.7 [rng 1.5–9.3] med: 3.3	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d		15	k	med: 5.1 [rng 1.7–8.7]	11	med: 4.7 [rng 1.5–9.3]	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d patient-reported improvement in	Continuous	15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85	11 11	med: 4.7 [rng 1.5–9.3] med: 3.3	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d	Continuous	15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85	11 11	med: 4.7 [rng 1.5–9.3] med: 3.3	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d	Continuous	15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85	11 11	med: 4.7 [rng 1.5–9.3] med: 3.3	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d	Continuous Mean change	15 15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25	11 11 11	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events	Continuous Mean change Continuous	15 15 15	k	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7]	11 11 11	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8]	Δ	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d vAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal):	Continuous Mean change Continuous Continuous	15 15 15 15		med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7] med: 2.3	11 11 11 11	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95		
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d vAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d	Continuous Mean change Continuous	15 15 15	<b>k</b>	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7]	11 11 11 11	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8]	Δ OR=2.379 (CI: 0.088, 64.050)	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d vAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal):	Continuous Mean change Continuous Continuous	15 15 15 15		med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7] med: 2.3	11 11 11 11	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95		
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d	Continuous Mean change  Continuous Continuous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15	1 9 7	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7] med: 2.3 (6.7%) (60.0%) (46.7%)	11 11 11 11 11 11 (	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 8 (27.3%)	OR=2.379 (CI: 0.088, 64.050) OR=1.800 (CI: 0.373, 8.681) OR=2.333 (CI: 0.439, 12.398)	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d Nausea – 28d	Continuous Mean change  Continuous Continuous  Dichotomous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15 15	1 9 7 5	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7] med: 2.3 (6.7%) (60.0%) (46.7%) (33.3%)	11 11 11 11 11 11 (	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 3 (27.3%) 2 (18.2%)	OR=2.379 (CI: 0.088, 64.050)  OR=1.800 (CI: 0.373, 8.681)  OR=2.333 (CI: 0.439, 12.398)  OR=2.250 (CI: 0.346, 14.611)	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d Nausea – 28d Somnolence – 28d	Continuous Mean change  Continuous Continuous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15	1 9 7	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25 med: 4.5 [rng 1.6–7] med: 2.3 (6.7%) (60.0%) (46.7%)	11 11 11 11 11 11 (	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 8 (27.3%)	OR=2.379 (CI: 0.088, 64.050) OR=1.800 (CI: 0.373, 8.681) OR=2.333 (CI: 0.439, 12.398)	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d Nausea – 28d Somnolence – 28d treatment withdrawal:	Continuous Mean change  Continuous Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15 15 15 15	1 9 7 5 12	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25  med: 4.5 [rng 1.6–7] med: 2.3  (6.7%) (60.0%) (46.7%) (33.3%) (80.0%)	11 11 11 11 11 11 (1)	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 3 (27.3%) 2 (18.2%) 2 (18.2%)	OR=2.379 (CI: 0.088, 64.050)  OR=1.800 (CI: 0.373, 8.681)  OR=2.333 (CI: 0.439, 12.398)  OR=2.250 (CI: 0.346, 14.611)  OR=18.000 (CI: 2.468, 131.285)	
GHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d Nausea – 28d Somnolence – 28d treatment withdrawal: due to lack of efficacy – 42d	Continuous Mean change  Continuous Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15 15	1 9 7 5	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25  med: 4.5 [rng 1.6–7] med: 2.3  (6.7%)  (60.0%) (46.7%) (33.3%) (80.0%)	11 11 11 11 11 11 ( 11 5 11 2 11 2	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 3 (27.3%) 2 (18.2%) 0 (0.0%)	OR=2.379 (CI: 0.088, 64.050)  OR=1.800 (CI: 0.373, 8.681)  OR=2.333 (CI: 0.439, 12.398)  OR=2.250 (CI: 0.346, 14.611)  OR=18.000 (CI: 2.468, 131.285)  OR=2.379 (CI: 0.088, 64.050)	
CHECT SIZES	VAS – 0d VAS – 28d VAS – 28d VAS – 28d patient-reported improvement in daily physical and emotional functioning, including sleep: VAS Sleep – 0d VAS Sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: Dizziness – 28d Gait disturbance – 28d Nausea – 28d Somnolence – 28d treatment withdrawal:	Continuous Mean change  Continuous Continuous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	15 15 15 15 15 15 15 15 15	1 9 7 5 12	med: 5.1 [rng 1.7–8.7] med: 2.85 med: -2.25  med: 4.5 [rng 1.6–7] med: 2.3  (6.7%) (60.0%) (46.7%) (33.3%) (80.0%)	11 11 11 11 11 11 ( 11 5 11 2 11 2	med: 4.7 [rng 1.5–9.3] med: 3.3 med: -1.4 med: 5.6 [rng 0.2–7.8] med: 4.95 0 (0.0%) 5 (45.5%) 3 (27.3%) 2 (18.2%) 2 (18.2%)	OR=2.379 (CI: 0.088, 64.050)  OR=1.800 (CI: 0.373, 8.681)  OR=2.333 (CI: 0.439, 12.398)  OR=2.250 (CI: 0.346, 14.611)  OR=18.000 (CI: 2.468, 131.285)	

Study	Hanna et al. (2008)
Pain category	Peripheral pain
Study design	Country: Australia and Europe Design: Parallel Inclusion criteria: PDN of at least 3 months who were on a stable max tolerated dose of gabapentin for at least 1 month but were still experiencing moderate to severe pain (score s of at least 5 on the SF-BPI 11 point scale) Exclusion criteria: >11% HbA1c, long-acting opioids in the previous month or previous use of oxycodone in combination with gabapentin Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 338 Number of males: 210 (62.1%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: not reported (baseline pain severity and mean duration of NP not reported) Mean age: 60.1
Intervention(s)	(1) Gabapentin (flexible dose) + placebo Intervention: gabapentin Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose Mean dose: 1383.625731mg/d Median dose: 1383.625731mg/d Range: 1383.625731-1383.625731 Notes: Maximum tolerated dose from previous gabapentin treatment. Most participants on 600mg/d to 1800 mg/d (2) Gabapentin (flexible dose) + Oxycodone Intervention: gabapentin+oxycodone Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose Notes: Unclear dose (max tolerated). Escalated from 5mg/d to 80mg/d for some patients. No mean. Unclear how many achielved min max dose. Mean gabapentin dose = 1447.27mg/d
Concomitant treatments	Drug free baseline period? No  Concomitant pain treatment allowed? Yes (use of tricyclics or NSAIDs at least 3 weeks before screening and on a stable dose (6.4% were on amitiptyline for depression) or those on aspirin for cardiovascular indication was allowed. Paracetamol allowed as rescue medication; those on long-acting opioids in the previous month or had previously used oxycodone with gabapentin were excluded)
Outcomes measures and effect sizes	GABAPENTIN (FLEXIBLE DOSE) + OXYCODONE  GABAPENTIN (FLEXIBLE DOSE) + OXYCODONE
	N k mean N k mean Δ

Box NRS – 0d	Continuous	165		6.5 (SD 1.71)	163		6.4 (SD 1.76)	MD 0 000 (OL 0 07)
Box NRS – 28d	Mean change	165		-0.9 (SD 1.73)	163		-1.7 (SD 2.14)	MD=0.800 (CI: 0.379
Box NRS – 56d	Mean change Mean	165		-1.4 (SD 2.2)	163		-2.2 (SD 2.49)	MD=0.800 (CI: 0.29 1.309) MD=0.600 (CI: 0.059
Box NRS – 84d major adverse events	change	165		-1.5 (SD 2.38)	163		-2.1 (SD 2.61)	1.141)
(defined as leading to withdrawal): any major adverse event – 84d adverse events:	Dichotomous	169	9 <sup>a</sup>	(5.3%)	169	27 <sup>b</sup>	(16.0%)	OR=0.296 (CI: 0.139 0.650) OR=0.356 (CI: 0.204
any adverse event – 84d	Dichotomous	169	119	(70.4%)	169	147	(87.0%)	0.621)
Constipation – 84d	Dichotomous	169	10	(5.9%)	169	45	(26.6%)	OR=0.173 (CI: 0.08- 0.358)
Dizziness – 84d	Dichotomous	169	6	(3.6%)	169	25	(14.8%)	OR=0.212 (CI: 0.08: 0.531)
Fatigue – 84d	Dichotomous	169	14	(8.3%)	169	31	(18.3%)	OR=0.402 (CI: 0.20 0.787)
GI disorders – 84d	Dichotomous	169	45	(26.6%)	169	91	(53.8%)	OR=0.311 (CI: 0.19 0.491) OR=1.000 (CI: 0.49
headache – 84d	Dichotomous	169	17	(10.1%)	169	17	(10.1%)	2.032) OR=0.514 (CI: 0.30
Infection – 84d	Dichotomous	169	30	(17.8%)	169	50	(29.6%)	0.859) OR=0.349 (CI: 0.19
Nausea – 84d	Dichotomous	169	18	(10.7%)	169	43	(25.4%)	0.636) OR=0.503 (CI: 0.27
skin-related side effects – 84d	Dichotomous	169	19	(11.2%)	169	34	(20.1%)	0.923) OR=0.201 (CI: 0.09
Somnolence – 84d	Dichotomous	169	9	(5.3%)	169	37	(21.9%)	0.431)
Vomiting – 84d treatment withdrawal:	Dichotomous	169	7	(4.1%)	169	16	(9.5%)	OR=0.413 (CI: 0.16: 1.032)
due to lack of efficacy – 84d	Dichotomous	169	20	(11.8%)	169	6	(3.6%)	OR=3.647 (CI: 1.42) 9.325)
unspecified/other reason – 84d use of rescue medication:	Dichotomous	169	8	(4.7%)	169	9	(5.3%)	OR=0.883 (CI: 0.33 2.347)
average tablets used per 2 week period	Continuous	162		2.1 (SD 2.41)	160		1.6 (SD 2.09)	MD=0.500 (CI: 0.00 0.993)
<ul><li>a 16 had toxicity</li><li>b 12 had toxicity</li></ul>								

Study	Harati et al. (1998)
Pain category	Peripheral pain

Study design	Country: USA						
	Design: Parallel						
	Inclusion criteria: diabetes m extremeties for previous 3 m	athy, moderate pa	ain (on Likert scale) in the lower				
	disease, toxic exposure), sev conditions, history of narcotic ulcers, Charcot joint	ere depression, pain	more sev	tramadol, peripheral neuropath rere than the neuropathic pain, ple daily doses of narcotic anal	<30ml/min	creatinine clearar	nce, clinical significant medical
	Study length (days): 42	_					
	Intention-to-treat analysis? N	0					
Participants	Total number of patients: 13	1					
	Number of males: 78 (59.5%	•					
	Underlying cause of neuropa		betic neur	opathy			
	Mean duration of NP (in mor						
	Baseline pain severity: 2.55	(VRS (5-point Likert))	)				
	Mean age: 59						
Intervention(s)	(1) Tramadol (oral) up to 400 Intervention: tramadol Length of treatment (weeks):	7					
	dosage could be icnreased by was permitted if patients exp increase dosage by 50 mg/d	13) d increased in 50 mg y 50 mg/d to obtain c erienced inadequate	ptimal pa pain relei	in relief up to 400 mg/d; after d f at any time (day 1-4, tramado	ay 28, dosa	ge could not be re	ined until day 14; from day 14-28, educed; an alternative scheduled then from day 5, patients could
	(2) placebo						
	Intervention: placebo Length of treatment (weeks):	7					
	Fixed/flexible dose regimen:						
Concomitant	Drug free baseline period? Y						
treatments	· ·	` ,	medicati	ons other the study meds were	nermitted (t	ricyclics anticony	/ulsants were discontinued 21
	days before randomisation a	nd shorter-acting and	algesics w	ere stopped 7 days before rand	domisation))	They ches, anticom	raisants were discontinued 21
Outcomes			TRAMA	ADOL (ORAL) UP TO 400 MG/D	PLACE	=BO	
measures and effect sizes			N	k mean	N k		- Δ
	pain score:						
	VRS – 0d <sup>a</sup> VRS – 42d <sup>a</sup>	Continuous Continuous	65 65	2.5 (SD 0.806) 1.4 (SD 0.806)	66 66	2.6 (SD 0.812) 2.2 (SD 0.812)	MD_ 0.900 (CI: 1.077 0.522)
	pain relief:	Continuous	ບວ	1.4 (3D 0.000)	00	2.2 (30 0.012)	MD=-0.800 (CI: -1.077, -0.523)
	VRS/VRSpr – 42d <sup>b</sup>	Continuous	65	2.1 (SD 1.61)	66	0.9 (SD 1.62)	MD=1.200 (CI: 0.646, 1.754)

	major adverse events								
	(defined as leading to withdrawal):								
	any major adverse event – 42d	Dichotomous	65	9	(13.8%)	66	1	(1.5%)	OR=10.446 (CI: 1.284, 85.023)
	adverse events:								
	Constipation – 42d	Dichotomous	65	14	(21.5%)	66		(3.0%)	OR=8.784 (CI: 1.909, 40.429)
	Diarrhoea – 42d	Dichotomous	65	2	(3.1%)	66	5	(7.6%)	OR=0.387 (CI: 0.072, 2.072)
	Dizziness – 42d	Dichotomous	65	3	(4.6%)	66	0	(0.0%)	OR=7.448 (CI: 0.377, 147.110)
	dyspepsia – 42d	Dichotomous	65	6	(9.2%)	66		(3.0%)	OR=3.254 (CI: 0.632, 16.758)
	Fatigue – 42d	Dichotomous	65	3	(4.6%)	66		(0.0%)	OR=7.448 (CI: 0.377, 147.110)
	Nausea – 42d	Dichotomous	65	15	(23.1%)	66	2	(3.0%)	OR=9.600 (CI: 2.097, 43.941)
	Pruritus – 42d	Dichotomous	65	4	(6.2%)	66	0	(0.0%)	OR=9.732 (CI: 0.513, 184.497)
	Rash – 42d	Dichotomous	65	4	(6.2%)	66	0	(0.0%)	OR=9.732 (CI: 0.513, 184.497)
	Somnolence – 42d	Dichotomous	65	8	(12.3%)	66	4	(6.1%)	OR=2.175 (CI: 0.621, 7.616)
	Vomiting – 42d	Dichotomous	65	3	(4.6%)	66	0	(0.0%)	OR=7.448 (CI: 0.377, 147.110)
	treatment withdrawal:								
	due to lack of efficacy – 42d	Dichotomous	65	9	(13.8%)	66	22	(33.3%)	OR=0.321 (CI: 0.135, 0.767)
	unspecified/other reason – 42d	Dichotomous	65	2	(3.1%)	66	2	(3.0%)	OR=1.016 (CI: 0.139, 7.436)
	3.5								
	<sup>a</sup> 5-point Likert scale								
	<sup>b</sup> 6-point Likert scale								
Comments	study appeared to use MOS appl	roach to assess o	uality o	of life. e	valuating activities	of daily living a	nd sl	eep - results	for sleep were not reported and
	results for other aspects of daily l					-: -:,			
	recalls for earlor deposits of daily i	iiiig nave net be	OII OAL	aotoa					

Study	Holbech et al. (2011)
Pain category	Peripheral pain
Study design	Country: Denmark  Design: Crossover  Inclusion criteria: 20-80 years with symptoms compatible with polyneuropathy for more than 6 months (distal symmetric pain localisation) plus sensory disturbance in area of pain (polyneuropathy had to be confirmed by clinical signs such as decreased deep tendon reflexes and/or electrophysiological tests and/or quantitative sensory testing), median total pain rating of at least 4 on 11-point NRS after 1 week off pain medication (for those with polyneuropathy due to diabetes, hypothyroidism, etc, the underlying cause had to be stable for at least 3 months before inclusion)  Exclusion criteria: causes of pain other than polyneuropathy, previous allergic reactions/severe adverse events to levetiracetam, pregnancy and lactation, severe terminal illness, concomitant use of antidepressants, other anticonvulsants, opioids that could not be discontinued  Study length (days): 105  Intention-to-treat analysis? Yes
Participants	Total number of patients: 92 Number of males: 22 (23.9%) Underlying cause of neuropathic pain: Polyneuropathy Mean duration of NP (in months): 49 Baseline pain severity: 5.7 (median NRS (also, median duration of NP and age))

	Mean age: 57													
Intervention(s)	(1) Levetiracetam flexible-dose													
(-)	Intervention: levetiracetam													
	Length of treatment (weeks): 6													
	Fixed/flexible dose regimen: Flexible dose													
	Range: 2000–3000													
	Notes: slow titration in the first 15 days up to 3000 mg/d but those with unacceptable side effects were permitted to lower their dose to 2000-2500 mg/d;													
	actual numbers of patients achieving these different dosage levels was not reported													
	(2) Placebo													
	Intervention: placebo													
	Length of treatment (weeks): 6													
	Fixed/flexible dose regimen: Flexible dose													
	-													
Concomitant	Drug free baseline period? Yes (duration: 7d)													
treatments	Concomitant pain treatment allowed? No (all conc													
	anti-convulsants, opioids); up to 5 500mg tablets of	of paracetamol	and c	ne tat	olet of 50 mg tramado	ol were perr	nitted as escap	pe medication)						
Outcomes measures and					CETAM FLEXIBLE-									
effect sizes			DOS	E		PLACE	ВО	_						
0001.0.200			N	k	mean	N k	mean	Δ						
	ITT/LOCF (last-observation carried forward)													
	pain score:				/==		/ <b></b> >							
	NRS/NRS Pain – 0d	Continuous	35		5.2 (SD 1.6)	35	5.2 (SD 1.6)	MD 0 000 (OL 0 005 4 005)						
	NRS/NRS Pain – 42d pain relief:	Continuous	35		5.5 (SD 2.5)	35	5.3 (SD 2.3) 2.28 (SD	MD=0.200 (CI: -0.925, 1.325)						
	VRS/VRSpr – 42d	Continuous	35		2.29 (SD 1.13)	35	1.19)	MD=0.010 (CI: -0.534, 0.554)						
	patient-reported improvement in	Continuous	00		2.20 (05 1.10)	00	1.10)	WID=0.010 (OI: 0.004, 0.004)						
	daily physical and emotional													
	daily physical and emotional functioning, including sleep:													
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup>	Continuous	35		4.8 (SD 2.5)	35	4.8 (SD 2.5)							
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure –				, ,									
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup>	Continuous	35		3.9 (SD 3)	35	4 (SD 2.9)							
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d	Continuous Continuous	35 35		3.9 (SD 3) 4.8 (SD 2.5)	35 35	4 (SD 2.9) 4.8 (SD 2.5)	MD 0 200 (Ch 4 502 4 402)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d	Continuous	35		3.9 (SD 3)	35	4 (SD 2.9)	MD=-0.200 (CI: -1.582, 1.182)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events	Continuous Continuous	35 35		3.9 (SD 3) 4.8 (SD 2.5)	35 35	4 (SD 2.9) 4.8 (SD 2.5)	,						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal):	Continuous Continuous	35 35 35	$3^b$	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3)	35 35 35	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9)	OR=6.808 (CI: 0.339,						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events	Continuous Continuous Continuous	35 35	3 <sup>b</sup>	3.9 (SD 3) 4.8 (SD 2.5)	35 35	4 (SD 2.9) 4.8 (SD 2.5)	,						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d	Continuous Continuous Continuous	35 35 35	3 <sup>b</sup>	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3)	35 35 35 35	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9)	OR=6.808 (CI: 0.339, 136.609) OR=1.675 (CI: 0.684, 4.099)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup>	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous	35 35 35 39 39	22 1	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%)	35 35 35 35 35 0 39 17 39 0	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%)	OR=6.808 (CI: 0.339, 136.609)  OR=1.675 (CI: 0.684, 4.099)  OR=3.078 (CI: 0.122, 77.905)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup> Constipation – 42d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous	35 35 35 39 39 39 39	22 1 4	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%) (10.3%)	35 35 35 35 35 0 39 17 39 0 39 2	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%) (5.1%)	OR=6.808 (CI: 0.339, 136.609) OR=1.675 (CI: 0.684, 4.099) OR=3.078 (CI: 0.122, 77.905) OR=2.114 (CI: 0.364, 12.279)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup> Constipation – 42d Dizziness – 42d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous	35 35 35 39 39 39 39	22 1 4 5	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%) (10.3%) (12.8%)	35 35 35 35 35 0 39 17 39 0 39 2 39 1	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%) (5.1%) (2.6%)	OR=6.808 (CI: 0.339, 136.609)  OR=1.675 (CI: 0.684, 4.099)  OR=3.078 (CI: 0.122, 77.905)  OR=2.114 (CI: 0.364, 12.279)  OR=5.588 (CI: 0.621, 50.249)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup> Constipation – 42d Dizziness – 42d Drowsiness – 42d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	35 35 35 39 39 39 39 39	22 1 4 5 14	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%) (10.3%) (12.8%) (35.9%)	35 35 35 35 35 35 39 17 39 0 39 2 39 1 39 4	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%) (5.1%) (2.6%) (10.3%)	OR=6.808 (CI: 0.339, 136.609)  OR=1.675 (CI: 0.684, 4.099)  OR=3.078 (CI: 0.122, 77.905)  OR=2.114 (CI: 0.364, 12.279)  OR=5.588 (CI: 0.621, 50.249)  OR=4.900 (CI: 1.441, 16.664)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup> Constipation – 42d Dizziness – 42d Drowsiness – 42d Dry mouth – 42d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	35 35 35 39 39 39 39 39 39	22 1 4 5 14 0	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%) (10.3%) (12.8%) (35.9%) (0.0%)	35 35 35 35 35 39 17 39 0 39 2 39 1 39 4 39 1	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%) (5.1%) (2.6%) (10.3%) (2.6%)	OR=6.808 (CI: 0.339, 136.609)  OR=1.675 (CI: 0.684, 4.099) OR=3.078 (CI: 0.122, 77.905) OR=2.114 (CI: 0.364, 12.279) OR=5.588 (CI: 0.621, 50.249) OR=4.900 (CI: 1.441, 16.664) OR=0.325 (CI: 0.013, 8.223)						
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure – 42d <sup>a</sup> NRS Sleep – 0d NRS Sleep – 42d major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: any adverse event – 42d Blurred vision – 42d <sup>c</sup> Constipation – 42d Dizziness – 42d Drowsiness – 42d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	35 35 35 39 39 39 39 39	22 1 4 5 14	3.9 (SD 3) 4.8 (SD 2.5) 3.8 (SD 3) (7.7%) (56.4%) (2.6%) (10.3%) (12.8%) (35.9%)	35 35 35 35 35 35 39 17 39 0 39 2 39 1 39 4	4 (SD 2.9) 4.8 (SD 2.5) 4 (SD 2.9) (0.0%) (43.6%) (0.0%) (5.1%) (2.6%) (10.3%)	OR=6.808 (CI: 0.339, 136.609)  OR=1.675 (CI: 0.684, 4.099)  OR=3.078 (CI: 0.122, 77.905)  OR=2.114 (CI: 0.364, 12.279)  OR=5.588 (CI: 0.621, 50.249)  OR=4.900 (CI: 1.441, 16.664)						

	mood disturbance – 42d	Dichotomous	39	1	(2.6%)	39 1	(2.6%)	OR=1.000 (CI: 0.060, 16.577)
	Nausea – 42d	Dichotomous	39	3	(7.7%)	39 2	(5.1%)	OR=1.542 (CI: 0.243, 9.776)
	oedema – 42d	Dichotomous	39	1	(2.6%)	39 1	(2.6%)	OR=1.000 (CI: 0.060, 16.577)
	sleep disturbance – 42d	Dichotomous	39	1	(2.6%)	39 0	(0.0%)	OR=3.078 (CI: 0.122, 77.905)
	urination difficulties – 42d <sup>f</sup>	Dichotomous	39	6	(15.4%)	39 1	(2.6%)	OR=6.909 (CI: 0.791, 60.377)
	Urine retention – 42d	Dichotomous	39	1	(2.6%)	39 0	(0.0%)	OR=3.078 (CI: 0.122, 77.905)
	treatment withdrawal:	Dictionious	55	'	(2.070)	33 0	(0.070)	O. (OI. 0.122, 11.900)
	due to lack of efficacy – 42d	Dichotomous	39	$5^{g}$	(12.8%)	39 5	(12.8%)	OR=1.000 (CI: 0.265, 3.772)
	unspecified/other reason – 42d	Dichotomous	39	1 <sup>h</sup>	(2.6%)	39 0	(0.0%)	OR=3.078 (Cl: 0.123, 77.905)
	use of rescue medication:	טוטוטוטווטעט	39	1	(2.0/0)	39 0	(0.0%) 12.9 (SD	OK-3.076 (GL 0.122, 77.903)
		Continuous	35		14.2 (SD 12.0)	25	,	
	500 mg paracetamol tablets per week – 0d	Continuous	33		14.3 (SD 13.9)	35	12.7) 16.3 (SD	
	500 mg paraestamal tableta par wasts and	Continuous	25		14 2 (SD 12 0)	25	`	
	500 mg paracetamol tablets per week – 0d	Continuous	35		14.3 (SD 13.9)	35	15.4)	
	500 mm management tablets many week. Od	Cantinua	25		40 0 (CD 45 4)	25	12.9 (SD	
	500 mg paracetamol tablets per week – 0d	Continuous	35		16.3 (SD 15.4)	35	12.7)	
	500	0	0.5		40.0 (OD 45.4)	0.5	16.3 (SD	
	500 mg paracetamol tablets per week – 0d	Continuous	35		16.3 (SD 15.4)	35	15.4)	
	500 mg paracetamol tablets per week – 42d	Continuous	0		0.0 (0.0.0.)	0	0.0 (0.0 0.5)	
	50 mg tramadol tablets per week – 0d	Continuous	35		2.6 (SD 3.6)	35	2.6 (SD 3.6)	
	50 mg tramadol tablets per week – 42d	Continuous	35		2 (SD 2.6)	35	1.8 (SD 2.9)	MD=0.200 (CI: -1.090, 1.490)
	Per Protocol							
	pain score:							
	NRS/NRS Pain – 0d	Continuous	26		5.7 (SD 1.7)	26	5.7 (SD 1.7)	
	NRS/NRS Pain – 42d	Continuous	26		5 (SD 2.4)	26	5.1 (SD 2.5)	MD=-0.100 (CI: -1.432, 1.232)
					5 (35 E. 1)		3.7 ( <b>32 2.</b> 3)	0.100 (01. 1.102, 1.202)
	a based on NRS Sleep							
	fatigue for all and both fatigue and sleep disturband	ce for one patient (o	ne of t	he pati	ents with fatigue also w	ithdrew beca	use of lack of eff	ficacy)
	reported as 'double vision'							
	a reported as 'tiredness'							
	e not otherwise specified							
	f 'micturition difficulties'							
	g 1 of these patients also withdrew because of an ad	lverse event (fatigue	<del>)</del> )					
	<sup>h</sup> due to logistic problem (not otherwise described)							
Comments	Study reports the use of tramadol (one of the o	ther drugs being	consid	dered i	n this quideline) as re	escue medi	cation - there v	vere a number of patients who
Commonto	were receiving this at baseline as a rescue med							
	ranging from complete to worse as primary out							
	observation carried forward (4 withdrew in the f							
	polyneuropathic pain and 10 had tried several	different types of	drugs	withou	ıt success (ie. Imipra	ımine, gaba	pentoids, SSR	I, other anticonvulsants);
	authors recorded SF-36 scores but did not repo	ort the actual figur	es in	the stu	ıdy	-		
	victions are given at the and of this document				·			

Study	Huse et al. (2001)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: Germany
	Design: Crossover
	Inclusion criteria: Unilateral amputees. Presence of phantom limb pain with an intensity of at least 3 on 10cm VAS with the end points no pain and

	unbearable pain aged between 18 and 75	years							
	Exclusion criteria: neurological and psychi protection, presence of morphine-specific prostate, biliary disease, obstructive and in Study length (days): 70 Intention-to-treat analysis? Yes	risk factors (know	vn sens	itivit	y, heightened brain pres	sure,	hyp	otension with hy	
Participants	Total number of patients: 12								
i articiparits	Number of males: 10 (83.3%)								
	` '								
	Underlying cause of neuropathic pain: Pha	•							
	Mean duration of NP (in months): not repo								
	Baseline pain severity: 3.335 (VAS (avera	ge of means of p	hantom	b lin	nb [4.65] and stump pain	[2.02	2]))		
	Mean age: 50.58 (SD: 14.01)								
Intervention(s)	(1) Morphine sulphate (oral)								
intorvorition(o)	Intervention: morphine								
	Length of treatment (weeks): 4								
	Fixed/flexible dose regimen: Flexible dose	<b>1</b>							
	Range: 70–300								
	Notes: oral retarded morphine sulphate - t	reatment phase b	oegan w	ith a	an intravenous morphine	test	to c	heck response a	nd to confirm no serious side
	effects before treatment commenced (70-	100 mg in 7, 120-	-160 mg	ı in ∠	1, 300 mg in 1)				
	(2) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): 4								
	Fixed/flexible dose regimen: Flexible dose								
	Notes: also began with a intravenous test	phase							
Concomitant	Drug free baseline period? Yes (duration:	28d)							
treatments	Concomitant pain treatment allowed? Unc	•	na descr	riptic	on is provided 'the use of	all a	nalo	esic and psycho	tropic medication were also
	noted in a pain diary'. Acetylsalicylic acid	or paracetamol up	to 6 tir	nes	100 mg per day was allo	owed	as	escue medicatio	n.)
Outcomes			MORI	PHIN	IE SULPHATE (ORAL)	PI	AC	EBO	
measures and effect sizes			N	k	mean	N	k	mean	Δ
01100101200	<u> </u>								
	pain score: VAS – 0d <sup>a</sup>	Continuous	12		4.05 (SD 1.06)	12	)	4.05 (SD 1.06)	
	VAS – 0d VAS – 28d <sup>b</sup>	Continuous	12		3.26 (SD 1.59)	12		3.99 (SD 1.23)	MD=-0.730 (CI: -1.867, 0.407)
	at least 50% pain reduction (VAS) – 28d <sup>b</sup>	Dichotomous	12	5	(41.7%)			(8.3%)	OR=7.857 (CI: 0.752, 82.128)
	adverse events:								
	Constipation – 28d	Continuous	12		0.03 (SD 0.02)	12		0.02 (SD 0.02)	MD=0.010 (CI: -0.006, 0.026)
	Dizziness – 28d Nausea – 28d	Continuous Continuous	12 12		1.27 (SD 1.8) 0.74 (SD 1.24)	12 12		0.71 (SD 1.47) 0.4 (SD 0.66)	MD=0.560 (CI: -0.755, 1.875) MD=0.340 (CI: -0.455, 1.135)
	tiredness – 28d	Continuous	12		2.21 (SD 1.24)	12		1.33 (SD 1.79)	MD=0.880 (CI: -0.572, 2.332)
	urination difficulties – 28d	Continuous	12		0.01 (SD 0.01)	12		0 (SD 0)	MD=0.010 (CI: 0.004, 0.016)

	vertigo – 28d	Continuous	12	0.98 (SD 1.4)	12	0.42 (SD 0.92)	MD=0.560 (CI: -0.388, 1.508)
	<ul> <li>baseline for patients in all arms</li> <li>authors transformed 2cm scales into 10cm s</li> </ul>	cales					
Comments	The study was 12 weeks in duration, with by a washout period of 1-2 weeks. Follow the precision of scale						

Study	Irving et al. (2011)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Aged 18 and over with a diagnosis of PHN and an average NPRS score of 3-9 (inclusive) were eligible if at least 6 months had elapsed since vesicle crusting Exclusion criteria: Use of any topically applied pain medication on the painful area within 21 days before application of study patch. Pain at or around facial area, pregnancy or use of ineffective method of contraception, significant pain of an etiology other than PHN, current use of an investigational drug or class 1 antiarrhythmic drugs, uncontrolled hypertension, hypersensitivity to capsaicin, local anaesthetics, oxycodone hydrochloride, hydrocodone or adhesives, use of high-dose (> 60 mg/day morphine) opioids not orally or transdermally administered Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 416 Number of males: 190 (45.7%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 22.4 Baseline pain severity: 5.75 (NRS (average of arm means)) Mean age: 70.3
Intervention(s)	(1) Capasaicin 8% single patch (60 minutes) Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose Notes: Study reports 8% capsaicin patch, applied for 60 minutes once then removed (topical anaesthetic cream applied 60 mins before patches) (2) Placebo patch (60 minutes) Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose Notes: applied for 1 hr then removed (topical anaesthetic cream applied 60 mins before patches)
Concomitant	Drug free baseline period? No

treatments			3g/d (as rescue medications), stable dosage of anti-convulsants, non-SSRIs, opioids, ethe study patch application and through the study)									
Outcomes measures and				SAICIN INUTES	8% SINGLE PATCH		CEBO JTES)	PATCH (60				
effect sizes			N	k	mean	N	k	mean	Δ			
	pain score:											
	NRS/NRS Pain – 0d	Continuous	212		5.7 (SD 1.6)	204		5.8 (SD 1.57)	MD 40 000 (CI.			
	NRS/NRS Pain – 28d <sup>a</sup>	Percentage change from baseline	212		-33 (SD 36.4)	204		-23 (SD 35.7)	MD=-10.000 (CI: - 16.930, -3.070)			
	NRS/NRS Pain – 35d <sup>b</sup>	Mean difference from baseline to average f-u	212		-1.7 (SD 1.75)	204		-1.3 (SD 1.71)	MD=-0.400 (CI: -0.733 0.067)			
	NRS/NRS Pain – 49d <sup>c</sup>	Mean difference from baseline to average f-u	212		-1.7 (SD 1.75)	204		-1.4 (SD 1.71)	MD=-0.300 (CI: -0.633 0.033)			
	NRS/NRS Pain – 56d <sup>a</sup>	Percentage change from baseline	212		-34.5 (SD 36.4)	204		-27 (SD 35.7)	MD=-7.500 (CI: -14.43)			
	NRS/NRS Pain – 84d <sup>a</sup>	Percentage change from baseline	212		-34 (SD 36.4)	204		-27 (SD 35.7)	MD=-7.000 (CI: -13.93)			
	at least 30% pain reduction (NRS) – 84d	Dichotomous	212	100	(47.2%)	204	71	(34.8%)	OR=1.673 (CI: 1.127, 2.482)			
	at least 50% pain reduction (NRS) – 84d	Dichotomous	212	63	(29.7%)	204	43	(21.1%)	OR=1.583 (CI: 1.012, 2.476)			
	patient-reported global improvement:											
	PGIC - worse (all grades) or no								OR=0.653 (CI: 0.435,			
	change – 56d <sup>d</sup> PGIC - worse (all grades) or no	Dichotomous	212	73	(34.4%)	204	93	(45.6%)	0.980) OR=0.653 (CI: 0.435,			
	change – 56d <sup>a</sup>	Dichotomous	192	73	(34.4%)	192	93	(45.6%)	0.980)			
	PGIC - worse (all grades) or no change – 84d <sup>d</sup>	Dichotomous	212	79	(37.3%)	204	103	(50.5%)	OR=0.567 (CI: 0.381, 0.846)			
	PGIC - worse (all grades) or no change – 84d <sup>d</sup>	Dichotomous	202	79	(37.3%)	194	103	(50.5%)	OR=0.567 (CI: 0.381, 0.846)			
	PGIC - minimally better – 56d <sup>d</sup>	Dichotomous	212	48	(22.6%)	204	50	(24.5%)	OR=0.947 (CI: 0.598, 1.498)			
	PGIC - minimally better – 56d <sup>d</sup>	Dichotomous	192	48	(22.6%)	192	50	(24.5%)	OR=0.947 (CI: 0.598, 1.498)			
	PGIC - minimally better – 84d <sup>d</sup>	Dichotomous	212	40	(18.9%)	204	41	(20.1%)	OR=0.921 (CI: 0.565, 1.502)			
	PGIC - minimally better – 84d <sup>d</sup>	Dichotomous	202	40	(18.9%)	194	41	(20.1%)	OR=0.921 (CI: 0.565, 1.502)			
	PGIC - at least moderately better – 56d <sup>d</sup>	Dichotomous	192	71	(33.5%)	192	49	(24.0%)	OR=1.712 (CI: 1.106, 2.651)			
	PGIC - at least moderately better – 56d <sup>d</sup>	Dichotomous	212	71	(33.5%)	204	49	(24.0%)	OR=1.712 (CI: 1.106, 2.651)			
	PGIC - at least moderately better – 84d <sup>d</sup>	Dichotomous	202	83	(39.2%)	194	50	(24.5%)	OR=2.009 (CI: 1.311, 3.078)			
	PGIC - at least moderately better – 84d <sup>d</sup>		212	83	,	204	50	, ,	OR=2.009 (CI: 1.311,			
	major adverse events	Dichotomous	Z1Z	03	(39.2%)	204	50	(24.5%)	3.078)			
	(defined as leading to withdrawal): any major adverse event – 84d	Dichotomous	212	3	(1.4%)	204	3	(1.5%)	OR=0.962 (CI: 0.192, 4.821)			

adverse events:										
any adverse event – 84d	Dichotomous	212	208	(98.1%)	204	177	(86.8%)	OR=7.932 (CI: 2.723, 23.103)		
Dizziness – 84d	Dichotomous	212	3	(1.4%)	204	6	(2.9%)	OR=0.474 (CI: 0.117, 1.920)		
GI disorders – 84d <sup>e</sup>	Dichotomous	212	21	(9.9%)	204	22	(10.8%)	OR=0.910 (CI: 0.484, 1.710) OR=0.373 (CI: 0.115,		
headache – 84d	Dichotomous	212	4	(1.9%)	204	10	(4.9%)	1.209) OR=0.954 (CI: 0.577,		
Infection – 84d	Dichotomous	212	37 <sup>f</sup>	(17.5%)	204	37	(18.1%)	1.577) OR=2.178 (CI: 0.743,		
Nausea – 84d	Dichotomous	212	11	(5.2%)	204	5	(2.5%)	6.383) OR=27.677 (CI: 1.634,		
oedema – 84d	Dichotomous	212	13	(6.1%)	204	0	(0.0%)	468.713) OR=1.951 (CI: 0.481,		
Pruritus – 84d	Dichotomous	212	6	(2.8%)	204	3	(1.5%)	7.909) OR=4.816 (CI: 2.732,		
Rash – 84d <sup>g</sup>	Dichotomous	212	194	(91.5%)	204	141	(69.1%)	8.489) OR=4.816 (CI: 2.732,		
site erythema – 84d	Dichotomous	212	194	(91.5%)	204	141	(69.1%)	8.489) OR=4.430 (CI: 2.928,		
site pain – 84d	Dichotomous	212	134	(63.2%)	204	57	(27.9%)	6.703) OR=12.874 (CI: 0.721,		
Vomiting – 84d treatment withdrawal:	Dichotomous	212	6	(2.8%)	204	0	(0.0%)	230.016) OR=0.189 (CI: 0.022,		
due to lack of efficacy – 84d	Dichotomous	212	1	(0.5%)	204	5	(2.5%)	1.629) OR=6.932 (CI: 0.845,		
unspecified/other reason – 84d	Dichotomous	212	7	(3.3%)	204	1	(0.5%)	56.847) OR=0.765 (CI: 0.203,		
lost to follow-up – 84d	Dichotomous	212	4	(1.9%)	204	5	(2.5%)	2.891) OR=0.718 (CI: 0.159,		
poor compliance – 84d	Dichotomous	212	3	(1.4%)	204	4	(2.0%)	3.247)		
<ul> <li>a percentage change from baseline; estimated from graph</li> <li>b baseline to weeks 2 to 8</li> <li>c baseline to weeks 2 to 12</li> <li>d denominators inferred from percentages and appear to be subject to some rounding error includes nausea and vomiting</li> <li>f includes sinusitis and upper respiratory tract infection</li> <li>g described as site erythema in paper</li> </ul>										
while there was no drug-free bas	seline period, those on topical	medicatio	ns wer	e required to stop	21 days be	efore t	treatment with	patch		
	any adverse event – 84d  Dizziness – 84d  GI disorders – 84d  headache – 84d  Infection – 84d  Nausea – 84d  oedema – 84d  Pruritus – 84d  Rash – 84d  site erythema – 84d  vomiting – 84d  treatment withdrawal: due to lack of efficacy – 84d  unspecified/other reason – 84d  lost to follow-up – 84d  poor compliance – 84d  a percentage change from baseline; b baseline to weeks 2 to 8 c baseline to weeks 2 to 12 denominators inferred from percentic includes nausea and vomiting includes sinusitis and upper respirated described as site erythema in paper	any adverse event – 84d Dichotomous  Dizziness – 84d Dichotomous  GI disorders – 84d Dichotomous  headache – 84d Dichotomous  Infection – 84d Dichotomous  Nausea – 84d Dichotomous  Pruritus – 84d Dichotomous  Pruritus – 84d Dichotomous  Rash – 84d Dichotomous  site erythema – 84d Dichotomous  site pain – 84d Dichotomous  vomiting – 84d Dichotomous  Vomiting – 84d Dichotomous  vomiting – 84d Dichotomous  unspecified/other reason – 84d Dichotomous  lost to follow-up – 84d Dichotomous  poor compliance – 84d Dichotomous  a percentage change from baseline; estimated from graph baseline to weeks 2 to 8  baseline to weeks 2 to 12  denominators inferred from percentages and appear to be subject to includes nausea and vomiting  includes sinusitis and upper respiratory tract infection  g described as site erythema in paper	any adverse event – 84d Dichotomous 212  Dizziness – 84d Dichotomous 212  GI disorders – 84d° Dichotomous 212  headache – 84d Dichotomous 212  Infection – 84d Dichotomous 212  Nausea – 84d Dichotomous 212  Nausea – 84d Dichotomous 212  Pruritus – 84d Dichotomous 212  Rash – 84d° Dichotomous 212  Pruritus – 84d Dichotomous 212  Rash – 84d° Dichotomous 212  Rash – 84d° Dichotomous 212  site erythema – 84d Dichotomous 212  site pain – 84d Dichotomous 212  Vomiting – 84d Dichotomous 212  vomiting – 84d Dichotomous 212  unspecified/other reason – 84d Dichotomous 212  unspecified/other reason – 84d Dichotomous 212  lost to follow-up – 84d Dichotomous 212  poor compliance – 84d Dichotomous 212  a percentage change from baseline; estimated from graph baseline to weeks 2 to 12  d denominators inferred from percentages and appear to be subject to some rouge includes nausea and vomiting includes sinusitis and upper respiratory tract infection described as site erythema in paper	any adverse event – 84d Dichotomous 212 208  Dizziness – 84d Dichotomous 212 3  GI disorders – 84d <sup>9</sup> Dichotomous 212 21  headache – 84d Dichotomous 212 4  Infection – 84d Dichotomous 212 37 <sup>f</sup> Nausea – 84d Dichotomous 212 11  oedema – 84d Dichotomous 212 11  oedema – 84d Dichotomous 212 13  Pruritus – 84d Dichotomous 212 13  Pruritus – 84d Dichotomous 212 194  site erythema – 84d Dichotomous 212 194  site pain – 84d Dichotomous 212 194  vomiting – 84d Dichotomous 212 134  Vomiting – 84d Dichotomous 212 134  Vomiting – 84d Dichotomous 212 1 14  unspecified/other reason – 84d Dichotomous 212 1  lost to follow-up – 84d Dichotomous 212 7  lost to follow-up – 84d Dichotomous 212 3  a percentage change from baseline; estimated from graph baseline to weeks 2 to 12  denominators inferred from percentages and appear to be subject to some rounding er includes nausea and vomiting includes sinusitis and upper respiratory tract infection gescribed as site erythema in paper	any adverse event – 84d Dichotomous 212 208 (98.1%)  Dizziness – 84d Dichotomous 212 3 (1.4%)  GI disorders – 84d® Dichotomous 212 21 (9.9%)  headache – 84d Dichotomous 212 4 (1.9%)  Infection – 84d Dichotomous 212 37' (17.5%)  Nausea – 84d Dichotomous 212 11 (5.2%)  oedema – 84d Dichotomous 212 11 (5.2%)  oedema – 84d Dichotomous 212 13 (6.1%)  Pruritus – 84d Dichotomous 212 6 (2.8%)  Rash – 84d® Dichotomous 212 194 (91.5%)  site erythema – 84d Dichotomous 212 194 (91.5%)  site erythema – 84d Dichotomous 212 194 (91.5%)  site pain – 84d Dichotomous 212 134 (63.2%)  Vomiting – 84d Dichotomous 212 1 (0.5%)  unspecified/other reason – 84d Dichotomous 212 1 (0.5%)  lost to follow-up – 84d Dichotomous 212 1 (0.5%)  poor compliance – 84d Dichotomous 212 3 (1.4%)  **  percentage change from baseline; estimated from graph baseline to weeks 2 to 18 baseline to weeks 2 to 12 denominators inferred from percentages and appear to be subject to some rounding error includes nausea and vomiting includes nausea and vomiting includes sinusitis and upper respiratory tract infection in described as site erythema in paper	any adverse event – 84d Dichotomous 212 208 (98.1%) 204  Dizziness – 84d Dichotomous 212 3 (1.4%) 204  GI disorders – 84d° Dichotomous 212 21 (9.9%) 204  headache – 84d Dichotomous 212 4 (1.9%) 204  Infection – 84d Dichotomous 212 37' (17.5%) 204  Nausea – 84d Dichotomous 212 11 (5.2%) 204  oedema – 84d Dichotomous 212 11 (5.2%) 204  Pruritus – 84d Dichotomous 212 13 (6.1%) 204  Pruritus – 84d Dichotomous 212 13 (6.1%) 204  Rash – 84d° Dichotomous 212 194 (91.5%) 204  site erythema – 84d Dichotomous 212 194 (91.5%) 204  site pain – 84d Dichotomous 212 194 (63.2%) 204  Vomiting – 84d Dichotomous 212 134 (63.2%) 204  Vomiting – 84d Dichotomous 212 1 10.5%) 204  treatment withdrawal: due to lack of efficacy – 84d Dichotomous 212 1 (0.5%) 204  unspecified/other reason – 84d Dichotomous 212 7 (3.3%) 204  lost to follow-up – 84d Dichotomous 212 7 (3.3%) 204  lost to follow-up – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 4 (1.9%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  poor compliance – 84d Dichotomous 212 3 (1.4%) 204  given distribution of the proceedings and appear to be subject to some rounding error includes anusea and vomiting includes sinusitis and upper respiratory tract infection gently described as site erythema in paper	any adverse event – 84d Dichotomous 212 208 (98.1%) 204 177  Dizziness – 84d Dichotomous 212 3 (1.4%) 204 6  GI disorders – 84d® Dichotomous 212 21 (9.9%) 204 22  headache – 84d Dichotomous 212 4 (1.9%) 204 10  Infection – 84d Dichotomous 212 37' (17.5%) 204 37  Nausea – 84d Dichotomous 212 11 (5.2%) 204 5  oedema – 84d Dichotomous 212 13 (6.1%) 204 0  Pruritus – 84d Dichotomous 212 13 (6.1%) 204 141  site erythema – 84d Dichotomous 212 194 (91.5%) 204 141  site pain – 84d Dichotomous 212 194 (91.5%) 204 141  site pain – 84d Dichotomous 212 194 (91.5%) 204 141  site pain – 84d Dichotomous 212 134 (63.2%) 204 57  Vomiting – 84d Dichotomous 212 13 (0.5%) 204 57  Vomiting – 84d Dichotomous 212 1 (0.5%) 204 5  unspecified/other reason – 84d Dichotomous 212 7 (3.3%) 204 5  unspecified/other reason – 84d Dichotomous 212 7 (3.3%) 204 5  poor compliance – 84d Dichotomous 212 3 (1.4%) 204 4   **  percentage change from baseline; estimated from graph baseline to weeks 2 to 8 Chaseline to weeks 2 to 12 denominators inferred from percentages and appear to be subject to some rounding error includes nausea and vomiting includes nausea and vomi	Any adverse event = 84d   Dichotomous   212   208   (98.1%)   204   177   (86.8%)		

Study	Kalso et al. (1995)
Pain category	Peripheral pain
Study design	Country: Finland Design: Crossover

	Inclusion criteria: patients re in the anterior chest wall, ar								erity following treatment for breast cancer
	Exclusion criteria: relapses	or metastases of brea	st car	ncer,	, clinically overt cardiac, rer	nal or	hep	atic disease	
	Study length (days): 70				•				
	Intention-to-treat analysis? I	No							
Participants	Total number of patients: 20	)							
	Number of males: 0 (0.0%)								
	Underlying cause of neurop	athic pain: Post-surgi	cal pa	in af	fter surgery for cancer				
	Mean duration of NP (in mo	nths): not reported							
	Baseline pain severity: 4.15	(VAS (average of me	ans o	f tho	ose in scar vs arm group)				
	(age is median; median time	· · · ·			- · · · ·	if the r	nair	had existing th	roughout this period))
		Silioc bicast sargery	was	10 11	ionins but it was not olear i	ıı uıc p	Pan	Triad Chisting th	roughout this period//
	Mean age: 56								
Intervention(s)	(1) Amitriptyline flexible dos	е							
	Intervention: amitriptyline								
	Length of treatment (weeks)	): 4							
	Fixed/flexible dose regimen	: Flexible dose							
	Range: 50–100				00 (1/4 (11 ( ) 12 0			<b>5</b> 0 /1/0 / 1	
		ated dosage; 13 incre	ased	to 10	00 mg/d (4 tablets) while 2	staye	d o	n 50 mg/d (2 tab	oles) until the end of the study
	(2) Placebo								
	Intervention: placebo								
	Length of treatment (weeks)								
	Fixed/flexible dose regimen	: Flexible dose							
Concomitant	Drug free baseline period?	Unclear							
treatments			atients	wei	re asked to refrain from usi	na oth	ner i	pain killers durin	g the study but if it was unavoidable that
	patients must take these, it								
Outcomes				-	PTYLINE FLEXIBLE DOSE			EBO	
measures and									
effect sizes			N	K	mean	N	K	mean	Δ
	pain score:								
	VRS – 28d	Continuous	11			11			MD=-1.838 (CI: -2.961, -0.715)
	adverse events:	Dishetemana	12	0	(G1 E0/)	12	4	(7 70/)	OP-10 200 (CI: 1 976 106 520)
	Constipation – 28d Dizziness	Dichotomous Dichotomous	13 13		(61.5%) (7.7%)			(7.7%) (0.0%)	OR=19.200 (CI: 1.876, 196.539) OR=3.240 (CI: 0.120, 87.125)
	Drowsiness <sup>a</sup>	Dichotomous		12				(61.5%)	OR=7.500 (CI: 0.733, 76.773)
	Dry mouth	Dichotomous	13		(92.3%)	13	5	(38.5%)	OR=19.200 (CI: 1.876, 196.539)
	headache	Dichotomous	13		(15.4%)			(38.5%)	OR=0.291 (CI: 0.045, 1.898)
	loss of appetite Nausea	Dichotomous Dichotomous	13 13		(23.1%) (0.0%)			(23.1%) (15.4%)	OR=1.000 (CI: 0.161, 6.200) OR=0.170 (CI: 0.007, 3.923)
	nightmares	Dichotomous	13		(46.2%)			(38.5%)	OR=1.371 (CI: 0.288, 6.535)
	palpitation	Dichotomous	13	6	(46.2%)			(30.8%)	OR=1.929 (CI: 0.387, 9.601)
	urination difficulties	Dichotomous	13	2	(23.1%)	10	4	(7.7%)	OR=3.600 (CI: 0.322, 40.233)

	patients with ipsilateral arm pain							
	pain score:	0 1	40			40		
	VAS – 0d VAS – 28d	Continuous Continuous	13 11		med: 5 [rng 1.7–7.1]	13 11	med: 5 [rng 1.7–7.1]	
	McGill Pain Questionnaire – 0d	Continuous	13		med: 0.5 [rng 0-3] med: 275 [rng 49-654]	13	med: 5 [rng 0–9.4] med: 275 [rng 49–654]	
	McGill Pain Questionnaire – 28d	Continuous	11		med: 275 [rng 45–654]	11	med: 165 [rng 0–582]	
	VRS – 0d <sup>b</sup>	Continuous	13		3.2 (SD 1.08)	13	3.2 (SD 1.44)	
	$VRS - 28d^b$	Continuous	11		0.9 (SD 0.995)	11	3.2 (SD 1.99)	MD=-2.300 (CI: -3.615, -0.985)
	patient-reported improvement in				(==,		(==,	(,,
	daily physical and emotional							
	functioning, including sleep:							
	disturbed sleep – 0d	Dichotomous	13		(61.5%)		(61.5%)	
	disturbed sleep – 28d	Dichotomous	11	1	(9.1%)	11 6	(54.5%)	OR=0.083 (CI: 0.008, 0.895)
	patients with breast scar pain							
	pain score:							
	VAS – 0d	Continuous	12		med: 3.3 [rng 1.4-6.2]	12	med: 3.3 [rng 1.4-6.2]	
	VAS – 28d	Continuous	10		med: 0.2 [rng 0-4.3]	10	med: 3.1 [rng 0.7-5.5]	
	McGill Pain Questionnaire – 0d	Continuous	12		med: 326 [rng 154–618]	12	med: 326 [rng 154-618]	
	McGill Pain Questionnaire – 28d	Continuous	10		med: 58 [rng 0–305]	10	med: 235 [rng 59–661]	
	VRS – 0d <sup>b</sup> VRS – 28d <sup>b</sup>	Continuous	12		2.8 (SD 1.04)	12 10	2.7 (SD 1.04)	MD 4 220 (CI: 2 222 0 427)
	patient-reported improvement in	Continuous	10		1.15 (SD 1.11)	10	2.48 (SD 0.949)	MD=-1.330 (CI: -2.233, -0.427)
	daily physical and emotional							
	functioning, including sleep:							
	disturbed sleep – 0d	Dichotomous	12	6	(50.0%)	12 6	(50.0%)	
	disturbed sleep – 28d	Dichotomous	10		(0.0%)		(60.0%)	OR=0.033 (CI: 0.002, 0.718)
								, ,
	a 'tired'		\t		(			
	<sup>b</sup> 8 point; mean and its dispersion (as	sumed to be SEIV	) extra	ctea	rrom grapn			
Comments	3 patients had undergone a modif	ied radical mast	ector	ny a	nd 12 breast conserving su	irgery; 10	0/15 had pain in both ipsil	lateral arm and breast scar region,
								ostoperative radiotherapy and the
	other had 2 unsuccessful breast r	epair operations	but d	lid n	ot have postoperative radio	otherapy	); 5/13 of those with ipsila	ateral pain had postoperative
	radiotherapy; none had chemothe							
	treatment these patients were rec	eiving at the tim	e of w	ithd	rawal; unclear if patient wh	o withdr	ew from the placebo arm	was included in the efficacy
	results; it apepars that the results							
	only the results for 100 mg/d per of							
	consequently, these results are like							<b>3</b> , 1
5 6 6	victions are given at the and of this	, ,						

Study	Kautio et al. (2008)
Pain category	Peripheral pain
Study design	Country: Finland Design: Parallel Inclusion criteria: Cancer and chemotherapy induced neuropathic pain of at least 3 on the NRS 11 point scale Exclusion criteria: neurological disease confusing assessment of symptoms or other possible causes of neuropathy, concomitant medication inhibiting

	norepinephrine uptake, contraind	ications for amit	riptyline (ie	e. Urinary he	esitation), pregnancy or lac	ating womer	1							
	Study length (days): 56													
	Intention-to-treat analysis? No													
Participants	Total number of patients: 42													
	Number of males: 12 (28.6%)													
	Underlying cause of neuropathic pain: Chemotherapy-induced pain													
	Mean duration of NP (in months)	•												
	Baseline pain severity: not reported (not reported)													
	Mean age: 54													
Intervention(s)	(1) Amitriptyline up to 50mg/d (m	ost patients)												
	Intervention: amitriptyline													
		Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose												
	Range: 10–50													
	Notes: 10 mg/d to start, then increased by 10 mg per week until 50 mg/d if tolerated (dose was reduced 10-25 mg; 15 of 17 patients tolerated the 50													
	mg/d while 1 reduced from 30 to 10 mg because of tiredness and antoehr from 50 to 25 mg because of tachycardia)													
	(2) Placebo													
	Intervention: placebo Length of treatment (weeks): 8													
	Fixed/flexible dose regimen: Fixe	d dose												
Concomitant	Drug free baseline period? No													
treatments	Concomitant pain treatment allowed? Unclear (only information about concomitant medications was that those inhibiting norepinephrine uptake were r													
	allowed (not clear about other pain medications))													
Outcomes			AMITRIP	TYLINE UP 1	O 50MG/D (MOST PATIENT	S) PLA	СЕВО							
measures and effect sizes			N	k	mean	N	k mean	Δ						
	major adverse events													
	(defined as leading to withdrawal):			_	()									
	any major adverse event – 56d <sup>a</sup> treatment withdrawal:	Dichotomous	17	0	(0.0%)	16	3 (18.8%)	OR=0.110 (CI: 0.005, 2.320)						
	unspecified/other reason – 56d	Dichotomous	22	2	(9.1%)		2 (9.1%)	OR=1.000 (CI: 0.128, 7.812)						
	poor compliance – 56d	Dichotomous	22	1	(4.5%)	22	1 (4.5%)	OR=1.000 (CI: 0.059, 17.065)						
	a details of adverse events not repor	ed												
Comments	2 additional patients withdrew after randomisation but it was not clear what group they were in - one died (details unspecified) and another withdrew consent before receiving treatment; as a result, denominators used in safety analyses were numbers randomised; study also reported global													
	improvement on a 5-point VRS b													
	consequently, this was not extract			mpare une	mai alo otroi studios Willoi	i reported git	zai iiipiov	omont on a point soules -						

Study	Khoromi et al. (2005)
Pain category	Peripheral pain
Study design	Design: Crossover Inclusion criteria: age 18-75, evidence of lumbar radiculopathy on the basis of pain in one or both buttocks or legs for at least 3 months for at least 5 days per week and at least one of the following: sharp & shooting pain below the knee, pain evoked by straight leg raising to 60 degrees or less, decreased/absent ankle reflex, weakness of muscles below knee, sensory loss in L4/S1 distribution, electromyographic evidence of L4, L5, or S1 root denervation, imaging evidence of nerve root compression in the lower lumbar region  Exclusion criteria: hetaptic and renal dysfunction, pregnancy or lactation, seizure disorder, pain of greater intensity in any other location than the low back or leg, narcotic abuse and/or drug or alcohol abuse in past yeawr, fibromyalgia as defined by American College of Rheumatcology criteria, polyneuropathy and peripheral vascular disease, history of neprolithiasis, narrow angle glaucoma  Study length (days): 98  Intention-to-treat analysis? No
Participants	Total number of patients: 42 Number of males: 23 (54.8%) Underlying cause of neuropathic pain: Radiculopathy Mean duration of NP (in months): 75 Baseline pain severity: 4.04 (NRS leg pain (duration of pain and age is average of median ages for the 29 completers and 14 drop outs)) Mean age: 56.75
Intervention(s)	(1) Topiramate 50-400 mg Intervention: topiramate Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Range: 50–400 Notes: dosages started at 50 mg in 2 divided dosages the first week and increased by increments of 50 mg in each dosage during weeks 3 and 4 up to a maximum of 400 mg (2) Active placebo (diphenhydramine 6.25-50mg) Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Range: 6.25–50 Notes: diphenhydramine was used as active placebo because of its side effects (mainly sedation and anticholinergic effects which overlap with those of topiramate); it was started at 6.25mg twice per day in week 1 and then increased by 6.25 mg increments in each dose during week 1 and 2 and then 12.5 mg in week 3 to a maximum of to 50 mg/day in 2 divided dosages; any side effects that were untolerable or interfered with patient's activities resulted in a decrease to the prior dosage
Concomitant treatments	Drug free baseline period? Unclear  Concomitant pain treatment allowed? Yes (many patients were taking NSAIDs at baseline, 11 were taking opioids, 11 anti-depressants but none were taking anti-convulsants at baseline; it is assumed patients continued on these during the study as it was not stated otherwise)

Outcomes measures and			TOF MG	PIRAMA	ATE 50-400	ACTIVI 50MG)	E PLACEBO (	DIPHENHYDRAMINE 6.25-				
effect sizes			N	k	mean	N	k	mean	Δ			
	pain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous	29		4.63	29		4.63				
	NRS/NRS Pain – 42d <sup>a</sup> major adverse events	Continuous	29		4.3	29		5.12	MD=-0.820			
	(defined as leading to withdrawal):  any major adverse event – 42d	Dichotomous	41	10	(24.4%)	41	1 <sup>b</sup>	(2.4%)	OR=12.903 (CI: 1.567, 106.264)			
	adverse events:  any adverse event – 42d <sup>c</sup>	Dichotomous	41	36	(87.8%)	41	30	(73.2%)	OR=2.640 (CI: 0.825, 8.446)			
	Blurred vision – 42d	Dichotomous	41	1°	(2.4%)	41	0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	Constipation – 42d	Dichotomous	41	3 <sup>b</sup>	(7.3%)	41	0	(0.0%)	OR=7.545 (CI: 0.377, 150.869)			
	decreased libido – 42d	Dichotomous	41	ა 1°	` ,	41	0	,	,			
				3 <sup>b</sup>	(2.4%)		0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	depression – 42d	Dichotomous	41		(7.3%)	41		(0.0%)	OR=7.545 (CI: 0.377, 150.869)			
	Diarrhoea – 42d <sup>c</sup>	Dichotomous Dichotomous	41 41	13 14 <sup>d</sup>	(31.7%)	41	4 13 <sup>e</sup>	(9.8%)	OR=4.295 (CI: 1.264, 14.597)			
	Fatigue – 42d				(34.1%)	41		(31.7%)	OR=1.117 (CI: 0.444, 2.807)			
	headache – 42d <sup>c</sup>	Dichotomous	41	4	(9.8%)	41	4	(9.8%)	OR=1.000 (CI: 0.232, 4.301)			
	oedema – 42d	Dichotomous	41	1°	(2.4%)	41	0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	0 1 1 10 10	D: 1 .			(0.4.40()			(0.40()	OR=20.741 (CI: 2.574,			
	Sedation – 42d <sup>c</sup>	Dichotomous	41	14	(34.1%)	41	1	(2.4%)	167.128)			
	slurred speech – 42d	Dichotomous	41	1°	(2.4%)	41	0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	thirsty/dehydrated – 42d	Dichotomous	41	1°	(2.4%)	41	0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	tremor – 42d	Dichotomous	41	0	(0.0%)	41	1 <sup>c</sup>	(2.4%)	OR=0.325 (CI: 0.013, 8.221)			
	urination difficulties – 42d	Dichotomous	41	1 <sup>c</sup>	(2.4%)	41	0	(0.0%)	OR=3.074 (CI: 0.122, 77.692)			
	leg pain											
	pain score:											
	NRS/NRS Pain – 0d	Continuous	29		4.04	29		4.04				
	NRS/NRS Pain – 42d	Continuous	29		3.06	29		3.8	MD=-0.740			
		Continuous	20		3.00	23		3.0	WD= 0.740			
	back pain											
	pain score:											
	NRS/NRS Pain – 0d	Continuous	29		4.69	29		4.69				
	NRS/NRS Pain – 42d	Continuous	29		3.33	29		4.2	MD=-0.870			
	a average overall b estimated from percentages c approximated to nearest integer (percentages only presented in text) d reported as 'fatigue/weakness'; approximated to nearest integer (percentages only presented in text) e reported as 'fatigue/weakness'; estimated from percentages											
Comments	there was a 2-week taper perio to be similar to the study by the 2-week baseline period but it is at baseline, 11 were taking opio because of ECG showing incide	same authors not clear if thi pids, 11 anti-de	s, Kho s was epres	oromi 2 s a dru sants l	2007, which v g-free period but none wer	vas 4 days ; 1 patient e taking a	s); no signification of the sign of the si	ant period or carry-over effect prior to randomisation; manuts; an additional patient drop	y patients were taking NSAIDs oped out after screening			

Study	Khoromi et al. (2007)
Pain category	Peripheral pain
Study design	Design: Crossover Inclusion criteria: 18-65 years old with lumbar radiculopathy including pain in one or both buttocks or legs for 3 months or greater for at least 5 days a week (and at least one of the following features: sharp and shooting pain below the knee, pain evoked by straight leg raising to 60 degrees or less, decreased or absent ankle reflex, weakness of msucles below the knee, sensory loss of L5/S1 distribution, electromyographic evidence for L4, L5, or S1 root denervation, imaging evidence of nerve root compression in the lower lumbar region, average pain of at least 4 on a NRS (11-point)  Exclusion criteria: serious medical illness involving other organ systems including diabetes, cancer, prostatic disease requiring urological medications, pregnancy or lactation, history of depression requiring antidepressants within 6 months before study or score of 20 or more on the Beck Depression Inventory, history of narcotic or alcohol abuse, narrow angle glaucoma, seizure disorder, fibromyalgia, pain of greater intensity in any other location than the low back or leg, polyneuropathy or peripheral vascular disease associated with numbness or burning pain in lower extremities, allergy to study drugs, evidence of multisomatoform disorder as assessed by 15-item questionnaire (PHQ-15), unwillingness to be tapered off opioids and then maintained drug-free for 2 weeks prior to randomisation to study medication  Study length (days): 266
Participants	Intention-to-treat analysis? Yes  Total number of patients: 55  Number of males: 30 (54.5%)  Underlying cause of neuropathic pain: Radiculopathy  Mean duration of NP (in months): 60  Baseline pain severity: 4.5 (NRS (baseline data of 28 patients who completed the trial)  (age and duration of pain is median))  Mean age: 53
Intervention(s)	(1) Morphine (15-90 mg) Intervention: morphine Length of treatment (weeks): 7 Fixed/flexible dose regimen: Flexible dose Mean dose: 62mg/d Range: 15–90 Notes: 5 weeks dose escalation, 2 weeks maintenance at highest tolerated dosages, 2 weeks dose tapering (2) Nortriptyline (25-100 mg) Intervention: nortriptyline Length of treatment (weeks): 7 Fixed/flexible dose regimen: Flexible dose Mean dose: 84mg/d Range: 25–100 Notes: 5 weeks dose escalation, 2 weeks maintenance at highest tolerated dosages, 2 weeks dose tapering (3) Morphine + nortriptyline
	Intervention: nortriptyline+morphine Length of treatment (weeks): 7

	Fixed/flexible dose regimen: Flexibl Notes: 5 weeks dose escalation, 2 and morphine was 49 mg/day (max	weeks maintena							ortriptyline dosage was 55 mg/day
	(4) Active placebo (benztropine)								
	Intervention: placebo Length of treatment (weeks): 9 Fixed/flexible dose regimen: Flexibl Notes: benztrophine 0.25-1 mg (use tolerated dosages, 2 weeks dose ta	ed to cause side	effects	s lik	e ddry mouth an	ıd mild (	constip	ation to mimic both drugs)	);2 weeks maintenance at highest
Concomitant	Drug free baseline period? Yes (du	ration: 14d)							
treatments	Concomitant pain treatment allowed	d? Yes (patients	and ace	etaı	minophen were a	allowed	as res	cue analgesics up to 6 tab	eek drug-free period, SSRIs or blets per day (were not able to make
Outcomes			MOR	PH	INE (15-90 MG)	ACTI	IVE PL	ACEBO (BENZTROPINE)	
measures and effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	NRS/NRS Pain – 0d <sup>a</sup>	Continuous	28		5 (SD 2.25)	28		5 (SD 2.25)	
	NRS/NRS Pain – 42d <sup>a</sup>	Continuous	28		3.8 (SD 2.5)	28		3.9 (SD 2.4)	MD=-0.100 (CI: -1.384, 1.184)
	patient-reported improvement in								
	daily physical and emotional								
	functioning, including sleep:	0 "	00		0 (00 0 7)			0 (00 0 7)	
	BDI – 0d <sup>b</sup> BDI – 42d <sup>b</sup>	Continuous Continuous	28 28		8 (SD 6.7)	28 28		8 (SD 6.7) 9 (SD 8.5)	MD=0.600 (CI: -3.852, 5.052)
	maior adverse events	Continuous	20		9.6 (SD 8.5)	20		9 (3D 6.5)	MD=0.600 (Ci3.652, 5.052)
	(defined as leading to withdrawal):								
	any major adverse event – 42d	Dichotomous	55	5 <sup>c</sup>	(9.1%)	55	1 <sup>d</sup>	(1.8%)	OR=5.400 (CI: 0.610, 47.828)
	adverse events:				( /			(,	( , ,
	abdominal pain – 42d	Dichotomous	55	1 <sup>e</sup>	(1.8%)	55	0	(0.0%)	OR=3.055 (CI: 0.122, 76.643)
	any adverse event – 42d <sup>f</sup>	Dichotomous	55		(47.3%)	55	14	(25.5%)	OR=2.626 (CI: 1.174, 5.874)
	Blurred vision – 42d <sup>r</sup>	Dichotomous	55		(3.6%)	55	3	(5.5%)	OR=0.654 (CI: 0.105, 4.076)
	Constipation – 42d <sup>r</sup>	Dichotomous	55		(32.7%)	55	2	(3.6%)	OR=12.892 (CI: 2.820, 58.946)
	Dizziness – 42d	Dichotomous	55		(7.3%)	55	1 <sup>e</sup> 1 <sup>e</sup>	(1.8%)	OR=4.235 (CI: 0.458, 39.171)
	Drowsiness – 42d Dry mouth – 42d <sup>e</sup>	Dichotomous	55 55		(12.7%)	55 55	6	(1.8%)	OR=7.875 (CI: 0.935, 66.337)
	Fatique – 42d	Dichotomous Dichotomous	55		(10.9%) (3.6%)	55 55	5	(10.9%) (9.1%)	OR=1.000 (CI: 0.302, 3.316) OR=0.377 (CI: 0.070, 2.034)
	headache – 42d	Dichotomous	55		(7.3%)	55	4	(7.3%)	OR=1.000 (CI: 0.237, 4.217)
	heartburn – 42d <sup>e</sup>	Dichotomous	55		(1.8%)	55	1	(1.8%)	OR=1.000 (CI: 0.061, 16.401)
	loss of appetite – 42d	Dichotomous	55		(3.6%)	55	0'	(0.0%)	OR=5.187 (CI: 0.243, 110.569)
	Nausea – 42d	Dichotomous	55	$2^{t}$	(3.6%)	55	Ö	(0.0%)	OR=5.187 (CI: 0.243, 110.569)
	Sexual dysfunction – 42d	Dichotomous	55		(5.5%)	55	0	(0.0%)	OR=7.400 (CI: 0.373, 146.730)
	sleep disturbance – 42d	Dichotomous	55		(3.6%)	55	0 <sup>k</sup>	(0.0%)	OR=5.187 (CI: 0.243, 110.569)
	thirsty/dehydrated – 42d	Dichotomous	55		(0.0%)	55	0	(0.0%)	OR=1.000 (CI: 0.019, 51.293)
	urination difficulties – 42d	Dichotomous	55		(1.8%)	55	0	(0.0%)	OR=3.055 (CI: 0.122, 76.643)
	weakness – 42d	Dichotomous	55	-	(0.0%)	55	2 <sup>f</sup>	(3.6%)	OR=0.193 (CI: 0.009, 4.110)
	Weight gain – 42d	Dichotomous	55	U	(0.0%)	55	0	(0.0%)	OR=1.000 (CI: 0.019, 51.293)
	overall improvement in quality of life: SF36 Physical – 0d	Continuous	28		48 (SD 26)	28		48 (SD 26)	

SF36 Physical – 42d	Continuous	28	56 (SD 27)	28		51.3 (SD 25.8)	MD=4.700 (CI: -9.132, 18.532)
SF36 general health – 0d	Continuous	28	68 (SD 20)	28		68 (SD 20)	ND 0000 (0) 1000 (0)
SF36 general health – 42d	Continuous	28	61 (SD 23)	28		61 (SD 23)	MD=0.000 (CI: -12.048, 12.048)
SF36 mental health – 0d	Continuous	28	74 (SD 16)	28		74 (SD 16)	
SF36 mental health – 42d	Continuous	28	68 (SD 21)	28		69 (SD 24)	MD=-1.000 (CI: -12.812, 10.812)
treatment withdrawal:							
due to lack of efficacy – 42d	Dichotomous	55 0 <sub>,</sub>	(0.0%)	55	3_	(5.5%)	OR=0.135 (CI: 0.007, 2.680)
unspecified/other reason – 42d	Dichotomous	55 4 <sup>'</sup>	(7.3%)	55	4 <sup>m</sup>	(7.3%)	OR=1.000 (CI: 0.237, 4.217)
poor compliance – 42d	Dichotomous	55 0	(0.0%)	55	1	(1.8%)	OR=0.327 (CI: 0.013, 8.212)
leg pain							
pain score:							
NRS/NRS Pain – 0d <sup>n</sup>	Continuous	28	4.9 (SD 2.43)	28		4.9 (SD 2.43)	
NRS/NRS Pain – 42d <sup>n</sup>	Continuous	28	3.4 (SD 2.8)	28		3.7 (SD 2.7)	MD=-0.300 (CI: -1.741, 1.141)
back pain							
pain score:							
NRS/NRS Pain – 0d <sup>n</sup>	Continuous	28	4.5 (SD 2.4)	28		4.5 (SD 2.4)	
NRS/NRS Pain – 42d <sup>n</sup>	Continuous	28	3.4 (SD 2.5)	28		3.8 (SD 2.5)	MD=-0.400 (CI: -1.710, 0.910)
			. ,			, ,	. , ,

<sup>&</sup>quot; type of dispersion not stated, but appears to be standard deviation

		NORTRIPTYLINE (25-100 MG)				IVE PL	ACEBO (BENZTROPINE)	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d <sup>a</sup>	Continuous	28		5 (SD 2.25)	28		5 (SD 2.25)	
NRS/NRS Pain – 42d <sup>a</sup>	Continuous	28		3.2 (SD 2.4)	28		3.9 (SD 2.4)	MD=-0.700 (CI: -1.957, 0.557)
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
$BDI - 0d^b$	Continuous	28		8 (SD 6.7)	28		8 (SD 6.7)	
BDI – 42d <sup>b</sup>	Continuous	28		7.3 (SD 7.1)	28		9 (SD 8.5)	MD=-1.700 (CI: -5.802, 2.402)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 42d <sup>c</sup>	Dichotomous	55	2	(3.6%)	55	1	(1.8%)	OR=2.038 (CI: 0.179, 23.151)
adverse events:								
abdominal pain – 42d	Dichotomous	55	1 <sup>d</sup>	(1.8%)	55	0	(0.0%)	OR=3.055 (CI: 0.122, 76.643)
any adverse event – 42d <sup>e</sup>	Dichotomous	55	19	(34.5%)	55	14	(25.5%)	OR=1.546 (CI: 0.679, 3.519)
Blurred vision – 42d	Dichotomous	55	0	(0.0%)	55	3 <sup>e</sup>	(5.5%)	OR=0.135 (CI: 0.007, 2.680)

a overall pain; type of dispersion not stated, but appears to be standard deviation
 b it was unclear how many patients were included in this outcome
 c 2 sedation, 1 rash, 1 severe dry mouth, and 1 nausea, vomiting and severe constipation

d sedation

approximated to nearest integer (percentages only presented in text)

estimated from percentages

g tired/fatigue; estimated from percentages decreased appetite; estimated from percentages

decreased appetite

insomnia; estimated from percentages

insomnia

<sup>3</sup> moved away and 1 withdrew for personal reasons

<sup>&</sup>lt;sup>m</sup> 3 moved away and 1 because of unrelated surgery

Constipation – 42d <sup>e</sup>	Dichotomous	55	7	(12.7%)	55	2	(3.6%)	OR=3.865 (CI: 0.765, 19.514)
Dizziness – 42d	Dichotomous	55	2 <sup>e</sup>	(3.6%)	55	1 <sup>d</sup>	(1.8%)	OR=2.038 (CI: 0.179, 23.151)
Drowsiness – 42d	Dichotomous	55	2 <sup>e</sup>	(3.6%)	55	1 <sup>d</sup>	(1.8%)	OR=2.038 (CI: 0.179, 23.151)
Dry mouth – 42d	Dichotomous	55	10 <sup>e</sup>	(18.2%)	55	6 <sup>d</sup>	(10.9%)	OR=1.815 (CI: 0.610, 5.398)
Fatigue – 42d <sup>f</sup>	Dichotomous	55	3	(5.5%)	55	5	(9.1%)	OR=0.577 (CI: 0.131, 2.542)
headache – 42d <sup>e</sup>	Dichotomous	55	2	(3.6%)	55	4	(7.3%)	OR=0.481 (CI: 0.084, 2.742)
heartburn – 42d	Dichotomous	55	2 <sup>e</sup>	(3.6%)	55	1 <sup>d</sup>	(1.8%)	OR=2.038 (CI: 0.179, 23.151)
loss of appetite – 42d <sup>g</sup>	Dichotomous	55	0	(0.0%)	55	0	(0.0%)	OR=1.000 (CI: 0.019, 51.293)
Nausea – 42d	Dichotomous	55	0	(0.0%)	55	0	(0.0%)	OR=1.000 (CI: 0.019, 51.293)
Sexual dysfunction – 42d	Dichotomous	55	0	(0.0%)	55	0	(0.0%)	OR=1.000 (CI: 0.019, 51.293)
sleep disturbance – 42d	Dichotomous	55	$3^h$	(5.5%)	55	$0^{i}$	(0.0%)	OR=7.400 (CI: 0.373, 146.730)
thirsty/dehydrated – 42d	Dichotomous	55	2 <sup>e</sup>	(3.6%)	55	0	(0.0%)	OR=5.187 (CI: 0.243, 110.569)
urination difficulties – 42d	Dichotomous	55	1 <sup>d</sup>	(1.8%)	55	0	(0.0%)	OR=3.055 (CI: 0.122, 76.643)
weakness – 42d	Dichotomous	55	0	(0.0%)	55	2 <sup>e</sup>	(3.6%)	OR=0.193 (CI: 0.009, 4.110)
Weight gain – 42d	Dichotomous	55	2 <sup>e</sup>	(3.6%)	55	0	(0.0%)	OR=5.187 (CI: 0.243, 110.569)
overall improvement in quality of life:								
SF36 Physical – 0d	Continuous	28		48 (SD 26)	28		48 (SD 26)	
SF36 Physical – 42d	Continuous	28		64 (SD 27)	28		51.3 (SD 25.8)	MD=12.700 (CI: -1.132, 26.532)
SF36 general health – 0d	Continuous	28		68 (SD 21)	28		68 (SD 20)	
SF36 general health – 42d	Continuous	28		67 (SD 21)	28		61 (SD 23)	MD=6.000 (CI: -5.536, 17.536)
SF36 mental health – 0d	Continuous	28		74 (SD 16)	28		74 (SD 16)	
SF36 mental health – 42d	Continuous	28		79 (SD 16)	28		69 (SD 24)	MD=10.000 (CI: -0.684, 20.684)
treatment withdrawal:								
due to lack of efficacy - 42d	Dichotomous	55	0	(0.0%)	55	3	(5.5%)	OR=0.135 (CI: 0.007, 2.680)
unspecified/other reason – 42d	Dichotomous	55	1 <sup><i>j</i></sup>	(1.8%)	55	4 <sup>k</sup>	(7.3%)	OR=0.236 (CI: 0.026, 2.184)
poor compliance – 42d	Dichotomous	55	0	(0.0%)	55	1	(1.8%)	OR=0.327 (CI: 0.013, 8.212)
leg pain								
pain score:								
NRS/NRS Pain – 0d <sup>1</sup>	Continuous	28		4.9 (SD 2.43)	28		4.9 (SD 2.43)	
NRS/NRS Pain – 42d'	Continuous	28		3 (SD 2.7)	28		3.7 (SD 2.7)	MD=-0.700 (CI: -2.114, 0.714)
back pain								
pain score:								
NRS/NRS Pain – 0d <sup>/</sup>	Continuous	28		4.5 (SD 2.4)	28		4.5 (SD 2.4)	
NRS/NRS Pain – 42d <sup>/</sup>	Continuous	28		2.9 (SD 2.4)	28		3.8 (SD 2.5)	MD=-0.900 (CI: -2.184, 0.384)

unrelated medical problem
3 moved away and 1 because of unrelated surgery
type of dispersion not stated, but appears to be standard deviation

M	IORPHI	INE +	NORTRIPTYLINE	ACTI	VE PLA	ACEBO (BENZTROPINE)	
N	l k		mean	N	k	mean	Δ

approximated to nearest integer (percentages only presented in text)
approximated from percentages
estimated from percentages
tired/fatigue; estimated from percentages
decreased appetite
h insomnia; estimated from percentages

insomnia

Patient-reported improvement in daily physical and emotional functioning, including sleep:   BDI - 42d°   Continuous   28    8 (SD 6.7)   28    9 (SD 8.5)   MD=-3.000 (CI: -6.653, major adverse events (defined as leading to withdrawal):   any major adverse event - 42d   Dichotomous   55    4° (7.3%)   55    1° (1.8%)   OR=4.235 (CI: 0.458, 3 adverse events:   abdominal pain - 42d   Dichotomous   55    2° (3.6%)   55    14 (25.5%)   OR=2.440 (CI: 0.092, 3 any adverse event: - 42d°   Dichotomous   55    2° (45.5%)   55    14 (25.5%)   OR=2.440 (CI: 0.092, 5 any adverse event: - 42d°   Dichotomous   55    2° (36.4%)   55    3° (5.5%)   OR=2.440 (CI: 0.092, 5 any adverse event: - 42d°   Dichotomous   55    2° (36.4%)   55    3° (5.5%)   OR=0.321 (CI: 0.032, 3 any adverse event: - 42d°   Dichotomous   55    2° (36.4%)   55    3° (5.5%)   OR=0.321 (CI: 0.032, 3 any adverse event: - 42d°   Dichotomous   55    2° (36.4%)   55    5° (36.4%)   OR=1.434 (CI: 3.092, 5 any adverse event: - 42d°   Dichotomous   55    2° (36.4%)   55    5° (36.4%)   OR=0.321 (CI: 0.032, 3 any adverse event: - 42d°   Dichotomous   55    3° (5.5%)   55    1′ (1.8%)   OR=0.321 (CI: 0.032, 3 any adverse event: - 42d°   Dichotomous   55    3° (5.5%)   55    1′ (1.8%)   OR=1.000 (CI: 0.061, 1 any adverse event: - 42d°   Dichotomous   55    3° (5.5%)   55    1′ (1.8%)   OR=1.000 (CI: 0.061, 1 any adverse event: - 42d°   Dichotomous   55    3° (5.5%)   55    5° (1.9%)   OR=1.309 (CI: 0.488, 4 any adverse event: - 42d°   Dichotomous   55    4′ (7.3%)   55    5° (1.9%)   OR=1.309 (CI: 0.488, 4 any adverse event: - 42d°   Dichotomous   55    4′ (7.3%)   55    5° (1.9%)   OR=1.000 (CI: 0.033, 1 any adverse event: - 42d°   Dichotomous   55    4′ (7.3%)   55    5° (1.9%)   OR=0.0327 (CI: 0.013, 8 any adverse event: - 42d°   Dichotomous   55    1′ (1.8%)   55    5° (1.0%)   OR=0.0327 (CI: 0.013, 8 any adverse event: - 42d°   Dichotomous   55    1′ (1.8%)   55    0′ (0.0%)   OR=0.0327 (CI: 0.013, 8 any adverse event: - 42d°   Dichotomous   55    1′ (1.8%)	pain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous	28		5 (SD 2.25)	28		5 (SD 2.25)	
patient-reported improvement in daily physical and emotional functioning, including sleep:   BDI - of		Continuous	28		3.4 (SD 2.5)	28		3.9 (SD 2.4)	MD=-0.500 (CI: -1.784, 0
Tunctioning, including sleep:   BDI - 42d*									
BDI – 04" Continuous 28 8 (SD 6.7) 28 9 (SD 8.5) MD=3.000 (CI: -6.653. major adverse events (defined as leading to withdrawal): any major adverse events (defined as leading to withdrawal): any major adverse events: subdominal pain – 42d Dichotomous 55 4° (7.3%) 55 1" (1.8%) OR=4.235 (CI: 0.458, 2 any adverse events: subdominal pain – 42d Dichotomous 55 2° (3.6%) 55 0 (0.0%) OR=5.187 (CI: 0.243, 1 any adverse event – 42d* Dichotomous 55 1" (1.8%) 55 3" (5.5%) OR=2.440 (CI: 1.090.) Blurred vision – 42d* Dichotomous 55 1" (1.8%) 55 3" (5.5%) OR=0.221 (CI: 0.032, 2 Dizziness – 42d* Dichotomous 55 1" (1.8%) 55 2" (3.6%) 55 2" (3.6%) OR=1.316 (CI: 0.032, 2 Dizziness – 42d* Dichotomous 55 1" (1.8%) 55 2" (3.6%) OR=1.316 (CI: 0.032, 2 Dizziness – 42d* Dichotomous 55 3" (5.5%) OR=0.221 (CI: 0.032, 2 Dizziness – 42d* Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.115 (CI: 0.061, 1 Drowsiness – 42d* Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.115 (CI: 0.061, 1 Drowsiness – 42d* Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.115 (CI: 0.048, 4 Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.115 (CI: 0.048, 4 Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) mouth – 42d* Dichotomous 55 3" (5.5%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) mouth – 42d* Dichotomous 55 1" (1.8%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) Mouth – 42d* Dichotomous 55 1" (1.8%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) Mouth – 42d* Dichotomous 55 1" (1.8%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) Mouth – 42d* Dichotomous 55 1" (1.8%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 DI) Mouth – 42d* Dichotomous 55 1" (1.8%) 55 1" (1.8%) OR=0.177 (CI: 0.131, 2 Seated dysfunction – 42d* Dichotomous 55 1" (1.8%) 55 0" (0.0%) OR=0.3056 (CI: 0.122, 7 Seep disturbance – 42d* Dichotomous 55 1" (1.8%) 55 0" (0.0%) OR=0.3056 (CI: 0.122, 7 Seep disturbance – 42d* Dichotomous 55 1" (1.8%) 55 0" (0.0%) OR=0.3056 (CI: 0.122, 7 Seep disturbance – 42d* Dichotomous 55 0" (0.0%) 55 0" (0.0%) OR=0.3056 (CI: 0.122, 7 Seep disturbance – 42d* Dichotomous 55 0" (0.0%) 55 0" (0.0%) OR=0.406 (									
BDI -									
Major adverse events   (defined as leading to withdrawal):   any major adverse event + 42d   bichotomous   55   4"   (7.3%)   55   1"   (1.8%)   OR=4.235 (Cl: 0.458, 3   adverse events:   abdominal pain - 42d   Dichotomous   55   2"   (3.6%)   55   0   (0.0%)   OR=5.187 (Cl: 0.243, 1   any adverse event - 42d"   Dichotomous   55   2"   (1.8%)   55   3"   (5.5%)   OR=2.440 (Cl: 1.09, 5   Blurred vision - 42d   Dichotomous   55   1"   (1.8%)   55   3"   (5.5%)   OR=0.241 (Cl: 0.032, 3   OR=1.000 (Cl: 0.018, 2   OR=1									
(defined as leading to withdrawal): any major adverse event + 42d adverse events: abdominal pain + 42d Dichotomous 55 2° (3.6%) 55 0 (0.0%) OR=4.236 (Cl: 0.458, 3 adverse events: abdominal pain + 42d Dichotomous 55 2° (3.6%) 55 14 (25.5%) OR=2.440 (Cl: 1.090, 2 adverse event + 42d° Dichotomous 55 1° (1.8%) 55 3° (3.5%) OR=2.440 (Cl: 1.090, 2 adverse event + 42d° Dichotomous 55 1° (1.8%) 55 3° (3.5%) OR=0.241 (Cl: 0.032, 3 constipation + 42d Dichotomous 55 1° (1.8%) 55 2° (3.8%) OR=1.5143 (Cl: 3.29, 1.20 (3.6.4%) 55 2° (3.8%) OR=1.5143 (Cl: 3.29, 1.20 (2.20 (		Continuous	28		6 (SD 5)	28		9 (SD 8.5)	MD=-3.000 (CI: -6.653, 0
ary major adverse event - 42d adverse events: abdominal pain - 42d bichotomous 55 2° (3.6%) 55 0 (0.0%) 0R=4.235 (Cl: 0.456, 3 any adverse event - 42d° bichotomous 55 2° (45.5%) 55 0 (0.0%) 0R=5.187 (Cl: 0.243, 1 any adverse event - 42d° bichotomous 55 2° (45.5%) 55 1° (1.6%) 0R=2.35 (Cl: 0.109, 5 Blurred vision - 42d bichotomous 55 1° (1.8%) 55 3° (5.5%) 0R=0.321 (Cl: 0.032, 2 Dizziness - 42d° bichotomous 55 1° (1.8%) 55 3° (5.5%) 0R=0.321 (Cl: 0.032, 2 Dizziness - 42d° bichotomous 55 1° (1.8%) 55 1° (1.8%) 0R=1.000 (Cl: 0.061, 1 Drowsiness - 42d° bichotomous 55 3° (5.5%) 55 1° (1.8%) 0R=1.15 (Cl: 0.322, 2 Dizziness - 42d° bichotomous 55 3° (5.5%) 55 1° (1.8%) 0R=1.000 (Cl: 0.061, 1 Drowsiness - 42d° bichotomous 55 3° (5.5%) 55 6° (10.9%) 0R=0.315 (Cl: 0.348, 4 Dry mouth - 42d° bichotomous 55 8° (14.5%) 55 6° (10.9%) 0R=0.315 (Cl: 0.348, 4 Dry mouth - 42d° bichotomous 55 3° (5.5%) 55 5° (1.9%) 0R=0.577 (Cl: 0.122, 7 Abeadache - 42d° bichotomous 55 4° (7.3%) 55 4° (7.3%) 0R=0.577 (Cl: 0.122, 7 Abeadache - 42d° bichotomous 55 4° (7.3%) 55 4° (7.3%) 0R=0.577 (Cl: 0.122, 7 Nausea - 42d bichotomous 55 1° (1.8%) 55 0° (0.0%) 0R=0.000 (Cl: 0.237, 4 bearburn - 42d bichotomous 55 1° (1.8%) 55 0° (0.0%) 0R=0.000 (Cl: 0.237, 4 bearburn - 42d bichotomous 55 1° (1.8%) 55 0° (0.0%) 0R=0.000 (Cl: 0.122, 7 Sexual dysfunction - 42d bichotomous 55 1° (1.8%) 55 0° (0.0%) 0R=0.000 (Cl: 0.122, 7 Sexual dysfunction - 42d bichotomous 55 1° (1.8%) 55 0° (0.0%) 0R=0.000 (Cl: 0.122, 7 thirsty/dehydrated - 42d bichotomous 55 3° (5.5%) 55 0° (0.0%) 0R=0.000 (Cl: 0.122, 7 thirsty/dehydrated - 42d bichotomous 55 3° (5.5%) 55 0° (0.0%) 0R=0.000 (Cl: 0.122, 7 thirsty/dehydrated - 42d bichotomous 55 3° (5.5%) 55 0° (0.0%) 0R=0.000 (Cl: 0.1019, 50 000 (Cl: 0.1019, 50 0									
adverse events: abdominal pain = 42d		5		4.0	( <b>-</b> 224)		. d	(4.004)	00 400 (0) 0 400 00
abdominal pain – 42d" Dichotomous 55 2° (3.6%) 55 0 (0.0%) OR=5.187 (CI: 0.243, any adverse event – 42d" Dichotomous 55 2° (45.5%) 55 14 (25.5%) OR=2.440 (CI: 1.990, 5 14 (25.5%) OR=2.440 (CI: 1.990, 5 14 (25.5%) OR=0.321 (CI: 0.190, 5 14 (25.5		Dichotomous	55	4	(7.3%)	55	1-	(1.8%)	OR=4.235 (CI: 0.458, 39
any adverse event - 42d"   Dichotomous 55		Diahatamana		oe	(0.00/)		0	(0.00()	OD 5 407 (OL 0 040 44
Blurred vision = 42d   Dichotomous   55   1'   (1.8%)   55   3"   (5.5%)   OR=0.321   (Ci. 0.032.3   Ozostspata) = 42d   Dichotomous   55   2"   (3.6.4%)   55   2"   (3.6%)   OR=1.000   (Ci. 0.081.1   Ozostspata)   Ozostspata   Ozostspat					'	55			
Dichotomous   55   20'   (36.4%)   55   20'   (36.8%)   OR=10.00 (Cis. 0.061, 1.0			55	25	,	55	14		
Dizziness - 42d					\ /	55	ა <sup>-</sup>		
Drowsiness = 42d				-		55			
Dicy mouth - 42d'					\ /				
Faigue - 42d°						55			
headache - 42d"									
heartburn - 42d					'	55			
loss of appetite - 42d					\ /	55			
Nausea - 42d					` '				,
Sexual dysfunction - 42d						55			OR=3.055 (CI: 0.122, 76
Sleep disturbance - 42d									OR=3.055 (CI: 0.122, 76
thirsty/dehydrated – 42d Dichotomous 55 0 (0.0%) 55 0 (0.0%) OR=1.000 (CI: 0.019, 5 or (0.0%) OR=5.187 (CI: 0.243, 1 or (0.0%) OR=5.187 (CI: 0.043, 1 or (0.0%) OR=5.187 (CI: 0.019, 5 or (0.0%) OR=5.187 (CI: 0.081, 5 or (0.0%) OR=5.		Dichotomous				55			OR=3.055 (CI: 0.122, 76
urination difficulties – 42d         Dichotomous         55         2°         (3.6%)         55         0         (0.0%)         OR=5.187 (CI: 0.243, 1 oR=1.000 (CI: 0.136, 7 oR=1	•	Dichotomous			(5.5%)				OR=7.400 (CI: 0.373, 14
weakness = 42d°		Dichotomous	55			55	-		OR=1.000 (CI: 0.019, 51
Weight gain – 42d         Dichotomous         55         0         (0.0%)         55         0         (0.0%)         OR=1.000 (CI: 0.019, 5)         55         0         0         0         0         6         SD 26         SP 36 Physical – 42d         Continuous         28         68 (SD 20)         28         61 (SD 23)         MD=5.000 (CI: -6.290, SP 36)         MD=5.000 (CI: -6.2		Dichotomous			(3.6%)			(0.0%)	OR=5.187 (CI: 0.243, 11
Weight gain – 42d	weakness – 42d <sup>e</sup>	Dichotomous	55	2	(3.6%)		2	(3.6%)	OR=1.000 (CI: 0.136, 7.3
overall improvement in quality of life:	Weight gain – 42d	Dichotomous	55	0	(0.0%)			(0.0%)	OR=1.000 (CI: 0.019, 51
SF36 Physical - 0d	overall improvement in quality of life:				• •			. ,	•
SF36 Physical – 42d Continuous 28 59 (SD 27) 28 51.3 (SD 25.8) MD=7.700 (CI: -6.132, SF36 general health – 0d Continuous 28 68 (SD 20) 28 68 (SD 20) SF36 general health – 42d Continuous 28 66 (SD 20) 28 61 (SD 23) MD=5.000 (CI: -6.290, SF36 mental health – 0d Continuous 28 74 (SD 16) 28 74 (SD 16) SF36 mental health – 42d Continuous 28 76 (SD 16) 28 69 (SD 24) MD=7.000 (CI: -3.684, treatment withdrawal:  due to lack of efficacy – 42d Dichotomous 55 0 (0.0%) 55 3 (5.5%) OR=0.135 (CI: 0.007, 2 unspecified/other reason – 42d Dichotomous 55 0 (0.0%) 55 1 (1.8%) OR=0.481 (CI: 0.084, 2 poor compliance – 42d Dichotomous 55 0 (0.0%) 55 1 (1.8%) OR=0.327 (CI: 0.013, 8 leg pain pain score:  NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.9 (SD 2.43) 28 4.9 (SD 2.43) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.4 (SD 2.5) 28 3.7 (SD 2.7) MD=-0.300 (CI: -1.663, back pain pain score:  NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.5 (SD 2.4) 28 4.5 (SD 2.4) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4) 28 3.8 (SD 2.5) MD=-0.600 (CI: -1.884, and and and an analysis of the standard deviation		Continuous	28		48 (SD 26)	28		48 (SD 26)	
SF36 general health – 0d	SF36 Physical – 42d				59 (SD 27)				MD=7.700 (CI: -6.132, 2
SF36 general health – 42d									,
SF36 mental health – 0d									MD=5.000 (CI: -6.290, 1
SF36 mental health – 42d									,
treatment withdrawal: due to lack of efficacy – 42d									MD=7.000 (CI: -3.684, 1
due to lack of efficacy – 42d       Dichotomous       55       0       (0.0%)       55       3       (5.5%)       OR=0.135 (CI: 0.007, 2 unspecified/other reason – 42d       Dichotomous       55       2¹       (3.6%)       55       4²²       (7.3%)       OR=0.481 (CI: 0.084, 2 one-42d       OR=0.327 (CI: 0.013, 8 one-42d       OR=0.3			-		-/	-		, ,	
unspecified/other reason – 42d       Dichotomous       55       2'       (3.6%)       55       4"       (7.3%)       OR=0.481 (CI: 0.084, 2 poor compliance – 42d         leg pain pain score:       NRS/NRS Pain – 0d"       Continuous       28       4.9 (SD 2.43)       28       4.9 (SD 2.43)         NRS/NRS Pain – 42d"       Continuous       28       4.9 (SD 2.43)       28       4.9 (SD 2.43)         NRS/NRS Pain – 42d"       Continuous       28       3.4 (SD 2.5)       28       3.7 (SD 2.7)       MD=-0.300 (CI: -1.663, poin – 0.00)         back pain pain score:       NRS/NRS Pain – 0d"       Continuous       28       4.5 (SD 2.4)       28       4.5 (SD 2.4)         NRS/NRS Pain – 42d"       Continuous       28       3.2 (SD 2.4)       28       3.8 (SD 2.5)       MD=-0.600 (CI: -1.884, poin – 0.600)		Dichotomous	55	0	(0.0%)	55	3	(5.5%)	OR=0.135 (CI: 0.007, 2.0
poor compliance - 42d   Dichotomous   55   0   (0.0%)     55   1   (1.8%)   OR=0.327 (CI: 0.013, 8						55	4 <sup>m</sup>		
leg pain         pain score:       NRS/NRS Pain – 0d <sup>n</sup> Continuous       28       4.9 (SD 2.43)       28       4.9 (SD 2.43)         NRS/NRS Pain – 42d <sup>n</sup> Continuous       28       3.4 (SD 2.5)       28       3.7 (SD 2.7)       MD=-0.300 (CI: -1.663,         back pain       pain score:       NRS/NRS Pain – 0d <sup>n</sup> Continuous       28       4.5 (SD 2.4)       28       4.5 (SD 2.4)         NRS/NRS Pain – 42d <sup>n</sup> Continuous       28       3.2 (SD 2.4)       28       3.8 (SD 2.5)       MD=-0.600 (CI: -1.884,									OR=0.327 (CI: 0.013, 8.2
pain score:  NRS/NRS Pain – 0d <sup>n</sup> NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 4.9 (SD 2.43)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.4 (SD 2.5)  Continuous 28 3.7 (SD 2.7)  MD=-0.300 (CI: -1.663, 3.7 (SD 2.7)  MD=-0.300 (CI: -1.663, 3.7 (SD 2.7)  MD=-0.300 (CI: -1.663, 3.7 (SD 2.7)  NRS/NRS Pain – 0d <sup>n</sup> NRS/NRS Pain – 0d <sup>n</sup> NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 4.5 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)					•			•	,
NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.9 (SD 2.43) 28 4.9 (SD 2.43) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.4 (SD 2.5) 28 3.7 (SD 2.7) MD=-0.300 (CI: -1.663, back pain pain score:  NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.5 (SD 2.4) 28 4.5 (SD 2.4) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4) 28 3.8 (SD 2.5) MD=-0.600 (CI: -1.884, overall pain; type of dispersion not stated, but appears to be standard deviation									
NRS/NRS Pain – 42d <sup>n</sup> Continuous       28       3.4 (SD 2.5)       28       3.7 (SD 2.7)       MD=-0.300 (CI: -1.663,         back pain pain score:       NRS/NRS Pain – 0d <sup>n</sup> Continuous       28       4.5 (SD 2.4)       28       4.5 (SD 2.4)         NRS/NRS Pain – 42d <sup>n</sup> Continuous       28       3.2 (SD 2.4)       28       3.8 (SD 2.5)       MD=-0.600 (CI: -1.884,         a overall pain; type of dispersion not stated, but appears to be standard deviation		Continuous	28		4 9 (SD 2 43)	28		4 9 (SD 2 43)	
back pain pain score: NRS/NRS Pain – 0d <sup>n</sup> NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 4.5 (SD 2.4) 28 4.5 (SD 2.4) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4) 28 3.8 (SD 2.5) MD=-0.600 (CI: -1.884,  a overall pain; type of dispersion not stated, but appears to be standard deviation									MD=-0 300 (CI: -1 663 1
pain score:  NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.5 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  28 4.5 (SD 2.4)  NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4)  a overall pain; type of dispersion not stated, but appears to be standard deviation		Continuous	20		J.+ (JD 2.J)	20		J.1 (JD Z.1)	MD=-0.300 (Cl1.603, 1
NRS/NRS Pain – 0d <sup>n</sup> Continuous 28 4.5 (SD 2.4) 28 4.5 (SD 2.4) NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4) 28 3.8 (SD 2.5) MD=-0.600 (CI: -1.884, overall pain; type of dispersion not stated, but appears to be standard deviation									
NRS/NRS Pain – 42d <sup>n</sup> Continuous 28 3.2 (SD 2.4) 28 3.8 (SD 2.5) MD=-0.600 (CI: -1.884, a overall pain; type of dispersion not stated, but appears to be standard deviation	l ·	Continuous	20		4.5.(SD 2.4)	20		4.5.(SD 2.4)	
a overall pain; type of dispersion not stated, but appears to be standard deviation									MD= 0.600 (CI: 1.994 (
<ul> <li>overall pain; type of dispersion not stated, but appears to be standard deviation</li> <li>it was unclear how many patients were included in this outcome</li> </ul>						28		J.0 (JD ∠.5)	IVID=-0.000 (CI: -1.884, (
<sup>b</sup> it was unclear how many patients were included in this outcome	a overall pain; type of dispersion not st	ated, but appears	s to be	standa	ard deviation				
	b it was unclear how many patients we	re included in this	s outco	me					

	c 2 sedation, 1 nausea and vomiting and 1 rash sedation e estimated from percentages f approximated to nearest integer (percentages only presented in text) g tired/fatigue; estimated from percentages h decreased appetite; approximated to nearest integer (percentages only presented in text) decreased appetite i insomnia; estimated from percentages i insomnia withdrawal for personal reasons m 3 moved away and 1 because of unrelated surgery type of dispersion not stated, but appears to be standard deviation
Comments	there was a 2-week taper period between dosages of which 4 days were drug-free but there was no significant period or carry-over effect; ITT analysis did not include patients with results from only one or no treatment arm; of 61 patients that underwent screening, 6 declined to participate before randomisation; global pain relief was reported on a 6-point scale but not extracted as it was not possible to combine with other pain scores or 7-point scales of patient-reported global impression of change

Study	Kieburtz et al. (1998)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel Inclusion criteria: Participants with HIV related neuropathy for at least 2 weeks and rating on the pain intensity scale as at least mild all the time or moderate for a total of 2 hours per day; stable dosage of dideoxynucleoside analogs for at least 8 weeks and cimeditidine for at least 2 weeks, serum liver function enzyme levles < 5 times the upper limit of normal  Exclusion criteria: diabetes, cardiac disease, seizure disorder, if pain was clearly attributed to a neuropathic drug, use of cardiac antiarrhythmic agents, tricyclics or tetracyclic antidepressants, >50% change in dosage per week of pain control medications a week before entry  Study length (days): 70 Intention-to-treat analysis? No
Participants	Total number of patients: 145 Number of males: 139 (95.9%) Underlying cause of neuropathic pain: HIV-related neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 1.075 (gracely scale (average of arm means)) Mean age: 41
Intervention(s)	(1) Amitriptyline up to 100mg/d Intervention: amitriptyline Length of treatment (weeks): 10 Fixed/flexible dose regimen: Flexible dose Range: 25–100

	Notes: 4 week titration starting at (2) Placebo Intervention: placebo Length of treatment (weeks): 10 Fixed/flexible dose regimen: Flex		0 mg p	er d	ay				
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allow	ved? Yes (opioid a	and no	n-op	ioid analgesics (excluding	tricyclic a	ntidepressants) were	allowed)	
Outcomes		(			TYLINE UP TO 100MG/D	PLAC			
measures and effect sizes			N	N k mean		N k	mean	- Δ	
	pain score: Gracely pain score – 28d <sup>a</sup> Gracely pain score – 56d <sup>a</sup> Gracely pain score – 70d Major adverse events (defined as leading to withdrawal):	Mean change Mean change	41 34 39 27 27 27 27 39 39 39 27 27 27 27 39 39		-0.235 (SD 0.093) -0.367 (SD 0.113) -0.31 (SD 0.31) -0.31 (SD 0.31) -0.31 (SD 0.31) -0.23 (SD 0.12) <sup>b</sup> -0.23 (SD 0.12) <sup>b</sup> -0.31 (SD 0.31) -0.31 (SD 0.31) -0.31 (SD 0.31) -0.23 (SD 0.12) <sup>b</sup> -0.23 (SD 0.12) -0.23 (SD 0.12)	44 38 43 43 43 43 25 25 43 25 25 43 43 25 25 43 43 25 25 43	-0.12 (SD 0.28) -0.235 (SD 0.095) -0.125 (SD 0.105) <sup>b</sup> -0.2 (SD 0.3) -0.125 (SD 0.105) <sup>b</sup> -0.2 (SD 0.3) -0.125 (SD 0.105) <sup>b</sup> -0.125 (SD 0.105) <sup>b</sup> -0.125 (SD 0.105) <sup>b</sup> -0.2 (SD 0.3) -0.2 (SD 0.3) -0.125 (SD 0.105) -0.125 (SD 0.105)	MD=-0.115 (CI: -0.202, -0.028) MD=-0.132 (CI: -0.181, -0.083) MD=-0.110 (CI: -0.242, 0.022) MD=-0.030 (CI: -0.130, 0.070) MD=-0.030 (CI: -0.130, 0.070) MD=-0.030 (CI: -0.130, 0.070) MD=-0.110 (CI: -0.242, 0.022) MD=-0.030 (CI: -0.130, 0.070) MD=-0.110 (CI: -0.242, 0.022) MD=-0.030 (CI: -0.130, 0.070) MD=-0.110 (CI: -0.242, 0.022) MD=-0.030 (CI: -0.130, 0.070) MD=-0.110 (CI: -0.242, 0.022) MD=-0.030 (CI: -0.130, 0.070)	
	toxicity – 70d treatment withdrawal: unspecified/other reason – 70d lost to follow-up – 70d	Dichotomous Dichotomous Dichotomous	46 46 46	3 8 2	(6.5%) (17.4%) (4.3%)	49 1 49 1 49 1	(2.0%) 0 (20.4%) (2.0%)	OR=3.349 (CI: 0.336, 33.411)  OR=0.821 (CI: 0.293, 2.303)  OR=2.182 (CI: 0.191, 24.909)	
	a estimated from graph estimated from graph; unclear why ITT? Not clear)	difference from that	reporte	ed in t	text at same time point (see a	bove) but	possibly to do with diff sa	ample size reported (maybe above was	
Comments	study includes a 3rd arm of mexil quality of life assessments but the								

Study	Kim et al. (2011)
Pain category	Central pain
Study design	Country: Asia-pacific

	Design: Parallel										
	Inclusion criteria: Patients with cent CPSP for more than 3 months and randomisation										
	Exclusion criteria: Patients were ex pregnant or lactating, if they had sk unstable psychological, medical or Study length (days): 91 Intention-to-treat analysis? Yes	in conditions in the aff	ected der					minated from the CPSP, if they were if they had cognitive impairement,			
Participants	Total number of patients: 219										
	Number of males: 137 (62.6%)										
	Underlying cause of neuropathic pain: Post-stroke pain										
	Mean duration of NP (in months): 28.2  Baseline pain severity: 6.4 (NRS (average of arm means); MPQ VAS average of means is 67.1)										
	Mean age: 58.25	verage or ann means,	), IVIPQ VA	o avera	ge of fileans is 67.1	)					
Intervention(s)	(1) Pregabalin (flexible dose)										
	Intervention: pregabalin Length of treatment (weeks): 13 Fixed/flexible dose regimen: Flexible Mean dose: 356.8mg/d Range: 125–539.7 Notes: 4-week dose adjustment, 8 in next 2 weeks based on their clinical administrations per day; 21 (19%) processed intervention: placebo Length of treatment (weeks): 13 Fixed/flexible dose regimen: Flexible	maintenance, 1 week I response and tolerar atients had 150 to < 3	nce (either	stay on	300 mg/d or increa	se to 600 n	ng/d); all do				
Concomitant	Drug free baseline period? Yes (du	•									
treatments	Concomitant pain treatment allowed randomisation; also patients were r						rmal routin	e more than 30 days prior to			
Outcomes			PREGA	BALIN (F	LEXIBLE DOSE)	PLACE	во				
measures and effect sizes			N	k	mean	N k	mean	_ Δ			
	pain score:  NRS/NRS Pain – 0d  NRS/NRS Pain – 91d  NRS/NRS Pain – 91d  McGill VAS – 0d	Continuous Mean change Continuous Continuous	110 110 110 110		6.5 4.9 66.2	109 109 109 109	6.3° 5° 68	MD=-0.200 (CI: -0.750, 0.350) MD=-0.100			
	McGill VAS – 91d	Mean change	110		3 <del></del>	109		MD=-1.000 (CI: -7.000, 5.000)			

McGill VAS – 91d	Continuous	110		48.5	109	51	MD=-2.500
patient-reported global improvement:							
PGIC – 91d	Mean change	110			109		MD=-0.200 (CI: -0.500, 0.100)
PGIC – 91d	Continuous	110		2.9	109	3.1	MD=-0.200
patient-reported improvement in							
daily physical and emotional							
functioning, including sleep:							
MOS sleep disturbance – 0d	Continuous	110		41.6	109	42.2	
MOS sleep disturbance – 91d	Continuous	110		27.5	109	32.7	MD=-5.200
MOS sleep quantitiy – 0d	Continuous	110		6.3	109	6.5	WB = 0.200
MOS sleep quantitiy – 91d	Continuous	110		6.9	109	6.6	MD=0.300
MOS somnolence – 0d	Continuous	110		41.2	109	38	2 0.000
MOS somnolence – 91d	Continuous	110		40.3	109	36.9	MD=3.400
HADS-A – 0d	Continuous	110		7.7	109	7.5	WB-0.400
HADS-A – 91d	Mean change	110			109	7.0	MD=-1.000 (CI: -1.800, -0.200)
HADS-A – 91d	Continuous	110		5.8	109	6.7	MD=-0.900
HADS-D – 0d	Continuous	110		8.3	109	7.6	WB= 0.300
HADS-D = 00 HADS-D = 91d	Mean change	110		0.0	109	7.0	MD=0.200 (CI: -0.600, 1.000)
HADS-D = 91d HADS-D = 91d	Continuous	110		7.1	109	6.5	MD=0.600
MOS sleep adequacy – 0d	Continuous	110		65.5	109	61	WD=0.000
MOS sleep adequacy – od MOS sleep adequacy – 91d	Continuous	110		66.6	109	60.6	MD=6.000
	Continuous	110		38.6	109	27.2	WD=0.000
MOS sleep problems index – 0d MOS sleep problems index – 91d		110		30.0	109	21.2	MD 4 200 (CI; 8 400 0 000)
	Mean change	-		28.5	109	20.4	MD=-4.200 (CI: -8.400, 0.000) MD=-3.600
MOS sleep problems index – 91d	Continuous	110				32.1	WID=-3.000
MOS snoring – 0d	Continuous	110		38.7 40.8	109	39.1	MD 0.000
MOS snoring – 91d	Continuous	110			109	32.6	MD=8.200
MOS short of breath/headache – 0d	Continuous	110		17.5	109	19.4	MD 2 500
MOS short of breath/headache – 91d	Continuous	110		10.9	109	14.4	MD=-3.500
major adverse events							
(defined as leading to withdrawal):	Dish steers	440	0	(0.00()	400	(0.70/)	OD 0 000 (OL 0 000 7 007)
any major adverse event – 91d	Dichotomous	110	9	(8.2%)	109 4	(3.7%)	OR=2.339 (CI: 0.698, 7.837)
adverse events:	D: 1 /	444		(00.40()	400	0 (55.00()	05 4 050 (01 4 004 0 044)
any adverse event – 91d	Dichotomous	111	77	(69.4%)		0 (55.0%)	OR=1.850 (CI: 1.064, 3.214)
Diarrhoea – 91d	Dichotomous	111	6	(5.4%)	109 2		OR=3.057 (CI: 0.603, 15.491)
Dizziness – 91d	Dichotomous	111	31	(27.9%)	109 8	` ,	OR=4.892 (CI: 2.132, 11.228)
headache – 91d	Dichotomous	111	7	(6.3%)	109 8	` ,	OR=0.850 (CI: 0.297, 2.430)
oedema – 91d	Dichotomous	111	6	(5.4%)	109 0	` ,	OR=13.493 (CI: 0.751, 242.501)
Peripheral oedema – 91d	Dichotomous	111	11	(9.9%)	109 3		OR=3.887 (CI: 1.053, 14.340)
Somnolence – 91d	Dichotomous	111	24	(21.6%)	109 5		OR=5.738 (CI: 2.101, 15.671)
Weight gain – 91d	Dichotomous	111	6	(5.4%)	109 2	(1.8%)	OR=3.057 (CI: 0.603, 15.491)
overall improvement in quality of life:							
EQ-5D - health status index – 0d	Continuous	110		0.4	109	0.4	
EQ-5D - health status index – 91d	Mean change	110			109		MD=0.000 (CI: -0.100, 0.100)
EQ-5D - health status index – 91d	Continuous	110		0.6	109	0.5	MD=0.100
EQ-5D - health status VAS – 0d	Continuous	110		56.9	109	58.8	
EQ-5D - health status VAS – 91d	Continuous	110		64.1	109	61.4	MD=2.700
EQ-5D - health status VAS – 91d	Mean change	110			109		MD=3.000 (CI: -1.850, 7.850)
treatment withdrawal:							
due to lack of efficacy – 91d	Dichotomous	110	0	(0.0%)	109 1	(0.9%)	OR=13.224 (CI: 1.688, 103.576)
due to lack of efficacy – 91d	Dichotomous	111	0	(0.0%)	109 1	(0.9%)	OR=13.224 (CI: 1.688, 103.576)
unspecified/other reason – 91d	Dichotomous	110	8	(7.2%)	109 7	(6.4%)	OR=1.143 (CI: 0.400, 3.269)
unspecified/other reason – 91d	Dichotomous	111	8	(7.2%)	109 7	(6.4%)	OR=1.143 (CI: 0.400, 3.269)
lost to follow-up – 91d	Dichotomous	110	0	(0.0%)	109 7	(6.4%)	OR=0.062 (CI: 0.003, 1.096)
 <u> </u>							

	lost to follow-up – 91d	109 7 (6.4%) OR=0.062 (CI: 0.003, 1.096)										
	<sup>a</sup> tool reportedly used was Daily Pain Rating Scale which was not described. As it is often described as NRS, this was assumed here											
Comments	authors state that the majority of patier amitriptyline group dropped out prior to				ction with prega	abalin but the proportions were not reported; 1 patient in the						

Study	Kochar et al. (2002)
Pain category	Peripheral pain
Study design	Country: India Design: Parallel Inclusion criteria: Patients with type 2 diabetes with painful diabetic neuropathy Exclusion criteria: Patients with liver disease, pulmonary TB, thyroid disorders, uraemia, vitamin deficiency, hereditary and paraneoplastic neuropathy, alcoholism, steroid therapy Study length (days): 28 Intention-to-treat analysis? No
Participants	Total number of patients: 60 Number of males: 29 (48.3%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 4.95 (pain severity on SF MPQ - average of means) Mean age: 56.17
Intervention(s)	(1) sodium Valporate 1200mg/d Intervention: valproate Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose Set dose: 1200mg/d Notes: 200 mg 3x per day first, then 1200 divided in 3 daily dosages (2) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (appears that this was allowed - authors state that no patient was allowed to change their analgesic medication for pain control)
Outcomes measures and	SODIUM VALPORATE 1200MG/D PLACEBO

effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	SF McGill – 0d	Continuous	28		5 (SD 1.95)	24		4.9 (SD 1.85)	
	SF McGill – 28d	Continuous	28		3.41 (SD 1.88)	24		4.6 (SD 2.12)	MD=-1.190 (CI: -2.287, -0.093)
	major adverse events				,			, ,	
	(defined as leading to withdrawal):								
	any major adverse event – 28d	Dichotomous	29	1	(3.4%)	28	0	(0.0%)	OR=3.000 (CI: 0.117, 76.789)
	treatment withdrawal:								
	due to lack of efficacy	Dichotomous	29	0	(0.0%)	28	2	(7.1%)	OR=0.180 (CI: 0.008, 3.914)
	poor compliance	Dichotomous	29	1	(3.4%)	28	2	(7.1%)	OR=0.464 (CI: 0.040, 5.429)

Study	Kochar et al. (2004)
Pain category	Peripheral pain
Study design	Country: India Design: Parallel Inclusion criteria: Diabetes for at least 6 months on stable dosage of insulin or oral hypoglycaemic agent, HbA1c <11, Daily neuropathic pain of at least moderate severity for >3 months, Pain intensity of >4 on VAS Exclusion criteria: People with liver disease, pulmonary tuberculosis, thyroid disorders, uraemia, vitamin deficiency, hereditary and paraneoplastic neuropathy, alcoholism, patients on steroid therapy. Study length (days): 84 Intention-to-treat analysis? No
Participants	Total number of patients: 48  Number of males: 21 (43.8%)  Underlying cause of neuropathic pain: Painful diabetic neuropathy  Mean duration of NP (in months): not reported  Baseline pain severity: 5.855 (VAS (average of arm means))  Mean age: 55.31 (SD: 12)
Intervention(s)	(1) Sodium valproate 500md/d Intervention: valproate Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 500mg/d (2) Placebo Intervention: placebo Length of treatment (weeks): 12

	ed? Unclear (autho							trol of pain - it is unclear if this							
			Concomitant pain treatment allowed? Unclear (authors state that patients were not allowed to take analgesics for control of pain - it is unclear if the means just rescue analgesics or if other drugs were not permitted (ie. Anti-depressants, anti-convulsants, etc.))												
		SOD	VALPROATE 500MD/D	PL	4CE	во									
		N	k	mean	N	k	mean	Δ							
pain score:															
							,								
				,	_			MD=-2.050 (CI: -7.013, 2.913)							
11.10					_			MD=-3.000 (CI: -8.502, 2.502)							
,															
								MD=-0.960 (CI: -3.402, 1.482)							
				,			` ,	MD=-1.280 (CI: -3.499, 0.939)							
- · · · · · · · · · · · · · · · · · · ·				` ,				MD=-5.910 (CI: -20.989, 9.169)							
	Continuous	21		9.66 (SD 27.3)	18		17.9 (SD 23)	MD=-8.220 (CI: -24.009, 7.569)							
any major adverse event – 84d adverse events:	Dichotomous	22	1	(4.5%)	21	0	(0.0%)	OR=3.000 (CI: 0.116, 77.833)							
Nausea – 84d	Dichotomous	22	2	(9.1%)	21	0 <sup>a</sup>	(0.0%)	OR=5.244 (CI: 0.237, 115.946)							
Sedation – 84d	Dichotomous	22	1		21	0 <sup>a</sup>		OR=3.000 (CI: 0.116, 77.833)							
treatment withdrawal:				,			,	, , ,							
protocol deviation – 84d	Dichotomous	22	3	(13.6%)	21	0	(0.0%)	OR=7.718 (CI: 0.374, 159.089)							
	VAS – 0d VAS – 28d VAS – 84d PPI (from MPQ) – 0d PPI (from MPQ) – 28d PPI (from MPQ) – 84d SF McGill – 0d SF McGill – 28d SF McGill – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events: Nausea – 84d Sedation – 84d	VAS – 0d VAS – 28d Continuous VAS – 84d Continuous PPI (from MPQ) – 0d Continuous PPI (from MPQ) – 28d Continuous PPI (from MPQ) – 84d Continuous SF McGill – 0d Continuous SF McGill – 28d Continuous SF McGill – 84d Continuous SF McGill – 84d Continuous Continuous SF McGill – 84d Continuous Dichotomous adverse events (defined as leading to withdrawal): any major adverse event – 84d adverse events: Nausea – 84d Dichotomous Sedation – 84d Dichotomous Dichotomous	pain score:  VAS – 0d  VAS – 28d  Continuous  21  VAS – 84d  PPI (from MPQ) – 0d  PPI (from MPQ) – 28d  PPI (from MPQ) – 84d  Continuous  21  PPI (from MPQ) – 84d  Continuous  21  PPI (from MPQ) – 84d  Continuous  21  SF McGill – 0d  SF McGill – 28d  Continuous  21  SF McGill – 28d  Continuous  21  SF McGill – 84d  Continuous  21  SF McGill – 84d  Continuous  21  SF McGill – 84d  Major adverse events  (defined as leading to withdrawal):  any major adverse event – 84d  adverse events:  Nausea – 84d  Sedation – 84d  Dichotomous  22  treatment withdrawal:	pain score:  VAS – 0d  VAS – 28d  Continuous  21  VAS – 84d  PPI (from MPQ) – 0d  PPI (from MPQ) – 28d  PPI (from MPQ) – 84d  Continuous  21  PPI (from MPQ) – 84d  Continuous  21  PPI (from MPQ) – 84d  Continuous  21  SF McGill – 0d  Continuous  21  SF McGill – 28d  Continuous  21  SF McGill – 28d  Continuous  21  SF McGill – 84d  Continuous  21  SF McGill – 84d  Major adverse events  (defined as leading to withdrawal):  any major adverse event – 84d  adverse events:  Nausea – 84d  Dichotomous  22  Sedation – 84d  Dichotomous  22  Treatment withdrawal:	pain score:  VAS - 0d  VAS - 28d  Continuous  21  3.95 (SD 7.97)  VAS - 84d  Continuous  21  3 (SD 9.72)  PPI (from MPQ) - 0d  Continuous  21  2.71 (SD 4.58)  PPI (from MPQ) - 28d  Continuous  21  1.71 (SD 3.85)  PPI (from MPQ) - 84d  Continuous  21  1.33 (SD 3.02)  SF McGill - 0d  Continuous  21  1.9.5 (SD 31.1)  SF McGill - 28d  Continuous  21  13 (SD 24.8)  SF McGill - 84d  Continuous  21  3 (SD 9.72)  1.71 (SD 3.85)  PPI (from MPQ) - 84d  Continuous  21  1.33 (SD 3.02)  SF McGill - 28d  Continuous  21  3 (SD 27.31)  1 (SD 24.8)  SF McGill - 84d  Continuous  21  3 (SD 27.31)  1 (SD 24.8)  SF McGill - 84d  Continuous  21  3 (SD 27.31)  1 (4.5%)  Major adverse events  (defined as leading to withdrawal):  any major adverse event - 84d  Dichotomous  22  2 (9.1%)  Sedation - 84d  Dichotomous  22  1 (4.5%)	pain score:  VAS - 0d	pain score:  VAS - 0d  VAS - 28d  Continuous  21  3.95 (SD 7.97)  18  VAS - 84d  Continuous  21  3 (SD 9.72)  18  PPI (from MPQ) - 0d  Continuous  21  2.71 (SD 4.58)  PPI (from MPQ) - 28d  Continuous  21  1.71 (SD 3.85)  18  PPI (from MPQ) - 84d  Continuous  21  1.33 (SD 3.02)  18  SF McGill - 0d  Continuous  21  1.35 (SD 3.02)  18  SF McGill - 28d  Continuous  21  1.36 (SD 24.8)  SF McGill - 84d  Continuous  21  1.36 (SD 24.8)  18  SF McGill - 84d  Continuous  21  1.36 (SD 27.3)  18  Major adverse events  (defined as leading to withdrawal):  any major adverse event - 84d  adverse events:  Nausea - 84d  Dichotomous  22  1 (4.5%)  21  0 <sup>a</sup> treatment withdrawal:	pain score:  VAS - 0d  VAS - 28d  Continuous  21  3.95 (SD 7.97)  18  6 (SD 7.81)  VAS - 84d  Continuous  21  3.95 (SD 7.97)  18  6 (SD 7.81)  VAS - 84d  Continuous  21  2.71 (SD 7.21)  PPI (from MPQ) - 0d  Continuous  21  2.71 (SD 4.58)  PPI (from MPQ) - 28d  Continuous  21  1.71 (SD 3.85)  PPI (from MPQ) - 84d  Continuous  21  1.71 (SD 3.85)  PPI (from MPQ) - 84d  Continuous  21  1.33 (SD 3.02)  SF McGill - 0d  Continuous  21  1.9.5 (SD 31.1)  SF McGill - 28d  Continuous  21  13 (SD 24.8)  SF McGill - 84d  Continuous  21  13 (SD 24.8)  PRI (from MPQ) - 84d  Continuous  21  13 (SD 24.8)  SF McGill - 84d  Continuous  21  13 (SD 24.8)  TR 18.9 (SD 23.2)  SF McGill - 84d  Continuous  21  22  1 (4.5%)  21  0 (0.0%)  To a (0.0%)  The attent withdrawal:							

Study	Kochar et al. (2005)
Pain category	Peripheral pain
Study design	Country: India Design: Parallel Inclusion criteria: adult patients with persistent pain for > 6 months after the onset of herpes zoster rash with at least 50 mm on a 100mm VAS and 4/11 on a Likert scale Exclusion criteria: - Study length (days): 56

	Intention-to-treat analysis? N	0						
Participants	Total number of patients: 48 Number of males: 22 (45.8% Underlying cause of neuropa Mean duration of NP (in mon Baseline pain severity: 6.55 ( mean age, baseline pain sev Mean age: 57.16	thic pain: Post-h ths): 7.87 (NRS (average o	of arm m	neans)	erages of means of the patients comple	eting each tre	eatment group	)))
Intervention(s)	(1) Divalproex sodium (valpro Intervention: valproate Length of treatment (weeks): Fixed/flexible dose regimen: Set dose: 1000mg/d (2) Placebo Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen:	8 Fixed dose 8	lium valp	proate 1:1)	1000 mg/d			
Concomitant treatments	Drug free baseline period? N Concomitant pain treatment		other to	opical or or	al drugs were allowed)			
Outcomes measures and			PLACI	≣ВО				
effect sizes			N	k	mean	N k	mean	Δ
	pain score: NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 56d <sup>a</sup>	Continuous Continuous	22 22		6.97 (SD 0.73)	18	6.13 (SD 0.94) 5.33 (SD	MD=-1.700 (CI: -2.948, -
		Continuous			3.63 (SD 2.34)	18	1.68)	0.452)
	VAS – 0d <sup>a</sup>	Continuous	22		3.63 (SD 2.34) 70.2 (SD 9.21)	18 18	63.2 <sup>'</sup> (SD 9.18)	,
	VAS – 0d <sup>a</sup> VAS – 56d <sup>a</sup>				,	-	63.2 (SD 9.18) 54.9 (SD 17.5)	0.452) MD=-23.670 (CI: -38.521, -8.819)
		Continuous	22		70.2 (SD 9.21)	18	63.2 <sup>'</sup> (SD 9.18) 54.9 (SD	MD=-23.670 (CI: -38.521, -8.819)
	VAS – 56d <sup>a</sup>	Continuous Continuous	22 22		70.2 (SD 9.21) 31.3 (SD 29.8)	18 18	63.2 (SD 9.18) 54.9 (SD 17.5) 3.68 (SD	MD=-23.670 (CI: -38.521,
	VAS – 56d <sup>a</sup> PPI (from MPQ) – 0d <sup>a</sup>	Continuous Continuous Continuous	22 22 22		70.2 (SD 9.21) 31.3 (SD 29.8) 4 (SD 0.52)	18 18 18	63.2 (SD 9.18) 54.9 (SD 17.5) 3.68 (SD 0.56) 3.22 (SD 1) 18.1 (SD 3.02)	MD=-23.670 (CI: -38.521, -8.819)  MD=-1.270 (CI: -1.980, -0.560)
	VAS – 56d <sup>a</sup> PPI (from MPQ) – 0d <sup>a</sup> PPI (from MPQ) – 56d <sup>a</sup>	Continuous Continuous Continuous Continuous	22 22 22 22		70.2 (SD 9.21) 31.3 (SD 29.8) 4 (SD 0.52) 1.95 (SD 1.29)	18 18 18 18	63.2 (SD 9.18) 54.9 (SD 17.5) 3.68 (SD 0.56) 3.22 (SD 1) 18.1 (SD	MD=-23.670 (CI: -38.521, -8.819)  MD=-1.270 (CI: -1.980, -

	PGIC - no change – 56d <sup>b</sup> PGIC - minimally better – 56d <sup>b</sup> PGIC - at least moderately better – 56d <sup>b</sup>	Dichotomous Dichotomous Dichotomous	23 23 23	4 4 13	(17.4%) (17.4%) (56.5%)	22 22 22	1	(54.5%) (4.5%) (13.6%)	OR=0.175 (CI: 0.045, 0.688) OR=4.421 (CI: 0.453, 43.115) OR=8.233 (CI: 1.892, 35.826)	
	major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal:	Dichotomous	23	1°	(4.3%)	22		(0.0%)	OR=3.000 (CI: 0.116, 77.643) OR=0.174 (CI: 0.008,	
	due to lack of efficacy – 56d	Dichotomous	23	0	(0.0%)	22		(9.1%)	3.848) OR=0.174 (CI: 0.008,	
	poor compliance – 56d	Dichotomous	23	0	(0.0%)	22	2	(9.1%)	3.848)	
	<ul> <li>study states dispersion is standard error but it appears more likely that this is standard deviation so it has been recorded this way</li> <li>estimated from percentages</li> <li>vertigo</li> </ul>									
Comments	withdrawal of consent; the stud	dy reported that	it 3 patient	s had naus	n each group because of lack of sufficie sea, dizziness, drowsiness, and mild ch eported if any patients in placebo grou	nange in	n ap	petite with th	ne drug but that it	

Study	Leijon & Boivie (1989)
Pain category	Central pain
Study design	Country: Sweden Design: Crossover Inclusion criteria: central post-stroke pain with unequivocal stroke episode and constant or intermittent pain which started after the stroke Exclusion criteria: nociceptive pain, peripheral neuropathic pain or psychogenic origin; pain with known contraindications to study drugs, patients who could not be evaluated in a satisfactory way, Study length (days): 98 Intention-to-treat analysis? No
Participants	Total number of patients: 15 Number of males: 12 (80.0%) Underlying cause of neuropathic pain: Post-stroke pain Mean duration of NP (in months): 54 Baseline pain severity: not reported (not reported (average duration of pain across all treatment groups)) Mean age: 66
Intervention(s)	(1) Amitriptyline 75 mg/d Intervention: amitriptyline Length of treatment (weeks): 4

Fixed/flexible dose regimen: Fixed dose Set dose: 75ma/d Notes: dose escalation from 25 mg to 75 mg (2) Carbamazepine (600-1200 mg/d) Intervention: carbamazepine Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Range: 600-1200 Notes: dose escalation from 200 mg to 800 mg which was the final dose; however, 4 patients with moderate side effects had their dosage decreased so 2 patients finished on 600 mg, 1 on 400 mg and 1 on 200 mg. (3) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose Notes: lactulose Concomitant Drug free baseline period? Unclear treatments Concomitant pain treatment allowed? Yes (However, no patients had used anti-depressants or neurepileptic drugs at the start of the trial; the patient with headache used paracetamol 500 mg 4 times per day, another 2 used TENS, one for nocioceptive knee pain and the other for his central post-stroke pain) Outcomes **AMITRIPTYLINE 75 MG/D** CARBAMAZEPINE (600-1200 MG/D) measures and Ν Ν k Δ effect sizes mean mean pain score: VRS - 7d<sup>a</sup> 4.6 (SD 1.2) Continuous 15 4.7 (SD 1.3) 14 VRS - 28d 4.2 (SD 1.6) Continuous 15 14 4.2 (SD 1.7) major adverse events (defined as leading to withdrawal): any major adverse event - 28d Dichotomous 15 0 (0.0%)15 (0.0%)OR=1.000 (CI: 0.019, 53.659) adverse events: any adverse event - 28d Dichotomous 15 14<sup>b</sup> (93.3%)15 14<sup>c</sup> (93.3%)OR=1.000 (CI: 0.057, 17.621) moderate to severe - 28d OR=0.308 (CI: 0.049, 1.928) Dichotomous 15 15 5 (33.3%)(13.3%)treatment withdrawal: 1<sup>d</sup> unspecified/other reason – 28d Dichotomous 15 0 (0.0%)15 (6.7%)OR=0.312 (CI: 0.012, 8.285) <sup>a</sup> baseline data not reported Dry mouth and tiredness were most frequent (actual rates not reported) <sup>c</sup> Vertigo, tiredness and gait disturbances were most frequent (actual rates not reported) <sup>d</sup> medication needed to be stopped because of interaction with coagulant drug the patient was taking (Warfarin)

		AMITRII	PTYLINE 75 MG/D	PLAC	EBO	
		N k	mean	N I	k mean	Δ
pain score:						
VRS – 7d <sup>a</sup>	Continuous	15	4.7 (SD 1.3)	15	5.5 (SD 1.5)	
VRS – 28d	Continuous	15	4.2 (SD 1.6)	15	5.3 (SD 2)	

(defined as leading to withdrawal): any major adverse event – 28d adverse events:	Dichotomous	15	0	(0.0%)	15	0 (0.0%)	OR=1.000 (CI: 0.019, 53.659)
any adverse event – 28d	Dichotomous	15	14 <sup>b</sup>	(93.3%)	15	7 (46.7%)	OR=16.000 (CI: 1.656, 154.59
moderate to severe – 28d	Dichotomous	15	2	(13.3%)	15	1 (6.7%)	OR=2.154 (CI: 0.174, 26.672)
treatment withdrawal:				, ,		, ,	,
unspecified/other reason - 28d	Dichotomous	15	0	(0.0%)	15	0 (0.0%)	OR=1.000 (CI: 0.019, 53.659)

		CARBAMAZEPINE (600-1200 MG/D)			PLACEBO				
		N	k	mean	N	k	mean	Δ	
pain score:									
VRS – 7d <sup>a</sup>	Continuous	14		4.6 (SD 1.2)	15		5.5 (SD 1.5)		
VRS – 28d	Continuous	14		4.2 (SD 1.7)	15		5.3 (SD 2)		
major adverse events									
defined as leading to withdrawal):									
any major adverse event – 28d	Dichotomous	15	0	(0.0%)	15	0	(0.0%)	OR=1.000 (CI: 0.019, 53.659)	
adverse events:									
any adverse event – 28d	Dichotomous	15	14 <sup>b</sup>	(93.3%)	15	7	(46.7%)	OR=16.000 (CI: 1.656, 154.595)	
moderate to severe – 28d	Dichotomous	15	5	(33.3%)	15	1	(6.7%)	OR=7.000 (CI: 0.705, 69.490)	
treatment withdrawal:				,			, ,	,	
unspecified/other reason – 28d	Dichotomous	15	1 <sup>c</sup>	(6.7%)	15	0	(0.0%)	OR=3.207 (CI: 0.121, 85.203)	

## baseline pain scores not reported

## Comments one patient with an allergy to carbamazepine was randomised only to either amitriptyline or placebo; 5 patients had another chronic pain as well as chronic post-stroke pain (3 low back pain, 4 chronic tension headache and 1 sciatica); almost all patients had low baseline depression scores and no patient appeared to be depressed - there was no significant decrease in depression scores for patients being treated with study drugs when compared to placebo period; study reported global assessment of effect on the pain but this was on a 5-step scale so not combinable with results from 7-point PGIC (authors show a difference in effect of study drugs on this scale but not for placebo); ITT not used by authors but dichotomous outcomes recorded here are done as intention-to-treat

Study	Lesser et al. (2004)
Pain category	Peripheral pain
Study design	Country: USA
	Design: Parallel
	Inclusion criteria: People over the age of 18 years with diabetes and 1-5 years history of PDN and average weekly pain scores of at least 4 on NRS-11

b Vertigo, tiredness and gait disturbances were most frequent (actual rates not reported)
c medication needed to be stopped because of interaction with coagulant drug the patient was taking (Warfarin)

	point									
	Exclusion criteria: No exclusion cr	iteria described								
	Study length (days): 35	neria described								
	Intention-to-treat analysis? Yes									
Participants	Total number of patients: 337									
	Number of males: 202 (59.9%)									
	Underlying cause of neuropathic p	oain: Painful diabetic	neuropa	thy						
	Mean duration of NP (in months):	•								
	Baseline pain severity: 6.4 (NRS)									
	Mean age: 59.9 (SD: 10.5)									
Intervention(s)	(1) pregabalin 75mg/d									
	Intervention: pregabalin Length of treatment (weeks): 35 Fixed/flexible dose regimen: Fixed Set dose: 75mg/d	d dose								
	(2) Pregabalin 300mg/d									
	Intervention: pregabalin Length of treatment (weeks): 35 Fixed/flexible dose regimen: Fixed Set dose: 300mg/d	d dose								
	(3) pregabalin 600mg/d									
	Intervention: pregabalin Length of treatment (weeks): 35 Fixed/flexible dose regimen: Fixed Set dose: 600mg/d	d dose								
	(4) Placebo									
	Intervention: placebo Length of treatment (weeks): 35 Fixed/flexible dose regimen: Fixed	d dose								
Concomitant	Drug free baseline period? Unclea	ar								
reatments	Concomitant pain treatment allowed? Yes (patients were allowed to take SSRIs if they were already on stable treatment (and acetaminophen 3g/d was allowed as rescue analgesic) but all other neuropathic pain medications were prohibited)									
Outcomes			PREG	PREGABALIN 75MG/D			0			
measures and effect sizes			N I	k mean	N	k	mean	_ Δ		
	pain score: NRS/NRS Pain – 0d NRS/NRS Pain – 35d <sup>a</sup> McGill VAS – 35d <sup>b</sup>	Continuous Continuous Continuous	77 77 77	6.7 (SD 1.3) 4.91 (SD 2.11) 49.7 (SD 24)	97 97 97		6.6 (SD 1.5) 5.06 (SD 2.07) 53.5 (SD 24.2)	MD=-0.150 (CI: -0.775, 0.475) MD=-3.790 (CI: -11.007, 3.427)		

PPI (from MPQ) – 35d <sup>b</sup>	Continuous	77		1.67 (SD 0.965)	97		1.79 (SD 0.985)	MD=-0.120 (CI: -0.411, 0.171)
SF McGill – 35d <sup>b</sup>	Continuous	77		15.1 (SD 7.37)	97		15.1 (SD 9.26)	MD=0.000 (CI: -2.471, 2.471)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 35d	Dichotomous	77	2	(2.6%)	97	3	(3.1%)	OR=0.836 (CI: 0.136, 5.130)
adverse events:								
amnesia	Dichotomous	77	2	(2.6%)	97	1	(1.0%)	OR=2.560 (CI: 0.228, 28.772)
asthenia	Dichotomous	77	3	(3.9%)	97	3	(3.1%)	OR=1.270 (CI: 0.249, 6.477)
Confusion	Dichotomous	77	0	(0.0%)	97	2	(2.1%)	OR=0.246 (CI: 0.012, 5.210)
Constipation	Dichotomous	77	0	(0.0%)	97	1	(1.0%)	OR=0.415 (CI: 0.017, 10.331)
Diarrhoea	Dichotomous	77	4	(5.2%)	97	7	(7.2%)	OR=0.705 (CI: 0.199, 2.500)
Dizziness – 35d	Dichotomous	77	6	(7.8%)	97	5	(5.2%)	OR=1.555 (CI: 0.456, 5.301)
Dry mouth	Dichotomous	77	2	(2.6%)	97	0	(0.0%)	OR=6.457 (CI: 0.305, 136.504)
headache	Dichotomous	77	5	(6.5%)	97	10	(10.3%)	OR=0.604 (CI: 0.198, 1.848)
Infection	Dichotomous	77	3	(3.9%)	97	7	(7.2%)	OR=0.521 (CI: 0.130, 2.086)
Peripheral oedema – 35d	Dichotomous	77	3	(3.9%)	97	2	(2.1%)	OR=1.926 (CI: 0.314, 11.824)
Somnolence – 35d	Dichotomous	77	3	(3.9%)	97	4	(4.1%)	OR=0.943 (CI: 0.205, 4.343)
treatment withdrawal:								
unspecified/other reason – 35d	Dichotomous	77	8	(10.4%)	97	5	(5.2%)	OR=2.133 (CI: 0.669, 6.806)

 $<sup>^{</sup>a}$  least squares mean  $^{b}$  least squares mean; baseline data doesn't appear to have been reported for this tool

		PR	EGAE	BALIN 300MG/D	PL	ACEI	во	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	81		6.2 (SD 1.4)	97		6.6 (SD 1.5)	
NRS/NRS Pain – 35d <sup>a</sup>	Continuous	81		3.8 (SD 2.07)	97		5.06 (SD 2.07)	MD=-1.260 (CI: -1.870, -0.650)
at least 30% pain reduction – 35d	Dichotomous	81	50	(61.7%)	97	32	(33.0%)	OR=3.276 (CI: 1.769, 6.068)
at least 50% pain reduction – 35d	Dichotomous	81	37	(45.7%)	97	17	(17.5%)	OR=3.957 (CI: 2.001, 7.827)
McGill VAS – 35d <sup>b</sup>	Continuous	81		37.4 (SD 24.2)	97		53.5 (SD 24.2)	MD=-16.090 (CI: -23.235, -8.945)
PPI (from MPQ) – 35d <sup>b</sup>	Continuous	81		1.2 (SD 0.99)	97		1.79 (SD 0.985)	MD=-0.590 (CI: -0.881, -0.299)
SF McGill – 35d <sup>b</sup>	Continuous	81		10.2 (SD 8.28)	97		15.1 (SD 9.26)	MD=-4.890 (CI: -7.468, -2.312)
patient-reported global improvement:				, ,			,	,
PGIC - worse (all grades) - 35d	Dichotomous	79	4	(5.1%)	95	10	(10.5%)	OR=0.453 (CI: 0.136, 1.506)
PGIC - no change – 35d	Dichotomous	79	12	(15.2%)	95	32	(33.7%)	OR=0.353 (CI: 0.167, 0.744)
PGIC - minimally better – 35d	Dichotomous	79	19	(24.1%)	95	30	(31.6%)	OR=0.686 (CI: 0.350, 1.345)
PGIC - at least moderately better – 35d	Dichotomous	79	44	(55.7%)	95	23	(24.2%)	OR=3.935 (CI: 2.063, 7.509)
major adverse events				,			,	,
(defined as leading to withdrawal):								
any major adverse event – 35d	Dichotomous	81	3	(3.7%)	97	3	(3.1%)	OR=1.205 (CI: 0.237, 6.140)
adverse events:				,			,	,
amnesia	Dichotomous	81	0	(0.0%)	97	1	(1.0%)	OR=0.395 (CI: 0.016, 9.821)
asthenia	Dichotomous	81	4	(4.9%)	97	3	(3.1%)	OR=1.628 (CI: 0.354, 7.494)
Confusion	Dichotomous	81	4	(4.9%)	97	2	(2.1%)	OR=2.468 (CI: 0.440, 13.832)
Constipation	Dichotomous	81	3	(3.7%)	97	1	(1.0%)	OR=3.692 (CI: 0.377, 36.200)
Diarrhoea	Dichotomous	81	1	(1.2%)	97	7	(7.2%)	OR=0.161 (CI: 0.019, 1.335)
Dizziness – 35d	Dichotomous	81	22	(27.2%)	97	5	(5.2%)	OR=6.861 (CI: 2.463, 19.114)
Dry mouth	Dichotomous	81	6	(7.4%)	97	0	(0.0%)	OR=16.788 (CI: 0.931, 302.705)
headache	Dichotomous	81	7	(8.6%)	97	10	(10.3%)	OR=0.823 (ČI: 0.298, 2.270)
Infection	Dichotomous	81	8	(9.9%)	97	7	(7.2%)	OR=1.409 (CI: 0.488, 4.068)

Peripheral oedema – 35d Somnolence – 35d treatment withdrawal:	Dichotomous Dichotomous	81 81	6 19	(7.4%) (23.5%)	97 97		(2.1%) (4.1%)	OR=3.800 (CI: 0.746, 19.369) OR=7.125 (CI: 2.313, 21.948)
unspecified/other reason – 35d	Dichotomous	81	2	(2.5%)	97	5	(5.2%)	OR=0.466 (CI: 0.088, 2.467)
a least squares mean b least squares mean; baseline data doesn't	appear to have been	repor	ted fo	r this tool				
		PRI	EGAE	BALIN 600MG/D	PLA	ACEI	30	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	81		6.2 (SD 1.5)	97		6.6 (SD 1.5)	
NRS/NRS Pain – 35d <sup>a</sup>	Continuous	81		3.6 (SD 2.07)	97		5.06 (SD 2.07)	MD=-1.460 (CI: -2.070, -0.850)
at least 30% pain reduction – 35d	Dichotomous	81	53	(65.4%)	97	32	(33.0%)	OR=3.845 (CI: 2.061, 7.173)
at least 50% pain reduction – 35d	Dichotomous	81	39	(48.1%)	97		(17.5%)	OR=4.370 (CI: 2.211, 8.635)
McGill VAS – 35d <sup>b</sup>	Continuous	81		34.5 (SD 23.8)	97		53.5 (SD 24.2)	MD=-19.010 (CI: -26.097, -11.92
PPI (from MPQ) – 35d <sup>b</sup>	Continuous	81		1.18 (SD 0.99)	97		1.79 (SD 0.985)	MD=-0.610 (CI: -0.901, -0.319)
SF McGill – 35d <sup>b</sup>	Continuous	81		9.88 (SD 8.19)	97		15.1 (SD 9.26)	MD=-5.180 (CI: -7.744, -2.616)
patient-reported global improvement:	Continuous	٥.		0.00 (02 0.10)	01		10.1 (02 0.20)	MB= 0.100 (01. 1.711, 2.010)
PGIC - worse (all grades) – 35d	Dichotomous	78	3	(3.8%)	95	10	(10.5%)	OR=0.340 (CI: 0.090, 1.282)
PGIC - no change – 35d	Dichotomous	78	6	(7.7%)	95	32	(33.7%)	OR=0.164 (CI: 0.064, 0.418)
PGIC - minimally better – 35d	Dichotomous	78	15	(19.2%)		30	(31.6%)	OR=0.516 (CI: 0.254, 1.049)
PGIC - at least moderately better – 35d	Dichotomous	78	54	(69.2%)			(24.2%)	OR=7.043 (CI: 3.597, 13.792)
major adverse events	Dichotomous	70	J4	(03.270)	90	23	(24.270)	ON=7:043 (CI. 3.397, 13.792)
(defined as leading to withdrawal):								
any major adverse event – 35d	Dichotomous	81	10	(12.3%)	97	2	(3.1%)	OR=4.413 (CI: 1.171, 16.628)
adverse events:	Dichotomous	01	10	(12.570)	31	3	(3.170)	ON=4.413 (CI. 1.171, 10.020)
amnesia	Dichotomous	81	5	(6.2%)	97	1	(1.0%)	OR=6.316 (CI: 0.723, 55.206)
			6		97		(3.1%)	
asthenia	Dichotomous	81		(7.4%)				OR=2.507 (CI: 0.607, 10.357)
Confusion	Dichotomous	81	7	(8.6%)	97		(2.1%)	OR=4.493 (CI: 0.907, 22.268)
Constipation	Dichotomous	81	7	(8.6%)	97		(1.0%)	OR=9.081 (CI: 1.093, 75.438)
Diarrhoea	Dichotomous	81	3	(3.7%)	97		(7.2%)	OR=0.495 (CI: 0.124, 1.978)
Dizziness – 35d	Dichotomous	81	32	(39.5%)	97	5	(5.2%)	OR=12.016 (CI: 4.402, 32.802)
Dry mouth	Dichotomous	81	4	(4.9%)	97		(0.0%)	OR=11.323 (CI: 0.600, 213.519)
headache	Dichotomous	81	8	(9.9%)	97		(10.3%)	OR=0.953 (CI: 0.358, 2.541)
Infection	Dichotomous	81	1	(1.2%)	97		(7.2%)	OR=0.161 (CI: 0.019, 1.335)
Peripheral oedema – 35d	Dichotomous	81	11	(13.6%)		2	(2.1%)	OR=7.464 (CI: 1.603, 34.746)
Somnolence – 35d	Dichotomous	81	22	(27.2%)	97	4	(4.1%)	OR=8.669 (CI: 2.845, 26.416)
treatment withdrawal:								
unspecified/other reason – 35d	Dichotomous	81	2	(2.5%)	97	5	(5.2%)	OR=0.466 (CI: 0.088, 2.467)
a least squares mean b least squares mean; baseline data doesn't	annoar to have been	roport	tod fo	r this tool				
least squares mean, baseline data doesn't	appear to have been	repor	lea 10	T THIS TOOL				
30 and 50% response not reported for 7	5mg/d dosage: the	ere wa	s a 1	week baseline p	hase -	unc	lear if this was use	ed as a drug-free period; 1 patie
withdrew after randomisation but before								
	tanina staay ilibah							

Study	Levendoglu et al. (20	04)						
Pain category	Mixed (central and pe	ripheral) or unclear if mixe	ed					
Study design	confirmed by a physic Exclusion criteria: Se	cian. Vere cognitive impairment, e Beck Depression Invento 26	pregnancy	, seizure disorder	the use			and 65 years, with NP for more than 6 months and antidepressants, major depression or a
Participants	Mean duration of NP	(65.0%) neuropathic pain: Spinal co (in months): 15.8 r: 88 (VAS (estimated fron		ain				
Intervention(s)		weeks): 8 gimen: Flexible dose /d sages were titrated up to 3 side effects while max tole weeks): 8					n the case of int	tolerable side effects; values reported here are
Concomitant treatments					were not	allov	wed at least 15	days before and during the study. Use with
Outcomes			GABA	PENTIN	PLA	CEB	30	
measures and effect sizes			N	k mean	N	k	mean	Δ
	pain score: VAS – 0d <sup>a</sup> VAS – 28d <sup>a</sup> VAS – 56d <sup>a</sup> NPS – 0d NPS – 28d	Continuous Continuous Continuous Continuous Continuous	20 20 20 20 20 20	88 46 35 8.5 (SD 0.9) 4.8 (SD 1.1)	20 20 20 20 20 20		88 80 78 8.4 (SD 0.7) 7.8 (SD 0.7)	MD=-34.000 MD=-43.000 MD=-3.000 (CI: -3.571, -2.429)

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	NPS – 56d	Continuous	20		3.2 (SD 1.2)	20		7.4 (SD 0.7)	MD=-4.200 (CI: -4.809, -3.591)
	adverse events:								
	Blurred vision – 56d	Dichotomous	20	0	(0.0%)	20	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849)
	Diarrhoea – 56d	Dichotomous	20	0	(0.0%)	20	0	(0.0%)	OR=1.000 (CI: 0.019, 52.849)
	headache – 56d	Dichotomous	20	1	(5.0%)	20	1	(5.0%)	OR=1.000 (CI: 0.058, 17.181)
	Nausea – 56d	Dichotomous	20	0	(0.0%)	20	1	(5.0%)	OR=0.317 (CI: 0.012, 8.260)
	oedema – 56d	Dichotomous	20	3	(15.0%)	20	0	(0.0%)	OR=8.200 (CI: 0.396, 169.899)
	Sedation – 56d	Dichotomous	20	3	(15.0%)	20	0	(0.0%)	OR=8.200 (CI: 0.396, 169.899)
	vertigo – 56d	Dichotomous	20	3	(15.0%)	20	1	(5.0%)	OR=3.353 (CI: 0.318, 35.364)
	Vomiting – 56d	Dichotomous	20	0	(0.0%)	20	1	(5.0%)	OR=0.317 (CI: 0.012, 8.260)
	weakness – 56d	Dichotomous	20	5	(25.0%)	20	2	(10.0%)	OR=3.000 (CI: 0.507, 17.740)
	a estimated from graph								
Comments	-								

Study	Low et al. (1995)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel Inclusion criteria: Bilateral symmetric chronic peripheral neuropathy involving the distal lower extremities for at least 6 months, refractory to at least one other form of treatment  Exclusion criteria: unstable symptoms in previous 6 months, women of childbearing age unless they were sterilised or were taking an effective form of contraception  Study length (days): 56  Intention-to-treat analysis? Yes
Participants	Total number of patients: 40 Number of males: 24 (60.0%) Underlying cause of neuropathic pain: Polyneuropathy Mean duration of NP (in months): 56 Baseline pain severity: 8.4 (VAS) Mean age: 59
Intervention(s)	(1) Capsaicin 0.075% cream (fixed dose 4x per day) Intervention: capsaicin cream Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Notes: Limbs were randomised (2) Placebo Intervention: placebo Length of treatment (weeks): 8

	Fixed/flexible dose re Notes: Limbs were ra		se									
Concomitant treatments	Drug free baseline per Concomitant pain trea		Unclear									
Outcomes			CAPSAI	CIN 0.075% CRI	EAM (FIXED DOSE 4X PER DAY)	PL	ACE	во				
measures and effect sizes			N	k	mean	N	k	mean	Δ			
	pain score: VAS – 28d <sup>a</sup> VAS – 56d <sup>a</sup>	Continuous Continuous	40 40		17 39	40 40		26 39	MD=-9.000 MD=0.000			
	VAS – 84d <sup>a</sup> adverse events: Burning pain – 56d Pruritus – 56d <sup>b</sup> Rash – 56d	Continuous Dichotomous Dichotomous Dichotomous	40 40 40 40	29 4 1	37 (72.5%) (10.0%) (2.5%)	40 40 40 40		35 (40.0%) (5.0%) (0.0%)	MD=2.000 OR=3.955 (CI: 1.546, 10.114) OR=2.111 (CI: 0.364, 12.240) OR=3.076 (CI: 0.122, 77.796)			
	b described as 'itching'	a baseline data not relevant as outcome is pain relief b described as 'itching' in publication										
Comments	indication is distal pa	nful polyneuropa	athy									

Study	Luria et al. (2000)
Pain category	Peripheral pain
Study design	Country: Israel Design: Parallel Inclusion criteria: PDN with pain intensity of at least 4 on NRS 11 point Exclusion criteria: No exclusion criteria described Study length (days): 70 Intention-to-treat analysis? No
Participants	Total number of patients: 40 Number of males: 22 (55.0%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.55 (NRS (average of arm means)) Mean age: 54
Intervention(s)	(1) Lamotrigine 400mg/d Intervention: lamotrigine Length of treatment (weeks): 8

	Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d Notes: started at 25 mg/d for 2 weeks, incre (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose	eased to 50 mg/d fo	or a fur	ther	2 weeks and then	100, 20	00, 3	800, 400 mg/d e	each for 1 week				
oncomitant eatments	Drug free baseline period? Yes (duration: 7d) Concomitant pain treatment allowed? No (Patients were allowed rescue doses of simple analgesics (paracetamol or dipyrone) and NSAIDs)												
tcomes			LAN	IOTR	IGINE 400MG/D	PL	ACE	во					
easures and ect sizes			N	k	mean	N	k	mean	Δ				
	pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 56d <sup>b</sup> at least 50% pain reduction (NRS) – 56d  major adverse events (defined as leading to withdrawal):  any major adverse event – 56d  adverse events:  Drowsiness – 56d	Continuous Continuous Dichotomous Dichotomous	18 18 18 20	9 1 2	6.5 (SD 2.12) 3.8 (SD 2.97) (50.0%) (5.0%)	16 16 16 20	3	6.6 (SD 1.2) 5.2 (SD 2) (18.8%) (0.0%)	MD=-1.400 (CI: -3.086, 0.286) OR=4.333 (CI: 0.912, 20.595) OR=3.154 (CI: 0.121, 82.165) OR=0.630 (CI: 0.093, 4.244)				
	GI disorders headache Rash – 56d treatment withdrawal: unspecified/other reason – 56d protocol deviation – 56d poor compliance – 56d Rash – 56d  a Ns inferred; demographic data on patients who b Ns inferred c one for personal reasons, one for impotence b		20 20 20 20 20 20 20 20	7 3 2 0 0 1 1	(35.0%) (15.0%) (10.0%) (0.0%) (0.0%) (5.0%)	20 20 20 20 20 20	4 1 0 2 <sup>c</sup> 2 0 0	(20.0%) (5.0%) (0.0%) (10.0%) (10.0%) (0.0%) (0.0%)	OR=2.154 (CI: 0.515, 9.000) OR=3.353 (CI: 0.318, 35.364) OR=5.541 (CI: 0.249, 123.079)  OR=0.180 (CI: 0.008, 4.009) OR=0.180 (CI: 0.008, 4.009) OR=3.154 (CI: 0.121, 82.165) OR=3.154 (CI: 0.121, 82.165)				

Study	Max et al. (1988)
Pain category	Peripheral pain
Study design	Country: USA Design: Crossover
	Inclusion criteria: daily PHN for at least 3 months, normal cognitive and communicative ability
	Inclusion criteria: daily PHN for at least 3 months, normal cognitive and communicative ability  Exclusion criteria: presence of another pain as severe as the PHN, depression severe enough to mandate immediate treatment with tricyclics (ie suicida

	ideation), medical contraindication	s to study drugs												
	Study length (days): 105	, ,												
	Intention-to-treat analysis? No													
Participants	Total number of patients: 58													
	Number of males: 31 (53.4%)													
	Underlying cause of neuropathic pain: Post-herpetic neuralgia  Mean duration of NP (in months): 19													
	Baseline pain severity: not reported (not reported													
	(duration of NP is median) (Patien	t characteristics o	iven are	of the 5	58 patients who cor	mpleted a	at leas	t 1 period))						
	(duration of NP is median) (Patient characteristics given are of the 58 patients who completed at least 1 period))  Mean age: 72													
	iviean age. 72													
Intervention(s)	(1) Amitriptyline flexi-dose													
	Intervention: amitriptyline													
	Length of treatment (weeks): 6													
	Fixed/flexible dose regimen: Flexible	ole dose												
	Mean dose: 65mg/d													
	Range: 12.5–150													
	Notes: dose escalation from 12.5 t	to 150 mg (or until	I highes	t tolerab	le level)									
	(2) Placebo (lactose)													
	Intervention: placebo	ervention: placebo												
	Length of treatment (weeks): 6													
	Fixed/flexible dose regimen: Flexible	ole dose												
	Notes: Lactose 250 to 1500 mg/d													
Concomitant	Drug free baseline period? Yes (d	uration: 14d)												
treatments	Concomitant pain treatment allowed	ed? Unclear												
Outcomes			AMIT	RIPTYI I	NE FLEXI-DOSE	PΙΔ	CEBO	(LACTOSE)						
measures and								· ,						
effect sizes			N	k	mean	N	k	mean	Δ					
	pain score:													
	100% pain relief – 42d	Dichotomous	62	1	(1.6%)	62	0	(0.0%)	OR=3.049 (CI: 0.122, 76.298)					
	major adverse events													
	(defined as leading to withdrawal):	D'abatana	00	<b>-</b> a	(0.40()	00	<b>o</b> b	(4.00/)	OD 4 705 (OL 0 004 7 555)					
	any major adverse event – 42d adverse events:	Dichotomous	62	5 <sup>a</sup>	(8.1%)	62	3 <sup>b</sup>	(4.8%)	OR=1.725 (CI: 0.394, 7.555)					
	Dizziness – 42d <sup>c</sup>	Dichotomous	62	11	(17.7%)	62	15	(24.2%)	OR=0.676 (CI: 0.282, 1.618)					
	Dry mouth – 42d°	Dichotomous	62	38	(61.3%)	62	24	(38.7%)	OR=2.507 (CI: 1.217, 5.164)					
	impaired attention – 42d <sup>d</sup>	Dichotomous	62	4	(6.5%)	62	0	(0.0%)	OR=9.615 (CI: 0.507, 182.506)					
	mood disturbance – 42d <sup>e</sup>					OR=9.615 (CI: 0.507, 182.506)								
	Sedation – 42d <sup>c</sup> Dichotomous 62 38 (61.3%) 62 24 (38.7%) OR=2.507 (CI: 1.217, 5.16													
		urination difficulties $-42d^c$ Dichotomous 62 8 (12.9%) 62 0 (0.0%) OR=19.495 (CI: 1.100, 345.635)												
	a due to urinary retention, sedation ,di.		s, or rash											
	b due to dizziness, disorientation, or ra	ash												

	c calculated from percentages d calculated from percentages; reported as 'poor concentration' e calculated from percentages; reported as 'mood change'
Comments	crossover study of 2 drugs and placebo but lorazepam is not in scope so data on this drug was not extracted; pain intensity was reported with verbal descriptors (from two 13-word lists) with numerical equivalents of these descriptors - as this was not commonly used in other studies, this was not extracted (as unable to combine data with other studies); pain relief was also reported in a 5 point scale but this was not extracted for similar reasons; as only outcomes distracted were dichotomous, all were extracted on an intention-to-treat basis (ie. all patients randomised were included in the denominator); 21 patients dropped out, 14 for drug reactions (reported here for each group) 3 for no pain relief, 2 for onset of more severe pain not related to neuropathy, 1 acute bereavement, 1 medication error, 1 with no reason given (but treatment group of these later patients was not reported); results of amitriptyline showed a dose response relationship; 15 of 58 patients in the study were considered 'depressed' at baseline, though for most this was mild depression (pain relief was similar in these patients than those without depression)

Study	McCleane (1999)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: UK  Design: Parallel Inclusion criteria: All participants had failed on codeine or NSAID based analgesics Exclusion criteria: People on anticonvulsants, sensitivity to lamotrigine Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 100 Number of males: 51 (51.0%) Underlying cause of neuropathic pain: Mixed neuropathic pain Mean duration of NP (in months): 74 Baseline pain severity: 6.76 (VAS) Mean age: 45
Intervention(s)	(1) Lamotrigine 200 mg/d Intervention: lamotrigine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d Notes: One 25 mg tablet per day for 14 days, then 2 daily for 14 days, 4 for 7 days, 6 for 7 days and then 8 until the end of the study perio (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose
Concomitant	Drug free baseline period? No

tcomes			LAM	OTRIGII	NE 200 MG/D	PL	ACE	во		
easures and fect sizes			N	k	mean	N	k	mean	Δ	
	pain score:									
	VAS – 0d <sup>a</sup>	Continuous	50		6.76	50		6.76	MB 0.040	
	$VAS - 56d^b$	Mean change	50 50	0	-0.01	50 50	0	0.03	MD=-0.040	
	at least 50% pain reduction (VAS) patient-reported improvement in	Dichotomous	50	0	(0.0%)	50	0	(0.0%)		
	daily physical and emotional									
	functioning, including sleep:									
	VAS Sleep – 56d <sup>b</sup>	Mean change	50		-0.27	50		-0.15	MD=-0.120	
	major adverse events									
	(defined as leading to withdrawal):			-0			_d			
	any major adverse event – 56d	Dichotomous	50	5 <sup>c</sup>	(10.0%)	50	5 <sup>d</sup>	(10.0%)	OR=1.000 (CI: 0.271, 3.694)	
	treatment withdrawal: due to lack of efficacy – 56d	Dichotomous	50	4	(8.0%)	50	2	(4.0%)	OR=2.087 (CI: 0.365, 11.948)	
	Nausea – 56d	Dichotomous	50 50	3	(6.0%)	50	5	(4.0%)	OR=0.574 (Cl. 0.365, 11.946) OR=0.574 (Cl: 0.130, 2.545)	
	Rash – 56d	Dichotomous	50	2	(4.0%)	50	0	(0.0%)	OR=5.206 (CI: 0.244, 111.238)	
	Bad Taste of tablets – 56d	Dichotomous	50	1	(2.0%)	50	1	(2.0%)	OR=1.000 (CI: 0.061, 16.444)	
	<sup>a</sup> Ns inferred from adverse effects data; va <sup>b</sup> Ns inferred from adverse effects data	alue is average baseline	e data acro	oss pati	ents in both groups					
	° nausea - 3. rash - 2									
	d all because of nausea									
	all because of fladsea									

Study	McCleane (2000)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: Ireland Design: Parallel Inclusion criteria: Chronic neuropathic pain, unresponsive or intolerant to analgesics, TCA or NSAIDs Exclusion criteria: known sensitivity to capsaicin or doxepin, broken skin over the painful area, Study length (days): 28 Intention-to-treat analysis? No
Participants	Total number of patients: 100 Number of males: 29 (29.0%) Underlying cause of neuropathic pain: Mixed neuropathic pain

	Mean duration of NP (in n	~~~+hc\- 59 65							
	· ·	•							
	Baseline pain severity: 7.	12 (VAS (average	e or arm	means))					
	Mean age: 46.65								
Intervention(s)	(1) Capsaicin 0.025% (fix	ed dosage 3x pe	r day)						
	Intervention: capsaicin cre								
	Length of treatment (weel								
	Fixed/flexible dose regime								
	Notes: used equal amour	it 3 times daily							
	(2) Placebo								
	Intervention: placebo Length of treatment (weel	I.=\. A							
	I I ength of freatment (wee!	KS): 4							
	Fixed/flexible dose regime	en: Fixed dose							
Concomitant		en: Fixed dose							
Concomitant treatments	Fixed/flexible dose regime	en: Fixed dose	lear						
treatments Outcomes	Fixed/flexible dose regime  Drug free baseline period	en: Fixed dose		AICIN 0.02	25% (FIXED DOSAGE 3X PER DAY)	PL	ACE	во	
treatments	Fixed/flexible dose regime  Drug free baseline period	en: Fixed dose		AICIN 0.02	25% (FIXED DOSAGE 3X PER DAY) mean		ACE k	BO mean	Δ
Outcomes measures and	Fixed/flexible dose regime  Drug free baseline period	en: Fixed dose	CAPS		mean				Δ
Outcomes measures and	Drug free baseline period Concomitant pain treatme  pain score: VAS – 0d	en: Fixed dose  ? No ent allowed? Unc  Continuous	CAPS N		mean 7.11	N 41		<b>mean</b> 7.13	
Outcomes measures and	Pain score: VAS – 0d VAS – 28d	en: Fixed dose I? No ent allowed? Unc	CAPS		mean	N		mean	Δ MD=-1.120
Outcomes measures and	Pain score: VAS – 0d VAS – 28d adverse events:	en: Fixed dose  ? No ent allowed? Unc  Continuous	CAPS N		mean 7.11	N 41		<b>mean</b> 7.13 0°	
Outcomes measures and	pain score: VAS – 0d VAS – 28d adverse events: Burning pain – 28d <sup>b</sup> treatment withdrawal:	en: Fixed dose  1? No ent allowed? Unc  Continuous Mean change Dichotomous	33 33 33	<b>k</b> 27	mean  7.11 -1.12 (SD 1.99) (81.8%)	N 41 41 41	<b>k</b> 22	7.13 0° (53.7%)	MD=-1.120 OR=3.886 (CI: 1.324, 11.407)
Outcomes measures and	pain score: VAS – 0d VAS – 28d adverse events: Burning pain – 28d <sup>b</sup>	en: Fixed dose  ? No ent allowed? Unc  Continuous Mean change	CAPS N 33 33	k	7.11 -1.12 (SD 1.99)	N 41 41	k	<b>mean</b> 7.13 0°	MD=-1.120
Outcomes measures and	pain score: VAS – 0d VAS – 28d adverse events: Burning pain – 28dbtreatment withdrawal: poor compliance – 28d a study stated that values for	en: Fixed dose  ? No ent allowed? Unc  Continuous Mean change Dichotomous Dichotomous	33 33 33 33	<b>k</b> 27	mean  7.11 -1.12 (SD 1.99) (81.8%)	N 41 41 41	<b>k</b> 22	7.13 0° (53.7%)	MD=-1.120 OR=3.886 (CI: 1.324, 11.407)
Outcomes measures and	pain score: VAS – 0d VAS – 28d adverse events: Burning pain – 28db treatment withdrawal: poor compliance – 28d  a study stated that values for defined as 'burning discored.	en: Fixed dose  I? No ent allowed? Unc  Continuous Mean change Dichotomous Dichotomous r placebo did not chafort' in study	33 33 33 33 anange	<b>k</b> 27 8	mean  7.11 -1.12 (SD 1.99) (81.8%)	N 41 41 41	22 3	7.13 0° (53.7%) (7.3%)	MD=-1.120 OR=3.886 (CI: 1.324, 11.407) OR=4.053 (CI: 0.980, 16.763)

Study	Mishra et al. (2012)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: India Design: Parallel Inclusion criteria: Patients with cancer having neuropathic pain Exclusion criteria: Patients with unstable cardiovascular, respiratory, hepatic or hematological disease or psychological disorder and drug abuse were excluded. Study length (days): 28 Intention-to-treat analysis? Unclear

Participants	Total number of patients: 120											
·	Number of males: not reported											
	Underlying cause of neuropathic pain: Cancer pain											
	Mean duration of NP (in months):	•										
	Baseline pain severity: 7.6 (VAS		eans))									
	Mean age: not reported	(average of all in in	icariojj									
Intervention(s)	(1) Amitriptyline 100 mg/d											
	Intervention: amitriptyline											
	Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixe	d dose										
	Set dose: 100mg/d	u uose										
	Notes: 50 mg/d for 1 week, 75 mg	g/d in second weel	k, 100 r	mg/d i	n 3rd week							
	(2) gabapentin 1800 mg/d											
	Intervention: gabapentin											
	Length of treatment (weeks): 4	Length of treatment (weeks): 4										
	Fixed/flexible dose regimen: Fixed dose											
	Set dose: 1800mg/d Notes: 900 mg/d for 1 week in divided doses, 1200 mg/d in 2nd week and 1800 mg/d in 3rd week											
	(3) Pregabalin 600 mg/d											
	Length of treatment (weeks): 4	Intervention: pregabalin Length of treatment (weeks): 4										
	Fixed/flexible dose regimen: Fixed	d dose										
	Set dose: 600mg/d		,									
	Notes: 150 mg/d for 1 week in div	/ided doses, 200 n	ng/d in	2nd w	eek and 600 mg/d	in 3rd we	eek					
	(4) Placebo											
	Intervention: placebo											
	Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose											
		4 4030										
Concomitant treatments	Drug free baseline period? No											
	Concomitant pain treatment allow	ved? Unclear (imm	ediate	releas	e morphine was gi	iven orally	y as r	escue analgesia)				
Outcomes			AMI	TRIPT	YLINE 100 MG/D	GAE	BAPE	NTIN 1800 MG/D				
measures and effect sizes			N	k	mean	N	k	mean	Δ			
	pain score:											
	VAS – 0d	Continuous	30		7.77 (SD 1)	30		7.5 (SD 1.1)				
	VAS – 14d <sup>a</sup>	Continuous	30		6.85 (SD 1.2)	30		6.39 (SD 1.6)	MD=0.460 (CI: -0.256, 1.176)			
	VAS – 21d <sup>a</sup> VAS – 28d	Continuous					4.87 (SD 1.28)	MD=-0.020 (CI: -0.601, 0.561)				
	use of rescue medication:	Conunuous	Continuous 30 3.23 (SD 0.7) 30 3.07 (SD 0.8) MD=0.160					MD=0.160 (CI: -0.220, 0.540)				
	proportion requiring morphine <sup>b</sup>	Dichotomous	30	17	(56.7%)	30	10	(33.3%)				

		AMI	TRIPT	YLINE 100 MG/D	PRE	GAI	BALIN 600 MG/D		
		N	k	mean	N	k	mean	Δ	
pain score:									
VAS – 0d	Continuous	30		7.77 (SD 1)	30		7.77 (SD 0.81)		
VAS – 14d <sup>a</sup>	Continuous	30		6.85 (SD 1.2)	30		6.3 (SD 1.2)	MD=0.550 (CI: -0.057, 1.157)	
VAS – 21d <sup>a</sup>	Continuous	30		4.85 (SD 1)	30		4.31 (SD 1.05)	MD=0.540 (CI: 0.021, 1.059)	
VAS – 28d	Continuous	30		3.23 (SD 0.7)	30		2.5 (SD 0.7)	MD=0.730 (CI: 0.376, 1.084)	
use of rescue medication:	Continuodo	00		0.20 (02 0.1)	00		2.0 (02 0.1)	MB=0.700 (Oil 0.070, 1.001)	
proportion requiring morphine <sup>b</sup>	Dichotomous	30	17	(56.7%)	30	5	(16.7%)		
Estimated from graphs calculated from percentage									
		AM	ITRIP	TYLINE 100 MG/D	Pl	_AC	ЕВО	_	
		N	k	mean	N	k	mean	Δ	
pain score:									
VAS – 0d	Continuous	30		7.77 (SD 1)	30	)	7.47 (SD 1)		
VAS – 14d <sup>a</sup>	Continuous	30		6.85 (SD 1.2)	30		6.1 (SD 0.8)	MD=0.750 (CI: 0.234, 1.266)	
VAS – 21d <sup>a</sup>	Continuous	30		4.85 (SD 1)	30		4.4 (SD 0.6)	MD=0.450 (CI: 0.033, 0.867)	
VAS – 28d	Continuous	30		3.23 (SD 0.7)	30		3.4 (SD 0.66)	MD=-0.170 (CI: -0.514, 0.174)	
use of rescue medication:	Commodu	00		0.20 (02 0.1)	00		0.1 (02 0.00)	WID= 0.170 (OI. 0.011, 0.171)	
proportion requiring morphine	Dichotomous	30	17 <sup>b</sup>	(56.7%)	30	3	0 (100.0%)		
Estimated from graphs calculated from percentage									
· · ·		GAI	BADEI	NTIN 1800 MG/D	DDE	GAE	BALIN 600 MG/D		
		N	k	mean	N	K	mean	Δ	
pain score:									
VAS – 0d	Continuous	30		7.5 (SD 1.1)	30		7.77 (SD 0.81)		
VAS – 14d <sup>a</sup>	Continuous	30		6.39 (SD 1.6)	30		6.3 (SD 1.2)	MD=0.090 (CI: -0.626, 0.806)	
VAS – 21d <sup>a</sup>	Continuous	30		4.87 (SD 1.28)	30		4.31 (SD 1.05)	MD=0.560 (CI: -0.032, 1.152)	
VAS – 28d	Continuous	30		3.07 (SD 0.8)	30		2.5 (SD 0.7)	MD=0.570 (CI: 0.190, 0.950)	
use of rescue medication:									
proportion requiring morphine <sup>b</sup>	Dichotomous	30	10	(33.3%)	30	5	(16.7%)		
Estimated from graphs calculated from percentage									
		GA	BAPE	NTIN 1800 MG/D	PL	ACE	ВО		
		N	k	mean	N	k	mean	- Δ	
pain score:	0	20		7 F (CD 4 4)	20		7.47 (SD 1)		
VAS – 0d	Continuous	30		7.5 (SD 1.1)	30		1.47 (30 1)		

	VAS – 14d <sup>a</sup> VAS – 21d <sup>a</sup> VAS – 28d use of rescue medication: proportion requiring morphine	Continuous Continuous Continuous Dichotomous	30 30 30 30	10 <sup>b</sup>	6.39 (SD 1.6) 4.87 (SD 1.28) 3.07 (SD 0.8) (33.3%)	30 30 30	)	6.1 (SD 0.8) 4.4 (SD 0.6) 3.4 (SD 0.66) (100.0%)	MD=0.290 (CI: -0.350, 0.930) MD=0.470 (CI: -0.036, 0.976) MD=-0.330 (CI: -0.701, 0.041)
	<sup>a</sup> Estimated from graphs <sup>b</sup> calculated from percentage								
			PRE	EGAB	ALIN 600 MG/D	PL	ACEB	0	_
			N	k	mean	N	k	mean	Δ
	pain score:  VAS – 0d  VAS – 14d <sup>a</sup> VAS – 21d <sup>a</sup> VAS – 28d  use of rescue medication:	Continuous Continuous Continuous Continuous	30 30 30 30		7.77 (SD 0.81) 6.3 (SD 1.2) 4.31 (SD 1.05) 2.5 (SD 0.7)	30 30 30 30		7.47 (SD 1) 6.1 (SD 0.8) 4.4 (SD 0.6) 3.4 (SD 0.66)	MD=0.200 (CI: -0.316, 0.716) MD=-0.090 (CI: -0.523, 0.343) MD=-0.900 (CI: -1.244, -0.556)
	proportion requiring morphine  a Estimated from graphs b calculated from percentage	Dichotomous	30	5 <sup>b</sup>	(16.7%)	30	30	(100.0%)	
Comments	VRS but this was not extracted a adverse events were dizziness, d	s it is not possible to ry mouth, somnoler ng of adverse events	synthence, nau ace, nau across	sise isea all d	this with a 7-point P and constipation builrug in a table); auth	GIC sca t did not ors stat	ale; th repo e tha	ne study reported rt actual rates of t in patients treat	global pain was reported on a 5-point I that the most commonly reported these events with each treatment arm ed with pregabalin, the maximum mum in the placebo group.

Study	Moon et al. (2010)
Pain category	Peripheral pain
Study design	Country: Korea  Design: Parallel Inclusion criteria: Outpatients at least 18 years of age with a diagnosis of peripheral neuropathic pain syndrome for at least 3 months, and a daily pain rating score of at least 4 in the 7 days prior to randomisation  Exclusion criteria: pregnancy, lactating women (or of childbearing potential and not using effective contraception), unstable medication conditions, significant medical conditions including neurologic conditions causing severe pain unrelated to DPN, PHN or posttraumatic NP, participation in other studies at the same time or within 30 days before screening, any who had received concomitant transcutaneous electrical nerve stimulation or acupuncture  Study length (days): 56 Intention-to-treat analysis? Yes
Participants	Total number of patients: 240 Number of males: 111 (46.3%)

	overall improvement in quality of life: EQ-5D - health status index – 56d EQ-5D - health status VAS – 56d treatment withdrawal:	Continuous Continuous	162 162			78 78	MD=0.030 (CI: -0.035, 0.095) MD=3.500 (CI: -1.180, 8.180)	
	due to lack of efficacy – 56d unspecified/other reason – 56d withdrawal of consent – 56d	Dichotomous Dichotomous Dichotomous	162 162 162	8 6 5	(4.9%) (3.7%) (3.1%)	78 6 (7.7%) 78 2 (2.6%) 78 4 (5.1%)	OR=0.623 (CI: 0.209, 1.863) OR=1.462 (CI: 0.288, 7.412) OR=0.589 (CI: 0.154, 2.258)	
	Rates of adverse events not reported for	or placebo						
Comments	diagnoses included DPN, PHN, and po-	diagnoses included DPN, PHN, and posttraumatic neuropathic pain						

Study	Morello et al. (1999)
Pain category	Peripheral pain
Study design	Country: USA  Design: Crossover  Inclusion criteria: PDN for at least 3 months, experienced chronic daily pain for more than 3 months, creatinine clearance of 0.5 ml/s  Exclusion criteria: non-DPN pain more severe than DPN pain, allergy or adverse reaction to either drug, severe depression by diagnosis or as assessed with the Beck Depression Inventory, pregnancy, treatment for seizures, cardiovascular symptoms of postural hypotension, sympotomatic coronary artery or peripheral vascular disease, creatinine clearance < 0.5 ml/s, prior treatment with either drug only if the previous dosage exceeding the study's maximum dosage of either drug  Study length (days): 105  Intention-to-treat analysis? No
Participants	Total number of patients: 25 Number of males: 24 (96.0%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 68.4 Baseline pain severity: 1.005 (Gracey pain scale (average of arm means, both estimated from graph)) Mean age: 60.4 (SD: 10.8)
Intervention(s)	(1) Amitriptyline flexible dose Intervention: amitriptyline Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Mean dose: 59mg/d Range: 25–75 Notes: 2-day titration (2) Gabapentin flexible dose

	Intervention: gabapentin Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flex Mean dose: 1565mg/d Range: 900–1800 Notes: 2-day titration	ible dose										
oncomitant	Drug free baseline period? Yes (duration: 14d)											
eatments	Concomitant pain treatment allow analgesics; however, up to 4 dos											
utcomes			AMI	TRIPT	YLINE FLEXIBLE DOSE	GAE	BAPE	NTIN FLEXIBLE DOSE				
easures and fect sizes			N	k	mean	N	k	mean	Δ			
	pain score:											
	100% pain relief – 42d major adverse events	Dichotomous	25	5	(20.0%)	25	5	(20.0%)	OR=1.000 (CI: 0.250, 3.998)			
	(defined as leading to withdrawal): any major adverse event – 42d <sup>a</sup> adverse events:	Dichotomous	25	3	(12.0%)	25	2	(8.0%)	OR=1.568 (CI: 0.239, 10.300)			
	any adverse event – 42d	Dichotomous	25	17	(68.0%)	25	18	(72.0%)	OR=0.826 (CI: 0.246, 2.776)			
	Blurred vision – 42d	Dichotomous	25	2	(8.0%)	25	1	(4.0%)	OR=2.087 (CI: 0.177, 24.615)			
	Constipation – 42d	Dichotomous	25	3	(12.0%)	25	5	(20.0%)	OR=0.545 (CI: 0.115, 2.581)			
	Diarrhoea – 42d	Dichotomous	25	1	(4.0%)	25	2	(8.0%)	OR=0.479 (CI: 0.041, 5.652)			
	Dizziness – 42d	Dichotomous	25	2	(8.0%)	25	7	(28.0%)	OR=0.224 (CI: 0.041, 1.210)			
	headache – 42d	Dichotomous	25	3	(12.0%)	25	2	(8.0%)	OR=1.568 (CI: 0.239, 10.300)			
	lethargy – 42d	Dichotomous	25	5	(20.0%)	25	4	(16.0%)	OR=1.313 (CI: 0.308, 5.598)			
	Nausea – 42d	Dichotomous	25	1	(4.0%)	25	2	(8.0%)	OR=0.479 (CI: 0.041, 5.652)			
	oedema – 42d	Dichotomous	25	2	(8.0%)	25	3	(12.0%)	OR=0.638 (CI: 0.097, 4.188)			
	Pruritus – 42d	Dichotomous	25	3	(12.0%)	25	1	(4.0%)	OR=3.273 (CI: 0.317, 33.837)			
	Weight gain – 42d treatment withdrawal:	Dichotomous	25	6	(24.0%)	25	0	(0.0%)	OR=17.000 (CI: 0.902, 320.36			
	due to lack of efficacy – 42d protocol deviation – 42d	Dichotomous Dichotomous	25 25	0 1	(0.0%) (4.0%)	25 25	1 0	(4.0%) (0.0%)	OR=0.320 (CI: 0.012, 8.245) OR=3.122 (CI: 0.121, 80.391)			
	treatment phase 1 pain score:											
	Gracely pain score – 0d <sup>b</sup>	Continuous	10		1.06	9		0.95				
	Gracely pain score – 28db	Mean change	10		-0.374	9		-0.261	MD=-0.113			
	Gracely pain score – 28d <sup>b</sup>	Continuous	10		0.82	9		0.63	MD=0.190			
	Gracely pain score – 42d	Mean change	10		-0.31 (SD 0.231)	9		-0.44 (SD 0.308)	MD=0.130 (CI: -0.117, 0.377)			
	Gracely pain score – 42d <sup>b</sup>	Continuous	10		0.52	9		0.68	MD=-0.160			
	treatment phase 2 pain score:											
	Gracely pain score – 0d <sup>b</sup>	Continuous	9		0.84	10		0.98				
	Gracely pain score – 28db	Continuous	9		0.37	10		0.78	MD=-0.410			
	Gracely pain score – 42d <sup>b</sup>	Continuous	9		0.8	10		0.36	MD=0.440			

	authors did not perform ITT analysis but dichotomous outcomes are recorded here including all patients randomised in the denominator; authors also report proportion of patients with various levels of pain relief but it was not possible to extract this into 30% or 50% response	
	· · · · · · · · · · · · · · · · · · ·	

Study	Norrbrink & Lundeberg (2009)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: Sweden  Design: Parallel Inclusion criteria: Participants between 18 and 70 years of age with no known cognitive dysfunction and currently not using tramadol with an SCI for more than 12 months, pain classified as neuropathic pain at or below the level of leision 14 and of a duration of more than 6 months. Patients had to be naive to tramadol and have no signs of intolerance to treatment with opioids in the past  Exclusion criteria: Patients who were pregnant or lactating, patients who had previously taken tramadol, patients who were intolerant of opioids.  Study length (days): 28  Intention-to-treat analysis? Yes
Participants	Total number of patients: 35 Number of males: 28 (80.0%) Underlying cause of neuropathic pain: Spinal cord injury pain Mean duration of NP (in months): not reported Baseline pain severity: 5.5 (present pain intensity on combined NRS and VRS (average of arm medians); average of medians for present pain intensity on combined NRS and VRS scale is 4) Mean age: 51.3 (SD: 10.8)
Intervention(s)	(1) Tramadol (flexible dose) Intervention: tramadol Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Mean dose: 326mg/d Range: 150–400 Notes: initial dose was 50 mg/d 3 times per day and increased every 5 days by 50 mg until a maximum of 400 mg/d was reached (if optimal pain relief was obtained or if adverse events became intolerabel before maximum dose was reached, patients stopped increasing their dosage) (2) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (Patients allowed to continue stable pain medication and asked not to make any changes in their current dosages)

utcomes	-		TRAMADOL (FLEXIBLE DOSE)			DI	۸۲	EBO	
easures and fect sizes			N	k	mean			mean	Δ
	pain score:								
	combined NRS & VRS – 0d	Continuous	23		med: 3 <sup>a</sup>	12		med: 7 <sup>b</sup>	
	combined NRS & VRS – 0d	Continuous	23		med: 4 <sup>c</sup>	12		med: 5 <sup>d</sup>	
	combined NRS & VRS – 0d	Continuous	23		med: 4°	12		med: 7 <sup>b</sup>	
	combined NRS & VRS – 0d	Continuous	23		med: 3 <sup>a</sup>	12		med: 5 <sup>d</sup>	
	combined NRS & VRS – 28d	Continuous	23		med: 3 <sup>e</sup>	12		med: 5.5 <sup>t</sup>	
	combined NRS & VRS – 28d	Continuous	23		med: 3 <sup>e</sup>	12		med: 6.5 <sup>g</sup>	
	combined NRS & VRS – 28d	Continuous	23		med: 3 <sup>n</sup>	12		med: 5.5 <sup>7</sup>	
	combined NRS & VRS – 28d	Continuous	23		med: 3 <sup>n</sup>	12		med: 6.5 <sup>g</sup>	
	patient-reported improvement in								
	daily physical and emotional								
	functioning, including sleep:								
	HADS-A – 0d	Continuous	23		med: 7 <sup>i</sup>	12		med: 9 <sup>j</sup>	
	HADS-A – 28d	Continuous	23		med: 6 <sup>k</sup>	12		med: 9 <sup>1</sup>	
	HADS-D – 0d	Continuous	23		med: 4 <sup>m</sup>	12		med: 4.5 <sup>n</sup>	
	HADS-D – 28d	Continuous	23		med: 3°	12		med: 5 <sup>p</sup>	
	major adverse events	Continuodo			mou. o			11100.0	
	(defined as leading to withdrawal):								
	,	Dichotomous	22	11	(47 00/)	12	2	(16 70/)	OD_4 502 (CI: 0.017, 25.714)
	any major adverse event – 28d	Dicholomous	23	11	(47.8%)	12	2	(16.7%)	OR=4.583 (CI: 0.817, 25.714)
	adverse events:	D'abatana.	00	04	(04.00/)	40	_	(50.00()	OD 7 500 (OL 4 400 47 070)
	any adverse event – 28d	Dichotomous	23	21	(91.3%)			(58.3%)	OR=7.500 (CI: 1.180, 47.676)
	Constipation – 28d	Dichotomous	23	9	(39.1%)	12			OR=1.929 (CI: 0.409, 9.104)
	Dizziness – 28d	Dichotomous	23	12	(52.2%)		3		OR=3.273 (CI: 0.700, 15.291)
	Dry mouth – 28d	Dichotomous	23	12	(52.2%)			(25.0%)	OR=3.273 (CI: 0.700, 15.291)
	Nausea – 28d	Dichotomous	23	11	(47.8%)	12	2	(16.7%)	OR=4.583 (CI: 0.817, 25.714)
	tiredness – 28d	Dichotomous	23	17	(73.9%)			(16.7%)	OR=14.167 (CI: 2.387, 84.070)
	voiding dysfunction – 28d	Dichotomous	23	1	(4.3%)	12	0	(0.0%)	OR=1.667 (CI: 0.063, 44.047)
	treatment withdrawal:								
	unspecified/other reason – 28d	Dichotomous	23	11	(47.8%)	12	2	(16.7%)	OR=4.583 (CI: 0.817, 25.714)
	Treatment completers								
	patient-reported global improvement:								
	PGIC - much worse – 28d	Dichotomous	12	0	(0.0%)	10		(0.0%)	OR=0.840 (CI: 0.015, 46.086)
	PGIC - moderately worse – 28d	Dichotomous	12	0	(0.0%)	10		(0.0%)	OR=0.840 (CI: 0.015, 46.086)
	PGIC - minimally worse – 28d	Dichotomous	12	0	(0.0%)	10	0	(0.0%)	OR=0.840 (CI: 0.015, 46.086)
	PGIC - no change – 28d	Dichotomous	12	5	(41.7%)	10	9	(90.0%)	OR=0.079 (CI: 0.007, 0.843)
	PGIC - minimally better – 28d	Dichotomous	12	3	(25.0%)	10	1	(10.0%)	OR=3.000 (CI: 0.260, 34.575)
	PGIC - moderately better – 28d	Dichotomous	12	4	(33.3%)	10	0	(0.0%)	OR=11.118 (CI: 0.522, 236.755)
	PGIC - at least moderately better – 28d	Dichotomous	12	4	(33.3%)	10	0	(0.0%)	OR=11.118 (CI: 0.522, 236.755)
	PGIC - much better – 28d	Dichotomous	12	0	(0.0%)	10	0	(0.0%)	OR=0.840 (CI: 0.015, 46.086)
	a present pain intensity; IQR given - 2.5;5								
	<sup>b</sup> general pain intensity; IQR given - 4.5;7								
	general pain intensity; IQR given - 3;5								
	present pain intensity; IQR given - 4.5;5.5								
	e general pain intensity; IQR given - 2.5;5								
	f present pain intensity; IQR given - 3.5;7								
	g general pain intensity; IQR given - 6;7.25								
	n present pain intensity; IQR given - 2;4								
	/ IQRs also reported 2:9								

	I IQRs also reported 5.75;13 I IQRs also reported 1;8 I IQRs also reported 5.5;12 I IQRs also reported 2;8.5 I IQRs also reported 3;13.5 I IQRs also reported 2;6 I IQRs also reported 2;4.5
Comments	intentin-to-treat analysis included all patients who received at least one dose of study medication

Study	Nurmikko et al. (2007)
Pain category	Peripheral pain
Study design	Country: UK & Belgium Design: Parallel Inclusion criteria: Patients with a current history of unilateral peripheral neuropathic pain and allodynia Exclusion criteria: cannabinoid use or nabilone at least 7 days before randomisation, psychiatric conditions beyond depression, concomitant severe non-neuropathic pain, known hisotyr of alcohol or substance abuse, known hypersensitivity to cannabinoilds, scheduled surgery or anaesthesia, severe cardiovascular condition, poorly controlled hypertension, epilepsy, pregnancy, lactation, significant hepatic or renal impairment Study length (days): 35 Intention-to-treat analysis? Yes
Participants	Total number of patients: 125 Number of males: 51 (40.8%) Underlying cause of neuropathic pain: Peripheral neuropathic pain Mean duration of NP (in months): 75.6 Baseline pain severity: 7.25 (NRS (average of arm means)) Mean age: 53.35
Intervention(s)	(1) Sativex oral spray (flexible dose) Intervention: cannabis sativa extract Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose Mean dose: 29.43mg/d Notes: Max dose of 8 sprays per 3 hour period and 48 sprays per 24hour period. Each spray delivers 2.7 mg of THC and 2.5mg of CBD; mean number of sprays used daily during the first week was 7.3 (3.5 standard deviation) - this remained stable from the 2nd week onward; over the study period, mean number of daily sprays was 10.9 (6.8 standard deviation)  (2) Placebo Intervention: placebo Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose Notes: mean number of sprays used daily during the first week was 10.9 (3.9 standard deviation) - this remained stable from the 2nd week onward; over

Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (concomitant analgesia maintained at a stable dose)											
Outcomes	- Concomitant pain troution allowed.	oo (oonoonna			RAL SPRAY (FLEXIBLE DOSE)	PLACEBO						
measures and effect sizes			N	k	mean	N k mean	_ Δ					
01100101200												
	pain score:											
	NRS/NRS Pain – 0d	Continuous	63		7.3 (SD 1.4)	62 7.2 (SD 1.5)						
	NRS/NRS Pain – 21d <sup>a</sup>	Continuous	63		5.5 (SD 2.81)	62 6.5 (SD 2.41)	MD=-1.000 (CI: -1.918, -0.082)					
	NRS/NRS Pain – 28d <sup>a</sup>	Continuous	63		5.5 (SD 2.94)	62 6.5 (SD 2.41)	MD=-1.000 (CI: -1.941, -0.059)					
	NRS/NRS Pain – 35d <sup>a</sup>	Continuous	63		5.82 (SD 3.14)	62 6.68 (SD 2.51)						
	at least 30% pain reduction (NRS) – 35d	Dichotomous	63	16	(25.4%)	62 9 (14.5%)	OR=2.005 (CI: 0.810, 4.961)					
	at least 50% pain reduction (NRS) – 35d	Dichotomous	63	13	(20.6%)	62 5 (8.1%)	OR=2.964 (CI: 0.988, 8.896)					
	NPS – 0d <sup>a</sup>	Continuous	63		61.1 (SD 13)	62 62.4 (SD 13.7)						
	NPS – 35d <sup>a</sup>	Mean change	63		-10.1 ´	62 -2.04	MD=-8.030 (CI: -13.830, -2.230					
	patient-reported global improvement:	3.										
	PGIC – 35d	Mean change	63			62	MD=32.260 (CI: 16.400, 48.120					
	patient-reported improvement in	moun onango				0=	02:200 (0:: 10:100; 10:120					
	daily physical and emotional											
	functioning, including sleep:											
	NRS Sleep – 0d <sup>a</sup>	Continuous	63		3 (SD 0.8)	62 3 (SD 0.9)						
	NRS Sleep – 35d <sup>a</sup>	Mean change	63		-0.79	62 -0.36	MD=-0.430 (CI: -0.670, -0.190)					
	major adverse events	wear change	03		-0.79	02 -0.30	MD=-0.430 (CI0.070, -0.190)					
	_											
	(defined as leading to withdrawal):	Dishatamaya	60	4.4	(47 50/)	62 2 (2.20/)	OD 6346 (Cl. 1 345 30 051)					
	any major adverse event – 35d	Dichotomous	63	11	(17.5%)	62 2 (3.2%)	OR=6.346 (CI: 1.345, 29.951)					
	adverse events:	D'abatana	00		(0.00()	00 0 (0.00()	OD 0 454 (OL 0 400 470 405)					
	Diarrhoea	Dichotomous	63	4	(6.3%)	62 0 (0.0%)	OR=9.454 (CI: 0.498, 179.405)					
	Dizziness – 35d	Dichotomous	63	18	(28.6%)	62 9 (14.5%)	OR=2.356 (CI: 0.964, 5.755)					
	Dry mouth – 35d	Dichotomous	63	11	(17.5%)	62 3 (4.8%)	OR=4.160 (CI: 1.100, 15.729)					
	Fatigue – 35d	Dichotomous	63	13	(20.6%)	62 5 (8.1%)	OR=2.964 (CI: 0.988, 8.896)					
	feeling drunk/drugged	Dichotomous	63	6	(9.5%)	62 1 (1.6%)	OR=6.421 (CI: 0.750, 54.990)					
	headache	Dichotomous	63	6	(9.5%)	62 9 (14.5%)	OR=0.620 (CI: 0.207, 1.860)					
	Nausea – 35d	Dichotomous	63	14	(22.2%)	62 7 (11.3%)	OR=2.245 (CI: 0.838, 6.015)					
	Somnolence – 35d	Dichotomous	63	4	(6.3%)	62 1 (1.6%)	OR=4.136 (CI: 0.449, 38.091)					
	Vomiting	Dichotomous	63	8	(12.7%)	62 3 (4.8%)	OR=2.861 (CI: 0.722, 11.334)					
	treatment withdrawal:											
	due to lack of efficacy – 35d	Dichotomous	63	1	(1.6%)	62 5 (8.1%)	OR=0.184 (CI: 0.021, 1.622)					
	protocol deviation – 35d	Dichotomous	63	1	(1.6%)	62 0 (0.0%)	OR=3.000 (CI: 0.120, 75.066)					
	Nausea – 35d	Dichotomous	63	1	(1.6%)	62 0 (0.0%)	OR=3.000 (CI: 0.120, 75.066)					
	Dizziness – 35d	Dichotomous	63	2	(3.2%)	62 0 (0.0%)	OR=5.081 (CI: 0.239, 108.015)					
	Vomiting – 35d	Dichotomous	63	2	(3.2%)	62 0 (0.0%)	OR=5.081 (CI: 0.239, 108.015)					
	Feeling drunk – 35d	Dichotomous	63	1	(1.6%)	62 0 (0.0%)	OR=3.000 (CI: 0.120, 75.066)					
	diarrhoea – 35d	Dichotomous	63	2	(3.2%)	62 0 (0.0%)	OR=5.081 (CI: 0.239, 108.015)					
	anorexia – 35d	Dichotomous	63	1	(1.6%)	62 0 (0.0%)	OR=3.000 (CI: 0.120, 75.066)					
	somnolence – 35d	Dichotomous	63	0	(0.0%)	62 1 (1.6%)	OR=0.323 (CI: 0.013, 8.078)					
		Dionotomous	00		(0.070)	02 1 (1.070)						
	a estimated from graphs											

Study	Otto et al. (2008)						
Pain category	Peripheral pain						
Study design	Country: Denmark Design: Crossover Inclusion criteria: age > 20 and < 80 with polyneuropathy for> 6 m confirmed by electrophysciological tests or quantitative sensory teafter 1 week off pain medication Exclusion criteria: causes of pain other than polyneuropathy, prev terminal illness or concomitant treatment with monoaminoxidaase Study length (days): 98 Intention-to-treat analysis? Yes	sting; me	dian pain rating of at give reaction to study of	leas drug	st 4 o j or ci	n a 0-10 point s talopram, pregr	scale for total pain at study entry
Participants	Total number of patients: 48  Number of males: 29 (60.4%)  Underlying cause of neuropathic pain: Polyneuropathy  Mean duration of NP (in months): 48  Baseline pain severity: 5.6 (NRS  (median duration of NP, baseline pain intensity, and age))  Mean age: 62						
Intervention(s)	(1) Escitalopram 20 mg/d Intervention: escitalopram Length of treatment (weeks): 5 Fixed/flexible dose regimen: Fixed dose Set dose: 20mg/d Notes: from 10 mg/d in the first week to 20 mg/d for the remaining (2) Placebo Intervention: placebo Length of treatment (weeks): 5 Fixed/flexible dose regimen: Fixed dose	treatmen	t period				
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? No (use of monoaminoxidas paracetamol could be used daily as escape medication)	e inhibito	rs, anti-depressants	or a	nti-co	onvulsants prohi	ibited; up to six tablets of 500 mg
Outcomes		ESCIT	ALOPRAM 20 MG/D	Р	LACE	ВО	
measures and effect sizes		N k	mean	N	l k	mean	Δ
	pain score:  NRS/NRS Pain – 0d Continuous  NRS/NRS Pain – 35d Continuous	41 41	5.8 (SD 1.5) 4.5 (SD 2.3)	4		5.8 (SD 1.5) 5.5 (SD 2.1)	MD=-1.000 (CI: -1.953, -0.047)

	1							
	patient-reported improvement in							
	daily physical and emotional							
	functioning, including sleep:							
	Normalised (10-pt) sleep interference measure – 0d <sup>a</sup>	Continuous	41		3.8 (SD 2.6)	41	3.8 (SD 2.6)	
	Normalised (10-pt) sleep interference measure – 35d <sup>a</sup>	Continuous	41		3 (SD 2.4)	41	4 (SD 2.7)	
	NRS Sleep – 0d	Continuous	41		3.8 (SD 2.6)	41	3.8 (SD 2.6)	
	NRS Sleep – 35d	Continuous	41		3 (SD 2.4)	41	4 (SD 2.7)	MD=-1.000 (CI: -2.106, 0.106)
	major adverse events							
	(defined as leading to withdrawal):							
	any major adverse event – 35d	Dichotomous	48	5 <sup>b</sup>	(10.4%)	48 1 <sup>c</sup>	(2.1%)	OR=5.465 (CI: 0.614, 48.662)
	adverse events:							
	any adverse event – 35d	Dichotomous	48	21 <sup>d</sup>	(43.8%)	48 18 <sup>e</sup>	` ,	OR=1.296 (CI: 0.573, 2.933)
	Dizziness – 35d	Dichotomous	48	2	(4.2%)	48 5	(10.4%)	OR=0.374 (CI: 0.069, 2.030)
	Drowsiness – 35d <sup>r</sup>	Dichotomous	48	4	(8.3%)	48 2	(4.2%)	OR=2.091 (CI: 0.364, 11.996)
	Dry mouth – 35d	Dichotomous	48	2	(4.2%)	48 2	(4.2%)	OR=1.000 (CI: 0.135, 7.405)
	nausea/vomiting – 35d	Dichotomous	48	6	(12.5%)	48 4	(8.3%)	OR=1.571 (CI: 0.414, 5.965)
	sleep disturbance – 35d	Dichotomous	48	2	(4.2%)	48 0	(0.0%)	OR=5.215 (CI: 0.244, 111.547)
	Urine retention – 35d	Dichotomous	48	1	(2.1%)	48 0	(0.0%)	OR=3.063 (CI: 0.122, 77.089)
	treatment withdrawal:				•		•	•
	due to lack of efficacy – 35d	Dichotomous	48	1	(2.1%)	48 2	(4.2%)	OR=0.489 (CI: 0.043, 5.584)
	protocol deviation – 35d	Dichotomous	48	0	(0.0%)	48 1	(2.1%)	OR=0.326 (CI: 0.013, 8.216)
	use of rescue medication:							
	500 mg paracetamol tablets per week – 0d	Continuous	41		19.4 (SD 18)	41	19.4 (SD 18)	
	500 mg paracetamol tablets per week – 35d	Continuous	41		16.3 (SD 17.6)	41	21.2 (SD 17.9)	MD=-4.900 (CI: -12.584, 2.784)
	without depression (on Major Depression Inventory)							
	pain score:							
	NRS/NRS Pain – 0d	Continuous	35		5.7 (SD 1.5)	35	5.7 (SD 1.5)	
	NRS/NRS Pain – 35d	Continuous	35		4.2 (SD 2.2)	35	5.2 (SD 2)	MD=-1.000 (CI: -1.985, -0.015)
		Continuous	00		(00 2.2)	00	0.2 (02 2)	MB= 1.000 (Ci. 1.000, 0.010)
	with hyperalgesia							
	pain score:							
	NRS/NRS Pain – 0d	Continuous	20		5.4 (SD 1.3)	20	5.4 (SD 1.3)	
	NRS/NRS Pain – 35d	Continuous	20		3.8 (SD 1.9)	20	5.1 (SD 1.8)	MD=-1.300 (CI: -2.447, -0.153)
	without hyperalgesia							
	pain score:							
	NRS/NRS Pain – 0d	Continuous	21		6.3 (SD 1.6)	21	6.3 (SD 1.6)	
	NRS/NRS Pain – 35d	Continuous	21		5.3 (SD 1.0) 5.3 (SD 2.4)	21	6.1 (SD 2.3)	MD=-0.800 (CI: -2.222, 0.622)
		Continuous	۷ ۱		J.J (JD 2.4)	۷1	0.1 (00 2.3)	WID = 0.000 (OI2.222, 0.022)
	<sup>a</sup> based on NRS Sleep							
	<sup>b</sup> 1 somnolence, impotence, fever, 1 nausea & dizziness, 2	loss of appetite.	nause	a, drv	mouth, 1 headach	e, blurred vi	sion	
	<sup>c</sup> dizziness and weight gain	11,		, ,	,			
	<sup>d</sup> 4 unacceptable, 4 bothering, the rest light or moderate							
	<sup>e</sup> 4 unacceptable, 1 bothering, the rest light or moderate							
	f defined as 'tiredness'							
0		ata badaas '					lata a ata 70a a	
Comments	1 patient included despite only median of 3, 31 patie							
	another SSRI), all but 31 patients of the 41 in the an							
	this scale was not reported), authors report pain relie							
	to do some form of intention-to-treat but not all patie	nts randomised	(n=4)	8) we	re included in the	analysis (	41 in analysis w	hile 37 completed both
	treatment arms); authors recorded SF-36 scores but							•
	victions are given at the and of this decument	a.a not roport t	40		.5=.00 1.10 0144	.,		

Study	Paice et al. (2000)										
Pain category	Peripheral pain										
Study design	Exclusion criteria: pregnancy, lac	Design: Parallel Inclusion criteria: Participants with HIV related symmetrical peripheral neuropathy aged 18 and older Exclusion criteria: pregnancy, lactation, inability to read or speak English, use of dideoxyinosine or dieoxycytosine, use of topical medication on the lower extremities, lesions on the feet or legs that might allow systemtic uptake of the drug Study length (days): 28									
Participants	Total number of patients: 26 Number of males: 25 (96.2%) Underlying cause of neuropathic Mean duration of NP (in months): Baseline pain severity: 4.7 (curre Mean age: 40.3 (SD: 6)	not reported	d neuropa	athy							
Intervention(s)	(1) Capsaicin 0.075% (fixed dose Intervention: capsaicin cream Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixe (2) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixe	d dose									
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allow anti-depressants (n=2), and anti-								nophen/codeine, NSAIDs, tricyclic upuncture, etc to relieve pain)		
Outcomes measures and			CAPSA N	ICIN 0.075% k	6 (FIXED DOSE 4X PE	R DAY)		CEBO k mean	Δ		
effect sizes	pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>a</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 28d treatment withdrawal: due to lack of efficacy – 28d unspecified/other reason – 28d	Continuous Continuous Dichotomous Dichotomous Dichotomous	15 6 15 15	5 5 5	5.05 2.15 (33.3%) (33.3%) (33.3%)		11 8	4.25 3.78 0 (0.0%) 0 (0.0%) 2 (18.2%)	MD=-1.630  OR=12.048 (CI: 0.592, 245.275)  OR=12.048 (CI: 0.592, 245.275)  OR=2.250 (CI: 0.346, 14.611)		

	a data estimated from graph
Comments	BPI and POM recorded but not reported fully (BPI available for treatment arm only)

Study	Rao et al. (2007)
Pain category	Peripheral pain
Study design	Country: USA  Design: Crossover Inclusion criteria: symptomatic chemotherapy-induced peripheral neuropathy for >1 month with pain scores of =4 on a NRS or =1 on the Eastern Cooperative Oncology Group neuropathy scale  Exclusion criteria: preexisting neuropathy from other causes, pregnancy or lactating, patients taking antidepressants, opioids, adjuvant analgesics, topical analgesics and amifostine at baseline  Study length (days): 98  Intention-to-treat analysis? Unclear
Participants	Total number of patients: 115 Number of males: 31 (27.0%) Underlying cause of neuropathic pain: Chemotherapy-induced pain Mean duration of NP (in months): not reported Baseline pain severity: 3.95 ('average' pain on NRS (mean of arm means)) Mean age: 59
Intervention(s)	(1) gabapentin up to 2700 mg/d Intervention: gabapentin Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Median dose: 2700mg/d Notes: 2700 mg/d was the target dose (lowered if patients showed signs of toxicity); corresponds to 9 capsules a day (2) placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (NSAIDs permitted; also, while those on anti-depressants, opioids, adjuvant analgesics, topical analgesics or amifostine at baseline were excluded, these were permitted to be initiated after study entry, if needed)
Outcomes measures and effect sizes	GABAPENTIN UP TO 2700 MG/D   PLACEBO   N k mean Δ

pain score:								
McGill Pain Questionnaire – 0d	Continuous	57		29.6	58		23.4	
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
BPI – 0d	Continuous	57		3.9	58		3.7	
adverse events:								
Dizziness – 42d	Dichotomous	115	8	(7.0%)	115	4	(3.5%)	OR=2.075 (CI: 0.607, 7.093)
Fatigue – 42d	Dichotomous	115	5	(4.3%)	115	7	(6.1%)	OR=0.701 (CI: 0.216, 2.278)
Rash – 42d	Dichotomous	115	3	(2.6%)	115	0	(0.0%)	OR=7.187 (CI: 0.367, 140.7)
use of rescue medication:				,			,	,
proportion taking non-opioid analgesics – 0d <sup>a</sup>	Dichotomous	57	19	(33.3%)	58	21	(36.2%)	
treatment phase 1								
pain score:								
NRS/NRS Pain – 0d <sup>b</sup>	Continuous	57		4.3 (SD 2.26)	58		3.6 (SD 2.67)	
NRS/NRS Pain – 28d°	Continuous	57		3.35 (SD 2.47)	58		3.2 (SD 1.87)	MD=0.150 (CI: -0.651, 0.95
NRS/NRS Pain – 42d <sup>b</sup>	Continuous	57		3.3 (SD 2.77)	58		3 (SD 1.25)	MD=0.300 (CI: -0.489, 1.08
McGill Pain Questionnaire – 42d	Continuous	57 57		17.6	58		19.9	MD=-2.300 (OI: 0.403, 1.00
patient-reported improvement in	Continuous	01		11.0	00		10.0	2.000
daily physical and emotional								
functioning, including sleep:								
BPI – 42d	Continuous	57		2.8	58		3.3	MD=-0.500
adverse events:	Continuous	57		۷.0	50		0.0	WID0.000
any adverse event – 42d	Dichotomous	57	44 <sup>d</sup>	(77.2%)	58	50	(86.2%)	OR=0.542 (CI: 0.205, 1.428
treatment withdrawal:	סוטוטוטוטוטוטט	51		(11.270)	50	50	(00.270)	ON-0.042 (OI. 0.200, 1.420
unspecified/other reason – 42d <sup>e</sup>	Dichotomous	57	14	(24.6%)	E0	11	(19.0%)	OP_1 201 (CI: 0 570, 2 202
use of rescue medication:	Dicholomous	57	14	(24.0%)	58	11	(19.0%)	OR=1.391 (CI: 0.570, 3.392
proportion taking opioids – 42d	Dichotomous	57	8	(14.0%)	E0	7	(12.1%)	OR=1.190 (CI: 0.401, 3.529
proportion taking opioids – 42d proportion taking non-opioid analgesics – 42d	Dichotomous	57	o 19	(33.3%)			(50.0%)	OR=0.500 (CI: 0.235, 1.063
	Dictiolofficus	31	19	(33.370)	50	29	(30.070)	OR=0.500 (CI. 0.255, 1.005
treatment phase 2								
pain score:	•			(00 )			0.4.(00.005=)	
NRS/NRS Pain – 0d <sup>c</sup>	Continuous	58		3.05 (SD 0.23)	57		3.1 (SD 0.288)	
NRS/NRS Pain – 28d <sup>c</sup>	Continuous	58		2.65 (SD 0.295)	57		3.1 (SD 0.256)	MD=-0.450 (CI: -0.551, -0.3
NRS/NRS Pain – 42d <sup>b</sup>	Continuous	58		2.5 (SD 0.262)	57		3.1 (SD 0.384)	MD=-0.600 (CI: -0.720, -0.4
McGill Pain Questionnaire – 42d	Continuous	58		24	57		15.1	MD=8.900
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
BPI – 42d	Continuous	58		3	57		2.8	MD=0.200
adverse events:								
any adverse event – 42d	Dichotomous	58	31	(53.4%)	57	29	(50.9%)	OR=1.109 (CI: 0.533, 2.305
treatment withdrawal:								
unspecified/other reason – 42d <sup>e</sup>	Dichotomous	58	7	(12.1%)	57	9	(15.8%)	OR=0.732 (CI: 0.253, 2.120
use of rescue medication:				•			•	•
proportion taking opioids - 42d	Dichotomous	58	7	(12.1%)	57	5	(8.8%)	OR=1.427 (CI: 0.425, 4.791
proportion taking non-opioid analgesics – 42d	Dichotomous	58	18	(31.0%)	57	13	(22.8%)	OR=1.523 (CI: 0.663, 3.500
grade 2				•			•	•
adverse events:								
Diarrhoea – 42d <sup>f</sup>	Dichotomous	115	3	(2.6%)	115	1	(0.9%)	OR=3.054 (CI: 0.313, 29.79
Diarmoea – 42d Dizziness – 42d <sup>f</sup>	Dichotomous	115	ა 6	(5.2%)	115		(0.9%)	OR=3.054 (CI: 0.513, 29.79 OR=2.055 (CI: 0.501, 8.424
dyspepsia – 42d <sup>f</sup>	Dichotomous	115	0	(0.0%)	115		(2.6%)	OR=0.139 (CI: 0.007, 2.725

	Fatigue – 42d <sup>f</sup> myalgia – 42d <sup>f</sup> Nausea – 42d <sup>f</sup> Rash – 42d <sup>f</sup> Vomiting – 42d <sup>f</sup>	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	115 115 115 115 115	4 2 2 1 2	(3.5%) (1.7%) (1.7%) (0.9%) (1.7%)	115 5 115 2 115 5 115 0 115 3	(4.3%) (1.7%) (4.3%) (0.0%) (2.6%)	OR=0.793 (CI: 0.207, 3.031) OR=1.000 (CI: 0.138, 7.223) OR=0.389 (CI: 0.074, 2.049) OR=3.026 (CI: 0.122, 75.064) OR=0.661 (CI: 0.108, 4.030)
	grade 3 adverse events: deyhydration – 42d <sup>g</sup> Dizziness – 42d <sup>g</sup> Fatigue – 42d <sup>g</sup> Rash – 42d <sup>g</sup>	Dichotomous Dichotomous Dichotomous Dichotomous	115 115 115 115	0 2 1 2	(0.0%) (1.7%) (0.9%) (1.7%)	115 1 115 1 115 2 115 0	(0.9%) (0.9%) (1.7%) (0.0%)	OR=0.330 (CI: 0.013, 8.197) OR=2.018 (CI: 0.180, 22.567) OR=0.496 (CI: 0.044, 5.543) OR=5.088 (CI: 0.242, 107.157)
	a approximated to nearest integer (pe b standard errors estimated from grap c extracted from graph d all adverse events graded 2 or more reasons reported were refusal (pres of these reasons not reported) f grade 2 g grade 3	h	,	ogres	sion, death from c	cancer, switch to alt	ernative thera	apy (data on how many patients for each
Comments	authors report that somnolence a	nd fatigue rates were simila	ar 9but	only	report actual rate	es for fatigue in t	ne study)	

Study	Rao et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Participants with cancer pain duration of at least 1 month with daily pain scores of either at least 4 on NRS 11 point or 1 on ENS 4 point Exclusion criteria: preexisting neuropathy from other causes, pregnancy or lactating, patients taking antidepressants, opioids, adjuvant analgesics, topical analgesics and amifostine at baseline Study length (days): 70 Intention-to-treat analysis? No
Participants	Total number of patients: 125 Number of males: 51 (40.8%) Underlying cause of neuropathic pain: Chemotherapy-induced pain Mean duration of NP (in months): not reported Baseline pain severity: 3.9 ('average' pain on NRS (mean of arm means)) Mean age: 61
Intervention(s)	(1) lamotrigine 300mg/d Intervention: lamotrigine Length of treatment (weeks): 10

	Notes: 300 mg/d is target dosage - daily for 2 weeks and then escalate but then were encouraged to taper (2) Placebo Intervention: placebo Length of treatment (weeks): 10 Fixed/flexible dose regimen: Flexible	d to 150 mg 2x daily the drug over a 4-w	for 2	week	or 2 weeks, 25 mg s (some were allow	2x per oved to s	day fo	or 2 weeks, 50 mg ooner if they wish	g 2x daily for 2 weeks, 100 mg 2x led or any reason before 10 week
Concomitant reatments	Drug free baseline period? Unclear Concomitant pain treatment allowed permitted)	d? No (Anti-depress	ants, a	nti-co	onvulsants, opioids	, topical	ana	gesics, amifostine	e not allowed but NSAIDs were
Outcomes measures and			LAN	IOTR	IGINE 300MG/D	PL	ACEE	30	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 56d <sup>b</sup> NRS/NRS Pain – 70d  NRS/NRS Pain – 70d  MCGill Pain Questionnaire – 0d	Continuous Continuous Continuous Mean change Continuous Continuous	63 63 63 63 63		4.1 (SD 2.68) 4.5 (SD 3.37) 3.75 (SD 3.57) -0.3 3.8 (SD 4.17) 38.3	62 62 62 62 62 62		3.7 (SD 2.46) 3.75 (SD 3.15) 3.75 (SD 3.15) -0.5 3.55 (SD 3.35) 32.5	MD=0.750 (CI: -0.394, 1.894) MD=0.000 (CI: -1.180, 1.180) MD=0.200 MD=0.250 (CI: -1.074, 1.574)
	McGill Pain Questionnaire – 70d patient-reported improvement in daily physical and emotional functioning, including sleep:	Mean change	63		-12.3	62		-4	MD=-8.300
	BPI – 0d BPI – 70d major adverse events (defined as leading to withdrawal):	Continuous Mean change	63 63		3.8 -0.1	62 62		3.8 -0.8	MD=0.700
	any major adverse event – 70d adverse events:	Dichotomous	63	7	(11.1%)	62	1	(1.6%)	OR=7.625 (CI: 0.909, 63.936)
	any adverse event – 70d° Diarrhoea – 70d Dizziness – 70d Fatigue – 70d Nausea – 70d Rash – 70d Vomiting – 70d treatment withdrawal: unspecified/other reason – 70d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	63 63 63	26 3 2 1 2 2 2 2	(41.3%) (4.8%) (3.2%) (1.6%) (3.2%) (3.2%) (3.2%) (34.9%)	62 62 62 62 62 62		(45.2%) (1.6%) (1.6%) (3.2%) (8.1%) (0.0%) (4.8%)	OR=0.853 (CI: 0.420, 1.733) OR=3.050 (CI: 0.309, 30.150) OR=2.000 (CI: 0.177, 22.639) OR=0.484 (CI: 0.043, 5.477) OR=0.374 (CI: 0.070, 2.004) OR=5.081 (CI: 0.239, 108.015) OR=0.645 (CI: 0.104, 3.998) OR=1.681 (CI: 0.772, 3.662)
Comments	a SE are estimates from graph b estimated from graph using ruler c adverse events considered ≥grade 2 ( underlying cause of pain is actually	not defined)			. ,	02	13	(24.270)	OK=1.001 (Cl. 0.112, 3.002)

Study	Raskin et al. (2004)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: PDN for at least 3 months but less than 10 years with at least 40mm on VAS Exclusion criteria: Participants who required treatment with anticonvulsants, who had other potential causes of NP, other painful conditions, degenerative neurological disorder, open ulcer, amputation, infection, nephrolithiasis, suicide (or suicidal tendencies), substance abuse, clinically significant medical conditions, malignacy within the past 5 years or major psychiatirc disorder were excluded Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 323 Number of males: 157 (48.6%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 38.4 Baseline pain severity: 68.55 (VAS (average of arm means)) Mean age: 59.2 (SD: 9.8)
Intervention(s)	(1) Topiramate up to 400mg/d Intervention: topiramate Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose Mean dose: 161.2mg/d Notes: 161.2 mg/d is average dose across the whole study - average dosage over maintenance period was 320 mg/d; 400 mg/d maximum or maximum tolerated; 25 mg at bedtime to start, then increased by 25 mg on weeks 2, 3 and 4, by 50 mg on weeks 5 and 6 and by 100 mg on weeks 7 and 8 where maximum tolerated or 400 mg/d dosages were maintained until week 12 (2) Placebo Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? Yes (duration: 21d)  Concomitant pain treatment allowed? Yes (treatment with anti-convulsants, TENS, acupuncture, anti-epileptic drugs, anti-depressants (other than SSRIs which were allowed if stable for at least 90 days - these could be considered concomitant medications), alpha-lipoic acid, capsaicin, sedative hypnotics, anaesthetics, analgesics, other topical medications or muscle relaxants all excluded; paracetamol (500 mg) or another short-acting analgesia allowed during first 6 weeks only (apart from 24 hours before each visit) and zaleplon and zolpidem tartarate were permitted at bedtime as needed (up to 3 days per week))
Outcomes measures and effect sizes	TOPIRAMATE UP TO 400MG/D PLACEBO  N k mean

at least 30% pain reduction (VAS) – 84d at least 50% pain reduction (VAS) – 84d patient-reported improvement in	Dichotomous Dichotomous	214 214	103			7 (33.9%)	OR=1.806 (CI: 1.119, 2.914)
daily physical and emotional functioning, including sleep:			74	(48.1%) (34.6%)		3 (21.1%)	OR=1.976 (CI: 1.152, 3.390)
Normalised (10-pt) sleep interference measure – 0d <sup>b</sup>	Continuous	208		6.5 (SD 2.5)	109	6.2 (SD 2.4)	
Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Continuous	208		3.9 (SD 3.1)	109	4.6 (SD 2.9)	
NRS Sleep – 0d	Continuous	208		6.5 (SD 2.5)	109	6.2 (SD 2.4)	MD 0.700 (OL 4.000 0.040
NRS Sleep – 84d	Continuous	208		3.9 (SD 3.1)	109	4.6 (SD 2.9)	MD=-0.700 (CI: -1.388, -0.012
major adverse events (defined as leading to withdrawal):							
any major adverse event – 84d	Dichotomous	214	52	(24.3%)	109 9	(8.3%)	OR=3.567 (CI: 1.684, 7.552)
adverse events:	Didiotorious	۷ I <del>- ۱</del>	JZ	(27.570)	109 9	(0.070)	ON-0.007 (OI. 1.004, 7.002)
Diarrhoea	Dichotomous	214	24	(11.2%)	109 4	(3.7%)	OR=3.316 (CI: 1.120, 9.813)
Dizziness – 84d	Dichotomous		15	(7.0%)	109 6		OR=1.294 (CI: 0.487, 3.435)
Fatigue – 84d	Dichotomous	214		(7.0%)	109 2		OR=4.033 (CI: 0.905, 17.965)
headache	Dichotomous		12	(5.6%)		0 (9.2%)	OR=0.588 (CI: 0.246, 1.408)
Infection	Dichotomous	214		(8.9%)	109 6		OR=1.673 (CI: 0.648, 4.318)
Nausea – 84d	Dichotomous	214	20	(9.3%)	109 6		OR=1.770 (CI: 0.689, 4.545)
parasthesia	Dichotomous	214	18	(8.4%)	109 2		OR=4.913 (CI: 1.119, 21.578)
Somnolence – 84d	Dichotomous	214	21	(9.8%)	109 4		OR=2.856 (CI: 0.955, 8.541)
overall improvement in quality of life:				,		,	, , ,
SF36 Mental – 84d	Continuous	208		46.9 (SD 11.9)	109	49.9 (SD 10.1)	MD=-3.000 (CI: -5.492, -0.508
SF36 Physical – 84d	Continuous	208		37.2 (SD 10.6)	109	34.9 (SD 9.4)	MD=2.300 (CI: 0.022, 4.578)
treatment withdrawal:				,		,	,
due to lack of efficacy – 84d	Dichotomous	214	31	(14.5%)	109 1	6 (14.7%)	OR=0.985 (CI: 0.513, 1.892)
unspecified/other reason – 84d	Dichotomous	214	8	(3.7%)	109 1	(0.9%)	OR=4.194 (CI: 0.518, 33.973)
withdrawal of consent – 84d	Dichotomous	214	7	(3.3%)	109 1	(0.9%)	OR=3.652 (CI: 0.444, 30.069)
lost to follow-up – 84d	Dichotomous	214	4	(1.9%)	109 2	(1.8%)	OR=1.019 (CI: 0.184, 5.653)
use of rescue medication:							
proportion using pain medication – 49d <sup>d</sup>	Dichotomous	158	10	(6.3%)		4 (14.7%)	OR=0.391 (CI: 0.166, 0.920)
proportion using pain medication – 63d <sup>e</sup>	Dichotomous	112		(1.8%)	91 3	` '	OR=0.533 (CI: 0.087, 3.262)
proportion using pain medication – 77d <sup>f</sup>	Dichotomous	112	0	(0.0%)	80 3	(3.8%)	OR=0.098 (CI: 0.005, 1.932)

Study	Raskin et al. (2005)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: PDN for at least 6 months with pain score of at least 4 on NRS  Exclusion criteria: Pregnant or breastfeeding, prior renal transplant or current renal dialysis, serious unstable illness, symptomatic peripheral vascular disease, or other medical conditions that might compromise the study. Also excluded were people with DSM-IV mental health diagnoses, substance abusers, other medical conditions that could be responsible for neuropathy, MAOI use, prior participation in studies of duloxetine. Chronic use of anti-depressants, anti-emetics, analgesics (apart from paracetamol up to 4g/d and aspirin up to 325 mg/d), anti-manics, anti-migraine medications, anti-psychotics, benzodiazepines, capsaicin, chloral hydrate, guanethidine, topical lidocaine, MAOIs, narcotics, psychostimulants, oral and injective steroids, anti-convulsants  Study length (days): 84  Intention-to-treat analysis? No
Participants	Total number of patients: 348  Number of males: 162 (46.6%)  Underlying cause of neuropathic pain: Painful diabetic neuropathy  Mean duration of NP (in months): 223.6  Baseline pain severity: 5.6 (24-hour average pain severity on NRS)  Mean age: 58.8 (SD: 10.1)
Intervention(s)	(1) Duloxetine 60mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 60mg/d (2) Duloxetine 120mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 120mg/d (3) Placebo Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? Unclear  Concomitant pain treatment allowed? No (Chronic use of anti-depressants, anti-emetics, analgesics (apart from paracetamol up to 4g/d and aspirin up to 325 mg/d), anti-manics, anti-migraine medications, anti-psychotics, benzodiazepines, capsaicin, chloral hydrate, guanethidine, topical lidocaine, MAOIs, narcotics, psychostimulants, oral and injective steroids, anti-convulsants was exclusion criteria)

Outcomes			DULOX	ETINE 60	MG/D D	DULO	XE	TINE 120MG/D	
asures and ect sizes			N k	mean		١	k	mean	Δ
	pain score:  NRS/NRS Pain – 0d  NRS/NRS Pain – 84d  at least 50% pain reduction – 84d  BPI (severity) – 84d  SF McGill – 84d  patient-reported improvement in	Continuous Mean change Dichotomous Mean change Mean change	116 113 116 8 108 102	5.5 (SD -2.5 (SI 5 (73.3% -2.65 (S	O 1.91) 1 ) 1 SD 1.97) 1	16 14 16 08 04	79	5.7 (SD 1.3) -2.47 (SD 1.92) (68.1%) -2.62 (SD 1.97) -7.82 (SD 6.22)	MD=-0.030 (CI: -0.529, 0.469) OR=1.284 (CI: 0.728, 2.264) MD=-0.030 (CI: -0.557, 0.497) MD=0.350 (CI: -1.341, 2.041)
	daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure <sup>a</sup> BPI – 84d BPI Mood – 84d BPI Sleep – 84d HDS – 84d BPI general activity – 84d BPI walking ability – 84d BPI normal work – 84d BPI relationship with other people – 84d BPI enjoyment of life – 84d major adverse events (defined as leading to withdrawal): any major adverse event – 84d	Mean change Mean change Mean change Mean change Mean change Mean change Mean change Mean change Mean change	108 108 108 108 103 108 108 108 108	-2.32 (S -3.3 (SI -1.17 (S -2.22 (S -2.5 (SI -2.24 (S -1.56 (S -2.63 (S	SD 1.87) 1 SD 2.08) 1 D 2.39) 1 SD 2.54) 1 SD 2.29) 1 D 2.18) 1 SD 2.08) 1 SD 2.08) 1 SD 2.29) 1	07 08 08 07 00 08 08 08 08	14	-3 (SD 2.48) -2.54 (SD 1.87) -2.6 (SD 2.08) -3 (SD 2.48) -0.65 (SD 2.5) -2.39 (SD 2.29) -2.68 (SD 2.29) -2.46 (SD 2.18) -1.78 (SD 1.87) -2.64 (SD 2.29) (12.1%)	MD=0.110 (CI: -0.389, 0.609) MD=0.280 (CI: -0.274, 0.834) MD=-0.300 (CI: -0.952, 0.352) MD=-0.520 (CI: -1.213, 0.173) MD=0.170 (CI: -0.440, 0.780) MD=0.180 (CI: -0.416, 0.776) MD=0.220 (CI: -0.348, 0.788) MD=0.220 (CI: -0.279, 0.719) MD=0.010 (CI: -0.600, 0.620) OR=0.328 (CI: 0.114, 0.943)
	<sup>a</sup> based on BPI Sleep			( 111)					
			DULOX	ETINE 601	MG/D P	LACI	EBC	)	
			N k	mean	N	l k	k	mean	Δ
	pain score:  NRS/NRS Pain – 0d  NRS/NRS Pain – 84d  at least 50% pain reduction – 84d  BPI (severity) – 84d  SF McGill – 84d  patient-reported improvement in  daily physical and emotional	Continuous Mean change Dichotomous Mean change Mean change	116 113 116 89 108 102	5.5 (SD -2.5 (SE 5 (73.3%) -2.65 (S -7.47 (S	0 1.91)	16 13 16 5 09		5.5 (SD 1.3) -1.56 (SD 1.91) (44.0%) -1.82 (SD 1.98) -4.96 (SD 6.03)	MD=-0.940 (CI: -1.439, -0.441) OR=3.495 (CI: 2.014, 6.063) MD=-0.830 (CI: -1.357, -0.303) MD=-2.510 (CI: -4.187, -0.833)
	functioning, including sleep: Normalised (10-pt) sleep interference measure <sup>a</sup> BPI – 84d BPI Mood – 84d BPI Sleep – 84d HDS – 84d	Mean change Mean change Mean change Mean change Mean change Mean change	108 108 108 108 103 108	-3.3 (SE -2.43 (S -2.32 (S -3.3 (SE -1.17 (S	SD 1.87) 10 SD 2.08) 10 D 2.39) 10	08 09 09 08 01		-2.25 (SD 2.49) -1.56 (SD 1.88) 1.76 (SD 2.09) -2.25 (SD 2.49) -0.55 (SD 2.51) -1.38 (SD 2.29)	MD=-0.870 (CI: -1.369, -0.371 MD=-4.080 (CI: -4.634, -3.526 MD=-1.050 (CI: -1.702, -0.398 MD=-0.620 (CI: -1.313, 0.073) MD=-0.840 (CI: -1.450, -0.230
	1103 - 040								

any major adverse event – 84d	Dichotomous	116	5	(4.3%)	116	3	(2.6%)	OR=1.697 (CI: 0.396, 7.270)
<sup>a</sup> based on BPI Sleep								
		DUL	OXE	TINE 120MG/D	PLA	CEB	0	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	116		5.7 (SD 1.3)	116		5.5 (SD 1.3)	
NRS/NRS Pain – 84d	Mean change	114		-2.47 (SD 1.92)	113		-1.56 (SD 1.91)	MD=-0.910 (CI: -1.409, -0.411
at least 50% pain reduction – 84d	Dichotomous	116	79	(68.1%)	116	51		OR=2.721 (CI: 1.593, 4.649)
BPI (severity) – 84d	Mean change	108		-2.62 (SD 1.97)	109		-1.82 (SD 1.98)	MD=-0.800 (CI: -1.327, -0.273
SF McGill – 84d	Mean change	104		-7.82 (SD 6.22)	101		-4.96 (SD 6.03)	MD=-2.860 (CI: -4.537, -1.183
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:							/ <b></b>	
Normalised (10-pt) sleep interference measure <sup>a</sup>	Mean change	107		-3 (SD 2.48)	108		-2.25 (SD 2.49)	
BPI – 84d	Mean change	108		-2.54 (SD 1.87)	109		-1.56 (SD 1.88)	MD=-0.980 (CI: -1.479, -0.48
BPI Mood – 84d	Mean change	108		-2.6 (SD 2.08)	109		1.76 (SD 2.09)	MD=-4.360 (CI: -4.914, -3.800
BPI Sleep – 84d	Mean change	107		-3 (SD 2.48)	108		-2.25 (SD 2.49)	MD=-0.750 (CI: -1.415, -0.085
HDS – 84d	Mean change	100		-0.65 (SD 2.5)	101		-0.55 (SD 2.51)	MD=-0.100 (CI: -0.793, 0.593
BPI general activity – 84d	Mean change	108		-2.39 (SD 2.29)	108		-1.38 (SD 2.29)	MD=-1.010 (CI: -1.620, -0.400
BPI walking ability – 84d	Mean change	108		-2.68 (SD 2.29)	108		-1.51 (SD 2.29)	MD=-1.170 (CI: -1.780, -0.560
BPI normal work – 84d	Mean change	108		-2.46 (SD 2.18)	108		-1.45 (SD 2.08)	MD=-1.010 (CI: -1.578, -0.442
BPI relationship with other people – 84d	Mean change	108		-1.78 (SD 1.87)	108		-1.19 (SD 1.87)	MD=-0.590 (CI: -1.089, -0.09
BPI enjoyment of life – 84d	Mean change	108		-2.64 (SD 2.29)	108		-1.79 (SD 2.29)	MD=-0.850 (CI: -1.460, -0.240
major adverse events								
(defined as leading to withdrawal): any major adverse event – 84d	Dichotomous	116	11	(12 10/)	116	2	(2.69/)	OR=5.170 (CI: 1.444, 18.508)
any major adverse event – 640	DICHOLOMIOUS	110	14	(12.1%)	110	3	(2.6%)	UK=3.170 (UI. 1.444, 18.508)

Study	Rauck et al. (2007)
Pain category	Peripheral pain
Study design	Country: not clear Design: Parallel Inclusion criteria: =18 years with type1 or type 2 diabetes, moderate to severe intensity symptoms for 1 to 5 years (=4 on NRS), A1C < 12% Exclusion criteria: pregnant women, those breastfeeding or trying to have children, participation in investigational trial in last 30 days, any other condition to interfer with assessment of NP, major skin ulcers, clinically significant ECG abnormalities, any cardiac disorder putting the patient at risk of arrhythmia and MI, malignancy in last 5 years, history of alcohol or drug abuse in last year, those taking any drugs that may itnerfer with results of trial (including anti-convulsants)

	Study length (days): 98								
	Intention-to-treat analysis? Yes								
Participants	Total number of patients: 119								
	Number of males: 56 (47.1%)								
	Underlying cause of neuropathic pain: Pair	nful diabetic neuro	pathy						
	Mean duration of NP (in months): 45		. ,						
	Baseline pain severity: 6.55 (NRS (average	of means))							
	Mean age: 55.05	<i>3</i> 00a0//							
Intervention(s)	(1) lacosamide up to 400 mg/d								
intervention(s)									
	Intervention: lacosamide Length of treatment (weeks): 10								
	Fixed/flexible dose regimen: Flexible dose								
	Notes: up to 400 mg/d or maximum tolerate	ed; starting at 100	mg/d	for 3 w	eeks and then titrating	g up '	100 r	ng/d at weekly	intervals over the next 3 weeks
	and then maintained for the next 4 week pe								
	(2) placebo								
	Intervention: placebo								
	Length of treatment (weeks): 10								
	Fixed/flexible dose regimen: Flexible dose								
Concomitant	Drug free baseline period? No								
Concomitant treatments	-	(serotonin reuptal	ke inhil	bitors (	with no change in dos	age f	rom	30 days before	e trial), other therapy considered
	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even								
	Concomitant pain treatment allowed? Yes								
treatments	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even		edicat	ion'); p		resc		nedication, asp	
treatments	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even		edicat	ion'); p	aracetamol = 2 g/d as	PL	ue m	nedication, asp	
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even		LAC	ion'); p	aracetamol = 2 g/d as	PL	ace m	nedication, asp	oirin up to 325 mg/d (for
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score: NRS/NRS Pain – 0d <sup>a</sup>	if an 'excluded m	LAC N	ion'); p	DE UP TO 400 MG/D mean  6.6 (SD 1.6)	PL N	ACE	BO mean  6.5 (SD 1.7)	oirin up to 325 mg/d (for
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score: NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup>	Continuous Mean change	LAC N 60 60	ion'); p	DE UP TO 400 MG/D mean  6.6 (SD 1.6) -2.28	PL N 59 59	ACE	BO mean  6.5 (SD 1.7) -3.72	Δ  MD=1.440
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score: NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup>	Continuous Mean change Continuous	LAC N 60 60 60 60	OSAMI	DE UP TO 400 MG/D  mean  6.6 (SD 1.6) -2.28 3 (SD 2.4)	PL N 59 59 59 59	ACE	BO mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6)	Δ  MD=1.440 MD=-1.440 (CI: -2.302, -0.498)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score: NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup>	Continuous Mean change	LAC N 60 60	ion'); p	DE UP TO 400 MG/D mean  6.6 (SD 1.6) -2.28	PL N 59 59 59 59	ACE	BO mean  6.5 (SD 1.7) -3.72	Δ  MD=1.440
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score: NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement: PGIC - worse (all grades) – 70d	Continuous Mean change Continuous	LAC N 60 60 60 60 60 60	**COSAMI************************************	DE UP TO 400 MG/D  mean  6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%)	PL N 59 59 59 59 59	ACE k	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%)	Δ  MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous	LAC N 60 60 60 60 60 60 60	36 1	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%)	PL N 59 59 59 59 59 59	30 6 12	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	EAC N 60 60 60 60 60 60 60 60 60 60 60 60 60	36 1 9	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%)	PL N 59 59 59 59 59 59 59	30 6 12 13	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (22.0%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789) OR=0.624 (CI: 0.244, 1.596)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d²  NRS/NRS Pain – 70d²  NRS/NRS Pain – 70d²  at least 30% pain reduction (NRS) – 70d²  patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - mochange – 70d  PGIC - moderately better – 70d	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60 60 60	36 1 9 13	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%) (21.7%)	PL N 59 59 59 59 59 59 59	30 6 12 13 8	6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (22.0%) (13.6%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789) OR=0.624 (CI: 0.244, 1.596) OR=1.763 (CI: 0.671, 4.632)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	EAC N 60 60 60 60 60 60 60 60 60 60 60 60 60	36 1 9	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%)	PL N 59 59 59 59 59 59 59 59	30 6 12 13	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (22.0%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789) OR=0.624 (CI: 0.244, 1.596)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d  PGIC - at least moderately better – 70d  PGIC - much better – 70d  major adverse events	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60 60 60 60	36 1 9 9 13 37	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%) (21.7%) (61.7%)	PL N 59 59 59 59 59 59 59 59	30 6 12 13 8 26	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (22.0%) (13.6%) (44.1%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789) OR=0.624 (CI: 0.244, 1.596) OR=1.763 (CI: 0.671, 4.632) OR=2.042 (CI: 0.983, 4.243)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d  PGIC - moderately better – 70d  PGIC - at least moderately better – 70d  PGIC - much better – 70d  major adverse events (defined as leading to withdrawal):	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	Edicat  N  60 60 60 60 60 60 60 60 60 60	36 1 9 13 37 24	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%) (21.7%) (61.7%) (40.0%)	PL N 59 59 59 59 59 59 59 59	30 6 12 13 8 26 18	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (20.3%) (22.0%) (13.6%) (44.1%) (30.5%)	Δ  MD=1.440  MD=-1.440 (CI: -2.302, -0.498)  OR=1.450 (CI: 0.701, 2.997)  OR=0.150 (CI: 0.017, 1.284)  OR=0.691 (CI: 0.267, 1.789)  OR=0.624 (CI: 0.244, 1.596)  OR=1.763 (CI: 0.671, 4.632)  OR=2.042 (CI: 0.983, 4.243)  OR=1.519 (CI: 0.712, 3.239)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d  PGIC - at least moderately better – 70d  PGIC - much better – 70d  major adverse events	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60 60 60 60	36 1 9 9 13 37	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%) (21.7%) (61.7%)	PL N 59 59 59 59 59 59 59 59	30 6 12 13 8 26	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (22.0%) (13.6%) (44.1%)	Δ MD=1.440 MD=-1.400 (CI: -2.302, -0.498) OR=1.450 (CI: 0.701, 2.997) OR=0.150 (CI: 0.017, 1.284) OR=0.691 (CI: 0.267, 1.789) OR=0.624 (CI: 0.244, 1.596) OR=1.763 (CI: 0.671, 4.632) OR=2.042 (CI: 0.983, 4.243)
Outcomes measures and	Concomitant pain treatment allowed? Yes necessary by investigator during trial (even prophylaxis of MI, TIA, or stroke))  pain score:  NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 70d <sup>b</sup> NRS/NRS Pain – 70d <sup>a</sup> at least 30% pain reduction (NRS) – 70d <sup>c</sup> patient-reported global improvement:  PGIC - worse (all grades) – 70d  PGIC - no change – 70d  PGIC - minimally better – 70d  PGIC - at least moderately better – 70d  PGIC - much better – 70d  PGIC - much better – 70d  Major adverse events  (defined as leading to withdrawal):  any major adverse event – 70d	Continuous Mean change Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	Edicat  N  60 60 60 60 60 60 60 60 60 60	36 1 9 13 37 24	aracetamol = 2 g/d as DE UP TO 400 MG/D mean 6.6 (SD 1.6) -2.28 3 (SD 2.4) (60.0%) (1.7%) (15.0%) (15.0%) (21.7%) (61.7%) (40.0%)	PL N 599 599 599 599 599 599 599 599 599 5	30 6 12 13 8 26 18	mean  6.5 (SD 1.7) -3.72 4.5 (SD 2.6) (50.8%) (10.2%) (20.3%) (20.3%) (22.0%) (13.6%) (44.1%) (30.5%)	Δ  MD=1.440  MD=-1.440 (CI: -2.302, -0.498)  OR=1.450 (CI: 0.701, 2.997)  OR=0.150 (CI: 0.017, 1.284)  OR=0.691 (CI: 0.267, 1.789)  OR=0.624 (CI: 0.244, 1.596)  OR=1.763 (CI: 0.671, 4.632)  OR=2.042 (CI: 0.983, 4.243)  OR=1.519 (CI: 0.712, 3.239)

ea – 70d ss – 70d he – 70d he – 70d esia – 70d esia – 70d ence – 70d withdrawal: ack of efficacy – 70d ified/other reason – 70d ollow-up – 70d ollow-up – 70d cue medication: on using pain medication e: CRS Pain – 0d ess – 70d	Dichotomous	60 60 60 60 60 60 60 60 60 60	7 9 13 7 1 3 2 0 4 2 1	(11.7%) (15.0%) (21.7%) (11.7%) (1.7%) (5.0%) (3.3%) (0.0%) (6.7%) (3.3%) (1.7%)	59 59 59 59 59 59 59 59 59 59	5 11 4 3 3 4 1 1	(5.1%) (8.5%) (18.6%) (6.8%) (5.1%) (5.1%) (6.8%) (1.7%) (1.7%) (1.7%)	OR=2.465 (CI: 0.606, 10.035) OR=1.906 (CI: 0.599, 6.069) OR=1.207 (CI: 0.492, 2.963) OR=1.816 (CI: 0.502, 6.565) OR=0.316 (CI: 0.032, 3.132) OR=0.982 (CI: 0.190, 5.076)  OR=0.474 (CI: 0.083, 2.693) OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216) OR=2.000 (CI: 0.176, 22.670)
he – 70d ne – 70d nesia – 70d	Dichotomous	60 60 60 60 60 60 60 60	13 7 1 3 2 0 4 2	(21.7%) (11.7%) (1.7%) (5.0%) (3.3%) (0.0%) (6.7%) (3.3%)	59 59 59 59 59 59 59	11 4 3 3 4 1 1	(18.6%) (6.8%) (5.1%) (5.1%) (6.8%) (1.7%) (1.7%) (1.7%)	OR=1.207 (CI: 0.492, 2.963) OR=1.816 (CI: 0.502, 6.565) OR=0.316 (CI: 0.032, 3.132) OR=0.982 (CI: 0.190, 5.076) OR=0.474 (CI: 0.083, 2.693) OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
esia – 70d esia – 70d ence – 70d ence – 70d withdrawal: ack of efficacy – 70d ffied/other reason – 70d wal of consent – 70d I deviation – 70d cue medication: on using pain medication  f (last-observation carried forwa	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60 60 60	7 1 3 2 0 4 2 1	(11.7%) (1.7%) (5.0%) (3.3%) (0.0%) (6.7%) (3.3%)	59 59 59 59 59 59 59	4 3 3 4 1 1	(6.8%) (5.1%) (5.1%) (6.8%) (1.7%) (1.7%) (1.7%)	OR=1.816 (CI: 0.502, 6.565) OR=0.316 (CI: 0.032, 3.132) OR=0.982 (CI: 0.190, 5.076) OR=0.474 (CI: 0.083, 2.693) OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
esia – 70d ence – 70d withdrawal: ack of efficacy – 70d ffied/other reason – 70d wal of consent – 70d I deviation – 70d ollow-up – 70d cue medication: on using pain medication  F (last-observation carried forwals)	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60 60 60	1 3 2 0 4 2 1	(1.7%) (5.0%) (3.3%) (0.0%) (6.7%) (3.3%)	59 59 59 59 59 59	3 3 4 1 1	(5.1%) (5.1%) (6.8%) (1.7%) (1.7%) (1.7%)	OR=0.316 (CI: 0.032, 3.132) OR=0.982 (CI: 0.190, 5.076) OR=0.474 (CI: 0.083, 2.693) OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
ence – 70d withdrawal: ack of efficacy – 70d ffied/other reason – 70d wal of consent – 70d I deviation – 70d ollow-up – 70d cue medication: on using pain medication  F (last-observation carried forwal) e:	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60 60	2 0 4 2 1	(5.0%) (3.3%) (0.0%) (6.7%) (3.3%)	59 59 59 59 59	3 4 1 1	(5.1%) (6.8%) (1.7%) (1.7%) (1.7%)	OR=0.982 (CI: 0.190, 5.076)  OR=0.474 (CI: 0.083, 2.693)  OR=0.322 (CI: 0.013, 8.073)  OR=4.143 (CI: 0.449, 38.216)
withdrawal: ack of efficacy – 70d fied/other reason – 70d wal of consent – 70d I deviation – 70d ollow-up – 70d cue medication: on using pain medication  F (last-observation carried forwals)	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60 60	2 0 4 2 1	(3.3%) (0.0%) (6.7%) (3.3%)	59 59 59 59	4 1 1	(6.8%) (1.7%) (1.7%) (1.7%)	OR=0.474 (CI: 0.083, 2.693) OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
ack of efficacy – 70d  ffied/other reason – 70d  wal of consent – 70d  I deviation – 70d  ollow-up – 70d  cue medication:  on using pain medication  f (last-observation carried forwa	Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60	0 4 2 1	(0.0%) (6.7%) (3.3%)	59 59 59	1 1 1	(1.7%) (1.7%) (1.7%)	OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
ified/other reason – 70d wal of consent – 70d I deviation – 70d ollow-up – 70d cue medication: on using pain medication  f (last-observation carried forwa	Dichotomous Dichotomous Dichotomous Dichotomous	60 60 60	0 4 2 1	(0.0%) (6.7%) (3.3%)	59 59 59	1 1 1	(1.7%) (1.7%) (1.7%)	OR=0.322 (CI: 0.013, 8.073) OR=4.143 (CI: 0.449, 38.216)
wal of consent – 70d I deviation – 70d Ollow-up – 70d Cue medication: On using pain medication  F (last-observation carried forwa	Dichotomous Dichotomous Dichotomous	60 60 60	4 2 1	(6.7%) (3.3%)	59 59	1 1	(1.7%) (1.7%)	OR=4.143 (CI: 0.449, 38.216)
deviation – 70d collow-up – 70d coue medication: con using pain medication f (last-observation carried forwa	Dichotomous Dichotomous Dichotomous	60 60	2	(3.3%)	59	1	(1.7%)	
ollow-up – 70d scue medication: on using pain medication F (last-observation carried forwa e:	Dichotomous Dichotomous	60	1					OR=2.000 (CI: 0.176, 22.670)
scue medication: on using pain medication F (last-observation carried forwa e:	Dichotomous		1 13 <sup>d</sup>	(1.7%)	59	1	(4 70()	
on using pain medication  F (last-observation carried forward)  E:		60	13 <sup>d</sup>				(1.7%)	OR=0.983 (CI: 0.060, 16.092)
• (last-observation carried forwa •:		60	13 <sup>d</sup>					
•:	ard)		10	(21.7%)	59	21 <sup>e</sup>	(35.6%)	OR=0.501 (CI: 0.222, 1.129)
	u. u,							
DC Doin Od <sup>a</sup>								
No Falli – Uu	Continuous	60		6.6 (SD 1.6)	59		6.5 (SD 1.7)	
RS Pain – 70d <sup>a</sup>	Mean change	60		-2.21	59		-3.11	MD=0.900
RS Pain – 70d <sup>a</sup>	Continuous	60		3.7 (SD 2.6)	59		4.5 (SD 2.6)	MD=-0.900 (CI: -1.743, -0.057)
/AS – 70d	Continuous	60		-36.1	59		-26	MD=-10.200 (CI: -20.300, -0.100)
m MPQ) – 70d	Continuous	60		-1.11	59		-0.71	MD=-0.400 (CI: -0.700, -0.100)
ported improvement in								
sical and emotional								
g, including sleep:								
eep – 70d	Continuous	60		-3.1	59		-2.06	MD=-1.000 (CI: -1.850, -0.150)
m MF ported sical a g, inc eep – uares	PQ) – 70d d improvement in ind emotional luding sleep: 70d mean	PQ) – 70d Continuous d improvement in and emotional luding sleep: 70d Continuous mean	PQ) – 70d Continuous 60 d improvement in and emotional luding sleep: 70d Continuous 60 mean	PQ) – 70d Continuous 60 d improvement in and emotional luding sleep: 70d Continuous 60 mean	PQ) – 70d Continuous 60 -1.11 d improvement in and emotional luding sleep: 70d Continuous 60 -3.1 mean	PQ) – 70d Continuous 60 -1.11 59 dimprovement in and emotional luding sleep: 70d Continuous 60 -3.1 59 mean	PQ) – 70d Continuous 60 -1.11 59 dimprovement in and emotional luding sleep: 70d Continuous 60 -3.1 59 mean	PQ) – 70d Continuous 60 -1.11 59 -0.71 d improvement in and emotional luding sleep:  70d Continuous 60 -3.1 59 -2.06

Study	Rice & Maton (2001)
Pain category	Peripheral pain
Study design	Country: UK Design: Parallel Inclusion criteria: Pain present for >3 months after healing of herpes zoster, pain score of 4 or more on 11-point Likert scale, at least 18 years; women were required not to be pregnant, not lactating, postmenopausal or surgically sterilised Exclusion criteria: Participants who failed to respond to 1200mg/d gabapentin Study length (days): 49 Intention-to-treat analysis? No
Participants	Total number of patients: 344

	Number of males: 138 (40.1%)									
	Underlying cause of neuropathic pain: Post-herpetic neuralgia									
	Mean duration of NP (in months): 26.4									
	Baseline pain severity: 6.5 (NRS (average of means))									
	Mean age: 73									
Intervention(s)	(1) Gabapentin 1800mg/d Intervention: gabapentin									
	Length of treatment (weeks): 7 Fixed/flexible dose regimen: Fixed dose Set dose: 1800mg/d									
	Notes: included 4-day forced titration period where gabapentin was increased by 300 mg/d over the firset 4 days up to 1200 mg/d; from day 4-7, dosing was stable but after 1 week, the dose was titrated up to 1800 mg/d (1500 mg/d on day 8 and 1800 mg/d on day 9-14)									
	(2) Gabapentin 2400mg/d									
	Intervention: gabapentin Length of treatment (weeks): 7									
	Fixed/flexible dose regimen: Fixed dose Set dose: 2400mg/d									
	Notes: included 4-day forced titration period where gabap	entin was incr	eased	by 3	300 mg/d over th	e firse	et 4	days up to 1200	mg/d; from day 4-7, dosing	
	was stable but after 1 week, the dose was titrated up to 1800 mg/d (1500 mg/d on day 8 and 1800 mg/d on day 9-14); after 2 weeks, patients had their									
	dose titrated up to 2400 mg/d (2100 mg/d on day 15 and 2400 mg/d from day 16 onwards)									
	(3) Placebo									
	Intervention: placebo									
	Length of treatment (weeks): 7 Fixed/flexible dose regimen: Fixed dose									
Concomitant	Drug free baseline period? Yes									
treatments	Concomitant pain treatment allowed? Yes (medications allowed included anti-depressants, mild opiates (ie. Codeine, aspirin for MI and TIA prophylaxis)								for MI and TIA prophylaxis)	
	and NSAIDs; paracetamol or paracetamol/codeine allowed as rescue medication; washout period required for benzodiazepines, skeletal muscle									
	relaxants, steroids, capsaicin, mexiletine, dextromorphan, NSAIDs (for PHN) and anti-convulsants, opioids)									
Outcomes measures and	GABAPENTIN GABAPENTIN 1800MG/D 2400MG/D									
effect sizes			N	k	mean	N	k	mean	Δ	
	pain score:									
	NRS/NRS Pain – 0d	Continuous Mean	115		6.5	108		6.5		
	NRS/NRS Pain – 28d <sup>a</sup>	change Mean	93		-2 (SD 0.964)	85		-2.05 (SD 1.38)	MD=0.050 (CI: -0.303, 0.403) MD=-4.800 (CI: -5.290, -	
	NRS/NRS Pain – 49d	change	93		-2.3 (SD 1.93) <sup>b</sup>	85		-2.5 (SD 1.38) <sup>c</sup>	4.310)	
	NRS/NRS Pain – 49d at least 50% pain reduction (NRS) – 49d <sup>r</sup>	Continuous Dichotomous	93 115	30	4.3 <sup>d</sup> (26.1%)	85 108	29	4.2 <sup>e</sup> (26.9%)	MD=0.100 OR=0.961 (CI: 0.530, 1.744)	
	McGill Pain Questionnaire – 0d	Continuous	115	-	17.8 (SD 8.5)	108		19.6 (SD 8.9)		
	McGill Pain Questionnaire – 49d	Continuous	106		11.9 (SD 8.8)	97		12.5 (SD 8.3)	MD=-0.600 (CI: -2.953, 1.753)	
	Mooni an Questioniane – 450	Continuous	100		11.0 (00 0.0)	Ji		12.0 (00 0.0)	1.700)	

McGill VAS – 0d	Continuous	115		67 (SD 18)	108		70 (SD 18)	
McGill VAS – 49d	Continuous	106		47 (SD 28)	97		46 (SD 25)	MD=1.000 (CI: -6.291, 8.291)
PPI (from MPQ) – 0d	Continuous	115		2.5 (SD 1.2)	108		2.7 (SD 1.2)	,
PPI (from MPQ) – 49d	Continuous	106		1.9 (SD 1.1)	97		1.9 (SD 1.2)	MD=0.000 (CI: -0.318, 0.318)
patient-reported global improvement:								
PGIC - worse (all grades), no change or minimally better -								
49d	Dichotomous	115	71	(61.7%)	108	66	(61.1%)	OR=1.027 (CI: 0.599, 1.761)
PGIC - at least moderately better – 49d	Dichotomous	115	44	(38.3%)	108	42	(38.9%)	OR=0.974 (CI: 0.568, 1.670)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 49d	Dichotomous	115	15	(13.0%)	108	19	(17.6%)	OR=0.703 (CI: 0.337, 1.465)
adverse events:								
asthenia – 49d	Dichotomous	115	7	(6.1%)	108	6	(5.6%)	OR=1.102 (CI: 0.358, 3.389)
Diarrhoea – 49d	Dichotomous	115	7	(6.1%)	108	5	(4.6%)	OR=1.335 (CI: 0.411, 4.341)
Dizziness – 49d	Dichotomous	115	36	(31.3%)	108	36	(33.3%)	OR=0.911 (CI: 0.520, 1.598)
Dry mouth – 49d	Dichotomous	115	7	(6.1%)	108	5	(4.6%)	OR=1.335 (CI: 0.411, 4.341)
Peripheral oedema – 49d	Dichotomous	115	6	(5.2%)	108	12	(11.1%)	OR=0.440 (CI: 0.159, 1.218)
Somnolence – 49d	Dichotomous	115	20	(17.4%)	108	22	(20.4%)	OR=0.823 (CI: 0.420, 1.612)
treatment withdrawal:								
due to lack of efficacy – 49d	Dichotomous	115		(3.5%)	108		(0.9%)	OR=3.856 (CI: 0.424, 35.055)
unspecified/other reason – 49d	Dichotomous	115	3	(2.6%)	108	2	(1.9%)	OR=1.420 (CI: 0.233, 8.664)
poor compliance – 49d	Dichotomous	115	2	(1.7%)	108	1	(0.9%)	OR=1.894 (CI: 0.169, 21.191)

		GABAPENTIN 1800MG/D			PLA	CEB	0	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous Mean	115		6.5	111		6.4 <sup>a</sup> -0.85 (SD	
NRS/NRS Pain – 28d	change Mean	93		-2 (SD 0.964) <sup>b</sup>	94		0.97) <sup>c</sup>	MD=-1.150 (CI: -1.427, -0.873)
NRS/NRS Pain – 49d	change	93		-2.3 (SD 1.93) <sup>d</sup>	94		-1.1 (SD 1.94) <sup>c</sup>	MD=-1.200 (CI: -1.754, -0.646)
NRS/NRS Pain – 49d	Continuous	93		4.3 <sup>e</sup>	94		5.3 <sup>a</sup>	MD=-1.000
at least 50% pain reduction (NRS) – 49d	Dichotomous	115	30 <sup>f</sup>	(26.1%)	111	13 <sup>g</sup>	(11.7%)	OR=2.661 (CI: 1.305, 5.426)
McGill Pain Questionnaire – 0d	Continuous	115		17.8 (SD 8.5)	111		17.7 (SD 7.7)	
McGill Pain Questionnaire – 49d	Continuous	106		11.9 (SD 8.8)	105		13.7 (SD 9.5)	MD=-1.800 (CI: -4.271, 0.671)
McGill VAS - 0d	Continuous	115		67 (SD 18)	111		68 (SD 15)	,
				,			,	MD=-7.000 (CI: -14.290,
McGill VAS – 49d	Continuous	106		47 (SD 28)	105		54 (SD 26)	0.290)
PPI (from MPQ) – 0d	Continuous	115		2.5 (SD 1.2)	111		2.4 (SD 1.1)	,
PPI (from MPQ) – 49d	Continuous	106		1.9 (SD 1.1)	106		2 (SD 1.3)	MD=-0.100 (CI: -0.424, 0.224)
patient-reported global improvement:				, ,			, -/	, , , , , , , , , , , , , , , , , , , ,
PGIC - worse (all grades), no change or minimally better –								
49d	Dichotomous	115	71	(61.7%)	111	87	(78.4%)	OR=0.445 (CI: 0.247, 0.801)

a estimated from graph; ns inferred from patient flow chart a reduction of 34.4%; estimated from graph; ns inferred from patient flow chart a reduction of 34.5%; estimated from graph; ns inferred from patient flow chart a reduction of 34.4%; ns inferred from patient flow chart a reduction of 34.5%; ns inferred from patient flow chart estimated from percentages; ns inferred from patient flow chart

PGIC - at least moderately better – 49d major adverse events	Dichotomous	115 44 (38.3%)	111 24 (21.6%)	OR=2.246 (CI: 1.248, 4.044)
(defined as leading to withdrawal):				
any major adverse event – 49ď	Dichotomous	115 15 (13.0%)	111 7 (6.3%)	OR=2.229 (CI: 0.872, 5.695)
adverse events:				
asthenia – 49d	Dichotomous	115 7 (6.1%)	111 4 (3.6%)	OR=1.734 (CI: 0.493, 6.095)
Diarrhoea – 49d	Dichotomous	115 7 (6.1%)	111 1 (0.9%)	OR=7.130 (CI: 0.863, 58.927)
Dizziness – 49d	Dichotomous	115 36 (31.3%)	111 11 (9.9%)	OR=4.143 (CI: 1.983, 8.656)
Dry mouth – 49d	Dichotomous	115 7 (6.1%)	111 1 (0.9%)	OR=7.130 (CI: 0.863, 58.927)
				OR=13.237 (CI: 0.737,
Peripheral oedema – 49d	Dichotomous	115 6 (5.2%)	111 0 (0.0%)	237.829)
Somnolence – 49d	Dichotomous	115 20 (17.4%)	111 7 (6.3%)	OR=3.128 (CI: 1.266, 7.728)
treatment withdrawal:				
due to lack of efficacy – 49d	Dichotomous	115 4 (3.5%)	111 4 (3.6%)	OR=0.964 (CI: 0.235, 3.953)
unspecified/other reason – 49d	Dichotomous	115 3 (2.6%)	111 3 (2.7%)	OR=0.964 (CI: 0.190, 4.882)
poor compliance – 49d	Dichotomous	115 2 (1.7%)	111 3 (2.7%)	OR=0.637 (CI: 0.104, 3.888)

		GAB/ 2400		ENTIN /D	PLA	CEB	0		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous Mean	108		6.5 -2.05 (SD	111		6.4 <sup>a</sup> -0.85 (SD		
NRS/NRS Pain – 28d	change Mean	85		1.38) <sup>b</sup>	94		0.97) <sup>c</sup>	MD=-1.200 (CI: -1.553, -0.847)	
NRS/NRS Pain – 49d	change	85		-2.5 (SD 1.38) <sup>d</sup>	94		-1.1 (SD 1.94) <sup>c</sup>	MD=3.600 (CI: 3.110, 4.090)	
NRS/NRS Pain – 49d	Continuous	85		4.2 <sup>e</sup> `	94		5.3 <sup>a</sup> `	MD=-1.100`	
at least 50% pain reduction (NRS) - 49d	Dichotomous	108	29 <sup>f</sup>	(26.9%)	111	13 <sup>g</sup>	(11.7%)	OR=2.767 (CI: 1.349, 5.675)	
McGill Pain Questionnaire – 0d	Continuous	108		19.6 (SD 8.9)	111		17.7 (SD 7.7)		
McGill Pain Questionnaire – 49d	Continuous	97		12.5 (SD 8.3)	105		13.7 (SD 9.5)	MD=-1.200 (CI: -3.656, 1.256)	
McGill VAS – 0d	Continuous	108		70 (SD 18)	111		68 (SD 15)		
								MD=-8.000 (CI: -15.034, -	
McGill VAS – 49d	Continuous	97		46 (SD 25)	105		54 (SD 26)	0.966)	
PPI (from MPQ) – 0d	Continuous	108		2.7 (SD 1.2)	111		2.4 (SD 1.1)		
PPI (from MPQ) – 49d	Continuous	97		1.9 (SD 1.2)	106		2 (SD 1.3)	MD=-0.100 (CI: -0.444, 0.244)	
patient-reported global improvement:									
PGIC - worse (all grades), no change or minimally better -									
49d	Dichotomous	108		(61.1%)		87	(78.4%)	OR=1.735 (CI: 0.907, 3.319)	
PGIC - at least moderately better – 49d	Dichotomous	108	42	(38.9%)	111	24	(21.6%)	OR=0.774 (CI: 0.396, 1.513)	
major adverse events									
(defined as leading to withdrawal):						_			
any major adverse event – 49d	Dichotomous	108	19	(17.6%)	111	7	(6.3%)	OR=3.172 (CI: 1.275, 7.892)	

a ns inferred from patient flow chart
b estimated from graph; ns inferred from patient flow chart
c a reduction of 15.7%; estimated from graph; ns inferred from patient flow chart
d a reduction of 34.4%; estimated from graph; ns inferred from patient flow chart
a reduction of 34.4%; ns inferred from patient flow chart
estimated from percentages; ns inferred from patient flow chart
g estimated from percentages; ns inferred from patient flow chart

	adverse events: asthenia – 49d Diarrhoea – 49d Dizziness – 49d Dry mouth – 49d	Dichotomous Dichotomous Dichotomous Dichotomous	108 6 108 5 108 36 108 5	(5.6%) (4.6%) (33.3%) (4.6%)	111 4 (3.6%) 111 1 (0.9%) 111 11 (9.9%) 111 1 (0.9%)	OR=1.574 (CI: 0.431, 5.739) OR=5.340 (CI: 0.613, 46.478) OR=4.545 (CI: 2.169, 9.528) OR=5.340 (CI: 0.613, 46.478) OR=28.886 (CI: 1.688,
	Peripheral oedema – 49d Somnolence – 49d treatment withdrawal:	Dichotomous Dichotomous		(11.1%) (20.4%)	111 0 (0.0%) 111 7 (6.3%)	494.310) OR=3.801 (CI: 1.550, 9.322)
	due to lack of efficacy – 49d unspecified/other reason – 49d poor compliance – 49d	Dichotomous Dichotomous Dichotomous	108 1 108 2 108 1	(0.9%) (1.9%) (0.9%)	111 4 (3.6%) 111 3 (2.7%) 111 3 (2.7%)	OR=0.250 (CI: 0.027, 2.274) OR=0.679 (CI: 0.111, 4.147) OR=0.336 (CI: 0.034, 3.286)
	a ns inferred from patient flow chart b estimated from graph; ns inferred from patient flow ch c a reduction of 15.7%; estimated from graph; ns inferred d a reduction of 34.5%; estimated from graph; ns inferre e a reduction of 34.5%; ns inferred from patient flow ch f estimated from percentages; ns inferred from patient g estimated from percentages; ns inferred from patient	ed from patient flow char ed from patient flow char art flow chart				
Comments	14 day washout period required for benzodiazepi anti-convulsants; 30-day washout required for str		elaxants,	steroids, cap	saicin, mexiletine, dextr	omorphan, NSAIDs (for PHN) and

Study	Richter et al. (2005)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: PDN for 1 to 5 years with at least 40mm on VAS, an average daily pain score of at least 4 for 4 or more days during baseline Exclusion criteria: neurologic disorders unrelated to diabetic neuropathy, any condition that would confound study assessments, recent treatment with any investigational drug or serious medical problems. Study length (days): 42 Intention-to-treat analysis? Yes
Participants	Total number of patients: 246 Number of males: 149 (60.6%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.7 (VAS (average of means)) Mean age: 57
Intervention(s)	(1) Pregabalin 150mg/d Intervention: pregabalin Length of treatment (weeks): 6

	Fixed/flexible dose regimen: Fixed dose								
	Set dose: 150mg/d								
	Notes: 2 week titration, 4 week maintenan	ce: titrated from 25	5 ma/d	to 1	50 ma/d				
	(2) Pregabalin 600mg/d		g, c.		00g, u				
	Intervention: pregabalin								
	Length of treatment (weeks): 6								
	Fixed/flexible dose regimen: Fixed dose								
	Set dose: 600mg/d								
	Notes: 2 week titration, 4 week maintenan	ce; titrated from 10	00 mg/	d to	600 mg/d				
	(3) Placebo	•	Ü		J				
	, ,								
	Intervention: placebo								
	Length of treatment (weeks): 6								
	Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? Yes								
treatments	Concomitant pain treatment allowed? Yes	(Paracetamol and	l stahle	dos	e of SSRIs nermi	tted (SS	RIC	could be conside	red concomitant medications):
	other medications that could affect efficac								
	benzodiazepines, muscle relaxants, capsa					go, c		o, op.o.ao,o, o	ann depressante,
0	-	· · · · · · · · · · · · · · · · · · ·			- //				
Outcomes measures and			PRI	EGAE	BALIN 150MG/D	PRI	EGA	BALIN 600MG/D	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	VAS – 0d <sup>a</sup>	Continuous	79		6.5 (SD 1.3)	82		6.7 (SD 1.7)	
	VAS – 600 VAS – 42d <sup>a</sup>	Mean change	79		5.11 (SD 2.13)	82		4.29 (SD 2.35)	MD=0.820 (CI: 0.126, 1.514)
	VAS – 42d <sup>a</sup>	Continuous	79		4.9 (SD 2.2)	82		4.3 (SD 2.7)	MD=0.600 (CI: -0.160, 1.360)
	at least 50% pain reduction (VAS) – 42d	Dichotomous	79	18	(22.8%)	82	33		OR=0.438 (CI: 0.221, 0.870)
	McGill VAS – 42d <sup>a</sup>	Mean change	79		53.3 (SD 24.4)	82		43.4 (SD 24.4)	MD=9.890 (CI: 2.337, 17.443)
	PPI (from MPQ) – 42d <sup>a</sup>	Mean change	79		1.78 (SD 1.07)	82		1.3 (SD 1.09)	MD=0.480 (CI: 0.147, 0.813)
	SF McGill – 42d <sup>a</sup>	Mean change	79		15.5 (SD 8.8)	82		12.1 (SD 8.78)	MD=3.340 (CI: 0.623, 6.057)
	patient-reported global improvement: PGIC - worse (all grades) – 42d	Dichotomous	79	٥	(10.1%)	82	1	(1.2%)	OR=9.127 (CI: 1.114, 74.765)
	PGIC - no change – 42d	Dichotomous	79		(34.2%)		11	(13.4%)	OR=3.351 (Cl: 1.525, 7.363)
	PGIC - better (all grades) – 42d				(53.2%)		69	(84.1%)	OR=0.214 (CI: 0.102, 0.448)
	FGIC - Deller (all grades) – 420	Dichotomous	79	42	(55.2%)	82	US		
	major adverse events	Dichotomous	79	42	(53.2%)	82	09	(=,=)	- ( ,,
	major adverse events (defined as leading to withdrawal):				,			,	, ,
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d	Dichotomous	79 79		(2.5%)	82		(8.5%)	OR=0.278 (CI: 0.056, 1.383)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events:	Dichotomous	79	2	(2.5%)	82	7	(8.5%)	OR=0.278 (CI: 0.056, 1.383)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d	Dichotomous  Dichotomous	79 79	2	(2.5%)	82 82	7 10	(8.5%) (12.2%)	OR=0.278 (CI: 0.056, 1.383) OR=0.284 (CI: 0.075, 1.074)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d	Dichotomous Dichotomous Dichotomous	79 79 79	2 3 3	(2.5%) (3.8%) (3.8%)	82 82 82	7 10 5	(8.5%) (12.2%) (6.1%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d Diarrhoea – 42d	Dichotomous Dichotomous Dichotomous Dichotomous	79 79 79 79	2 3 3 4	(2.5%) (3.8%) (3.8%) (5.1%)	82 82 82 82	7 10 5 2	(8.5%) (12.2%) (6.1%) (2.4%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)  OR=2.133 (CI: 0.380, 11.990)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d	Dichotomous Dichotomous Dichotomous	79 79 79	2 3 3 4 8	(2.5%) (3.8%) (3.8%)	82 82 82 82	7 10 5 2 31	(8.5%) (12.2%) (6.1%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d Diarrhoea – 42d Dizziness – 42d Dry mouth – 42d headache – 42d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	79 79 79 79 79 79	2 3 3 4 8	(2.5%) (3.8%) (3.8%) (5.1%) (10.1%)	82 82 82 82 82 82	7 10 5 2 31	(8.5%) (12.2%) (6.1%) (2.4%) (37.8%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)  OR=2.133 (CI: 0.380, 11.990)  OR=0.185 (CI: 0.079, 0.437)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d Diarrhoea – 42d Dizziness – 42d Dry mouth – 42d headache – 42d Infection – 42d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	79 79 79 79 79 79 79	2 3 3 4 8 0 6 10	(2.5%) (3.8%) (3.8%) (5.1%) (10.1%) (0.0%) (7.6%) (12.7%)	82 82 82 82 82 82 82 82	7 10 5 2 31 7 13 5	(8.5%) (12.2%) (6.1%) (2.4%) (37.8%) (8.5%) (15.9%) (6.1%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)  OR=2.133 (CI: 0.380, 11.990)  OR=0.185 (CI: 0.079, 0.437)  OR=0.063 (CI: 0.004, 1.128)  OR=0.436 (CI: 0.157, 1.212)  OR=2.232 (CI: 0.727, 6.851)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d Diarrhoea – 42d Dizziness – 42d Dry mouth – 42d headache – 42d Infection – 42d Peripheral oedema – 42d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	79 79 79 79 79 79 79 79	2 3 4 8 0 6 10 3	(2.5%) (3.8%) (3.8%) (5.1%) (10.1%) (0.0%) (7.6%) (12.7%) (3.8%)	82 82 82 82 82 82 82 82 82	7 10 5 2 31 7 13 5 14	(8.5%) (12.2%) (6.1%) (2.4%) (37.8%) (8.5%) (15.9%) (6.1%) (17.1%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074) OR=0.608 (CI: 0.140, 2.633) OR=2.133 (CI: 0.380, 11.990) OR=0.185 (CI: 0.079, 0.437) OR=0.063 (CI: 0.004, 1.128) OR=0.436 (CI: 0.157, 1.212) OR=2.232 (CI: 0.727, 6.851) OR=0.192 (CI: 0.053, 0.696)
	major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: asthenia – 42d Constipation – 42d Diarrhoea – 42d Dizziness – 42d Dry mouth – 42d headache – 42d Infection – 42d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	79 79 79 79 79 79 79 79	2 3 4 8 0 6 10 3 4	(2.5%) (3.8%) (3.8%) (5.1%) (10.1%) (0.0%) (7.6%) (12.7%)	82 82 82 82 82 82 82 82 82	7 10 5 2 31 7 13 5 14 18	(8.5%) (12.2%) (6.1%) (2.4%) (37.8%) (8.5%) (15.9%) (6.1%)	OR=0.278 (CI: 0.056, 1.383)  OR=0.284 (CI: 0.075, 1.074)  OR=0.608 (CI: 0.140, 2.633)  OR=2.133 (CI: 0.380, 11.990)  OR=0.185 (CI: 0.079, 0.437)  OR=0.063 (CI: 0.004, 1.128)  OR=0.436 (CI: 0.157, 1.212)  OR=2.232 (CI: 0.727, 6.851)

treatment withdrawal: due to lack of efficacy – 42d unspecified/other reason – 42d	Dichotomous Dichotomous	79 79	0 2	(0.0%) (2.5%)	82 82	2 1	(1.2%) (2.4%)	OR=0.342 (CI: 0.014, 8. OR=1.039 (CI: 0.143, 7.
<sup>a</sup> least squares mean								
		PREC	GAE	BALIN 150MG/D	PL	ACE	во	
		N I	k	mean	N	k	mean	Δ
pain score:								
VAS – 0d <sup>a</sup>	Continuous	79		6.5 (SD 1.3)	82		6.9 (SD 1.6)	
VAS – 42d <sup>a</sup>	Mean change	79		5.11 (SD 2.13)	82		5.55 (SD 2.08)	MD=-0.440 (CI: -1.080, 0.2
VAS – 42d <sup>a</sup>	Continuous	79		4.9 (SD 2.2)	82		5.8 (SD 2.2)	MD=-0.900 (CI: -1.580, -0.
at least 50% pain reduction (VAS) - 42d	Dichotomous		18				(14.1%)	OR=1.795 (CI: 0.802, 4.01
McGill VAS – 42d <sup>a</sup>	Mean change	79		53.3 (SD 24.4)	82		58 (SD 24.3)	MD=-4.780 (CI: -12.200, 2
PPI (from MPQ) – 42d <sup>a</sup>	Mean change	79		1.78 (SD 1.07)	82		1.96 (SD 0.996)	MD=-0.170 (CI: -0.485, 0.1
SF McGill – 42d <sup>a</sup>	Mean change	79		15.5 (SD 8.8)	82		18 (SD 8.69)	MD=-2.490 (CI: -5.140, 0.1
patient-reported global improvement:	oriarigo	. •		(22 0.0)	02		. 5 (52 5.55)	2 (61. 6.1 10, 6.1
PGIC - worse (all grades) – 42d	Dichotomous	79 8	8	(10.1%)	85	8	(9.4%)	OR=1.085 (CI: 0.387, 3.04
PGIC - no change – 42d	Dichotomous		27	(34.2%)	85	31	(36.5%)	OR=0.904 (CI: 0.476, 1.71
PGIC - better (all grades) – 42d	Dichotomous		42	(53.2%)		39		OR=1.339 (CI: 0.724, 2.47
major adverse events	Dictiotomous	75	72	(33.270)	00	55	(43.370)	ON=1.555 (OI: 0.724, 2.47
(defined as leading to withdrawal):								
any major adverse event – 42d	Dichotomous	79 2	2	(2.5%)	95	4	(4.7%)	OR=0.526 (CI: 0.094, 2.95
adverse events:	Dictiotomous	13 2	_	(2.370)	00	7	(4.7 70)	ON=0.520 (CI. 0.094, 2.95
asthenia – 42d	Dichotomous	79 3	3	(3.8%)	0.5	3	(3.5%)	OR=1.079 (CI: 0.211, 5.50
Constipation – 42d	Dichotomous		3	(3.8%)	95	4	(4.7%)	OR=0.799 (CI: 0.173, 3.68
Diarrhoea – 42d	Dichotomous		4	(5.1%)		3	(3.5%)	OR=0.799 (CI: 0.173, 3.00 OR=1.458 (CI: 0.316, 6.72
Dizziness – 42d	Dichotomous	79 8		(10.1%)		2	(2.4%)	OR=1.436 (CI: 0.316, 6.72 OR=4.676 (CI: 0.962, 22.7
	Dichotomous		0	(0.0%)	00	2	(2.4%)	
Dry mouth – 42d			-		00	9		OR=0.210 (CI: 0.010, 4.44
headache – 42d	Dichotomous		6	(7.6%)			(10.6%)	OR=0.694 (CI: 0.235, 2.04
Infection – 42d	Dichotomous		10	(12.7%)		8	(9.4%)	OR=1.395 (CI: 0.521, 3.73
Peripheral oedema – 42d	Dichotomous		3	(3.8%)		4	(4.7%)	OR=0.799 (CI: 0.173, 3.68
Somnolence – 42d	Dichotomous		4	(5.1%)		3	(3.5%)	OR=1.458 (CI: 0.316, 6.72
Weight gain – 42d treatment withdrawal:	Dichotomous	79	1	(1.3%)	85	0	(0.0%)	OR=3.268 (CI: 0.131, 81.3
due to lack of efficacy – 42d	Dichotomous	79 (	0	(0.0%)	85	1	(1.2%)	OR=0.354 (CI: 0.014, 8.82
unspecified/other reason – 42d	Dichotomous	79 2		(2.5%)		8	(9.4%)	OR=0.250 (CI: 0.051, 1.21
<sup>a</sup> least squares mean		-						( /
		PREG	AB	ALIN 600MG/D	PL/	CEB	O	
								Δ.
		PREG N k		ALIN 600MG/D mean			O mean	Δ
pain score:	<b>.</b>			0 = (0 = ( = )			(05)	
VAS – 0d <sup>a</sup>	Continuous	82		6.7 (SD 1.7)	82		6.9 (SD 1.6)	
VAS – 42d <sup>a</sup>	Continuous	82		4.3 (SD 2.7)	82		5.8 (SD 2.2)	MD=-1.500 (CI: -2.254, -0.7
VAS – 42d <sup>a</sup>	Mean change	82		4.29 (SD 2.35)	82		5.55 (SD 2.08)	MD=-1.264 (CI: -1.890, -0.63
at least 50% pain reduction (VAS) – 42d	Dichotomous		33	(40.2%)			(14.1%)	OR=4.097 (CI: 1.929, 8.702)
McGill VAS – 42d <sup>a</sup>	Mean change	82		43.4 (SD 24.4)	82		58 (SD 24.3)	MD=-14.670 (CI: -21.925, -7
PPI (from MPQ) – 42d <sup>a</sup>	Mean change	82		1.3 (SD 1.09)	82		1.96 (SD 0.996)	MD=-0.660 (CI: -0.970, -0.35

	SF McGill – 42d <sup>a</sup>	Mean change	82		12.1 (SD 8.78)	82		18 (SD 8.69)	MD=-5.830 (CI: -8.430, -3.230)
	patient-reported global improvement:			_			_		
	PGIC - worse (all grades) – 42d	Dichotomous	82	1	(1.2%)	85		(9.4%)	OR=0.119 (CI: 0.015, 0.972)
	PGIC - no change – 42d	Dichotomous	82	11	(13.4%)	85	31	(36.5%)	OR=0.270 (CI: 0.125, 0.585)
	PGIC - better (all grades) – 42d	Dichotomous	82	69	(84.1%)	85	39	(45.9%)	OR=6.260 (CI: 3.016, 12.993)
	major adverse events								
	(defined as leading to withdrawal):								
	any major adverse event – 42d	Dichotomous	82	7	(8.5%)	85	4	(4.7%)	OR=1.890 (CI: 0.532, 6.716)
	adverse events:								
	asthenia – 42d	Dichotomous	82	10	(12.2%)	85	3	(3.5%)	OR=3.796 (CI: 1.006, 14.332)
	Constipation – 42d	Dichotomous	82	5	(6.1%)	85	4	(4.7%)	OR=1.315 (CI: 0.340, 5.079)
	Diarrhoea – 42d	Dichotomous	82	2	(2.4%)	85	3	(3.5%)	OR=0.683 (CI: 0.111, 4.199)
	Dizziness – 42d	Dichotomous	82	31	(37.8%)	85	2	(2.4%)	OR=25.225 (CI: 5.789, 109.911)
	Dry mouth – 42d	Dichotomous	82	7	(8.5%)	85	2	(2.4%)	OR=3.873 (CI: 0.780, 19.227)
	headache – 42d	Dichotomous	82	13	(15.9%)	85	9	(10.6%)	OR=1.591 (CI: 0.640, 3.953)
	Infection – 42d	Dichotomous	82	5	(6.1%)	85	8	(9.4%)	OR=0.625 (CI: 0.196, 1.996)
	Peripheral oedema – 42d	Dichotomous	82	14	(17.1%)	85	4	(4.7%)	OR=4.169 (CI: 1.311, 13.260)
	Somnolence – 42d	Dichotomous	82	18	(22.0%)	85	3	(3.5%)	OR=7.688 (CI: 2.169, 27.243)
	Weight gain – 42d	Dichotomous	82	8	(9.8%)	85	0	(0.0%)	OR=19.510 (CI: 1.107, 343.767)
	treatment withdrawal:				()			( )	( , ,
	due to lack of efficacy – 42d	Dichotomous	82	1	(1.2%)	85	1	(1.2%)	OR=1.037 (CI: 0.064, 16.860)
	unspecified/other reason – 42d	Dichotomous	82	2	(2.4%)	85	8	(9.4%)	OR=0.241 (CI: 0.050, 1.169)
					(=- 1,70)			(011,0)	
	a least squares mean								
Comments	baseline values not given for McGill pai	n guestionnnaire: 1/	1 day ı	wash	out required for a	nti-pnil	entic	druge NSAIDe	· 30 day washout required for opioids
Comments									
	tricyclic anti-depressants, benzodiazep		iis, ca	JSaic	an, mexiletine, de	xuome	ii iOi	priari, i i i includ	eu an randomiseu patients who
	received at least one dose of study med	dication							

Study	Rintala et al. (2007)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: USA  Design: Crossover  Inclusion criteria: 18-70 years of age, with SCI at any level and any degree of completeness, the SCI occurred at least 12 months before entering the study, at least 1 chronic (>6months) pain component characteristic of NP, at least 1 NP component rated as at least 5 on 0-10 scale when initially contacted about participating, and lived within 160km of the study centre.  Exclusion criteria: Evidence of significant cardiac conduction disturbance, history of seizures, evidence of liver dysfunction indicative of and infectious process or hepaticellular injury, evidence of renal insufficency, taking any contraindicated medication such as MAO inhibitors, recurrent or recent substance abuse problem, evidence of previous allergic reaction to any of the study medications, evidence of a serious psychologic disorder that would prevent giving informed consent or hinder one's ability to to follow through with the study based on the attending physicians clinical judgement, evidence of psychologic or psychosomatic chronic pain based on clinical judgement, pregnancy.  Study length (days): 56  Intention-to-treat analysis? Unclear
Participants	Total number of patients: 22

	Number of males: 20 (90.9%)								
	Underlying cause of neuropathic pain: Spinal	cord injury pain							
	Mean duration of NP (in months): 7.3								
	Baseline pain severity: 5.6 (VAS)								
	Mean age: 42.6 (SD: 12.6)								
Intervention(s)	(1) Amitriptyline flexible dose								
	Intervention: amitriptyline								
	Length of treatment (weeks): 8								
	Fixed/flexible dose regimen: Flexible dose Notes: First 4 weeks was titration period; give	an in 3 daily dosas instaac	d of at hedt	ima h	nacausa nahana	ntin w	e tal	kan 3v daily	
	(2) Gabapentin flexible dose	in in a daily doses instead	or at boat		ccause gabape	TILLIII VVC	ao ta	Keri ox daliy	
	Intervention: gabapentin								
	Length of treatment (weeks): 8								
	Fixed/flexible dose regimen: Flexible dose								
	Notes: First 4 weeks was titration period  (3) Active placebo								
	Intervention: placebo								
	Length of treatment (weeks): 8								
	Fixed/flexible dose regimen: Flexible dose								
	Notes: no titration period (dose kept constant	throughout study period)							
Concomitant	Drug free baseline period? Yes (duration: 7d)								
treatments	Concomitant pain treatment allowed? Yes (Pa (defined as pain above the otherwise stable a							the medication	for breakthrough pain
Outcomes measures and	tablets (one packet for each day); patients we							+ 325 mg parad	
			nis medicat	ion d		ee bas	eline BAPI	+ 325 mg parad	
effect sizes			nis medicat	ion d	uring the drug-fr	ee bas	BAPI EXIBI	+ 325 mg parade period)  ENTIN	
effect sizes			nis medicat  AMI FLE	ion di	uring the drug-fr	GA FLI	BAPI EXIBI	+ 325 mg parad period) ENTIN LE DOSE	cetamol in a packet of 8
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d		nis medicat  AMI FLE	ion di	uring the drug-fr	GA FLI	BAPI EXIBI	+ 325 mg parad period) ENTIN LE DOSE	cetamol in a packet of 8
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events	ere also allowed to take th	nis medicat  AMI FLE N	ITRIP	uring the drug-fr TYLINE E DOSE mean	GA FLI N	BAPI EXIBI k	+ 325 mg parade period)  ENTIN LE DOSE  mean	Cetamol in a packet of 8  - Δ  OR=2.044 (CI: 0.703, 5.947)
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d	ere also allowed to take th	nis medicat  AMI FLE N	ITRIP	uring the drug-fr TYLINE E DOSE mean	GA FLI N	BAPI EXIBI k	+ 325 mg parade period)  ENTIN LE DOSE  mean	Cetamol in a packet of 8  Δ  OR=2.044 (CI: 0.703,
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal:	Dichotomous  Dichotomous	AMI FLE N 38	ITRIP EXIBLI k	TYLINE E DOSE mean (31.6%)	GA FLI N 38	BAPIEXIBI k 7	+ 325 mg parace period)  ENTIN LE DOSE  mean  (18.4%)  (13.2%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147) OR=3.171 (CI: 0.315,
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d	ere also allowed to take the	AMI FLE N	ITRIP EXIBLI k	TYLINE E DOSE mean (31.6%)	GA FLI N	BAPI EXIBI k	+ 325 mg parace period)  ENTIN LE DOSE  mean  (18.4%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147)  OR=3.171 (CI: 0.315, 31.946)
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal:	Dichotomous  Dichotomous	AMI FLE N 38	ITRIP-EXIBLI  k  12  4 <sup>a</sup> 3 <sup>c</sup>	TYLINE E DOSE mean (31.6%)	GA FLI N 38	BAPIEXIBI k 7	+ 325 mg parace period)  ENTIN LE DOSE  mean  (18.4%)  (13.2%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147)  OR=3.171 (CI: 0.315, 31.946)  OR=1.000 (CI: 0.019, 51.692)
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal: unspecified/other reason – 56d	Dichotomous  Dichotomous  Dichotomous	AMIFLE N 38 38 38	ITRIPEXIBLI  12  4°  3°  0	TYLINE E DOSE mean (31.6%) (10.5%) (7.9%)	GA FLI N 38 38 38	BAPIEXIBI  k  7  5 <sup>b</sup> 1 <sup>d</sup>	+ 325 mg parace period)  ENTIN LE DOSE  mean  (18.4%)  (13.2%)  (2.6%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147)  OR=3.171 (CI: 0.315, 31.946)  OR=1.000 (CI: 0.019,
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal: unspecified/other reason – 56d protocol deviation – 56d	Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	AMI FLE N 38 38 38 38	ITRIPEXIBLI  12  4°  3°  0	TYLINE E DOSE mean  (31.6%)  (10.5%)  (7.9%)  (0.0%)	GA FLI N 38 38 38 38 38	BAPIEXIBI k 7 5 <sup>b</sup> 1 <sup>d</sup> 0	+ 325 mg parade period)  ENTIN LE DOSE  mean  (18.4%)  (13.2%)  (2.6%)  (0.0%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147)  OR=3.171 (CI: 0.315, 31.946)  OR=1.000 (CI: 0.019, 51.692)  OR=1.000 (CI: 0.019,
effect sizes	pain score: at least 30% pain reduction (VAS) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal: unspecified/other reason – 56d protocol deviation – 56d lost to follow-up – 56d	Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	AMI FLE N 38 38 38 38	ITRIPEXIBLI  12  4°  3°  0	TYLINE E DOSE mean  (31.6%)  (10.5%)  (7.9%)  (0.0%)	GA FLI N 38 38 38 38 38	BAPIEXIBI k 7 5 <sup>b</sup> 1 <sup>d</sup> 0	+ 325 mg parade period)  ENTIN LE DOSE  mean  (18.4%)  (13.2%)  (2.6%)  (0.0%)	OR=2.044 (CI: 0.703, 5.947)  OR=0.776 (CI: 0.192, 3.147)  OR=3.171 (CI: 0.315, 31.946)  OR=1.000 (CI: 0.019, 51.692)  OR=1.000 (CI: 0.019,

VAS – 56d adverse events:	Continuous	22	3.46 (SD 2.09)	22	4.85 (SD 2.86)	MD=-1.390 (CI: -2.870, 0.090) RaR=0.366 (CI: 0.225,
Constipation – 56d	Count	22 61		22	22	0.596)
Dizziness – 56d	Count	22 17		22	23	RaR=1.353 (CI: 0.723, 2.532)
Drowsiness – 56d	Count	22 57		22	46	RaR=0.807 (CI: 0.547, 1.190)
Dry mouth – 56d	Count	22 134		22	78	RaR=0.582 (CI: 0.440, 0.770)
Fatigue – 56d	Count	22 43		22	45	RaR=1.047 (CI: 0.689, 1.590)
Nausea – 56d	Count	22 19		22	13	RaR=0.684 (CI: 0.338, 1.385)
oedema – 56d	Count	22 12		22	11	RaR=0.917 (CI: 0.404, 2.077)
palpitation – 56d	Count	22 3		22	1	RaR=0.333 (CI: 0.035, 3.205)
Rash – 56d	Count	22 0		22	3	OR=0.124 (CI: 0.006, 2.549)
Urine retention – 56d <sup>f</sup>	Count	22 11		22	2	RaR=0.182 (CI: 0.040, 0.820)
Vomiting – 56d	Count	22 6		22	3	RaR=0.500 (CI: 0.125, 1.999)
Weight gain – 56d	Count	22 1		22	1	RaR=1.000 (CI: 0.063, 15.988)
<i>non-completers</i> pain score:						
VAS – 0d <sup>e</sup>	Continuous	16	6.6 (SD 2.3)	16	6.6 (SD 2.3)	
adverse events: Constipation – 56d	Count	16 22		16	9	RaR=0.409 (CI: 0.188, 0.888)
Dizziness – 56d	Count	16 9		16	7	RaR=0.778 (CI: 0.290, 2.088)
Drowsiness – 56d	Count	16 24		16	7	RaR=0.292 (CI: 0.126, 0.677)
Dry mouth – 56d	Count	16 39		16	19	RaR=0.487 (CI: 0.282, 0.843)
Fatigue – 56d	Count	16 22		16	8	RaR=0.364 (CI: 0.162, 0.817)
Nausea – 56d	Count	16 7		16	8	RaR=1.143 (CI: 0.414, 3.152)
oedema – 56d	Count	16 0		16	5	OR=0.063 (CI: 0.003, 1.262)
palpitation – 56d	Count	16 1		16	1	RaR=1.000 (CI: 0.063, 15.988)
Rash – 56d	Count	16 1		16	0	RaR=0.333 (CI: 0.014, 8.182)
Urine retention – 56d <sup>f</sup>	Count	16 0		16	1	OR=0.313 (CI: 0.012, 8.279)
Vomiting – 56d	Count	16 0		16	0	OR=1.000 (CI: 0.019, 53.457)
Weight gain – 56d	Count	16 1		16	0	RaR=0.333 (CI: 0.014, 8.182)

Treatment completers with less depressive symptomology (CESD-SF<10)								
pain score:	Cantinuana	4.4		F C (CD 0.0)	4.4		F C (CD 0 0)	
$VAS - 0d^g$	Continuous	14		5.6 (SD 2.2)	14		5.6 (SD 2.2)	MD- 0.800 (CI: 3.606
VAS – 56d <sup>h</sup>	Continuous	14		3 (SD 2.24)	14		3.8 (SD 2.62)	MD=-0.800 (CI: -2.606, 1.006)
VAS – 300	Percentage change from	14		3 (3D 2.24)	14		3.0 (3D 2.02)	1.000)
VAS – 56d <sup>i</sup>	baseline	14		31.5	14		13.9	MD=17.600
VAS – 56d <sup>7</sup>	Mean change	14		-1.58	14		-0.84	MD=0.740
								OR=1.333 (CI: 0.301,
at least 30% pain reduction (VAS) – 56d <sup>j</sup>	Dichotomous	14	7	(50.0%)	14	6	(42.9%)	5.912)
Treatment completers with more depressive symptomology (CESD-SF>or=10) pain score:								
VAS – 0d <sup>g</sup>	Continuous	8		5.6 (SD 2.2)	8		5.6 (SD 2.2)	
		-		0.0 (0.1 =)	-		()	MD=-2.490 (CI: -4.595,
VAS - 56d	Continuous	8		4.21 (SD 1.95)	8		6.7 (SD 2.33) <sup>h</sup>	-0.385)
VAS – 56d <sup>i</sup>	Mean change	8		-3.21 <sup>`</sup>	8		-0.7`	MD=2.510
	Percentage change from							
VAS – 56d <sup>i</sup>	baseline	8		40.6	8		11.3	MD=29.300 OR=11.667 (CI: 0.922,
at least 30% pain reduction (VAS) – 56d <sup>/</sup>	Dichotomous	8	5	(62.5%)	8	1	(12.5%)	147.563)

<sup>&</sup>lt;sup>a</sup> causes: suicide ideation in 1, drowsiness/dizziness/falling out of wheelchair in 1, allodynia and pins and needles in extremities in 1 and a variety of reasons (including drowsiness, abdominal pain, rapid heartbeat and chills

b causes: shortness of breath in 1, dizziness/fatigue/nausea in 1, increased spasticity and pain in 1, fatigue/drowsiness/constipation/dry mouth in 1 and severe itching in 1

c 2 due to medical problems (other than adverse events); 1 moved out of state

d due to medical problems (other than adverse events)

calculated from percentages

			AMITRIPTYLINE FLEXIBLE DOSE			TIV	E PLACEBO		
		N	k	mean	N	k	mean	Δ	
pain score: at least 30% pain reduction (VAS) – 56d major adverse events	Dichotomous	38	12	(31.6%)	38	7	(18.4%)	OR=2.044 (CI: 0.703, 5.947)	
defined as leading to withdrawal): any major adverse event – 56d reatment withdrawal:	Dichotomous	38	4 <sup>a</sup>	(10.5%)	38	2 <sup>b</sup>	(5.3%)	OR=2.118 (CI: 0.364 12.320) OR=3.171 (CI: 0.315	
unspecified/other reason – 56d	Dichotomous	38	3 <sup>c</sup>	(7.9%)	38	1 <sup>d</sup>	(2.6%)	31.946)	
protocol deviation – 56d	Dichotomous	38	0	(0.0%)	38	1	(2.6%)	OR=0.325 (CI: 0.013 8.224) OR=0.190 (CI: 0.009	
lost to follow-up - 56d	Dichotomous	38	0	(0.0%)	38	2	(5.3%)	4.084)	

pain intensity on average in the baseline week - this is across all patients in each treatment group defined as 'difficulty emptying bladder'

baseline data for all treatment completers

estimated from graph

values taken from figure

Treatment completers pain score: VAS – 0d°	Continuous	22	5.6 (SD 2.2)	22	5.6 (SD 2.2) 5.11 (SD	MD- 1 650 (CI: 2 02
VAS - 56d	Continuous	22	3.46 (SD 2.09)	22	2.54)	MD=-1.650 (CI: -3.02-0.276)
adverse events: Constipation – 56d	Count	22 61		22 26	;	RaR=0.426 (CI: 0.269 0.675) RaR=0.882 (CI: 0.441
Dizziness – 56d	Count	22 17	•	22 15	i	1.767) RaR=0.860 (CI: 0.587
Drowsiness – 56d	Count	22 57		22 49	1	1.259) RaR=0.649 (CI: 0.496
Dry mouth – 56d	Count	22 13	4	22 87	•	0.850) RaR=0.698 (CI: 0.43
Fatigue – 56d	Count	22 43		22 30	)	1.112) RaR=0.316 (CI: 0.12
Nausea – 56d	Count	22 19	1	22 6		0.791) RaR=0.917 (CI: 0.40
oedema – 56d	Count	22 12	!	22 11		2.077)
palpitation – 56d	Count	22 3		22 5		RaR=1.667 (CI: 0.39 6.974)
Rash – 56d	Count	22 0		22 2		OR=0.182 (CI: 0.008 4.024)
Urine retention – 56d <sup>f</sup>	Count	22 11		22 3		RaR=0.273 (CI: 0.07 0.978)
Vomiting – 56d	Count	22 6		22 1		RaR=0.167 (CI: 0.02 1.384) RaR=0.333 (CI: 0.01
Weight gain – 56d	Count	22 1		22 0		8.182)
non-completers pain score:						
VAS – 0d <sup>e</sup>	Continuous	16	6.6 (SD 2.3)	16	6.6 (SD 2.3)	
adverse events:		40.00		40.0		RaR=0.409 (CI: 0.18
Constipation – 56d	Count	16 22		16 9		0.888) RaR=0.778 (CI: 0.29
Dizziness – 56d	Count	16 9		16 7		2.088)
Drowsiness – 56d	Count	16 24		16 8		RaR=0.333 (CI: 0.15 0.742)
Dry mouth – 56d	Count	16 39	1	16 7		RaR=0.179 (CI: 0.08 0.401)
Fatigue – 56d	Count	16 22		16 12	1	RaR=0.545 (CI: 0.27 1.102)
			•		•	RaR=0.714 (CI: 0.22
Nausea – 56d	Count	16 7		16 5		2.251) OR=1.000 (CI: 0.019
oedema – 56d	Count	16 0		16 0		53.457) RaR=1.000 (CI: 0.06
palpitation – 56d	Count	16 1		16 1		15.988) RaR=0.333 (CI: 0.01
Rash – 56d	Count	16 1		16 0		8.182) OR=0.313 (CI: 0.012
Urine retention – 56d <sup>f</sup>	Count	16 0		16 1		8.279)

Vomiting – 56d Weight gain – 56d	Count Count	16 16	0		16 16			OR=0.313 (CI: 0.012, 8.279) RaR=0.333 (CI: 0.014, 8.182)
Treatment completers with less depressive symptomology (CESD-SF<10)								
pain score: VAS – 0d <sup>g</sup>	Continuous	14		5.6 (SD 2.2)	14		5.6 (SD 2.2) 4.2 (SD	MD=-1.200 (CI: -3.006,
VAS – 56d <sup>h</sup>	Continuous Percentage change from	14		3 (SD 2.24)	14		2.62)	0.606)
VAS – 56d <sup>i</sup>	baseline	14		31.5	14		16.5	MD=15.000
VAS – 56d <sup>′</sup>	Mean change	14		-1.58	14		-0.4	MD=-1.180 OR=1.800 (CI: 0.396,
at least 30% pain reduction (VAS) – 56d <sup>i</sup>	Dichotomous	14	7	(50.0%)	14	5	(35.7%)	8.182)
Treatment completers with more depressive symptomology (CESD-SF>or=10) pain score:								
VAS – Od <sup>g</sup>	Continuous	8		5.6 (SD 2.2)	8		5.6 (SD 2.2) 6.68 (SD	MD=-2.470 (CI: -4.347,
VAS – 56d	Continuous	8		4.21 (SD 1.95)	8		1.88)	-0.593)
VAS – 56d <sup>i</sup>	Mean change Percentage change from	8		-3.21	8		-0.74	MD=-2.470
VAS – 56d <sup>i</sup>	baseline	8		40.6	8		8.7	MD=31.900 OR=5.000 (CI: 0.584,
at least 30% pain reduction (VAS) – 56d <sup>j</sup>	Dichotomous	8	5	(62.5%)	8	2	(25.0%)	42.797)

<sup>&</sup>lt;sup>a</sup> causes: suicide ideation in 1, drowsiness/falling out of wheelchair in 1, allodynia and pins and needles in extremities in 1 and a variety of reasons (including drowsiness, abdominal pain, rapid heartbeat and chills becauses: palpitations in 1 and fatigue/dizziness/drowsiness in 1 celling 2 due to medical problems (other than adverse events); 1 moved out of state

calculated from percentages

			GABAPENTIN FLEXIBLE DOSE		AC	TIV	E PLACEBO	
		N	k	mean	N	k	mean	Δ
pain score: at least 30% pain reduction (VAS) – 56d major adverse events	Dichotomous	38	7	(18.4%)	38	7	(18.4%)	OR=1.000 (CI: 0.314, 3.190)
(defined as leading to withdrawal): any major adverse event – 56d treatment withdrawal:	Dichotomous	38	5ª	(13.2%)	38	2 <sup>b</sup>	(5.3%)	OR=2.727 (CI: 0.495, 15.026) OR=1.000 (CI: 0.060,
unspecified/other reason – 56d <sup>c</sup>	Dichotomous	38	1	(2.6%)	38	1	(2.6%)	16.594)

due to medical problems (other than adverse events); 1 moved out of state due to medical problems (other than adverse events)

pain intensity on average in the baseline week - this is across all patients in each treatment group defined as 'difficulty emptying bladder' baseline data for all treatment completers

estimated from graph values taken from figure

protocol deviation – 56d	Dichotomous	38	0	(0.0%)	38	1	(2.6%)	OR=0.325 (CI: 0.013, 8.224) OR=0.190 (CI: 0.009,
lost to follow-up - 56d	Dichotomous	38	0	(0.0%)	38	2	(5.3%)	4.084)
Treatment completers pain score:								
$VAS - 0d^d$	Continuous	22		5.6 (SD 2.2)	22		5.6 (SD 2.2) 5.11 (SD	MD 0.260 (Cl. 4.959
VAS – 56d adverse events:	Continuous	22		4.85 (SD 2.86)	22		2.54)	MD=-0.260 (CI: -1.858, 1.338) RaR=1.178 (CI: 0.668,
Constipation – 56d	Count	22	22		22	26		2.078) RaR=0.652 (CI: 0.340,
Dizziness – 56d	Count	22	23		22	15		1.250) RaR=1.065 (CI: 0.712,
Drowsiness – 56d	Count	22				49		1.593) RaR=1.115 (CI: 0.822,
Dry mouth – 56d	Count	22			22	87		1.514) RaR=0.667 (CI: 0.420,
Fatigue – 56d	Count	22	45		22	30		1.058) RaR=0.462 (CI: 0.175,
Nausea – 56d	Count	22	13		22	6		1.214) RaR=1.000 (CI: 0.434,
oedema – 56d	Count	22	11		22	11		2.307) RaR=5.000 (CI: 0.584,
palpitation – 56d	Count	22	1		22	5		42.797) RaR=0.667 (CI: 0.111,
Rash – 56d	Count	22	3		22	2		3.990) RaR=1.500 (CI: 0.251,
Urine retention – 56d <sup>e</sup>	Count	22	2		22	3		8.977) RaR=0.333 (CI: 0.035,
Vomiting – 56d	Count	22	3		22	1		3.205) RaR=0.333 (CI: 0.014,
Weight gain – 56d	Count	22	1		22	0		8.182)
non-completers pain score:								
VAS – 0d <sup>d</sup> adverse events:	Continuous	16		6.6 (SD 2.3)	16		6.6 (SD 2.3)	RaR=1.000 (CI: 0.397,
Constipation – 56d	Count	16	9		16	9		2.519) RaR=1.000 (CI: 0.351,
Dizziness – 56d	Count	16	7		16	7		2.851) RaR=1.143 (CI: 0.414,
Drowsiness – 56d	Count	16	7		16	8		3.152) RaR=0.368 (CI: 0.155,
Dry mouth – 56d	Count	16	19		16	7		0.876) RaR=1.500 (CI: 0.613,
Fatigue – 56d	Count	16	8		16	12		3.670) RaR=0.625 (CI: 0.204,
Nausea – 56d	Count	16	8		16	5		1.910) RaR=0.091 (CI: 0.005,
oedema – 56d	Count	16	5		16	0		1.644) RaR=1.000 (CI: 0.063,
palpitation – 56d	Count	16	1		16	1		15.988)

	Rash – 56d	Count	16	0		16 0		OR=1.000 (CI: 0.019, 53.457) RaR=1.000 (CI: 0.063,
	Urine retention – 56d°	Count	16	1		16 1		15.988) OR=0.313 (CI: 0.012,
	Vomiting – 56d	Count	16	0		16 1		8.279) OR=1.000 (CI: 0.019,
	Weight gain – 56d	Count	16	0		16 0		53.457)
	Treatment completers with less depressive symptomology (CESD-SF<10) pain score:							
	VAS – 0d <sup>f</sup>	Continuous	14		5.6 (SD 2.2)	14	5.6 (SD 2.2) 4.2 (SD	MD=-0.400 (CI: -2.341,
	VAS – 56d <sup>g</sup>	Continuous Percentage change from	14		3.8 (SD 2.62)	14	2.62)	1.541)
	VAS – 56d <sup>h</sup>	baseline	14		13.9	14	16.5	MD=-2.600
	VAS – 56d <sup>n</sup>	Mean change	14		-0.84	14	-0.4	MD=-0.440
		Ğ		6			-	OR=1.350 (CI: 0.295,
	at least 30% pain reduction (VAS) – 56d'	Dichotomous	14	ь	(42.9%)	14 5	(35.7%)	6.183)
	Treatment completers with more depressive symptomology (CESD-SF>or=10)							
	pain score:							
	VAS – 0d <sup>f</sup>	Continuous	8		5.6 (SD 2.2)	8	5.6 (SD 2.2) 6.68 (SD	MD=0.020 (CI: -2.055,
	VAS – 56d	Continuous	8		6.7 (SD 2.33) <sup>g</sup>	8	1.88)	2.095)
	VAS – 56d <sup>h</sup>	Mean change	8		-0.7	8	-0.74	MD=0.040
		Percentage change from						
	VAS – 56d <sup>h</sup>	baseline	8		11.3	8	8.7	MD=2.600 OR=0.429 (CI: 0.031,
	at least 30% pain reduction (VAS) – 56d <sup>i</sup>	Dichotomous	8	1	(12.5%)	8 2	(25.0%)	5.985)
	a causes: shortness of breath in 1, dizziness/fatigue/nausea b causes: palpitations in 1 and fatigue/dizziness/drowsiness due to medical problems (other than adverse events) pain intensity on average in the baseline week - this is acredited defined as 'difficulty emptying bladder' baseline data for all treatment completers estimated from graph values taken from figure calculated from percentages	s in 1			atigue/drowsiness/c	onstipatio	on/dry mouth in	1 and severe itching in 1
Comments	participants were those that had given permission to patients who withdrew from the study before a given they were receiving; at least 50% of participants who had an average of 2 tablets per day (there was no sign groups were combined)	time point, most patients we completed the study receive	ere abl ed no	le to brea	tolerate maximur akthrough medica	m tolera tion in v	ble dosages o veek 8 - the m	f whichever medication ajority of other patients

• •	D 11 (2001)
Study	Robinson et al. (2004)
Olday	Nobinson et al. (2004)

Pain category	Mixed (central and peripheral) or unclear if r	nixed					
Study design	Country: USA Design: Parallel Inclusion criteria: amputation >6 months with Exclusion criteria: age 50 years or older with antidepressant medication, use of more than Study length (days): 42 Intention-to-treat analysis? Yes	conduction a	abnormalities on ECG			· ·	ar disease or seizures, on any
Participants	Total number of patients: 39 Number of males: 33 (84.6%) Underlying cause of neuropathic pain: Phan Mean duration of NP (in months): not report Baseline pain severity: 3.4 (NRS (average of Mean age: 44.85)	ed .		d residua	ıl limb	o)))	
Intervention(s)	(1) Amitriptyline 125 mg/d Intervention: amitriptyline Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dose Set dose: 125mg/d Notes: 10 mg/d in week 1, 25 mg/d in week (2) Placebo (0.5mg benztropine) Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dose Set dose: 0.5mg/d Notes: benztropine	2, 50 mg/d in	week 3, 75 mg/d in w	eek 4, 10	00 mg	ı/d in week 5, 125 mg	/d in week 6
Concomitant treatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? Yes (pure muscle relaxants, capsaicin, narcotics, fatty antidepressants and centrally acting analger for 30 days) were permitted (SSRIs have also	acid supplem sics (ie trama	ents, evening primros dol and dextromethorp	e oil, myd han); pa	oinos	itol, chromium picolin	ate), anti-convulsants, tricyclic
Outcomes		AMITE	RIPTYLINE 125 MG/D	PLAC	ЕВО	(0.5MG BENZTROPINE	3)
measures and effect sizes		N F	k mean	N	k	mean	Δ
	pain score: SF McGill – 0d Continuo SF McGill – 42d Continuo		13 (SD 10.5) 11.6 (SD 10)	19 19		12 (SD 11.1) 12.5 (SD 8.6)	MD=-0.900 (CI: -6.925, 5.125)

	patient-reported improvement in daily physical and emotional functioning, including sleep:								
	BPI (modified) – 0d	Continuous	18		28.4 (SD 23.9)	19		28.8 (SD 22.3)	
	BPI (modified) – 42d	Continuous	18		30.3 (SD 30.6)	19		24.4 (SD 21.4)	MD=5.900 (CI: -11.200, 23.000)
	major adverse events	Continuous	.0		00.0 (02 00.0)	10		24.4 (00 21.4)	WID=0.000 (OI: 11.200, 20.000)
	(defined as leading to withdrawal):								
	any major adverse event – 42d	Dichotomous	20	2	(10.0%)	19	0	(0.0%)	OR=5.270 (CI: 0.237, 117.256)
	adverse events:	Dionotomodo		_	(10.070)		Ū	(0.070)	GR-0.270 (GR. 0.207; 117.200)
	Blurred vision	Dichotomous	20	1	(5.0%)	19	5	(26.3%)	OR=0.147 (CI: 0.015, 1.406)
	Constipation	Dichotomous	20	4	(20.0%)	19	3	(15.8%)	OR=1.333 (CI: 0.256, 6.940)
	Diarrhoea	Dichotomous	20	1	(5.0%)	19	1	(5.3%)	OR=0.947 (CI: 0.055, 16.309)
	Dizziness	Dichotomous	20	2	(10.0%)	19	3	(15.8%)	OR=0.593 (CI: 0.088, 4.009)
	drowsiness/tiredness/fatique	Dichotomous	20	9	(45.0%)	19	9	(47.4%)	OR=0.909 (CI: 0.258, 3.204)
	Dry mouth	Dichotomous	20	13	(65.0%)	19	13	(68.4%)	OR=0.857 (CI: 0.226, 3.254)
	headache	Dichotomous	20	0	(0.0%)	19	1	(5.3%)	OR=0.301 (CI: 0.012, 7.850)
	nausea/vomiting	Dichotomous	20	2	(10.0%)	19	0	(0.0%)	OR=5.270 (CI: 0.237, 117.256)
	palpitation	Dichotomous	20	0	(0.0%)	19	2	(10.5%)	OR=0.171 (CI: 0.008, 3.800)
	sleep disturbance	Dichotomous	20	2	(10.0%)	19	2	(10.5%)	OR=0.944 (CI: 0.119, 7.477)
	Urine retention	Dichotomous	20	1	(5.0%)	19	1	(5.3%)	OR=0.947 (CI: 0.055, 16.309)
	Residual (or stump) limb pain								
	pain score:								
	NRS/NRS Pain – 0d	Continuous	6		3.9 (SD 2.6)	7		3 (SD 2.5)	
	NRS/NRS Pain – 42d	Continuous	6		3.1 (SD 2.2)	7		2.3 (SD 2)	MD=0.800 (CI: -1.501, 3.101)
	Phantom limb pain								
	pain score:								
	NRS/NRS Pain – 0d	Continuous	17		3.6 (SD 2.4)	14		3.1 (SD 2.6)	
	NRS/NRS Pain – 42d	Continuous	17		3.1 (SD 2.7)	14		3.1 (SD 2.9)	MD=0.000 (CI: -1.989, 1.989)
omments	authors added 3 items to the BPI	to provide a mo	re bro	ad-ba	ased assesment: n	ain inter	ferenc	e with self-care, recre	eational activities, social activities;
minorito	there was a 1 week baseline pha					ani intoi	1010110	o with con care, recie	ational activitios, social activitios,

Study	Rog et al. (2005)
Pain category	Central pain
Study design	Country: UK  Design: Parallel  Inclusion criteria: with diagnosed MS at least 6 months prior, with central neuropathic pain syndromes of at least 3 months due to MS (where nocioceptive pain was unlikely)  Exclusion criteria: spasticity or painless spasms alone or other noncentral pain mechanisms were mroe likely, chronic visceral pain, headache, spasticity-associated aching pain, secondary entrapment syndromes, or acute MS-related pains (ie. Optic neuritis or positive Lhermitte sign alone), cannabis use at least 7 days before, history of major psychiatric disorder other than depression associated with underlying condition, severe concomitant illness, seizures, hisotry or suspicion of substance abuse, concomitant nonneuropathic pain or illness that could cause peripheral neuropathic pain, pregnancy, lactacting, levodopa therapy within 7 days of study entry, known or suspected hypersensitivity to cannabinoids, schoeduled procedures requiring general anaesthetic during study

riod but also, no more was 9.6 (from 2 to 25,
on for 15 days prior and
50 (CI: -2.110, -0.390) 10 (CI: -2.164, -0.056)
10 (CI2.104, -0.000)
80 (CI: -12.970, -0.190)
30 (CI: -14.115, 2.455)
2 (CI: 0.018, 48.881)
2 (CI: 0.018, 48.881)
4 (CI: 0.094, 3.875) 1 (CI: 0.073, 0.608)
1 (CI: 1.120, 10.447)
4 (CI: 0.579, 8.011) 0 (CI: 0.690, 9.204)
50 10 30 22 4 1 1 4

	PGIC - much better – 28d	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	patient-reported improvement in						
	daily physical and emotional						
	functioning, including sleep:						
	Normalised (10-pt) sleep interference measure – 0d <sup>a</sup>	Continuous	33	5.26 (SD 2.68)	32	4.47 (SD 2.74)	
	Normalised (10-pt) sleep interference measure – 28d <sup>a</sup>	Continuous	33	2.69 (SD 2.05)	32	3.64 (SD 2.63)	
	NRS Sleep – 0d	Continuous	33	5.26 (SD 2.68)	32	4.47 (SD 2.74)	
	NRS Sleep – 28d	Mean change	33		32		MD=-1.390 (CI: -2.275, -0.505)
	NRS Sleep – 28d	Continuous	33	2.69 (SD 2.05)	32	3.64 (SD 2.63)	MD=-0.950 (CI: -2.098, 0.198)
	major adverse events						
	(defined as leading to withdrawal):						
	any major adverse event – 28d	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	adverse events:						
	any adverse event – 28d	Dichotomous	34 30	(88.2%)	32 22	(68.8%)	OR=3.409 (CI: 0.945, 12.303)
	Burning pain <sup>b</sup>	Dichotomous	34 0	(0.0%)	32 1	(3.1%)	OR=0.304 (CI: 0.012, 7.747)
	chest discomfort	Dichotomous	34 0	(0.0%)	32 1	(3.1%)	OR=0.304 (CI: 0.012, 7.747)
	Diarrhoea	Dichotomous	34 2		32 0	(0.0%)	OR=5.000 (CI: 0.231, 108.254)
	Dissociation – 28d	Dichotomous	34 3	(8.8%)	32 0	(0.0%)	OR=7.222 (CI: 0.358, 145.561)
	Dizziness – 28d	Dichotomous	34 18	3 (52.9%)	32 5	(15.6%)	OR=6.075 (CI: 1.889, 19.533)
	Dry mouth	Dichotomous	34 4		32 0	(0.0%)	OR=9.590 (CI: 0.495, 185.669)
	dyspepsia	Dichotomous	34 0	(0.0%)	32 1	(3.1%)	OR=0.304 (CI: 0.012, 7.747)
	euphoria – 28d	Dichotomous	34 2		32 0	(0.0%)	OR=5.000 (CI: 0.231, 108.254)
	falls – 28d	Dichotomous	34 3	(8.8%)	32 2	(6.3%)	OR=1.452 (CI: 0.226, 9.309)
	Fatigue – 28d	Dichotomous	34 2		32 2	(6.3%)	OR=0.938 (CI: 0.124, 7.083)
	feeling abnormal – 28d	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	feeling drunk/drugged – 28d	Dichotomous	34 1	(2.9%)	32 1	(3.1%)	OR=0.939 (CI: 0.056, 15.679)
	glossodynia	Dichotomous	34 1	(2.9%)	32 3	(9.4%)	OR=0.293 (CI: 0.029, 2.973)
	headache	Dichotomous	34 1	(2.9%)	32 3	(9.4%)	OR=0.293 (CI: 0.029, 2.973)
	impaired attention – 28d	Dichotomous	34 2	(5.9%)	32 0	(0.0%)	OR=5.000 (CI: 0.231, 108.254)
	mouth ulceration	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	Nausea	Dichotomous	34 3	(8.8%)	32 2	(6.3%)	OR=1.452 (CI: 0.226, 9.309)
	pharyngitis	Dichotomous	34 2	(5.9%)	32 1	(3.1%)	OR=1.938 (CI: 0.167, 22.469)
	Somnolence	Dichotomous	34 3	(8.8%)	32 0	(0.0%)	OR=7.222 (CI: 0.358, 145.561)
	Vomiting	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	weakness – 28d	Dichotomous	34 3	(8.8%)	32 0	(0.0%)	OR=7.222 (CI: 0.358, 145.561)
	treatment withdrawal:	21011010111000	0. 0	(5.570)	0 <u>-</u> 0	(3.070)	3.1
	withdrawal of consent – 28d	Dichotomous	34 1	(2.9%)	32 0	(0.0%)	OR=2.910 (CI: 0.114, 74.076)
	protocol deviation – 28d	Dichotomous	34 2	(5.9%)	32 0	(0.0%)	OR=5.000 (CI: 0.231, 108.254)
	· ·	Dionotornous	0- <del>1</del> Z	(0.070)	02 0	(3.070)	J. (-0.000 (31. 0.201, 100.204)
	dysesthetic pain						
	pain score:						
	NRS/NRS Pain – 28d	Mean change	30	-2.4 (SD 1.5)	28	-1.3 (SD 1.7)	MD=-1.100 (CI: -1.927, -0.273)
	nainful anaema	-		• •			,
	painful spasms						
	pain score:	Moon about	2	E 7 (CD 0 E)	4	24 (CD 4 C)	MD 2 600 (Cl. 7 000 0 000)
	NRS/NRS Pain – 28d	Mean change	3	-5.7 (SD 3.5)	4	-2.1 (SD 1.6)	MD=-3.600 (CI: -7.860, 0.660)
	a based on NRS Sleep						
	based of Title bleep  b application site burning						
Comments	of 66 patients, 59 were dysesthetic and 7 had painful						
	by patients as required (there was no specific target	dosage); ITT por	ulation i	ncluded all those	who had	d at least one do	se of study medication and some
	efficacy data; no significant differences in most neuro						
	there was an initial 7 day screening period where pat						2 - 1 - (
	anoro was air initiai / day soleening penou where par	acino wore not al	iowica lu	Have any canna	Siliola as	,,,	

Study	Rosenstock et al. (2004)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Aged 18 and over with type 1 or 2 diabetes with symetrical painful symptoms in distal extremities for 1-5 years prior to the study, and whose symptoms were attributable to sensorimotor PDN. Score of at least 40mm on 100mm VAS, and minimum average daily pain score of 4 on an 11 point NRS  Exclusion criteria: Other serious or unstable medical conditions including psychiatric disorders and conditions that could confound evaluation of PDN. Participants with amputations other than toes, non-diabetic neurological disorders, skin conditions affecting sensation in painful limbs, serum creatinine clearance <60ml/min, failure to repsond to previous treatment with gabapentin at doese of >1200mg/day for pain associated with PDN, or previous participation in other pregabalin clinical trials.  Study length (days): 63 Intention-to-treat analysis? Yes
Participants	Total number of patients: 146 Number of males: 82 (56.2%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: not reported (not reported) Mean age: 59.7
Intervention(s)	(1) Pregabalin 300mg/day Intervention: pregabalin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d Notes: no titration period (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No  Concomitant pain treatment allowed? Yes (Paracetamol (up to 4g/d), aspirin (up to 325 mg/d), and SSRIs (SSRIs could be considered concomitant medications) provided no doeses changed in 30 days prior to randomisation or during study)
Outcomes	PREGABALIN 300MG/DAY PLACEBO
measures and effect sizes	N k mean Ν k mean Δ

pain score: NRS/NRS Pain – 56d <sup>a</sup> at least 50% pain reduction (NRS) – 56d	Continuous Dichotomous	75 76	26 <sup>b</sup>	3.99 (SD 2.25) (34.2%)	69 70 9 <sup>c</sup>	5.46 (SD 2.33) (12.9%)	MD=-1.470 (CI: -2.190, -0.75 OR=3.926 (CI: 1.656, 9.310)
at least 50% pain reduction (NRS) – 56d	Dichotomous	65	26 <sup>b</sup>	(34.2%)	62 9 <sup>c</sup>	(12.9%)	OR=3.926 (CI: 1.656, 9.310)
McGill VAS – 56d <sup>a</sup>	Continuous	75		40.8 (SD 26.3)	69	57 (SD 26.7)	MD=-16.190 (CI: -24.855, -7.
PPI (from MPQ) – 56d <sup>a</sup>	Continuous	75 75		1.42 (SD 1.13)	69	1.79 (SD 1.08)	MD=-0.370 (CI: -0.730, -0.01
SF McGill – 56d <sup>a</sup> patient-reported global improvement:	Continuous	75		10.5 (SD 26.3)	69	14.9 (SD 9.39)	MD=-4.410 (CI: -7.325, -1.49
PGIC - worse (all grades) – 56d	Dichotomous	76	6	(7.9%)	70 13	(18.6%)	OR=0.376 (CI: 0.134, 1.051)
PGIC - no change – 56d	Dichotomous	76	18	(23.7%)	70 13		OR=0.439 (CI: 0.215, 0.894)
PGIC - better (all grades) – 56d	Dichotomous	76	49	(64.5%)		(38.6%)	OR=2.890 (CI: 1.475, 5.663)
patient-reported improvement in	2.00.0000	. 0		(0070)		(00.070)	0.1 <u>2.000</u> (0.1 1.1 0, 0.000)
daily physical and emotional							
functioning, including sleep:							
POMS – 56d	Continuous	71		23.5 (SD 26.3) <sup>d</sup>	66	33.4 (SD 27.3)	MD=-9.950 (CI: -18.530, -1.3
NRS Sleep – 56d <sup>a</sup>	Continuous	75		2.78 (SD 2.34)	69	4.32 (SD 2.41)	MD=-1.540 (CI: -2.280, -0.80
major adverse events							
(defined as leading to withdrawal):							
any major adverse event – 56d	Dichotomous	76	8	(10.5%)	70 2	(2.9%)	OR=4.000 (CI: 0.819, 19.527
adverse events:	<b>5</b>		_	(0.004)		(2.22()	05 / 05 / 01 0 05 0 0 0 0
asthenia – 56d	Dichotomous	76 70		(3.9%)	70 2	(2.9%)	OR=1.397 (CI: 0.227, 8.619)
Constipation – 56d	Dichotomous		4 3	(5.3%)	70 0 70 2	(0.0%)	OR=8.752 (CI: 0.463, 165.55
Diarrhoea – 56d Dizziness – 56d	Dichotomous Dichotomous		ა 27	(3.9%) (35.5%)	70 2 70 8	(2.9%) (11.4%)	OR=1.397 (CI: 0.227, 8.619) OR=4.270 (CI: 1.783, 10.228
flu-like symptoms – 56d	Dichotomous	76	3	(3.9%)	70 3	(4.3%)	OR=0.918 (CI: 0.179, 4.705)
headache – 56d	Dichotomous	76	5	(6.6%)	70 3	(10.0%)	OR=0.634 (CI: 0.179, 4.709)
hyperglycaemia – 56d	Dichotomous	76	3	(3.9%)	70 0	(0.0%)	OR=6.714 (CI: 0.341, 132.34
Infection – 56d	Dichotomous		11	(14.5%)	70 4	(5.7%)	OR=2.792 (CI: 0.846, 9.220)
Nausea – 56d	Dichotomous	76	6	(7.9%)	70 6	(8.6%)	OR=0.914 (CI: 0.281, 2.979)
Peripheral oedema – 56d	Dichotomous		8	(10.5%)	70 1	(1.4%)	OR=8.118 (CI: 0.988, 66.666
Somnolence – 56d	Dichotomous		15	(19.7%)	70 2	(2.9%)	OR=8.361 (CI: 1.837, 38.050
Vomiting – 56d	Dichotomous	76	3	(3.9%)	70 1	(1.4%)	OR=2.836 (CI: 0.288, 27.917
overall improvement in quality of life:							
SF36 Mental – 56d <sup>a</sup>	Continuous	72		75.8 (SD 16.1)	69	72.4 (SD 16.4)	MD=3.470 (CI: -1.725, 8.665
SF36 bodily pain – 56d <sup>a</sup>	Continuous	73		53.8 (SD 19.1)	69	47 (SD 19.7)	MD=6.870 (CI: 0.700, 13.040
SF36 vitality – 56d <sup>a</sup>	Continuous	72		46.8 (SD 16.6)	69	43.6 (SD 17)	MD=3.240 (CI: -2.130, 8.610
treatment withdrawal:	D'abataman	70		(4.00()	70.0	(4.00()	00.000 (01.0000.000)
due to lack of efficacy – 56d	Dichotomous	76 70		(1.3%)	70 3 70 1	(4.3%)	OR=0.298 (CI: 0.030, 2.932)
unspecified/other reason – 56d protocol deviation – 56d	Dichotomous Dichotomous	76 76		(0.0%) (2.6%)	70 1	(1.4%) (1.4%)	OR=0.303 (CI: 0.012, 7.557) OR=1.865 (CI: 0.165, 21.030
lost to follow-up – 56d	Dichotomous	76 76		(0.0%)	70 1	(1.4%)	OR=1.865 (CI: 0.165, 21.050 OR=0.303 (CI: 0.012, 7.557)
105t to 10110w-up - 30d	Dichotomous	70	U	(0.078)	70 1	(1.470)	ON=0.303 (CI. 0.012, 7.337)

d Total mood disturbance, Least squares mean

Comments

Study	Rossi et al. (2009)

Pain category	Central pain							
Study design	Country: Italy Design: Parallel Inclusion criteria: Patients with MS ar Exclusion criteria: Patients with triger had an MS relapse 0-30 days before Study length (days): 84 Intention-to-treat analysis? No	minal neuralgia or o		-	· ·		-	cams atic or renal disturbances, or who had
Participants	Total number of patients: 20 Number of males: 5 (25.0%) Underlying cause of neuropathic pair Mean duration of NP (in months): 8.2 Baseline pain severity: 69.65 (mm or Mean age: 36.8	25		ans))				
Intervention(s)	(1) Levetiracetam 500mg Intervention: levetiracetam Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed do Set dose: 500mg/d Notes: patients started at 1 tablet twic (2) Placebo Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Fixed do	ce a day during the	first we	ek, gr	adually increasing	to 3 twice	a day in the 4th	n week
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? least 2 weeks prior and did not start a				e. Gabapentin, carl	bamazepii	ne, pregabalin, l	paclofen, amitryptline, duloxetine) at
Outcomes measures and			LEV	ETIRA	CETAM 500MG	PLAC	EBO	
effect sizes			N	k	mean	N k	mean	Δ
	pain score:  VAS – 0d  VAS – 28d <sup>a</sup> VAS – 56d <sup>a</sup> VAS – 84d <sup>a</sup> major adverse events (defined as leading to withdrawal):	Continuous Continuous Continuous Continuous	12 11 11 10		73.7 (SD 20) 58 (SD 23) 41 (SD 10) 35 (SD 13)	8 8 8 8	65.6 (SD 17) 65 (SD 19) 60 (SD 22.5) 55 (SD 21)	MD=-7.000 (CI: -25.923, 11.923) MD=-19.000 (CI: -35.674, -2.326) MD=-20.000 (CI: -36.634, -3.366)
	any major adverse event – 84d adverse events:	Dichotomous	12	2 <sup>b</sup>	(16.7%)	8 0	(0.0%)	OR=4.048 (CI: 0.170, 96.187)
	Dizziness – 84d	Dichotomous	12	1	(8.3%)	8 0	(0.0%)	OR=2.217 (CI: 0.080, 61.403)

	flu Nausea – 84d Somnolence – 84d	Dichotomous Dichotomous Dichotomous	12 12 12	2 1 3	(16.7%) (8.3%) (25.0%)	8 8	3 1	(12.5%)	OR=0.333 (Cl: 0.041, 2.686) OR=0.636 (Cl: 0.034, 11.909) OR=6.263 (Cl: 0.281, 139.631)		
	overall improvement in quality of life: MSQoL-54 overall rating – 0d° MSQoL-54 overall rating – 84d°	Continuous Continuous	12 10	J	32 67.5	8	3	33 37	MD=30.500		
	treatment withdrawal: unspecified/other reason – 84d	Dichotomous	12	2	(16.7%)	8	3 1	(12.5%)	OR=1.400 (CI: 0.105, 18.615)		
	<sup>a</sup> SD estimated from graph; number of patients not reported so estimated <sup>b</sup> due to severe pain or somnolence <sup>c</sup> Estimated from graph; number of patients not reported so estimated										
Comments	single blind study (patients only were blind to treatment allocation); study also reprots proportion of patients achieving at least 20 mm reduction on a 100mm VAS scale (ie. 20% reduction)										

Study	Rowbotham et al. (1998)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Age 18 years and over with pain scores at least 40mm on VAS and at least 4 on average daily pain score with NRS (11 point).  Exclusion criteria: Prior treatment with gabapentin or demonstrated hypersensitivity to the drug or its ingredients, neurolytic or neurosurgical therapy for PHN, immunocompromised state, significant heraptic or renal insufficiency, significant haematological disease, severe pain other than that caused by PHN, the use of experimental drugs or participation in a clinical study within 2 months of screening, a history of illicit drug or alcohol abuse within the last year, any serious or unstable medical or psychological condition.  Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 229 Number of males: 118 (51.5%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): not reported Baseline pain severity: 6.4 (NRS (average of means)) Mean age: not reported
Intervention(s)	(1) Gabapentin up to 3600mg/d Intervention: gabapentin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose Notes: 4 week titration period, 4 week stable dose period; 83.3% received at least 2400 mg/d and 65% received 3600 mg/d (2) Placebo Intervention: placebo

	Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose								
Concomitant treatments	Drug free baseline period? Yes (duration: 14d) Concomitant pain treatment allowed? Yes (Previo							nuscle relaxants, anti-	
	convulsants, mexiletine, topical analgesics and an	ti-viral agents	were d	iscon	tinued 2 weeks be	fore screenii	ng)		
Outcomes measures and effect sizes				APEN MG/D	TIN UP TO	PLACEE	80		
ellect sizes			N k mean N k mean				mean	Δ	
	pain score:								
	NRS/NRS Pain – 0d NRS/NRS Pain – 56d	Continuous Continuous Mean	109 109		6.3 (SD 1.7) 4.2 (SD 2.3)	116 116	6.5 (SD 1.7) 6 (SD 2.4)	MD=-1.800 (CI: -2.414, -1.186)	
	NRS/NRS Pain – 56d SF McGill – 0d	change Continuous Mean	109 104		-2.1 (SD 2.1) 17.2 (SD 9.6)	116 110	-0.5 (SD 1.6) 18.7 (SD 8.5)	MD=-1.600 (CI: -2.090, -1.110)	
	SF McGill – 56d	change	104		-5.8 (SD 8.9)	110	-1.8 (SD 8.9) 16.8 (SD	MD=-4.000 (CI: -6.386, -1.614)	
	SF McGill – 56d patient-reported global improvement:	Continuous	104		11.4 (SD 9.3)	110	10.8)	MD=-5.400 (CI: -8.096, -2.704)	
	PGIC - worse (all grades) – 56d PGIC - no change – 56d	Dichotomous Dichotomous	113 113	3 25	(2.7%) (22.1%)		(59.5%)	OR=0.289 (CI: 0.077, 1.079) OR=0.194 (CI: 0.109, 0.345)	
	PGIC - minimally better – 56d PGIC - at least moderately better – 56d patient-reported improvement in daily physical and emotional	Dichotomous Dichotomous	113 113	19 47	(16.8%) (41.6%)	116 9 116 14	(7.8%) (12.1%)	OR=2.403 (CI: 1.037, 5.567) OR=5.188 (CI: 2.649, 10.163)	
	functioning, including sleep: Normalised (10-pt) sleep interference measure – 0d <sup>a</sup> Normalised (10-pt) sleep interference measure –	Continuous	109		4.3 (SD 2.8)	116	4.1 (SD 2.9)		
	56d <sup>a</sup> Normalised (10-pt) sleep interference measure –	Continuous Mean	109		2.4 (SD 2.5)	116	3.6 (SD 3)		
	56d°	change	109		-1.9 (SD 2.5)	116	-0.5 (SD 1.6) 30.6 (SD		
	POMS – 0d <sup>b</sup>	Continuous Mean	84		31.9 (SD 35.7)	91	36.6)	MD=-12.100 (CI: -19.403, -	
	POMS – 56d <sup>b</sup>	change	84		-15 (SD 27.9)	91	-2.9 (SD 20.5) 27.7 (SD	4.797) MD=-10.800 (CI: -20.533, -	
	POMS – 56d <sup>b</sup>	Continuous	84		16.9 (SD 28.3)	91	37.1)	1.067)	
	NRS Sleep – 0d	Continuous Mean	109		4.3 (SD 2.8)	116	4.1 (SD 2.9)		
	NRS Sleep – 56d NRS Sleep – 56d major adverse events	change Continuous	109 109		-1.9 (SD 2.5) 2.4 (SD 2.5)	116 116	-0.5 (SD 1.6) 3.6 (SD 3)	MD=-1.400 (CI: -1.952, -0.848) MD=-1.200 (CI: -1.920, -0.480)	
	(defined as leading to withdrawal): any major adverse event – 56d	Dichotomous	113	21	(18.6%)	116 14	(12.1%)	OR=1.663 (CI: 0.799, 3.460)	
	adverse events: any adverse event – 56d <sup>c</sup> Dizziness Infection	Dichotomous Dichotomous Dichotomous	113 113 113	62 31 9	(54.9%) (27.4%) (8.0%)	116 32 116 6 116 3	(27.6%) (5.2%) (2.6%)	OR=3.191 (CI: 1.840, 5.534) OR=6.931 (CI: 2.763, 17.387) OR=3.260 (CI: 0.859, 12.368)	

	Peripheral oedema Somnolence	Dichotomous Dichotomous	113 113	11 31	(9.7%) (27.4%)	116 4 116 6	(3.4%) (5.2%)	OR=3.020 (CI: 0.932, 9.782) OR=6.931 (CI: 2.763, 17.387)
	overall improvement in quality of life: SF36 Mental – 0d	Continuous Mean	93		67.9 (SD 20)	101	69.2 (SD 20.2)	
	SF36 Mental – 56d	change	93		6.7 (SD 16.5)	101	0.7 (SD 15.4) 69.9 (SD	MD=6.000 (CI: 1.498, 10.502)
	SF36 Mental – 56d	Continuous	93		74.6 (SD 16.6)	101	20.6) 57.6 (SD	MD=4.700 (CI: -0.546, 9.946)
	SF36 Physical – 0d	Continuous Mean	92		61.7 (SD 24.5)	101	29.3)	
	SF36 Physical – 56d	change	92		4.5 (SD 19.4)	101	-0.1 (SD 19.5)	MD=4.600 (CI: -0.893, 10.093)
	SF36 Physical – 56d treatment withdrawal:	Continuous	92		66.2 (SD 24.4)	101	57.5 (SD 30)	MD=8.700 (CI: 1.013, 16.387)
	due to lack of efficacy – 56d	Dichotomous	113	0	(0.0%)	116 2	(1.7%)	OR=0.202 (CI: 0.010, 4.249)
	unspecified/other reason – 56d	Dichotomous	113	2	(1.8%)	116 3	(2.6%)	OR=0.679 (CI: 0.111, 4.140)
	poor compliance – 56d	Dichotomous	113	1	(0.9%)	116 2	(1.7%)	OR=0.509 (CI: 0.046, 5.692)
	<sup>a</sup> based on NRS Sleep <sup>b</sup> results also available for each component of POMS <sup>c</sup> Any adverse event							
Comments	null							

Study	Rowbotham et al. (2004)
Pain category	Peripheral pain
Study design	Country: USA
	Design: Parallel
	Inclusion criteria: Full diabetic neuropathy (no other peripheral neuropathy) of at least moderate severity for 3 months or longer and metabolically stable (type 1 or type 2 diabetes) with at least 40mm on the VASpi, at least 18 years old
	Exclusion criteria: Presence of clinically significant psychiatric disorders or a history of recent drug or alcohol abuse, major depressive disorder within 6 months of study, BDI score of 13 or more, Raskin Depression Scale score of 9 or more, seizure disorders, clinically significant cardiovascular, renal, or hepatic disease, clinically significant abnormalities in physcial examination results, vital signs, ECG, or lab test results at the start of the study. Additionally, use of investigational drugs or procedures, antipsychotics or electroconvulsive therapy within 30 days of study initiation, antidepressants within 14 days and use of any anxiolytic, sedative-hypnotic, anticonvulsant or any other psychotropic drug or capsaicin product within 7 days of study initiation, patients unable to reduce their analgesic use to a maximum of 1 dose per day by the first day of treatment  Study length (days): 56  Intention-to-treat analysis? Yes
Participants	Total number of patients: 244  Number of males: 145 (59.4%)  Underlying cause of neuropathic pain: Painful diabetic neuropathy
	Mean duration of NP (in months): 21.055555555556
	Baseline pain severity: 68.7 (VASpi (average of arm means))

	Mean age: 59											
Intervention(s)	(1) Venlafaxine extended-release	75mg/d										
` ,	Intervention: venlafaxine											
	Length of treatment (weeks): 6											
	Fixed/flexible dose regimen: Fixed	d dose										
	Set dose: 75mg/d											
	Notes: 37.5 mg/d in week 1, 75 m	g/d in week 2										
	(2) Venlafaxine extended-release	150-225mg/d										
	Intervention: venlafaxine											
	Length of treatment (weeks): 6											
	Fixed/flexible dose regimen: Flexi Range: 150–225	bie dose										
	Notes: 37.5 mg/d in week 1, 75 m	a/d in week 2	then in	creased	to 150 ma/d during wee	≥k3 At	week 4 th	ne cansules were adjust	ed individually accordin			
	to clinical response and tolerance					JK 0. 7 K	, u	io dapodioo woro dajaoi	od marviddany dooordin			
	(3) Placebo			•	•							
	Intervention: placebo											
	Length of treatment (weeks): 6											
	Fixed/flexible dose regimen: Fixed	d dose										
Concomitant	Drug free baseline period? Yes (d	luration: 14d)										
	Drug free baseline period? Yes (d	,	ntinsvcl	hotics a	ntidepressants anticon	vulsant	or any oth	ner psychotropic drug or	cansaicin product were			
	Concomitant pain treatment allow	ed? Yes (No a	ntipsycl (< or =	hotics, a	ntidepressants, anticon or temazepam (< or = 1	vulsant 5 ma) fo	or any oth	ner psychotropic drug or ramadol was prohibited	capsaicin product were			
	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the	ed? Yes (No a se of zolpidem e limit of a sing	(< or = le dose	10 mg) of a sin	or temazepam (< or = 1 gle type of analgesic pe	5 mg) fo	or sleep; t	ramadol was prohibited	but other opioids or oth			
	Concomitant pain treatment allow permitted except for occasional us	ed? Yes (No a se of zolpidem e limit of a sing	(< or = le dose	10 mg) of a sin	or temazepam (< or = 1 gle type of analgesic pe	5 mg) fo	or sleep; t	ramadol was prohibited	but other opioids or oth			
Concomitant treatments  Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the	ed? Yes (No a se of zolpidem e limit of a sing	(< or = gle dose luring b	10 mg) e e of a sin aseline p AFAXINE	or temazepam (< or = 1 gle type of analgesic pe	5 mg) for day (a	or sleep; t also, no m	ramadol was prohibited	but other opioids or oth			
Outcomes	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the	ed? Yes (No a se of zolpidem e limit of a sing	(< or = gle dose luring back	10 mg) e e of a sin aseline p AFAXINE	or temazepam (< or = 1 gle type of analgesic pe period))	5 mg) for day (a	or sleep; talso, no m	ramadol was prohibited ore than 10 doses per v	but other opioids or oth			
Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the normal analgesic were allowed for pain score:	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = ple dose luring by VENLATION N	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean	VENLA 150-22	or sleep; talso, no malso, no malso, no malso, no malso, no malso	ramadol was prohibited ore than 10 doses per very sextended.	but other opioids or oth week of the patient's			
Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the normal analgesic were allowed for	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = yle dose luring b VENL	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EXTENDED-RELEASE	5 mg) for day (a	or sleep; talso, no malso, no malso, no malso, no malso, no malso	ramadol was prohibited ore than 10 doses per v	but other opioids or oth week of the patient's			
Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the normal analgesic were allowed for pain score:  VAS – 0d <sup>a</sup>	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = gle dose luring by VENLA 75MG/N	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9	VENLA 150-22 N	or sleep; talso, no malso, no malso, no malso, no malso, no malso	extended was prohibited ore than 10 doses per vertical transfer of the control of	but other opioids or oth week of the patient's			
Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the normal analgesic were allowed for pain score:	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = ple dose luring by VENLATION N	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean	VENLA 150-22	or sleep; talso, no m	ramadol was prohibited ore than 10 doses per very sextended.	but other opioids or oth week of the patient's			
Outcomes measures and	Concomitant pain treatment allow permitted except for occasional us analgesics were allowed within the normal analgesic were allowed for pain score:  VAS – 0d²  VAS – 42d² VAS – 42db at least 50% pain reduction (VAS)	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = gle dose luring bi	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51	VENLA 150-22 N 82 82 82	or sleep; t also, no m AFAXINE E 25MG/D k	ramadol was prohibited ore than 10 doses per vertical transfer of the control of	but other opioids or oth week of the patient's  - Δ  MD=-11.400  MD=-8.900  OR=0.476 (CI: 0.255,			
Outcomes measures and	pain score: VAS – 42d° VAS – 42d° at least 50% pain reduction (VAS) – 42d°	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = gle dose uring by VENLA 75MG N	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9 22.4	VENLA 150-22 N 82	or sleep; talso, no m	ramadol was prohibited ore than 10 doses per vertical transfer of the control of	but other opioids or oth week of the patient's			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = gle dose luring bi	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51	VENLA 150-22 N 82 82 82	or sleep; t also, no m AFAXINE E 25MG/D k	ramadol was prohibited ore than 10 doses per vertical transfer of the control of	but other opioids or oth week of the patient's  Δ  MD=-11.400 MD=-8.900 OR=0.476 (CI: 0.255, 0.888)			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d	ed? Yes (No a se of zolpidem e limit of a sing r severe pain d	(< or = gle dose luring bi	10 mg) of a sin aseline p  AFAXINE	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51	VENLA 150-22 N 82 82 82	or sleep; t also, no m AFAXINE E 25MG/D k	ramadol was prohibited ore than 10 doses per vertical transfer of the control of	MD=-11.400 MD=-8.900 OR=0.476 (Cl: 0.255, 0.888) OR=0.730 (Cl: 0.242, 2.207)			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events:	ed? Yes (No a se of zolpidem e limit of a sing r severe pain de continuous Mean change Continuous Dichotomous	(< or = gle dose uring by VENLL 75MG/N 81 81 82 82	10 mg) of a sin aseline p  AFAXINE //D  k  31	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51  (37.8%)  (7.3%)	VENLL 150-22 N 82 82 82 82 82	AFAXINE BESMG/D k	ramadol was prohibited ore than 10 doses per vertical forms from the following states of the following	MD=-11.400 MD=-8.900 OR=0.476 (Cl: 0.255, 0.888) OR=0.730 (Cl: 0.242, 2.207) OR=0.863 (Cl: 0.298,			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d	ed? Yes (No a se of zolpidem e limit of a sing r severe pain de continuous Mean change Continuous Dichotomous	(< or = gle dose luring by VENLL 75MG/N 81 81 81 82	10 mg) of a sin aseline p  AFAXINE /D  k	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51  (37.8%)	VENLL 150-22 N 82 82 82 82	AFAXINE BESMG/D	ramadol was prohibited ore than 10 doses per vertical transfer of the control of	MD=-11.400 MD=-8.900 OR=0.476 (Cl: 0.255, 0.888)  OR=0.730 (Cl: 0.242, 2.207) OR=0.863 (Cl: 0.298, 2.502)			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events:	ed? Yes (No a se of zolpidem e limit of a sing r severe pain de continuous Mean change Continuous Dichotomous	(< or = gle dose uring by VENLL 75MG/N 81 81 82 82	10 mg) of a sin aseline p  AFAXINE //D  k  31	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51  (37.8%)  (7.3%)	VENLL 150-22 N 82 82 82 82 82	AFAXINE BESMG/D k	ramadol was prohibited ore than 10 doses per vertical forms from the following states of the following	MD=-11.400 MD=-8.900 OR=0.476 (Cl: 0.255, 0.888) OR=0.730 (Cl: 0.242, 2.207) OR=0.863 (Cl: 0.298,			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: dyspepsia – 42d myalgia	ed? Yes (No a se of zolpidem e limit of a sing r severe pain de se	(< or = ple dose luring by VENLA 75MGa N 81 81 82 82 82 82	and mg) of a single of a single as eline part of a single	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51  (37.8%)  (7.3%)  (8.5%)  (4.9%)	5 mg) for day (a vertex day) From 150-22 N S S S S S S S S S S S S S S S S S S	AFAXINE BESMG/D  k  46  8  8  5	ramadol was prohibited ore than 10 doses per version of the control of the contro	Dut other opioids or oth week of the patient's  Δ  MD=-11.400 MD=-8.900 OR=0.476 (CI: 0.255, 0.888)  OR=0.730 (CI: 0.242, 2.207) OR=0.863 (CI: 0.298, 2.502) OR=0.790 (CI: 0.204, 3.052) OR=2.602 (CI: 1.060,			
Outcomes measures and	pain score: VAS – 42d <sup>a</sup> VAS – 42d <sup>b</sup> at least 50% pain reduction (VAS) – 42d <sup>c</sup> major adverse events (defined as leading to withdrawal): any major adverse event – 42d adverse events: dyspepsia – 42d	ed? Yes (No a se of zolpidem e limit of a sing r severe pain de continuous Mean change Continuous Dichotomous Dichotomous Dichotomous	(< or = gle dose luring by VENLA 75MGA N 81 81 82 82 82	and mg) of a single of a single as eline part of a single	or temazepam (< or = 1 gle type of analgesic period))  EEXTENDED-RELEASE  mean  69.9  22.4 51  (37.8%)  (7.3%)  (8.5%)	VENLA 150-22 N 82 82 82 82 82 82	AFAXINE ESMG/D  k  46	ramadol was prohibited ore than 10 doses per vertical forms of the control of the	Dut other opioids or oth week of the patient's			

Somnolence – 42d	Dichotomous	82	11	(13.4%)	82	12	(14.6%)	OR=0.904 (CI: 0.374, 2.184) OR=1.266 (CI: 0.328,
Vomiting	Dichotomous	82	5	(6.1%)	82	4 <sup>d</sup>	(4.9%)	4.894)
treatment withdrawal: due to lack of efficacy – 42d	Dichotomous	82	2	(2.4%)	82	3	(3.7%)	OR=0.658 (CI: 0.107, 4.047) OR=1.000 (CI: 0.137,
unspecified/other reason – 42d	Dichotomous	82	2	(2.4%)	82	2	(2.4%)	7.274)
withdrawal of consent – 42d	Dichotomous	82	0	(0.0%)	82	1	(1.2%)	OR=0.329 (CI: 0.013, 8.202)
protocol deviation – 42d	Dichotomous	82	1	(1.2%)	82	2	(2.4%)	OR=0.494 (CI: 0.044, 5.555)
lost to follow-up – 42d use of rescue medication:	Dichotomous	82	1	(1.2%)	82	2	(2.4%)	OR=0.494 (CI: 0.044, 5.555) OR=1.167 (CI: 0.622,
proportion taking NSAIDs – 42d <sup>g</sup>	Dichotomous	82	33	(40.2%)	82	30	(36.6%)	2.192)

<sup>&</sup>lt;sup>a</sup> Ns inferred from other outcomes

Ns inferred from other outcomes

Ns inferred from other outcomes; week 6 mean daily ratings
c calculated from percentages
d approximated to nearest integer (percentages only presented in text)
insomnia'; approximated to nearest integer (percentages only presented in text)
Insomnia'; approximated to nearest integer (percentages only presented in text)
Ns inferred from other outcomes; calculated from percentages; approximated to nearest integer (percentages only presented in text)

		VENLA	FAXINE EX	TENDED-RELEASE 75MG/D	PL	ACE	во	
		N	k	mean	N	k	mean	Δ
pain score:								
VAS – 0d <sup>a</sup>	Continuous	81		69.9	80		68.8	
VAS – 42d <sup>a</sup>	Mean change	81		22.4	80		18.7	MD=3.700
VAS – 42d <sup>b</sup>	Continuous	81		51	80		43.6	MD=7.400
at least 50% pain reduction (VAS) – 42d <sup>c</sup>	Dichotomous	82	31	(37.8%)	81	27	(33.3%)	OR=1.216 (CI: 0.639, 2.311)
major adverse events				,			,	,
(defined as leading to withdrawal):								
any major adverse event – 42d	Dichotomous	82	6	(7.3%)	81	3	(3.7%)	OR=2.053 (CI: 0.495, 8.504)
adverse events:								
dyspepsia – 42d	Dichotomous	82	7	(8.5%)	81	1	(1.2%)	OR=7.467 (CI: 0.897, 62.134)
myalgia	Dichotomous	82	4 <sup>d</sup>	(4.9%)	81	0	(0.0%)	OR=9.344 (CI: 0.495, 176.420)
Nausea – 42d	Dichotomous	82	18	(22.0%)	81		(4.9%)	OR=5.414 (CI: 1.744, 16.810)
sleep disturbance	Dichotomous	82	4 <sup>e</sup>	(4.9%)	81	$3^{t}$	(3.7%)	OR=1.333 (CI: 0.289, 6.154)
Somnolence – 42d	Dichotomous	82	11	(13.4%)	81	1	(1.2%)	OR=12.394 (CI: 1.561, 98.411)
Vomiting	Dichotomous	82	5	(6.1%)	81	0	(0.0%)	OR=11.568 (CI: 0.629, 212.711)
treatment withdrawal:								
due to lack of efficacy – 42d	Dichotomous	82	2	(2.4%)	81	5	(6.2%)	OR=0.380 (CI: 0.072, 2.018)
unspecified/other reason – 42d	Dichotomous	82	2	(2.4%)	81	2	(2.5%)	OR=0.988 (CI: 0.136, 7.184)
withdrawal of consent - 42d	Dichotomous	82	0	(0.0%)	81	1	(1.2%)	OR=0.325 (CI: 0.013, 8.102)
protocol deviation – 42d	Dichotomous	82	1	(1.2%)	81	0	(0.0%)	OR=3.000 (CI: 0.120, 74.732)
lost to follow-up – 42d	Dichotomous	82	1	(1.2%)	81	1	(1.2%)	OR=0.988 (CI: 0.061, 16.063)
use of rescue medication:								
proportion taking NSAIDs – 42d	Dichotomous	82	33 <sup>g</sup>	(40.2%)	81	26 <sup>h</sup>	(32.1%)	OR=1.425 (CI: 0.750, 2.708)

<sup>&</sup>lt;sup>h</sup> Ns inferred from other outcomes; calculated from percentages

		VENLA 225MG		ENDED-RELEASE 150-	PL	ACE	во	
		N	k	mean	N	k	mean	Δ
pain score:								
VAS – 0d <sup>a</sup>	Continuous Mean	82		67.3	80		68.8	
VAS – 42d <sup>a</sup>	change	82		33.8	80		18.7	MD=15.100
VAS – $42d^b$ at least 50% pain reduction (VAS) –	Continuous	82		59.9	80		43.6	MD=16.300
42d° major adverse events (defined as leading to withdrawal):	Dichotomous	82	46	(56.1%)	81	27	(33.3%)	OR=2.556 (CI: 1.354, 4.824)
any major adverse event – 42d adverse events:	Dichotomous	82	8	(9.8%)	81	3	(3.7%)	OR=2.811 (CI: 0.718, 11.001)
dyspepsia – 42d	Dichotomous	82	8	(9.8%)	81	1	(1.2%)	OR=8.649 (CI: 1.056, 70.821) OR=11.568 (CI: 0.629,
myalgia	Dichotomous	82	5	(6.1%)	81	0	(0.0%)	212.711)
Nausea – 42d	Dichotomous	82	8	(9.8%)	81		(4.9%)	OR=2.081 (CI: 0.601, 7.205)
sleep disturbance <sup>d</sup>	Dichotomous	82	8	(9.8%)	81	3	(3.7%)	OR=2.811 (CI: 0.718, 11.001) OR=13.714 (CI: 1.739,
Somnolence – 42d	Dichotomous	82	12	(14.6%)	81	1	(1.2%)	108.148)
Vomiting treatment withdrawal:	Dichotomous	82	4 <sup>e</sup>	(4.9%)	81	0	(0.0%)	OR=9.344 (CI: 0.495, 176.420)
due to lack of efficacy - 42d	Dichotomous	82	3	(3.7%)	81	5	(6.2%)	OR=0.577 (CI: 0.133, 2.499)
unspecified/other reason - 42d	Dichotomous	82	2	(2.4%)	81	2	(2.5%)	OR=0.988 (CI: 0.136, 7.184)
withdrawal of consent - 42d	Dichotomous	82	1	(1.2%)	81		(1.2%)	OR=0.988 (CI: 0.061, 16.063)
protocol deviation – 42d	Dichotomous	82	2 2	(2.4%)	81	0	(0.0%)	OR=5.062 (CI: 0.239, 107.096)
lost to follow-up – 42d use of rescue medication:	Dichotomous	82	2	(2.4%)	81	1	(1.2%)	OR=2.000 (CI: 0.178, 22.500)
proportion taking NSAIDs - 42d	Dichotomous	82	30 <sup>f</sup>	(36.6%)	81	26 <sup>g</sup>	(32.1%)	OR=1.220 (CI: 0.639, 2.332)

<sup>&</sup>lt;sup>a</sup> Ns inferred from other outcomes

## Comments

ITT population included all patients randomised who received at least 1 dose of the assigned treatment and had baseline evaluation and at least 1 score during therapy or within 3 days of the last dose (LOCF was used for those that dropped out; however BOCF was performed as well but results were not presented - authors stated that the results supported the LOCF results).

<sup>&</sup>lt;sup>a</sup> Ns inferred from other outcomes

<sup>&</sup>lt;sup>b</sup> Ns inferred from other outcomes; week 6 mean daily ratings

<sup>&</sup>lt;sup>c</sup> calculated from percentages

<sup>&</sup>lt;sup>d</sup> approximated to nearest integer (percentages only presented in text)

insomnia';approximated to nearest integer (percentages only presented in text)

<sup>&#</sup>x27;insomnia'; approximated to nearest integer (percentages only presented in text)

<sup>&</sup>lt;sup>g</sup> Ns inferred from other outcomes; calculated from percentages; approximated to nearest integer (percentages only presented in text)

<sup>&</sup>lt;sup>b</sup> Ns inferred from other outcomes: week 6 mean daily ratings

<sup>&</sup>lt;sup>c</sup> calculated from percentages

d 'insomnia'; approximated to nearest integer (percentages only presented in text)

e approximated to nearest integer (percentages only presented in text)

Ns inferred from other outcomes; calculated from percentages; approximated to nearest integer (percentages only presented in text)

<sup>&</sup>lt;sup>g</sup> Ns inferred from other outcomes; calculated from percentages

Study	Sabatowski et al. (2004)
Pain category	Peripheral pain
Study design	Country: Europe and Australia  Design: Parallel  Inclusion criteria: PHN for more than 6 months aged 18 years and over with pain scores at last 40mm on VAS and at least 4 on average daily pain on NRS (11-point)  Exclusion criteria: Patients with active malignancy, clinically significant respiratory, haematologic, hepatic, or cardiovascular disease. Patients who had failed to respond to prevuious gabapentin doses of >1200mg for PHN, who had undergone neurolytic or neurosurgical therapy for PHN were also excluded. Patients with a creatinine <30mL/min were also excluded.  Study length (days): 56  Intention-to-treat analysis? Yes
Participants	Total number of patients: 238 Number of males: 107 (45.0%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 42.13 Baseline pain severity: 6.8 (NRS (average of means)) Mean age: 72.13
Intervention(s)	(1) Pregabalin 150mg/d Intervention: pregabalin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 150mg/d Notes: 1-week forced titration (2) Pregabalin 300mg/d Intervention: pregabalin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d Notes: 1-week forced titration (3) placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (stable regimes of paracetamol (3g/d), NSAIDs, opioid or non-opioid analgesics, anti-depressants)

patient-reported global improvement:		PREGABALIN 150MG/D PLACEBO				во		
patient-reported global improvement:		N	k	mean	N	k	mean	Δ
PGIC - worse (all grades) – 56d <sup>a</sup>	Dichotomous	81	17	(21.0%)	81	22	(27.2%)	OR=0.712 (CI: 0.345, 1.471)
PGIC - no change – 56d <sup>a</sup>	Dichotomous	81	19	(23.5%)	81	31		OR=0.494 (CI: 0.250, 0.977)
PGIC - minimally better – 56d	Dichotomous	81	20	(24.7%)	_		(21.0%)	OR=1.234 (CI: 0.592, 2.576)
		_						OR=2.841 (CI: 1.287, 6.269)
	Bionotomodo	0.		(00.070)	٥.	• • •	(10.070)	GT(=2.6 T) (GT. 1.26T, G.266)
,								
	Dichotomous	81	a	(11 1%)	81	R	(9.9%)	OR=1.141 (CI: 0.417, 3.121)
, ,	Dictiolofficus	01	9	(11.170)	01	O	(3.376)	ON=1.141 (OI. 0.417, 3.121)
	Dichotomous	01	5	(6.29/.)	Q1	1	(4 00/.)	OR=1.266 (CI: 0.328, 4.897)
								OR=1.000 (CI: 0.326, 4.697) OR=1.000 (CI: 0.241, 4.143)
		_	_	'			` ,	OR=0.810 (CI: 0.329, 1.996)
,		-	-	( ' ' ' '	_			OR=3.250 (CI: 0.846, 12.478)
								OR=3.250 (CI: 0.846, 12.478)
								OR=5.126 (CI: 0.242, 108.454)
	Dichotomous	81	12	(14.8%)	81	6	(7.4%)	OR=2.174 (CI: 0.774, 6.108)
	Continuous	81			81			MD=5.720
treatment withdrawal:								
due to lack of efficacy – 56d	Dichotomous	81	0	(0.0%)	81	7	(8.6%)	OR=0.061 (CI: 0.003, 1.086)
unspecified/other reason – 56d	Dichotomous	81	1	(1.2%)	81	3	(3.7%)	OR=0.325 (CI: 0.033, 3.192)
poor compliance – 56d	Dichotomous	81	0	(0.0%)	81	2	(2.5%)	OR=0.195 (CI: 0.009, 4.128)
· ·				,			,	,
•								
•	Continuous	Ω1		6 0 (SD 1 7)	81		6 6 (SD 1 6)	
The state of the s		-			_			MD=-1.200 (CI: -1.815, -0.585)
		_	21			Q		OR=3.194 (CI: 1.321, 7.723)
			۷ ۱			0		MD=-10.020 (CI: -20.045, 0.00
	Continuous	80		52 (SD 22.9)	60		62 (5D 22.9)	MD=-10.020 (C1: -20.045, 0.00
	O	04		0.40 (CD.4.00)	04		4.04 (CD 4.00)	MD 4 440 (Cl. 4 740 0 540)
NRS Sleep - 560°	Continuous	81		3.13 (SD 1.89)	81		4.24 (SD 1.89)	MD=-1.110 (CI: -1.710, -0.510)
Per Protocol								
pain score:								
NRS/NRS Pain – 0d	Continuous	81		6.9 (SD 1.7)	81		6.6 (SD 1.6)	
NRS/NRS Pain – 56d <sup>c</sup>	Continuous	67		5.1 (SD 1.96)	73			MD=-1.210 (CI: -1.875, -0.545)
	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d adverse events: asthenia Diarrhoea Dizziness – 56d Dry mouth headache Peripheral oedema – 56d Somnolence – 56d overall improvement in quality of life: SF36 Mental – 56d treatment withdrawal: due to lack of efficacy – 56d unspecified/other reason – 56d poor compliance – 56d ITT/LOCF (last-observation carried forward) pain score: NRS/NRS Pain – 0d NRS/NRS Pain – 56db at least 50% pain reduction (NRS) – 56d McGill VAS – 56db patient-reported improvement in daily physical and emotional functioning, including sleep: NRS Sleep – 56db Per Protocol pain score:	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d adverse events: asthenia Diarrhoea Dizziness – 56d Dichotomous Dizziness – 56d Dichotomous Dizziness – 56d Dichotomous Dizziness – 56d Dichotomous Dizzinesa – 56d Dichotomous Dichotomous Dizhotomous Dichotomous Continuous Continuous At least 50% pain reduction (NRS) – 56d McGill VAS – 56db Dichotomous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous Continuous Dichotomous Continuous Dichotomous Continuous Continuous Dichotomous D	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal):     any major adverse event – 56d     adverse events:     asthenia     Dichotomous     Dichotomous     B1     Diarrhoea     Dichotomous     Dichotomous     B1     Diarrhoea     Dichotomous     Dichotomous     B1     Diarrhoea     Dichotomous     Dichotomous     B1     Direntomous     B1     Dichotomous     B1     Dichotomous     B1     Dichotomous     B1     Dichotomous     B1     Dichotomous     B1     Dichotomous     B1     Oichotomous     Oicho	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d adverse events: asthenia Diarrhoea Dichotomous Dichotomous B1 5 Diarrhoea Dichotomous Dichotomous B1 4 Dizziness – 56d Dichotomous B1 9 Dichotomous B1 4 Dizziness – 56d Dichotomous B1 9 Dichotomous B1 12 Dichotomous B1 10 Dichotomous B1 12 Dichotomous B1 12 Dichotomous B1 10 Dichotomous B1	PGIC - at least moderately better – 56d         Dichotomous         81         25         (30.9%)           major adverse events         (defined as leading to withdrawal): any major adverse event – 56d         Dichotomous         81         9         (11.1%)           adverse events: asthenia         Dichotomous         81         5         (6.2%)           Diarrhoea         Dichotomous         81         4         (4.9%)           Dizziness – 56d         Dichotomous         81         9         (11.1%)           Dry mouth         Dichotomous         81         9         (11.1%)           headache         Dichotomous         81         9         (11.1%)           Peripheral oedema – 56d         Dichotomous         81         9         (11.1%)           Overall improvement in quality of life:         SF36 Mental – 56d         Dichotomous         81         12         (14.8%)           Overall improvement in quality of life:         SF36 Mental – 56d         Continuous         81         1         (1.2%)           overall improvement in quality of life:         SF36 Mental – 56d         Dichotomous         81         0         (0.0%)           ITIVICOF (last-observation carried forward)         Pain score:         ST         6.9 (SD 1.7)	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d Dichotomous 81 9 (11.1%) 81 adverse events: asthenia Dichotomous 81 5 (6.2%) 81 Diarrhoea Dichotomous 81 4 (4.9%) 81 Dizriness – 56d Dichotomous 81 4 (4.9%) 81 Dizriness – 56d Dichotomous 81 9 (11.1%) 81 headache Dichotomous 81 9 (11.1%) 81 headache Dichotomous 81 9 (11.1%) 81 Peripheral oedema – 56d Dichotomous 81 9 (11.1%) 81 NS SPain – 56d Dichotomous 81 9 (11.1%) 81 Dichotomous 81 9 (11.1%) 81 Peripheral oedema – 56d Dichotomous 81 9 (11.1%) 81 Peripheral oedema – 56d Dichotomous 81 9 (11.1%) 81 Peripheral oedema – 56d Dichotomous 81 9 (11.1%) 81 Peripheral oedema – 56d Dichotomous 81 12 (14.8%) 81 Overall improvement in quality of life: SF36 Mental – 56d Dichotomous 81 10 (14.8%) 81 Peripheral oedema – 56d Dichotomous 81 10 (14.8%) 81 Peripheral oedema – 56d Dichotomous 81 10 (0.0%) 81 Peripheral oedema – 56d Dichotomous 81 10 (0.0%) 81 Peripheral oedema – 56d Dichotomous 81 11 (1.2%) 81 NRS/NRS Pain – 0d Continuous 81 11 (1.2%) 81 NRS/NRS Pain – 56d Dichotomous 81 11 (1.2%) 81 NRS/NRS Pain – 56d Dichotomous 81 11 (1.2%) 81 NRS/NRS Pain – 56d Dichotomous 81 5.14 (SD 1.98) 81 at least 50% pain reduction (NRS) – 56d Dichotomous 81 5.14 (SD 1.98) 81 at least 50% pain reduction (NRS) – 56d Dichotomous 81 52 (SD 22.9) 80 patient-reported improvement in daily physical and emotional functioning, including sleep: NRS Sleep – 56d <sup>b</sup> Continuous 81 3.13 (SD 1.89) 81 Per Protocol pain score: NRS/NRS Pain – 0d Continuous 81 6.9 (SD 1.7) 81 NRS/NRS Pain – 0d	PGIC - at least moderately better – 56d	PGIC - at least moderately better – 56d major adverse events (defined as leading to withdrawal):     any major adverse event – 56d

PGIC - minimally better – 56d	Dichotomous	76 1	17	(22.4%)	81 ′	7 (21.0%)	OR=1.085 (CI: 0.507, 2.319)
PGIC - at least moderately better – 56d	Dichotomous	76 2		(38.2%)		1 (13.6%)	OR=3.926 (CI: 1.789, 8.620)
major adverse events	Dioriotomodo	70 2	_0	(00.270)	01	(10.070)	ON-0.020 (OI. 1.700, 0.020)
(defined as leading to withdrawal):							
any major adverse event – 56d	Dichotomous	76 1	12	(15.8%)	81 8	(9.9%)	OR=1.711 (CI: 0.658, 4.448)
adverse events:	Dichotomous	70 1	12	(13.070)	01 (	(3.370)	OR=1.711 (OI. 0.030, 4.440)
asthenia	Dichotomous	76 2	,	(2.6%)	81 4	(4.9%)	OR=0.520 (CI: 0.093, 2.926)
Diarrhoea	Dichotomous	76 4		(5.3%)	81 4	` '	OR=1.069 (CI: 0.258, 4.436)
Dizziness – 56d	Dichotomous	76 2		(27.6%)	81		OR=2.195 (CI: 0.994, 4.851)
Dry mouth	Dichotomous	76 5		(6.6%)	81 3		OR=1.831 (Cl: 0.422, 7.940)
headache	Dichotomous	76 8		(10.5%)	81 3		OR=3.059 (CI: 0.780, 11.991)
Peripheral oedema – 56d	Dichotomous			(13.2%)	81 (		OR=25.737 (CI: 1.481, 447.370)
Somnolence – 56d	Dichotomous			(23.7%)	81 6		OR=3.879 (CI: 1.448, 10.393)
overall improvement in quality of life:	DICHOLOHIOUS	/ U	10	(23.1 /0)	01 (	(1.4/0)	ON-3.079 (OI. 1.440, 10.393)
SF36 Mental – 56d	Continuous	76			81		MD=6.050
treatment withdrawal:	Continuous	70			01		WID=0.030
due to lack of efficacy – 56d	Dichotomous	76 1	1	(1.3%)	81	(8.6%)	OR=0.141 (CI: 0.017, 1.174)
	Dichotomous	76 2			81 3		
unspecified/other reason – 56d poor compliance – 56d	Dichotomous	76 2		(2.6%)			OR=0.703 (CI: 0.114, 4.325)
poor compliance – 560	Dicnotomous	76 1	I	(1.3%)	81 2	(2.5%)	OR=0.527 (CI: 0.047, 5.930)
ITT/LOCF (last-observation carried forward)							
pain score:							
NRS/NRS Pain – 0d	Continuous	76		7 (SD 1.6)	81	6.6 (SD 1.6)	
NRS/NRS Pain – 56d <sup>b</sup>	Continuous	76		4.76 (SD 2.01)	81	6.33 (SD 1.98)	MD=-1.570 (CI: -2.195, -0.945)
at least 50% pain reduction (NRS) – 56d	Dichotomous		21	(27.6%)	81 8		OR=3.484 (CI: 1.436, 8.453)
McGill VAS – 56d <sup>b</sup>	Continuous	76		48.4 (SD 22.9)	80	62 (SD 22.9)	MD=-13.640 (CI: -20.875, -6.405)
patient-reported improvement in				- ( /		- ( /	, , , , , , , , , , , , , , , , , , , ,
daily physical and emotional							
functioning, including sleep:							
NRS Sleep – 56d <sup>b</sup>	Continuous	76		2.18 (SD 1.92)	81	4.24 (SD 1.89)	MD=-1.430 (CI: -2.040, -0.820)
· ·				» (== ···= <u>=</u> )		: (== ::00)	(,,
Per Protocol							
pain score:	<b>0</b>			- (OD ( A)		0.0 (0.0 4.0)	
NRS/NRS Pain – 0d	Continuous	76		7 (SD 1.6)	81	6.6 (SD 1.6)	MB 4 252 (0) 2 222 2 255
NRS/NRS Pain – 56d <sup>c</sup>	Continuous	65		4.66 (SD 2.02)	73	6.31 (SD 1.97)	MD=-1.650 (CI: -2.320, -0.980)
a approximated to nearest integer (percentages of	inly presented in text)						
b Least Squares Mean	any prosonica in text)						
<sup>c</sup> Least squares mean							
Loast squares mean							

Study	Satoh et al. (2011)
Pain category	Peripheral pain
Study design	Country: Japan Design: Parallel Inclusion criteria: Over 18 years of age diagnosed with type 1 or type 2 diabetes at least one year previously and diagnosed with painful distal, symmetrical, sensorimotor polyneuropathy due to diabetes, had a score of >40mm on the VAS of the short form McGill Pain questionnaire and evaluated and recorded pain for at least 4 of the previous 7 days in the daily pain diary prior to treatment, with the mean score being >4 on the 11 point (0-10)

	numeric rating scale								
	Exclusion criteria: Patients with a malignal		e past 2	years,	, creatine clea	rance les	ss tha	n 30mL/min, an	d those who had pain or other sk
	conditions that may affect evaluation of pa	iin							
	Study length (days): 98								
	Intention-to-treat analysis? Yes								
Participants	Total number of patients: 317								
	Number of males: 240 (75.7%)								
	Underlying cause of neuropathic pain: Pai	nful diabetic neuro	pathy						
	Mean duration of NP (in months): 52								
	Baseline pain severity: 6 (NRS (average o	f means))							
	Mean age: 61.6								
Intervention(s)	(1) Pregabalin 300mg/d								
	Intervention: pregabalin								
	Length of treatment (weeks): 14 Fixed/flexible dose regimen: Fixed dose								
	Set dose: 300mg/d								
	Notes: 1 week titration, starting from 75 m	g 2x daily							
	(2) Pregabalin 600mg/d								
	Intervention: pregabalin								
	Length of treatment (weeks): 14 Fixed/flexible dose regimen: Fixed dose								
	Set dose: 600mg/d								
	Notes: 1 week titration, starting from 75 m	g 2x daily							
	(3) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose								
Concomitant treatments	Drug free baseline period? No	l							
	Concomitant pain treatment allowed? Unc	lear							
Outcomes			PREG	ABALI	N 300MG/D	PRE	GABA	LIN 600MG/D	
measures and effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	at least 50% pain reduction (NRS) – 98d	Dichotomous	136	39	(29.1%)	45	16	(35.6%)	OR=0.729 (CI: 0.357, 1.489)
	at least 50% pain reduction (NRS) – 98d major adverse events	Dichotomous	134	39	(29.1%)	45	16	(35.6%)	OR=0.729 (CI: 0.357, 1.489)
	(defined as leading to withdrawal):								
	any major adverse event – 98d	Dichotomous	134	10	(7.5%)	45 45	12	(26.7%)	OR=0.218 (CI: 0.087, 0.549)
	any major adverse event – 98d	Dichotomous	136	10	(7.5%)	45	12	(26.7%)	OR=0.218 (CI: 0.087, 0.549)

adverse events:	Dishatamana	404	4	(0.00/)	4.5	_	(4.40/)	OD 0 050 (OL 0 445 0 00)
Constitution – 98d	Dichotomous	134	4	(3.0%)	45	2	(4.4%)	OR=0.652 (CI: 0.115, 3.682
Constipation – 98d	Dichotomous	136	4	(3.0%)	45	2	(4.4%)	OR=0.652 (CI: 0.115, 3.682
Dizziness – 98d	Dichotomous	136	26	(19.4%)	45	17	(37.8%)	OR=0.389 (CI: 0.186, 0.815
Dizziness – 98d	Dichotomous	134	26	(19.4%)	45	17	(37.8%)	OR=0.389 (CI: 0.186, 0.815
Peripheral oedema – 98d	Dichotomous	136	17	(12.7%)	45	6	(13.3%)	OR=0.929 (CI: 0.342, 2.520
Peripheral oedema – 98d	Dichotomous	134	17	(12.7%)	45	6	(13.3%)	OR=0.929 (CI: 0.342, 2.520
Somnolence – 98d	Dichotomous	134	28	(20.9%)	45	18	(40.0%)	OR=0.389 (CI: 0.188, 0.805
Somnolence – 98d	Dichotomous	136	28	(20.9%)	45	18	(40.0%)	OR=0.389 (CI: 0.188, 0.805
Weight gain – 98d	Dichotomous	134	15	(11.2%)	45	5	(11.1%)	OR=0.992 (CI: 0.339, 2.901
Weight gain – 98d	Dichotomous	136	15	(11.2%)	45	5	(11.1%)	OR=0.992 (CI: 0.339, 2.901
treatment withdrawal:								
unspecified/other reason – 98d	Dichotomous	136	10	(7.5%)	45	1	(2.2%)	OR=3.492 (CI: 0.434, 28.06
unspecified/other reason – 98d	Dichotomous	134	10	(7.5%)	45	1	(2.2%)	OR=3.492 (CI: 0.434, 28.06
		PRE	GABA	LIN 300MG/D	P	LACE	во	_
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 98d	Continuous	136			1;	36		MD=-0.630 (CI: -1.090, -0.170
at least 50% pain reduction (NRS) - 98d	Dichotomous	134	39	9 (29.1%)	1;	35 2	9 (21.5%)	OR=1.483 (CI: 0.853, 2.580)
at least 50% pain reduction (NRS) - 98d	Dichotomous	136	39	9 (29.1%)	1;	36 2		OR=1.483 (CI: 0.853, 2.580)
major adverse events				,			,	, ,
(defined as leading to withdrawal):								
any major adverse event – 98d	Dichotomous	134	10	(7.5%)	1:	35 6	(4.4%)	OR=1.720 (CI: 0.607, 4.872)
any major adverse event – 98d	Dichotomous	136	10	` ,		36 6		OR=1.720 (CI: 0.607, 4.872)
adverse events:	Dionotomodo	100		(1.070)	.,		(1.170)	G1(=1.726 (G1. 6.667; 1.672)
Constipation – 98d	Dichotomous	134	4	(3.0%)	11	35 1	(0.7%)	OR=4.091 (CI: 0.451, 37.083)
Constipation – 98d	Dichotomous	136	4	` ,		36 1		OR=4.091 (CI: 0.451, 37.083)
Dizziness – 98d	Dichotomous	136	26	( )		36 9		OR=3.335 (CI: 1.499, 7.422)
Dizziness – 98d	Dichotomous	134	26			35 9		OR=3.335 (CI: 1.499, 7.422)
Peripheral oedema – 98d	Dichotomous	136	17			36 6	` ,	OR=3.095 (CI: 1.181, 8.111)
Peripheral oedema – 98d	Dichotomous	136	17			35 6		OR=3.095 (CI: 1.181, 8.111) OR=3.095 (CI: 1.181, 8.111)
		_						
Somnolence – 98d	Dichotomous	134	28	,		35 1	( )	OR=2.946 (CI: 1.401, 6.196)
Somnolence – 98d	Dichotomous	136	28			36 1		OR=2.946 (CI: 1.401, 6.196)
Weight gain – 98d	Dichotomous	134	15			35 3		OR=5.496 (CI: 1.553, 19.449)
Weight gain – 98d	Dichotomous	136	15	5 (11.2%)	1.	36 3	(2.2%)	OR=5.496 (CI: 1.553, 19.449)
treatment withdrawal:	Dist. 1	400	, .	. (7.50()			(0.63/)	OD 0.540 (01.0.047.40.000)
unspecified/other reason – 98d	Dichotomous	136	10	( )		36 3		OR=3.519 (CI: 0.947, 13.080)
unspecified/other reason – 98d	Dichotomous	134	10	) (7.5%)	1;	35 3	(2.2%)	OR=3.519 (CI: 0.947, 13.080)
		DDE	GARA	LIN 600MG/D	В	LACE	BO	
		PRE		LIN BUUIVIG/D				-
		N	k	mean	N	k	mean	Δ
pain score:	Continuous		k	mean			mean	
pain score:  NRS/NRS Pain – 98d  at least 50% pain reduction (NRS) – 98d	Continuous Dichotomous	N 45 45	16	(35.6%)	1;	36 35 2		MD=-0.740 (CI: -1.390, -0.090) OR=2.036 (CI: 0.976, 4.247)

(defined as leading to withdrawal): any major adverse event – 98d	Dichotomous	45	12	(26.7%)	135	6	(4.4%)	OR=7.879 (CI: 2.752, 22.556)
any major adverse event – 98d	Dichotomous	45	12	(26.7%)	136	6	(4.4%)	OR=7.879 (CI: 2.752, 22.556)
adverse events:				(/			(,	, , , , , , , , , , , , , , , , , , , ,
Constipation – 98d	Dichotomous	45	2	(4.4%)	135	1	(0.7%)	OR=6.279 (CI: 0.556, 70.958)
Constipation – 98d	Dichotomous	45	2	(4.4%)	136	1	(0.7%)	OR=6.279 (CI: 0.556, 70.958)
Dizziness – 98d	Dichotomous	45	17	(37.8%)	136	9	(6.7%)	OR=8.567 (CI: 3.464, 21.192)
Dizziness – 98d	Dichotomous	45	17	(37.8%)	135	9	(6.7%)	OR=8.567 (CI: 3.464, 21.192)
Peripheral oedema – 98d	Dichotomous	45	6	(13.3%)	136	6	(4.4%)	OR=3.333 (CI: 1.017, 10.922)
Peripheral oedema – 98d	Dichotomous	45	6	(13.3%)	135	6	(4.4%)	OR=3.333 (CI: 1.017, 10.922)
Somnolence – 98d	Dichotomous	45	18	(40.0%)	135	11	(8.1%)	OR=7.576 (CI: 3.213, 17.862)
Somnolence – 98d	Dichotomous	45	18	(40.0%)	136	11	(8.1%)	OR=7.576 (CI: 3.213, 17.862)
Weight gain – 98d	Dichotomous	45	5	(11.1%)	135	3	(2.2%)	OR=5.542 (CI: 1.269, 24.207)
Weight gain – 98d	Dichotomous	45	5	(11.1%)	136	3	(2.2%)	OR=5.542 (CI: 1.269, 24.207)
treatment withdrawal:								
unspecified/other reason – 98d	Dichotomous	45	1	(2.2%)	136	3	(2.2%)	OR=1.008 (CI: 0.102, 9.937)
unspecified/other reason – 98d	Dichotomous	45	1	(2.2%)	135	3	(2.2%)	OR=1.008 (CI: 0.102, 9.937)

Study	Scheffler et al. (1991)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Participants with PDN who were unresponsive or intolerant to conventional therapy, with at least moderate to severe pain, aged 18 to 95 years old. Exclusion criteria: uncontrolled diabetes, another skin condition in the area affected Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 54 Number of males: 19 (35.2%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 42 Baseline pain severity: 74.8 (VAS (average of means)) Mean age: 60.7
Intervention(s)	(1) 0.075% capsaicin applied to site 4 times per day Intervention: capsaicin cream Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose

	(2) Placebo Intervention: placebo Length of treatment (weeks Fixed/flexible dose regimen												
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (oral analgesics that were currently being taken (if not expected to change during study))												
Outcomes measures and				% CAPS S PER D	SAICIN APPLIED TO SITE 4 DAY	PI	_ACI	EBO					
effect sizes			N	k	mean	N	k	mean	Δ				
	pain score: VAS – 0d	Continuous Percentage change from	28		76.8 (SD 16.1)	26	6	72.8 (SD 22.3) -19.5 (SD	MD=-13.600 (CI: -33.403,				
	VAS – 28d	baseline Percentage change from	28		-33.1 (SD 34.6)	26	6	39.3) -16.5 (SD	6.203) MD=-32.600 (CI: -58.612				
	VAS – 56d pain relief:	baseline	28		-49.1 (SD 48.1)	26	6	49.3) 38.6 (SD	6.588) MD=27.100 (CI: 6.558,				
	VAS/VASpr – 56d major adverse events (defined as leading to withdrawal):	Continuous	28		65.7 (SD 42.1)	26	<b>;</b>	34.8)	47.642)				
	any major adverse event – 56d	Dichotomous	28	3	(10.7%)	26	0	(0.0%)	OR=7.275 (CI: 0.358, 147.973)				
	adverse events:  Burning pain – 56d  treatment withdrawal:	Dichotomous	28	17	(60.7%)	26	5	(19.2%)	OR=6.491 (CI: 1.887, 22.329)				
	unspecified/other reason – 56d	Dichotomous	28	3	(10.7%)	26	6 1 <sup>a</sup>	(3.8%)	OR=3.000 (CI: 0.292, 30.836) OR=0.298 (CI: 0.012, 7.653) OR=3.000 (CI: 0.292,				
	protocol deviation – 56d	Dichotomous	28	0	(0.0%)	26	5 1	(3.8%)					
	poor compliance – 56d	Dichotomous	28	3	(10.7%)	26	5 1	(3.8%)	30.836)				
	a death related to underlying d	isease											
Comments	use of new oral anlgesics, a	anti-inflammatory drugs, or	central n	ervous	system-acting drugs were not	permitt	ed o	during the stu	dy				

Study	Selvarajah et al. (2010)
Pain category	Peripheral pain
Study design	Country: UK  Design: Parallel  Inclusion criteria: neuropathay total symptom score 6 > 4 and < 16 for at least 6 months with stable glycaemic control, with persistent pain, despite adequate trial of tricyclic antidepressants

	Exclusion criteria: none reported						
	Study length (days): 84						
	Intention-to-treat analysis? Yes						
Participants	Total number of patients: 30						
·	Number of males: 19 (63.3%)						
	Underlying cause of neuropathic pain: Pair	oful diabatia nauran	othy				
		•	alliy				
	Mean duration of NP (in months): not report						
	Baseline pain severity: 65.35 (100mm VAS	(averaged from bo	oth arm	s))			
	Mean age: 56.3						
Intervention(s)	(1) Sativex						
intervention(s)							
	Intervention: cannabis sativa extract						
	Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose						
	Mean dose: 0.7mg/d (SD: 0.38)						
	Notes: up to 4 dosages per day; study med	lication amount: 0.7	7 ml +/-	0.38			
		iloation amount. 0.7	,	0.00			
	(2) Placebo						
	Intervention: placebo						
	Length of treatment (weeks): 12						
	Fixed/flexible dose regimen: Flexible dose Notes: up to 4 dosages per day; study med	ligation amounts 0 =	72 1	/ 0.20			
	Notes. up to 4 dosages per day, study med	ilcation amount. 0.7	73 1111 +	7- 0.30			
Concomitant	Drug free baseline period? No						
treatments	Concomitant pain treatment allowed? Yes	(any pre-existing ne	europa	thic pain treatment (	including	tricyclics))	
Outcomes			SAT	TIVEX	PLAC	EBO	
measures and effect sizes			N	k mean	N k	mean	Δ
	pain score:						
	VAS – 0d	Continuous	15	55.8 (SD 26.7)	15	44.9 (SD 21.5)	
	VAS – 84d	Continuous	15	40.1 (SD 28.5)	15	25.2 (SD 28.8)	MD=14.900 (CI: -5.604, 35.404)
	at least 30% pain reduction (VAS) – 84d	Dichotomous	15	8 (53.3%)	15 9	(60.0%)	OR=0.762 (CI: 0.179, 3.241)
	McGill VAS – 0d	Continuous	15	7.6 (SD 1.8)	15	6.9 (SD 1.7)	MD 4 000 (OL 0 404 0 004)
	McGill VAS – 84d NPS – 0d	Continuous Continuous	15 15	5.1 (SD 2.2) 67.1 (SD 19.4)	15 15	3.8 (SD 2.6) 63.6 (SD 14)	MD=1.300 (CI: -0.424, 3.024)
	NPS – 00 NPS – 84d	Continuous	15	51.6 (SD 21.9)	15 15	51.9 (SD 24.1)	MD=-0.300 (CI: -16.779, 16.179)
	PPI (from MPQ) – 0d	Continuous	15	2.5 (SD 1.1)	15	2 (SD 1)	5.555 (5 1515, 1515)
	PPI (from MPQ) – 84d	Continuous	15	2.1 (SD 1.1)	15	1.4 (SD 1.7)	MD=0.700 (CI: -0.325, 1.725)
	overall improvement in quality of life:	0 "		F7 0 (05 00 0)	4-	F7 4 (OF 10 0)	
	SF36 Mental – 0d SF36 Mental – 84d	Continuous Continuous	15 15	57.9 (SD 22.6)	15 15	57.1 (SD 19.9)	MD=5.000 (CI: -9.636, 19.636)
	SF36 Mental – 84d SF36 Physical – 0d	Continuous	15 15	64.4 (SD 20.3) 26.9 (SD 15.1)	15 15	59.4 (SD 20.6) 30.8 (SD 22.7)	IVID=5.000 (CI9.636, 19.636)
	SF36 Physical – 84d	Continuous	15	30.5 (SD 15.1)	15	36.5 (SD 27.9)	MD=-6.000 (CI: -22.429, 10.429)
	EQ-5D - health status index – 0d	Continuous	15	0.4 (SD 0.21)	15	0.43 (SD 0.21)	· · · · · · · · · · · · · · · · · ·
	EQ-5D - health status index – 84d	Continuous	15	0.54 (SD 0.22)	15	0.6 (SD 0.2)	MD=-0.060 (CI: -0.210, 0.090)

	EQ-5D - health status VAS – 0d EQ-5D - health status VAS – 84d	Continuous Continuous	15 15	46 (SD 20.4) 58.1 (SD 20.5)	15 15	44.6 (SD 21.8) 56.4 (SD 11.7)	MD=1.700 (CI: -10.245, 13.645)
	SF36 role physical – 0d	Continuous	15	8.9 (SD 27.1)	15	12.5 (SD 23.5)	
	SF36 role physical – 84d	Continuous	15	12.5 (SD 32.1)	15	39.3 (SD 47.7)	MD=-26.800 (CI: -55.896, 2.296)
	SF36 social functioning – 0d	Continuous	15	50.8 (SD 32.5)	15	48.4 (SD 24.9)	MB= 20.000 (Oi. 00.000, 2.200)
	SF36 social functioning – 84d	Continuous	15	55.4 (SD 25.3)	15	67 (SD 27.6)	MD=-11.600 (CI: -30.548, 7.348)
	SF36 bodily pain – 0d	Continuous	15	22.4 (SD 15.5)	15	25.7 (SD 11.3)	WD= 11.000 (OI. 00.040, 1.040)
	SF36 bodily pain – 84d	Continuous	15	35.6 (SD 16.6)	15	41.2 (SD 24.6)	MD=-5.600 (CI: -20.618, 9.418)
	SF36 general health – 0d	Continuous	15	33.5 (SD 18.7)	15	28.4 (SD 20.8)	MD=-3.000 (Cl20.010, 9.410)
	SF36 general health – 84d	Continuous	15	34.1 (SD 18.2)	15	29.6 (SD 19.5)	MD=4.500 (CI: -8.999, 17.999)
	SF36 vitality – 0d	Continuous	15	28.3 (SD 23.2)	15	30.8 (SD 19.2)	MD=4.500 (Ci0.999, 17.999)
	SF36 vitality – 0d SF36 vitality – 84d	Continuous	15	33.9 (SD 23.2)	15	39.6 (SD 19.4)	MD=-5.700 (CI: -20.696, 9.296)
	SF36 role emotional – 0d	Continuous	15	,	15	` '	MD=-3.700 (Cl20.696, 9.296)
				38.1 (SD 41.1)	15	33.3 (SD 40.8)	MD 7 000 (OL 00 704 44 404)
	SF36 role emotional – 84d	Continuous	15	54.8 (SD 46.4)	15	47.6 (SD 48.4)	MD=7.200 (CI: -26.731, 41.131)
	With depression (HADS-D score ≥10)						
	pain score:						
	VAS – Od <sup>a</sup>	Continuous		62.3 (SD 22.1)		62.3 (SD 22.1)	
	VAS – 84d	Mean change		-36.7 (SD 28.6)		-26.5 (SD 20.7)	MD=-10.200
	VAS – 84d	Continuous		25.6		35.8	MD=-10.200
		001111111111111111111111111111111111111		_0.0		00.0	2
	Without depression (HADS-D score <10)						
	pain score:						
	$VAS - 0d^b$	Continuous		43.4 (SD 24.3)		43.4 (SD 24.3)	
	VAS – 84d	Continuous		38.5		26.1	MD=12.400
	VAS – 84d	Mean change		-4.9 (SD 14.4)		-17.3 (SD 33.1)	MD=12.400
	a average across all 10 patients with depression						
	<sup>b</sup> average across all 18 patients without depressi	on					
Comments	Use of Sativex as adjunct therapy; 1 placeb events but it wasn't clear which arm these p of the article (which is a 'brief report') states	atients were in or	what ad	verse events occur	red; cor	ncurrent trycylics us	ed and dosages not reported; bottom
	must be marked 'advertisement'; further and depressed or not depression (of the overall	alysis done for pati	ents wit	h and without depre	ession b	ut it was not clear h	now many patients in each arm were
	on HADS-D was incomplete)						

Study	Shaibani et al. (2009)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: =18 years with type1 or type 2 diabetes, symptoms for 6 months to 5 years (=4 on NRS for 7 days prior to randomisation), HbA1C < 12% for at least 3 months  Exclusion criteria: other conditions contributing to chronic pain, MI or clinically relevant cardiac dysfunction in last year, chronic alcohol or drug abuse in last year or any drug use that might interfere with trial results, skin ulcers, amputation related to diabetes (other than toe), pregnancy or nursing, less than 2 years postmenopausal  Study length (days): 140

	Intention-to-treat analysis? Yes							
Participants	Total number of patients: 468 Number of males: 265 (56.6%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 24 Baseline pain severity: 6.3 (NRS (average of arm means)) Mean age: 59.8 (SD: 10)							
Intervention(s)								
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Yes (small proportion also had concomitant tricyclic anti-depressants though the changes in pain scores were said to be similar (though anti-convulsants, muscle relaxants, mexiletine, topical analgesics, opioids, or any therapy for neuropathic pain within 7 days of randomisation or during trial not permitted); paracetamol 2 g/day allowed as rescue analgesics)							
Outcomes measures and effect sizes		LACOSAMIDE 600		PLACEBO				
		N	k	mean	N	k	mean	Δ
	pain score:  NRS/NRS Pain – 0d  Continuous  Mean difference from baseline to average  NRS/NRS Pain – 63d <sup>a</sup> f-u	137 131		6.3 (SD 1.4) -1.85	64 64		6.2 (SD 1.6) -1.27	MD=-0.570 (CI: -1.099, - 0.041)

Mean difference from base	ne to average MD=-0.930 (CI: -1.596, -
NRS/NRS Pain – 84d <sup>b</sup> f-u	76 -2.81 52 -1.88 0.264)
Mean difference from base	
NRS/NRS Pain – 112d <sup>c</sup> f-u	131 -2.23 64 -1.67 0.048)
at least 30% pain reduction (NRS) –	
126d <sup>d</sup> Dichotomous from baseline	to average f-u 131 76 65 29 OR=1.668 (CI: 0.913, 3.045)
at least 30% pain reduction (NRS) – 126d <sup>d</sup> Dichotomous from baseline	to everyone for 124.76 64.20 OR 1.669 (Ch. 0.012.2.045)
126d <sup>a</sup> Dichotomous from baseline at least 50% pain reduction (NRS) –	to average f-u 131 76 64 29 OR=1.668 (CI: 0.913, 3.045)
126d <sup>d</sup> Dichotomous from baseline	to average f-u 131 39 64 17 OR=1.172 (CI: 0.600, 2.289)
at least 50% pain reduction (NRS) –	(o. 0.000)
126d <sup>d</sup> Dichotomous from baseline	to average f-u 131 39 65 17 OR=1.172 (CI: 0.600, 2.289)
patient-reported global improvement:	
PGIC - worse (all grades) – 126d Dichotomous	137 6 (4.4%) 65 3 (4.6%) OR=0.947 (CI: 0.229, 3.910)
PGIC - no change – 126d Dichotomous	137 9 (6.6%) 65 12 (18.5%) OR=0.311 (CI: 0.124, 0.781)
PGIC - minimally or moderately better –	407 00 (40 00))
126d Dichotomous PGIC - much better – 126d Dichotomous	137 26 (19.0%) 65 30 (46.2%) OR=0.273 (Cl: 0.143, 0.523) 137 29 (21.2%) 65 6 (9.2%) OR=2.640 (Cl: 1.037, 6.723)
PGIC - much better – 126d Dichotomous patient-reported improvement in	137 29 (21.2%) 65 6 (9.2%) OR=2.640 (CI: 1.037, 6.723)
daily physical and emotional	
functioning, including sleep: Mean difference from base	ne to average -2.8 (SD -1.9 (SD MD=-0.900 (CI: -1.533, -
NRS Sleep – 112d <sup>e</sup> f-u	131 2.09) 64 2.13) 0.267)
major adverse events	,
(defined as leading to withdrawal):	
any major adverse event – 126d Dichotomous	137 58 (42.3%) 65 9 (13.8%) OR=4.568 (CI: 2.092, 9.977)
adverse events:	407 440 (00 00))
any adverse event – 126d Dichotomous	137 119 (86.9%) 65 55 (84.6%) OR=1.202 (CI: 0.521, 2.775)
balance disorder – 126d Dichotomous	OR=14.205 (CI: 0.831, 137 13 (9.5%) 65 0 (0.0%) 242.757)
balance disorder – 120d Bichotomous	OR=7.529 (CI: 0.423,
Blurred vision – 126d Dichotomous	137 7 (5.1%) 65 0 (0.0%) 133.858)
Diarrhoea – 126d Dichotomous	137 11 (8.0%) 65 5 (7.7%) OR=1.048 (CI: 0.348, 3.150)
	OR=8.224 (CI: 2.436,
Dizziness – 126d Dichotomous	137 39 (28.5%) 65 3 (4.6%) 27.764)
Fatigue – 126d Dichotomous	137 6 (4.4%) 65 2 (3.1%) OR=1.443 (CI: 0.283, 7.351)
headache – 126d Dichotomous	137 18 (13.1%) 65 8 (12.3%) OR=1.078 (CI: 0.442, 2.626)
Nausea – 126d Dichotomous	OR=3.404 (Cl: 1.132, 137 25 (18.2%) 65 4 (6.2%) 10.232)
Peripheral oedema – 126d <sup>f</sup> Dichotomous	137 5 (3.6%) 65 3 (4.6%) OR=0.783 (CI: 0.181, 3.380)
1 onprioral obdoma 1200 Bioliotomodo	OR=3.446 (CI: 0.415,
Pruritus – 126d Dichotomous	137 7 (5.1%) 65 1 (1.5%) 28.612)
	OR=13.048 (CI: 0.760,
Somnolence – 126d Dichotomous	137 12 (8.8%) 65 0 (0.0%) 223.870)
	OR=3.969 (CI: 0.486,
vertigo – 126d Dichotomous	137 8 (5.8%) 65 1 (1.5%) 32.423)
Vomiting – 126d Dichotomous	OR=9.685 (CI: 0.555, 137 9 (6.6%) 65 0 (0.0%) 169.000)
treatment withdrawal:	137 3 (0.0%) 03 0 (0.0%) 103.000)
due to lack of efficacy – 126d Dichotomous	137 7 (5.1%) 65 2 (3.1%) OR=1.696 (CI: 0.342, 8.401)
unspecified/other reason – 126d Dichotomous	137 3 (2.2%) 65 2 (3.1%) OR=0.705 (CI: 0.115, 4.327)
withdrawal of consent – 126d Dichotomous	137 16 (11.7%) 65 5 (7.7%) OR=1.587 (Cl: 0.555, 4.538)
protocol deviation – 126d Dichotomous	137 1 (0.7%) 65 2 (3.1%) OR=0.232 (CI: 0.021, 2.602)

lost to follow-up – 126d	Dichotomous	137 5	(3.6%)	65 1	(1.5%)	OR=2.424 (CI: 0.277, 21.183) OR=1.440 (CI: 0.058,
poor compliance – 126d	Dichotomous	137 1	(0.7%)	65 0	(0.0%)	35.819)
use of rescue medication: rescue medication usage	Percentage change from baseline to average f-u	137	-37 <sup>g</sup>	65	-17	MD=-20.000

		LAC	LACOSAMIDE 400		PL	ACE	ВО		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous	125		6.4 (SD 1.5)	64		6.2 (SD 1.6)	MD 0 000 (Cl. 4 440	
NRS/NRS Pain – 63d <sup>a</sup>	Mean difference from baseline to average f-u	120		-1.89	64		-1.27	MD=-0.620 (CI: -1.149, - 0.091)	
	Mean difference from baseline to average	0			٠.			MD=-0.890 (CI: -1.537, -	
NRS/NRS Pain – 84d <sup>b</sup>	f-u	91		-2.77	52		-1.88	0.243)	
NRS/NRS Pain – 112d <sup>c</sup>	Mean difference from baseline to average	120		-2.29	C 4		-1.67	MD=-0.610 (CI: -1.218, -	
NRS/NRS Pain = 1120 NRS/NRS Pain = 126d <sup>d</sup>	f-u Continuous	120		-2.29 3.9	64 65		-1.67 4.4	0.002) MD=-0.500	
NRS/NRS Pain – 126d <sup>d</sup>	Continuous	125		3.9	52		4.4	MD=-0.500 MD=-0.500	
at least 30% pain reduction (NRS) -									
126d <sup>e</sup>	Dichotomous from baseline to average f-u	120	70		64	29		OR=1.690 (CI: 0.917, 3.114)	
at least 30% pain reduction (NRS) – 126d <sup>e</sup>	Dichotomous from baseline to average f-u	125	70		6E	29		OR=1.690 (CI: 0.917, 3.114)	
at least 50% pain reduction (NRS) –	Dichotomous from baseline to average 1-u	123	70		05	29		OR=1.090 (Cl. 0.917, 3.114)	
126d <sup>e</sup>	Dichotomous from baseline to average f-u	120	53		64	17		OR=2.187 (CI: 1.129, 4.238)	
at least 50% pain reduction (NRS) -									
126d <sup>e</sup>	Dichotomous from baseline to average f-u	125	53		65	17		OR=2.187 (CI: 1.129, 4.238)	
patient-reported global improvement: PGIC - worse (all grades) – 126d	Dichotomous	125	3	(2.4%)	65	3	(4.6%)	OR=0.508 (CI: 0.100, 2.592)	
PGIC - no change – 126d	Dichotomous			(9.6%)			(18.5%)	OR=0.469 (CI: 0.198, 1.113)	
PGIC - minimally or moderately better –				(51575)	-		(101070)	(	
126d	Dichotomous			(33.6%)			(46.2%)	OR=0.590 (CI: 0.320, 1.090)	
PGIC - much better – 126d	Dichotomous	125	28	(22.4%)	65	6	(9.2%)	OR=2.838 (CI: 1.110, 7.261)	
patient-reported improvement in daily physical and emotional									
functioning, including sleep:	Mean difference from baseline to average			-2.1 (SD			-1.9 (SD	MD=-0.200 (CI: -0.840,	
NRS Sleep – 112d <sup>f</sup>	f-u	120		2.07)	64		2.13)	0.440)	
major adverse events									
(defined as leading to withdrawal):	Dichotomous	105	20	(24.00/)	er.	0	(42.00/)	OD 4 065 (CI: 0.970 4 439)	
any major adverse event – 126d adverse events:	Dichotomous	125	30	(24.0%)	65	Э	(13.8%)	OR=1.965 (CI: 0.870, 4.438)	
any adverse event – 126d	Dichotomous	125	99	(79.2%)	65	55	(84.6%)	OR=0.692 (CI: 0.311, 1.541)	

least squares mean; from baseline to weeks 1 to 18
least squares mean; from baseline to maintenance period (weeks 6-18)
least squares mean; from baseline to last 4 weeks (weeks 14 to 18)
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least squares mean; from baseline to last 4 weeks (weeks 14 to 18)
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balance disorder – 126d	Dichotomous	125 6 (4.8%)	65 0 (0.0%)	OR=7.126 (CI: 0.395, 128.492)
		` '	` '	OR=3.743 (CI: 0.190,
Blurred vision – 126d	Dichotomous	125 3 (2.4%)	65 0 (0.0%)	73.566)
Diarrhoea – 126d	Dichotomous	125 6 (4.8%)	65 5 (7.7%)	OR=0.605 (CI: 0.177, 2.063) OR=5.694 (CI: 1.657,
Dizziness – 126d	Dichotomous	125 27 (21.6%)	65 3 (4.6%)	19.567)
Fatigue – 126d	Dichotomous	125 7 (5.6%)	65 2 (3.1%)	OR=1.869 (CI: 0.377, 9.264)
headache – 126d	Dichotomous	125 10 (8.0%)	65 8 (12.3%)	OR=0.620 (CI: 0.232, 1.655)
Nausea – 126d	Dichotomous	125 9 (7.2%)	65 4 (6.2%)	OR=1.183 (CI: 0.350, 3.999)
Peripheral oedema – 126d <sup>g</sup>	Dichotomous	125 2 (1.6%)	65 3 (4.6%)	OR=0.336 (CI: 0.055, 2.064) OR=4.966 (CI: 0.615,
Pruritus – 126d	Dichotomous	125 9 (7.2%)	65 1 (1.5%)	40.082) OR=11.909 (CI: 0.687,
Somnolence – 126d	Dichotomous	125 10 (8.0%)	65 0 (0.0%)	206.539)
vertigo – 126d	Dichotomous	125 1 (0.8%)	65 1 (1.5%)	OR=0.516 (CI: 0.032, 8.388) OR=2.652 (CI: 0.125,
Vomiting – 126d treatment withdrawal:	Dichotomous	125 2 (1.6%)	65 0 (0.0%)	56.056)
due to lack of efficacy - 126d	Dichotomous	125 6 (4.8%)	65 2 (3.1%)	OR=1.588 (CI: 0.311, 8.100)
unspecified/other reason – 126d	Dichotomous	125 2 (1.6%)	65 2 (3.1%)	OR=0.512 (CI: 0.070, 3.722)
withdrawal of consent – 126d	Dichotomous	125 10 (8.0%)	65 5 (7.7%)	OR=1.043 (CI: 0.341, 3.192)
protocol deviation – 126d	Dichotomous	125 3 (2.4%)	65 2 (3.1%)	OR=0.775 (CI: 0.126, 4.756) OR=1.041 (CI: 0.093,
lost to follow-up – 126d	Dichotomous	125 2 (1.6%)	65 1 (1.5%)	11.696) OR=1.578 (CI: 0.063,
poor compliance – 126d	Dichotomous	125 1 (0.8%)	65 0 (0.0%)	39.288)
use of rescue medication:	Percentage change from baseline to	,	,	•
rescue medication usage	average f-u	125 -43 <sup>h</sup>	65 -17	MD=-26.000

		LAC	LACOSAMIDE 200		PLACEBO		ВО		
		N	k	mean	N	k	mean	Δ	
pain score:				6.3 (SD			6.2 (SD		
NRS/NRS Pain – 0d	Continuous	141		1.5)	64		1.6)		
	Mean difference from baseline to average f-			•			,	MD=-0.450 (CI: -0.960,	
NRS/NRS Pain – 63d <sup>a</sup>	u	138		-1.73	64		-1.27	0.060)	
	Mean difference from baseline to average f-							MD=-0.320 (CI: -0.947,	
NRS/NRS Pain – 84d <sup>b</sup>	u	112		-2.21	52		-1.88	0.307)	
	Mean difference from baseline to average f-							MD=-0.330 (CI: -0.938,	
NRS/NRS Pain – 112d <sup>c</sup>	u	138		-2.01	64		-1.67	0.278)	
at least 30% pain reduction (NRS) -								,	
126d <sup>d</sup>	Dichotomous from baseline to average f-u	138	75		64	29		OR=1.437 (CI: 0.792, 2.606)	

least squares mean; from baseline to weeks 1 to 18
least squares mean; from baseline to maintenance period (weeks 6-18)
least squares mean; from baseline to last 4 weeks (weeks 14 to 18)
not sure about denominator
estimated from percentage so may not be completely accurate; from baseline to last 4 weeks (weeks 14 to 18)
from baseline to last 4 weeks (weeks 14 to 18)
gestimated from percentage so may not be completely accurate
h unclear if this is reduction in the proportion of patients or proportion of drugs used

at least 30% pain reduction (NRS) –	<b>5</b> 1.1.1							05 / 405 /01 0 500
126d <sup>d</sup>	Dichotomous from baseline to average f-u	141	75		65	29		OR=1.437 (CI: 0.792, 2.606
at least 50% pain reduction (NRS) –	District and the second	444	07		0.5	4-7		OD 4 040 (OL 0 540 4 000
126d <sup>d</sup>	Dichotomous from baseline to average f-u	141	37		65	17		OR=1.013 (CI: 0.518, 1.980
at least 50% pain reduction (NRS) – 126d <sup>d</sup>	Dishatamaya from basalina ta ayaraga f y	138	27		64	17		OD 4 042 (CI- 0 549 4 090
	Dichotomous from baseline to average f-u	130	31		04	17		OR=1.013 (CI: 0.518, 1.980
patient-reported global improvement: PGIC - worse (all grades) – 126d	Dichotomous	4.44	0	(F <b>7</b> 0/)	G.F.	2	(4 60/)	OD 4 242 (Ch 0 240 4 84
PGIC - worse (all grades) – 126d PGIC - no change – 126d	Dichotomous	141 141		(5.7%) (20.6%)	65 65		(4.6%) (18.5%)	OR=1.243 (CI: 0.319, 4.847 OR=1.144 (CI: 0.541, 2.416
PGIC - no change – 1260 PGIC - minimally or moderately better –	Dichotomous	141	29	(20.6%)	65	12	(10.5%)	OR=1.144 (Cl. 0.541, 2.416
126d	Dichotomous	141	12	(29.8%)	65	30	(46.2%)	OR=0.495 (CI: 0.270, 0.908
PGIC - much better – 126d	Dichotomous	141		(18.4%)	65		(9.2%)	OR=0.493 (CI: 0.270, 0.900 OR=2.223 (CI: 0.867, 5.700
major adverse events	Dichotomous	141	20	(10.470)	03	U	(3.270)	ON=2.223 (OI. 0.007, 3.700
(defined as leading to withdrawal):								
any major adverse event – 126d	Dichotomous	141	17	(12.1%)	65	a	(13.8%)	OR=0.853 (CI: 0.358, 2.031
adverse events:	Dionotomodo	171	.,	(12.170)	0.5	J	(10.070)	311-0.000 (Oi. 0.000, 2.001
any adverse event – 126d	Dichotomous	141	113	(80.1%)	65	55	(84.6%)	OR=0.734 (CI: 0.333, 1.618
any davoros svom 1200	Bioliotomode			(00.170)	00	00	(01.070)	OR=4.287 (CI: 0.227,
balance disorder – 126d	Dichotomous	141	4	(2.8%)	65	0	(0.0%)	80.816)
			=	(=10,0)		-	(212,2)	OR=2.348 (CI: 0.111,
Blurred vision – 126d	Dichotomous	141	2	(1.4%)	65	0	(0.0%)	49.598)
Diarrhoea – 126d	Dichotomous	141		(6.4%)	65		(7.7%)	OR=0.818 (CI: 0.263, 2.546
Dizziness – 126d	Dichotomous	141	8	(5.7%)	65		(4.6%)	OR=1.243 (CI: 0.319, 4.847
Fatigue – 126d	Dichotomous	141	5	(3.5%)	65	2	(3.1%)	OR=1.158 (CI: 0.219, 6.132
headache – 126d	Dichotomous	141	14	(9.9%)	65	8	(12.3%)	OR=0.785 (CI: 0.312, 1.977
Nausea – 126d	Dichotomous	141	14	(9.9%)	65	4	(6.2%)	OR=1.681 (CI: 0.531, 5.322
Peripheral oedema – 126d <sup>e</sup>	Dichotomous	141	3	(2.1%)	65	3	(4.6%)	OR=0.449 (CI: 0.088, 2.289
								OR=2.844 (CI: 0.335,
Pruritus – 126d	Dichotomous	141	6	(4.3%)	65	1	(1.5%)	24.123)
								OR=7.305 (CI: 0.411,
Somnolence – 126d	Dichotomous	141		(5.0%)	65	0	(0.0%)	129.858)
vertigo – 126d	Dichotomous	141	1	(0.7%)	65	1	(1.5%)	OR=0.457 (CI: 0.028, 7.424
								OR=6.284 (CI: 0.349,
Vomiting – 126d	Dichotomous	141	6	(4.3%)	65	0	(0.0%)	113.245)
treatment withdrawal:								
due to lack of efficacy – 126d	Dichotomous	141		(3.5%)	65		(3.1%)	OR=1.158 (CI: 0.219, 6.132
unspecified/other reason – 126d	Dichotomous	141		(0.7%)	65		(3.1%)	OR=0.225 (CI: 0.020, 2.527
withdrawal of consent – 126d	Dichotomous	141		(6.4%)	65		(7.7%)	OR=0.818 (CI: 0.263, 2.546
protocol deviation – 126d	Dichotomous	141	4	(2.8%)	65	2	(3.1%)	OR=0.920 (CI: 0.164, 5.154
	51.1		_	(0.40:)			// <b>=</b> 0/1	OR=4.364 (CI: 0.541,
lost to follow-up - 126d	Dichotomous	141	9	(6.4%)	65	1	(1.5%)	35.189)
	<b>5</b>			(0 =0()	•-	_	(0.00()	OR=1.399 (CI: 0.056,
poor compliance – 126d	Dichotomous	141	1	(0.7%)	65	0	(0.0%)	34.795)
use of rescue medication:	Percentage change from baseline to			o = f			4-7	MB 40.000
rescue medication usage	average f-u	141		-35 <sup>f</sup>	65		-17	MD=-18.000

least squares mean; from baseline to weeks 1 to 18
least squares mean; from baseline to maintenance period (weeks 6-18)
least squares mean; from baseline to last 4 weeks (weeks 14 to 18)
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least squares mean; from baseline to last

Comments	phase 3 trial; randomisation after 2 week run-in period of which at least one week was considered 'wash-out'; adverse events reported are those occurring in at least 5% of patients; atrial fibrillation occurred twice in one patient treated with 600 mg/d (it is not clear if atrial fibrillation occurred in patients in the
	other arms)

Study	Siddall et al. (2006)
Pain category	Central pain
Study design	Country: Australia Design: Parallel Inclusion criteria: central neuropathic pain associated with SCI (duration at least 3 months), aged 18 years and over, with pain scores at least 40mm on a VAS, and at least 4 on average daily pain on a NRS (11-point), with sound medical and mental health  Exclusion criteria: <60 ml/minute creatinine clearance, breastfeadding or pregnant women, women of childbearing potential not using reliable contraception  Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 137  Number of males: 114 (83.2%)  Underlying cause of neuropathic pain: Spinal cord injury pain  Mean duration of NP (in months): 121.8  Baseline pain severity: 6.635 (NRS (average of means))  Mean age: 50
Intervention(s)	(1) Pregabalin Intervention: pregabalin Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose Mean dose: 460mg/d Range: 150–600 Notes: 460 mg/d was the average dose after the 3-week stabilisation phase (it was 483 mg/d in the study completers); last dose was 150 mg/d in 11%, 300 mg/d in 33%, and 60- mg/d in 56% (2) Placebo Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Yes (NSAIDs, opioids, non-opioid analgesics, anti-epileptic drugs, anti-depressants if stable for at least 1 month before study, muscle relaxants (those on gabapentin had to discontinue treatment at least one week before the study))
Outcomes	PREGABALIN PLACEBO

measures and effect sizes			N k	k	mean	N	k	mean	Δ
ellect sizes	noin agoro:								
	pain score:  NRS/NRS Pain – 0d	Continuous	69		6.54 (SD 1.3)	67	,	6.73 (SD 1.4)	
	NRS/NRS Pain – 84d	Continuous	69		4.62 (SD 2.1)	67		6.27 (SD 1.4)	MD=-1.530 (CI: -2.145, -0.915)
	at least 30% pain reduction (NRS) – 84d	Dichotomous	70 2	29	(41.4%)	_		(16.4%)	OR=3.691 (CI: 1.652, 8.247)
	at least 30% pain reduction (NRS) – 84d	Dichotomous	69 2		(41.4%)			(16.4%)	OR=3.691 (CI: 1.652, 8.247)
	at least 50% pain reduction (NRS) – 84d	Dichotomous			(21.4%)		' 5	(7.5%)	OR=3.444 (CI: 1.175, 10.101)
	at least 50% pain reduction (NRS) – 84d	Dichotomous			(21.4%)		' 5	(7.5%)	OR=3.444 (CI: 1.175, 10.101)
	McGill VAS – 0d	Continuous	69		69.1 (SD 13.6)	67		73.1 (SD 14.5)	
	McGill VAS – 84d	Continuous	69		49.2 (SD 24.1)	67	,	68.5 (SD 22.2)	MD=-17.600 (CI: -25.200, -10.000)
	PPI (from MPQ) – 0d	Continuous	69		2.46 (SD 0.9)	67	,	2.63 (SD 1)	,
	PPI (from MPQ) – 84d	Continuous	69		1.85 (SD 1.1)	67	•	2.55 (SD 1)	MD=-0.660 (CI: -0.995, -0.325)
	SF McGill – 0d	Continuous	69		17.4 (SD 9.2)	67		18.4 (SD 9)	
	SF McGill – 84d	Continuous	69		11.7 (SD 9.9)	67	,	17.5 (SD 10.3)	MD=-4.900 (CI: -7.700, -2.100)
	patient-reported global improvement:								
	PGIC - worse (all grades) – 84d	Dichotomous			(17.1%)		20		OR=0.474 (CI: 0.210, 1.071)
	PGIC - worse (all grades) – 84d	Dichotomous			(17.1%)	67	20	(29.9%)	OR=0.474 (CI: 0.210, 1.071)
	PGIC - no change – 84d	Dichotomous			(25.7%)			(46.3%)	OR=0.387 (CI: 0.187, 0.799)
	PGIC - no change – 84d	Dichotomous			(25.7%)			(46.3%)	OR=0.387 (Cl: 0.187, 0.799)
	PGIC - better (all grades) – 84d	Dichotomous			(55.7%)			(20.9%)	OR=4.736 (Cl: 2.217, 10.117)
	PGIC - better (all grades) – 84d patient-reported improvement in	Dichotomous	70 3	39	(55.7%)	0	14	(20.9%)	OR=4.736 (CI: 2.217, 10.117)
	daily physical and emotional								
	functioning, including sleep:								
	Normalised (10-pt) sleep interference measure – 0d <sup>a</sup>	Continuous	69		4.22 (SD 2.6)	66	;	4.98 (SD 2.6)	
	Normalised (10-pt) sleep interference measure – 84d <sup>a</sup>	Continuous	69		2.79 (SD 2.6)	66		4.71 (SD 2.7)	
	NRS Sleep – 0d	Continuous	69		4.22 (SD 2.6)	66		4.98 (SD 2.6)	
	NRS Sleep – 84d	Continuous	69		2.79 (SD 2.5)	66		4.71 (SD 2.7)	MD=-1.920 (CI: -2.799, -1.041)
	HADS-A – 0d	Continuous	69		6.74 (SD 3.6)	67	,	8.67 (SD 4.1)	,
	HADS-A – 84d	Continuous	69		5.16 (SD 3.4)	67	•	7.49 (SD 4.3)	MD=-2.330 (CI: -3.635, -1.025)
	HADS-D – 0d	Continuous	69		5.86 (SD 3.7)	67	•	6.61 (SD 3.7)	
	HADS-D – 84d	Continuous	69		5.44 (SD 4.1)	67		6.29 (SD 4.2)	MD=-0.850 (CI: -2.245, 0.545)
	MOS sleep problems index – 0d	Continuous	69		43.3 (SD 19.8)	67		50.6 (SD 19.1)	
	MOS sleep problems index – 84d	Continuous	69		34.5 (SD 18.3)	67	,	45.2 (SD 21.3)	MD=-10.700 (CI: -17.383, -4.017)
	major adverse events								
	(defined as leading to withdrawal):	Dishatamaya	70 1	1 =	(24.40/)	6-	, 0	(42.40/)	OD 4.750 (CI: 0.744, 4.245)
	any major adverse event – 84d adverse events:	Dichotomous	70 1	15	(21.4%)	0	' 9	(13.4%)	OR=1.758 (CI: 0.711, 4.345)
	amnesia – 84d	Dichotomous	70 7	7	(10.0%)	6	2	(3.0%)	OR=3.611 (CI: 0.722, 18.052)
	asthenia – 84d	Dichotomous	70 7		(15.7%)	67	' 4	(6.0%)	OR=2.936 (Cl: 0.886, 9.732)
	Blurred vision – 84d <sup>b</sup>	Dichotomous	70 6		(8.6%)		, <sub>2</sub>	(3.0%)	OR=3.047 (CI: 0.593, 15.662)
	Cognitive impairment – 84d <sup>c</sup>	Dichotomous	70 6	6	(8.6%)		' 1	(1.5%)	OR=6.188 (CI: 0.725, 52.840)
	Constipation – 84d	Dichotomous	70 9	9	(12.9%)		' 4	(6.0%)	OR=2.324 (CI: 0.680, 7.944)
	Dizziness – 84d	Dichotomous	70 1		(24.3%)		' 6	(9.0%)	OR=3.261 (CI: 1.199, 8.872)
	Dry mouth – 84d	Dichotomous			(15.7%)		2	(3.0%)	OR=6.059 (CI: 1.290, 28.472)
	Infection – 84d	Dichotomous	70 6		(8.6%)		4	(6.0%)	OR=1.477 (CI: 0.398, 5.484)
	myasthenia – 84d	Dichotomous	70 6		(8.6%)		' 3	(4.5%)	OR=2.000 (CI: 0.479, 8.345)
	oedema – 84d <sup>d</sup>	Dichotomous			(20.0%)		4	(6.0%)	OR=3.938 (CI: 1.224, 12.662)
	Somnolence – 84d	Dichotomous	70 2		(41.4%)		' 6	(9.0%)	OR=7.191 (CI: 2.742, 18.857)
	urination difficulties – 84d <sup>e</sup>	Dichotomous	70 4	4	(5.7%)	67	2	(3.0%)	OR=1.970 (CI: 0.349, 11.128)
	treatment withdrawal:			_					
	due to lack of efficacy – 84d	Dichotomous	70 5	5	(7.1%)	67	20	(29.9%)	OR=0.181 (CI: 0.063, 0.516)

	unspecified/other reason – 84d	Dichotomous	70 1	(1.4%)	67 1 (1.5%)	OR=0.957 (CI: 0.059, 15.609)
	based on NRS Sleep defined as 'amblyopia' Paper reports this as 'thinking abnormal' Paper reports this as 'oedema' urinary incontinence'					
Comments	patients on gabapentin were required to discondose of study medication and had at least one because there was no on-treatment efficacy as:	ost-baseline assess				

Study	Simpson (2001)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: with PDN for 3 months to 1.5 years, with pain score of at least 40mm on a SF McGill Questionnaire VAS-100mm, average pain rating of at least 4 on a NRS (11-point) Exclusion criteria: severe pain from a cause other than diabetic neuropathy, amputations other than toes, renal failure with creatinine clearance <60 ml/min, use of the following drugs within 30 days of screening: tricyclics, mexiletine, carbamazepine, phenytoin, valproate, dextromethorphan, opioids, capsicin, NSAIDs, skeletal muscle relaxants, benzodiazepines, OTC centrally acting agents Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 60 Number of males: 36 (60.0%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.45 (NRS (average of arm means)) Mean age: 50
Intervention(s)	(1) Gabapentin flexi Intervention: gabapentin Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose Notes: max tolerated dosage; week 1: 300 mg/d for 2 days, 300mg twice per day for 2 days, then 300 mg three times per day for 3 days; week 2: 300 mg 2-1-1 for 1 day, 300 mg 2-2-1 for 1 day, 300 mg 2-2-2 for 5 days; week 3: 300 mg 3-2-2 for 1 day, 300 mg 3-3-2 for 1 day, 300 mg 3-3-3 for 5 days; week 4: 300 mg 4-3-3 for 1 day, 300 mg 4-4-3 for 1 day then maintained at 300 mg 4-4-4 (2) placebo Intervention: placebo Length of treatment (weeks): 8

Concomitant reatments	Drug free baseline period? Unclear Concomitant pain treatment allowed? No (use duration: tricyclics, mexiletine, carbamazepine, benzodiazepines, OTC centrally acting agents)	phenytoin, valproate							
Outcomes neasures and			GAE	APEN	TIN FLEXI	PLA	CEE	во	
fect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	NRS/NRS Pain – 0d	Continuous	27		6.4	27		6.5	
	NRS/NRS Pain – 56d	Mean change	27		-2.4	27		-0.5	MD=-1.900
	NRS/NRS Pain – 56d	Continuous	27		4	27		6	MD=-2.000
	patient-reported global improvement:								
	PGIC - worse (all grades) – 56d	Dichotomous	30	1	(3.3%)	30	4	(13.3%)	OR=0.224 (CI: 0.024, 2.136)
	PGIC - no change or minimally better – 56d	Dichotomous	30	11	(36.7%)		16	(53.3%)	OR=0.507 (CI: 0.180, 1.422)
	PGIC - at least moderately better – 56d	Dichotomous	30	15	(50.0%)	30	7	(23.3%)	OR=3.286 (CI: 1.085, 9.952)
	patient-reported improvement in daily physical and emotional								
	functioning, including sleep:								
	POMS – 56d	Continuous	27		25	27		34	MD=-9.000
	major adverse events	Continuous	21		20	21		54	WD= 3.000
	(defined as leading to withdrawal):								
	any major adverse event – 56d	Dichotomous	30	2	(6.7%)	30	2	(6.7%)	OR=1.000 (CI: 0.131, 7.605)
	adverse events:	Bioriotomodo	00	_	(0.1 70)	00	_	(0.1 70)	GN=1.000 (GN 0.101, 1.000)
	Confusion – 56d	Dichotomous	30	2	(6.7%)	30	0	(0.0%)	OR=5.351 (CI: 0.246, 116.310)
	Diarrhoea – 56d	Dichotomous	30	3	(10.0%)		1	(3.3%)	OR=3.222 (CI: 0.316, 32.889)
	Dizziness – 56d	Dichotomous	30	6	(20.0%)	30		(3.3%)	OR=7.250 (CI: 0.815, 64.457)
	headache – 56d	Dichotomous	30	3	(10.0%)	30		(3.3%)	OR=3.222 (CI: 0.316, 32.889)
	Nausea – 56d	Dichotomous	30	2	(6.7%)	30	1	(3.3%)	OR=2.071 (CI: 0.178, 24.148)
	Somnolence – 56d	Dichotomous	30	6	(20.0%)	30	1	(3.3%)	OR=7.250 (CI: 0.815, 64.457)
	overall improvement in quality of life:				,			, ,	, ,
	SF36 bodily pain – 56d	Continuous	27		60	27		45	MD=15.000
	SF36 vitality – 56d	Continuous	27		60	27		40	MD=20.000
	SF36 mental health – 56d	Continuous	27		80	27		65	MD=15.000
	treatment withdrawal:								
	due to lack of efficacy – 56d	Dichotomous	30	1	(3.3%)	30	1	(3.3%)	OR=1.000 (CI: 0.060, 16.763)

Study	Simpson et al. (2000)
Pain category	Peripheral pain
Study design	Country: USA

	Design: Parallel Inclusion criteria: Participants with Exclusion criteria: Participants on s infectios (excludin oral thrush, orog active psychiatric disorders, use of already established antiretroviral re Study length (days): 98 Intention-to-treat analysis? No	odium valproate, al jenital or rectal herp chemotherapeutic	ternati ses and	ve c d my	auses for neuropath cobacterium avium	-intrace	llula	ar bacteremia) withi	
Participants	Total number of patients: 42 Number of males: 24 (57.1%) Underlying cause of neuropathic patients of NP (in months): r Baseline pain severity: 1.07 (Grace Mean age: 44.5	not reported	uropath	ny					
Intervention(s)	(1) Lamotrigine 300mg/d Intervention: lamotrigine Length of treatment (weeks): 14 Fixed/flexible dose regimen: Fixed Set dose: 300mg/d Notes: 7 week titration, starting at 2 2x per day (week 7-14) (2) Placebo Intervention: placebo Length of treatment (weeks): 14 Fixed/flexible dose regimen: Fixed	25 mg/d (weeks 1-2	²), 25 m	ng 2:	x per day (week 3-4	ŀ), 50 m	g 2)	x per day (week 5),	100 mg 2x per day (week 6), 150 mg
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowe from valproic acid)	d? Unclear (a numb	oer of o	conc	omitant treatments	were ex	kclu	ded but these were	mostly not pain medications apart
Outcomes			LAI	иот	RIGINE 300MG/D	PL	ACE	ВО	
measures and effect sizes			N	k	mean	N	k	mean	Δ
	pain score: Gracely pain score – 0d Gracely pain score – 98d Gracely pain score – 98d major adverse events (defined as leading to withdrawal): any major adverse event – 98d treatment withdrawal:	Continuous Continuous Mean change Dichotomous	9 9 9	5	1.09 (SD 0.32) 0.52 (SD 0.37) -0.55 (SD 0.42) (25.0%)	20 20 20 22	0		MD=-0.360 (CI: -0.672, -0.048) MD=-0.370 (CI: -0.696, -0.044) OR=15.968 (CI: 0.822, 310.145)
	unspecified/other reason – 98d lost to follow-up – 98d	Dichotomous Dichotomous	20 20	0 5	(0.0%) (25.0%)			(9.1%) (4.5%)	OR=0.200 (CI: 0.009, 4.428) OR=7.000 (CI: 0.740, 66.212)

	Rash – 98d	Dichotomous	20 5 (25.0%)	22 0 (0.0%)	OR=15.968 (CI: 0.822, 310.145)
	Infection – 98d	Dichotomous	20 1 (5.0%)	22 0 (0.0%)	OR=3.462 (CI: 0.133, 89.951)
Comments	-				

Study	Simpson et al. (2003)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Participants with HIV- related sensory neuropathy (that was not responding to treatment) aged 32 to 67 years with symptoms of neuropathic pain in both distal lower extremities for at least 6 weeks and had either diminished reflexes at the ankles compared to the knees or distal diminution of sensations of vibration, pain or temperature in the legs  Exclusion criteria: Previous or current use of lamotrigine, other neurological disorders that could confound diagnosis of peripheral neuropathy such as myelopathy, no prior exposure to dideoxynucleoside analogue antiretroviral therapy (or to have discontinued them within 8 weeks of randomisation or treated with a stable dose for at least 8 weeks before randomisation), use of valproate within 4 weeks of randomisation  Study length (days): 77 Intention-to-treat analysis? No
Participants	Total number of patients: 227 Number of males: 197 (86.8%) Underlying cause of neuropathic pain: HIV-related neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 66.625 (VAS (average of arm means)) Mean age: 44.25
Intervention(s)	(1) Lamotrigine 400 or 600 mg/d Intervention: lamotrigine Length of treatment (weeks): 11 Fixed/flexible dose regimen: Flexible dose Mean dose: 379.9333333mg/d Notes: Target dose was 400mg/d but this was increased to 600mg day for those on enzyme inducing drugs; mean maintenance dosage ranged from 377 to 402 mg/d across all patients (2) Placebo Intervention: placebo Length of treatment (weeks): 11 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (analgesics could be continued during therapy if they were receiving them at least 4 weeks before randomisation but needed to be maintained on a regular basis throughout the study (ie. tricyclics, class I anti-arrhythmics, anti-convulsants); opioids and

	non-opioid medications could be adjusted as needed, other the before randomisation and the regimen was maintained throug pain for up to 10 days but no new analgesics were allowed for	hout the	study, a	nalgesics for new, a	cute cond			
mes ires and sizes		LAMOTE	RIGINE 4	00 OR 600 MG/D mean	PLACE N k	BO mean	Δ	

Outcomes	·		LAMOT	RIGINE 4	00 OR 600 MG/D	PL	ACEI	ВО	
measures and effect sizes			N	k	mean	N	k	mean	Δ
	pain score: at least 30% pain reduction (VAS) – 77d	Dichotomous	150	63	(42.0%)	77	20	(26.0%)	OR=2.064 (CI: 1.128, 3.775)
	patient-reported global improvement: PGIC - at least moderately better – 77d major adverse events	Dichotomous	150	39	(26.0%)	77	22	(28.6%)	OR=0.878 (CI: 0.475, 1.624)
	(defined as leading to withdrawal): any major adverse event – 77d adverse events:	Dichotomous	150	4	(2.7%)	77	3	(3.9%)	OR=0.676 (CI: 0.147, 3.099)
	Diarrhoea – 77d headache – 77d	Dichotomous Dichotomous	150 150	16 16	(10.7%) (10.7%)	77 77		(9.1%) (9.1%)	OR=1.194 (CI: 0.469, 3.039) OR=1.194 (CI: 0.469, 3.039)
	Infection – 77d Nausea – 77d	Dichotomous Dichotomous	150 150	17 17	(11.3%) (11.3%)	77 77	7	(9.1%) (9.4%)	OR=1.104 (CI: 0.405, 0.605) OR=1.278 (CI: 0.506, 3.228) OR=1.102 (CI: 0.453, 2.682)
	Rash – 77d treatment withdrawal:	Dichotomous	150	21	(14.0%)	77	9	(11.7%)	OR=1.230 (CI: 0.534, 2.833)
	unspecified/other reason – 77d withdrawal of consent – 77d	Dichotomous Dichotomous	150 150	2 6	(1.3%) (4.0%)	77 77	4 1	(5.2%) (1.3%)	OR=0.247 (CI: 0.044, 1.378) OR=3.167 (CI: 0.374, 26.785)
	protocol deviation – 77d lost to follow-up – 77d	Dichotomous Dichotomous	150 150	8 8	(5.3%) (5.3%)	77 77	5 4	(6.5%) (5.2%)	OR=0.811 (CI: 0.256, 2.569) OR=1.028 (CI: 0.300, 3.528)
	ART group pain score:								
	VAS – 77d at least 30% pain reduction (VAS) – 77d	Mean change Dichotomous	45 62	26	-27.1 (41.9%)	23 30	5	-9 (16.7%)	MD=-18.100 OR=3.611 (CI: 1.221, 10.683)
	Gracely pain score – 77d  McGill Pain Questionnaire – 77d  patient-reported global improvement:	Mean change Mean change	45 45		-0.27 -6.9	23 23		-0.1 -1.6	MD=-0.170 MD=-5.300
	PGIC - much worse – 77d PGIC - moderately worse – 77d	Dichotomous Dichotomous	62 62	0 3	(0.0%) (4.8%)	30 30	0 4	(0.0%) (13.3%)	OR=0.488 (CI: 0.009, 25.187) OR=0.331 (CI: 0.069, 1.583)
	PGIC - minimally worse – 77d PGIC - no change – 77d	Dichotomous Dichotomous	62 62	0	(0.0%) (11.3%)	30 30	2 5	(6.7%) (16.7%)	OR=0.091 (CI: 0.004, 1.962) OR=0.636 (CI: 0.184, 2.202)
	PGIC - minimally better – 77d PGIC - moderately better – 77d	Dichotomous Dichotomous	62 62	11 11	(17.7%) (17.7%)	30 30	5 6	(16.7%) (20.0%)	OR=1.078 (CI: 0.338, 3.441) OR=0.863 (CI: 0.285, 2.609)
	PGIC - at least moderately better – 77d PGIC - much better – 77d	Dichotomous Dichotomous	62 62	24 13	(38.7%) (21.0%)	30 30	7 1	(23.3%) (3.3%)	OR=2.075 (CI: 0.772, 5.576) OR=7.694 (CI: 0.956, 61.903)
	treatment withdrawal: unspecified/other reason – 77d	Dichotomous	62	1	(1.6%)	30		(3.3%)	OR=0.475 (CI: 0.029, 7.872)
	withdrawal of consent – 77d protocol deviation – 77d	Dichotomous Dichotomous	62 62	1 4	(1.6%) (6.5%)	30 30	0	(0.0%) (10.0%)	OR=1.488 (CI: 0.059, 37.608) OR=0.621 (CI: 0.130, 2.969)
	lost to follow-up – 77d  No ART group	Dichotomous	62	6	(9.7%)	30	1	(3.3%)	OR=3.107 (CI: 0.357, 27.050)
	pain score: VAS – 77d	Mean change	71		-23.3	33		-21.3	MD=-2.000
	at least 30% pain reduction (VAS) – 77d Gracely pain score – 77d	Dichotomous Mean change	88 71	37	(42.0%) -0.3	47 33	15	(31.9%) -0.27	OR=1.548 (CI: 0.735, 3.261) MD=-0.030
	McGill Pain Questionnaire – 77d	Mean change	71		-6.8	33		-8.7	MD=1.900

	patient-reported global improvement:							
	PGIC - much worse – 77d	Dichotomous	88	0	(0.0%)	47	0.0%)	OR=0.537 (CI: 0.010, 27.480)
	PGIC - moderately worse – 77d	Dichotomous	88	2	(2.3%)	47	1 (2.1%)	OR=1.070 (CI: 0.094, 12.115)
	PGIC - minimally worse – 77d	Dichotomous	88	4	(4.5%)	47	1 (2.1%)	OR=2.190 (CI: 0.238, 20.181)
	PGIC - no change – 77d	Dichotomous	88	16	(18.2%)	47	8 (17.0%)	OR=1.083 (CI: 0.426, 2.756)
	PGIC - minimally better – 77d	Dichotomous	88	7	(8.0%)	47	8 (17.0%)	
	PGIC - moderately better – 77d	Dichotomous	88	16	(18.2%)	47	5 (10.6%)	OR=1.867 (CI: 0.638, 5.463)
	PGIC - at least moderately better – 77d	Dichotomous	88	42	(47.7%)	47	15 (31.9%)	OR=1.948 (CI: 0.927, 4.092)
	PGIC - much better – 77d	Dichotomous	88	26	(29.5%)	47	10 (21.3%)	OR=1.552 (CI: 0.673, 3.577)
	treatment withdrawal:							
	unspecified/other reason – 77d	Dichotomous	88	1	(1.1%)	47	3 (6.4%)	OR=0.169 (CI: 0.017, 1.668)
	withdrawal of consent – 77d	Dichotomous	88	5	(5.7%)	47	1 (2.1%)	OR=2.771 (CI: 0.314, 24.442)
	protocol deviation – 77d	Dichotomous	88	4	(4.5%)	47	2 (4.3%)	OR=1.071 (CI: 0.189, 6.077)
	lost to follow-up – 77d	Dichotomous	88	2	(2.3%)	47	3 (6.4%)	OR=0.341 (CI: 0.055, 2.117)
Comments	ART - neurotoxic antiretrovirals							

Study	Simpson et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: at least 2 months of moderate to severe neuropathic pain in both feet secondary to HIV-DSP or neurotoxic antiretroviral drug exposure with average NPRS score of 3 to 9 (inclusive); HIV-DSP diagnosed by neurologist based on pain, burning, or dysesthetic discomfort in both feet, diminshed ankle reflexes, and diminution of vibration, pain or temperature sensation in the distal legs; on stable doses of neurotoxic ARV for at least 8 weeks; stable on other pain medications (anticonvulsants, nonselective serotonin reuptake inhibitor antidepressants, opioids) for at least 21 days  Exclusion criteria: pain other than painful HIV-associated neuropathy, another cause for neuropathy (ie. diabetes mellitus, B12 deficiency, alcoholism), abnormalities in cardiac, renal, hepatic, or pulmonary function, hypersensitivity to capsaicin or opioids, those receiving 60 mg morphine equivalent or more  Study length (days): 84  Intention-to-treat analysis? Yes
Participants	Total number of patients: 307 Number of males: 286 (93.2%) Underlying cause of neuropathic pain: HIV-related neuropathy Mean duration of NP (in months): 57.68 Baseline pain severity: 5.9 (NPRS (NRS)) Mean age: 47.7
Intervention(s)	(1) Capasaicin 8% patch (30 minutes) Intervention: capsaicin patch Length of treatment (weeks):

	Fixed/flexible dose regimen: Notes: up to four patches; to application.	Fixed dose pical local anaesthic (lidocaine 4%	ś) was a	pplied	d for 60 minutes an	d ther	n remo	oved with soap and w	rater before patch
	(2) Capasaicin 8% patch (60	minutes)							
	Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Notes: up to four patches; to application.		ś) was a	applied	d for 60 minutes an	d ther	n remo	oved with soap and w	ater before patch
	(3) Capasaicin 8% patch (90	minutes only)							
	application.	Fixed dose pical local anaesthic (lidocaine 4%	s) was a	applied	d for 60 minutes an	d ther	n remo	oved with soap and w	ater before patch
	(4) Control patch (30, 60 or 9	00 minutes)							
	Intervention: placebo Length of treatment (weeks): Fixed/flexible dose regimen: Notes: up to four patches; to application.		ś) was a	applied	d for 60 minutes an	d ther	n remo	oved with soap and w	vater before patch
	(5) Capsaicin 8% (30, 60 or 9	90 minutes)							
									al local anaesthic
Concomitant treatments	serotonin reuptake inhibitor a	lo allowed? Yes (use of topical analo antidepressants, opioids) for at lea nset of treatmetn-associated disco	st 21 da	ays; pa	atients could also b	e adn	niniste	red oxycodone hydr	ochlorite oral solution (1
Outcomes measures and			CAPA MINU		IN 8% PATCH (30		NTROI UTES	PATCH (30, 60 OR 9	0
effect sizes			N	k	mean	N	k	mean	Δ
	pain score: NRS/NRS Pain – 0d at least 30% pain reduction (NRS) – 84d <sup>a</sup>	Continuous Dichotomous from baseline to average f-u Mean difference from baseline to	72 72		5.9 (SD 1.6)	82 82	15	5.9 (SD 1.6)	OR=3.190 (CI: 1.537, 6.621) MD=-0.180 (CI: -0.324, -
	Gracely pain score <sup>a</sup>	average f-u	72		-0.22 (SD 0.55)	82		-0.04 (SD 0.31)	0.036)

SF McGill <sup>a</sup>	Mean difference from baseline to average f-u Mean difference from baseline to	72		-9.02 (SD 9.43)	82		-3.2 (SD 8.77)	MD=-5.820 (CI: -8.709, - 2.931) MD=-4.630 (CI: -6.823, -
SF McGill sensory <sup>a</sup>	average f-u	72		-6.7 (SD 7.02)	82		-2.07 (SD 6.82)	2.437)
Summation of pain – 84d <sup>b</sup> patient-reported global	Percentage change from baseline to average f-u	72		-27.7 (SD 30.9)	82		-10.7 (SD 30.8)	MD=-17.000 (CI: - 26.766, -7.234)
improvement: PGIC - minimally better	Dichotomous	72	17	(23.6%)	82	11	(13.4%)	OR=1.995 (CI: 0.865, 4.603) OR=3.875 (CI: 1.952,
PGIC - better (all grades)	Dichotomous	72	40	(55.6%)	82	20	(24.4%)	7.692) OR=4.297 (CI: 1.333,
PGIC - moderately better PGIC - at least moderately	Dichotomous	72	13	(18.1%)	82	4	(4.9%)	13.851) OR=4.297 (CI: 1.333,
better	Dichotomous	72	13	(18.1%)	82	4	(4.9%)	13.851) OR=2.484 (CI: 0.807,
PGIC - much better	Dichotomous	72	10	(13.9%)	82	5	(6.1%)	7.646)

<sup>&</sup>lt;sup>a</sup> outcome from baseline to weeks 2 to 12

<sup>&</sup>lt;sup>b</sup> NRS; Baseline to week 2–12; least squares mean

			PASAI UTES	CIN 8% PATCH (60 )		NTROL UTES)	PATCH (30, 60 OR 90		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d at least 30% pain reduction	Continuous Dichotomous from baseline to	78		5.8 (SD 1.7)	82		5.9 (SD 1.6)	OR=1.438 (CI: 0.671,	
(NRS) – 84d <sup>a</sup>	average f-u Mean difference from baseline to	78	19		82	15		3.082) MD=-0.200 (CI: -0.320,	
Gracely pain score <sup>a</sup>	average f-u  Mean difference from baseline to	78		-0.24 (SD 0.45)	82		-0.04 (SD 0.31)	-0.080)	
SF McGill <sup>a</sup>	average f-u  Mean difference from baseline to	78		-9.65 (SD 9.75)	82		-3.2 (SD 8.77)	MD=-6.450 (CI: -9.328, -3.572)	
SF McGill sensory <sup>a</sup>	average f-u	78		-7.2 (SD 7.54)	82		-2.07 (SD 6.82)	MD=-5.130 (CI: -7.361, -2.899)	
Summation of pain – 84d <sup>b</sup> patient-reported global	Percentage change from baseline to average f-u	78		-15.8 (SD 30.4)	82		-10.7 (SD 30.8)	MD=-5.100 (CI: - 14.584, 4.384)	
improvement:								OR=3.417 (CI: 1.554,	
PGIC - minimally better	Dichotomous	78	27	(34.6%)	82	11	(13.4%)	7.514) OR=4.227 (CI: 2.152,	
PGIC - better (all grades)	Dichotomous	78	45	(57.7%)	82	20	(24.4%)	8.304) OR=3.201 (CI: 0.974,	
PGIC - moderately better	Dichotomous	78	11	(14.1%)	82	4	(4.9%)	10.524)	
PGIC - at least moderately better	Dichotomous	78	11	(14.1%)	82	4	(4.9%)	OR=3.201 (CI: 0.974, 10.524)	
PGIC - much better	Dichotomous	78	7	(9.0%)	82	5	(6.1%)	OR=1.518 (CI: 0.461, 5.001)	

				CIN 8% PATCH (90 ONLY)		NTROI MINUT	_ PATCH (30, 60 OR ES)		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous	75		6.1 (SD 1.6)	82		5.9 (SD 1.6)		
at least 30% pain reduction	Dichotomous from baseline to							OR=2.513 (CI: 1.208,	
(NRS) – 84d <sup>a</sup>	average f-u	75	27		82	15		5.224)	
_	Mean difference from baseline to							MD=-0.130 (CI: -0.245,	
Gracely pain score	average f-u	75		-0.17 (SD 0.41)	82		-0.04 (SD 0.31)	-0.015)	
	Mean difference from baseline to			/ <b></b>			()	MD=-3.090 (CI: -6.001,	
SF McGill <sup>a</sup>	average f-u	75		-6.29 (SD 9.75)	82		-3.2 (SD 8.77)	-0.179)	
2711 2111 3	Mean difference from baseline to			(00 - 0-)			0.07 (0.7.0.00)	MD=-2.710 (CI: -4.917,	
SF McGill sensory <sup>a</sup>	average f-u	75		-4.78 (SD 7.25)	82		-2.07 (SD 6.82)	-0.503)	
0	Percentage change from baseline	75		047 (00 00 0)	00		40.7 (OD 00.0)	MD=-14.000 (CI: -	
Summation of pain – 84d <sup>b</sup>	to average f-u	75		-24.7 (SD 30.6)	82		-10.7 (SD 30.8)	23.613, -4.387)	
patient-reported global improvement:								OR=2.347 (CI: 1.038,	
PGIC - minimally better	Dichotomous	75	20	(26.7%)	82	11	(13.4%)	5.306)	
1 GIC - Illillillially better	Dichotomous	75	20	(20.770)	02		(13.470)	OR=3.543 (CI: 1.798,	
PGIC - better (all grades)	Dichotomous	75	40	(53.3%)	82	20	(24.4%)	6.980)	
1 GIG Better (all grades)	Bioliotomous	, 0	40	(00.070)	02	20	(24.470)	OR=4.875 (CI: 1.539,	
PGIC - moderately better	Dichotomous	75	15	(20.0%)	82	4	(4.9%)	15.445)	
PGIC - at least moderately	2.0	. 0		(2010/0)	0_	•	( 6 / 6 /	OR=4.875 (CI: 1.539,	
better	Dichotomous	75	15	(20.0%)	82	4	(4.9%)	15.445)	
		-	-	/			/	OR=1.100 (CI: 0.305,	
PGIC - much better	Dichotomous	75	5	(6.7%)	82	5	(6.1%)	3.961)	

<sup>&</sup>lt;sup>a</sup> outcome from baseline to weeks 2 to 12

<sup>&</sup>lt;sup>b</sup> NRS; Baseline to week 2–12; least squares mean

			ITROL UTES)	PATCH (30, 60 OR 90		SAICIN JTES)	1 8% (30, 60 OR 90	_
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous  Mean difference from baseline to	82		5.9 (SD 1.6)	225		5.9 (SD 1.6)	MD=0.170 (CI: 0.079,
Gracely pain score <sup>a</sup>	average f-u Mean difference from baseline to	82		-0.04 (SD 0.31)	225		-0.21 (SD 0.47)	0.261) MD=5.130 (CI: 2.850,
SF McGill <sup>a</sup>	average f-u Mean difference from baseline to	82		-3.2 (SD 8.77)	225		-8.33 (SD 9.66)	7.410) MD=4.170 (CI: 2.412,
SF McGill sensory <sup>a</sup>	average f-u Percentage change from baseline	82		-2.07 (SD 6.82)	225		-6.24 (SD 7.31)	5.928) MD=12.100 (CI: 4.326,
Summation of pain – 84d <sup>b</sup> patient-reported global	to average f-u	82		-10.7 (SD 30.8)	225		-22.8 (SD 30.6)	19.874)
improvement: PGIC - minimally better	Dichotomous	82	11	(13.4%)	225	64	(28.4%)	OR=0.390 (CI: 0.194, 0.783)

PGIC - better (all grades)	Dichotomous	82	20	(24.4%)	225	125	(55.6%)	OR=0.258 (CI: 0.146, 0.456)
PGIC - moderately better	Dichotomous	82	4	(4.9%)	225	39	(17.3%)	OR=0.245 (CI: 0.085, 0.708)
PGIC - at least moderately better	Dichotomous	82	4	(4.9%)	225	39	(17.3%)	OR=0.245 (CI: 0.085, 0.708)
PGIC - much better	Dichotomous	82	5	(6.1%)	225	22	(9.8%)	OR=0.599 (CI: 0.219, 1.638)
major adverse events (defined as leading to withdrawal):				(2 22)			(* 213)	,
any major adverse event – 84d	Dichotomous	82	1	(1.2%)	225	2	(0.9%)	OR=1.377 (CI: 0.123, 15.386)
adverse events: Burning pain – 84d <sup>c</sup>	Dichotomous	82	2	(2.4%)	225	18	(8.0%)	OR=0.288 (CI: 0.065, 1.267)
0.				,			, ,	OR=0.384 (CI: 0.047,
depression – 84d	Dichotomous	82	1	(1.2%)	225	7	(3.1%)	3.174) OR=1.386 (CI: 0.339,
Diarrhoea – 84d	Dichotomous	82	3	(3.7%)	225	6	(2.7%)	5.675)
Dizziness – 84d	Dichotomous	82	0	(0.0%)	225	5	(2.2%)	OR=0.243 (CI: 0.013, 4.443)
Fatigue – 84d	Dichotomous	82	2	(2.4%)	225	4	(1.8%)	OR=1.381 (CI: 0.248, 7.687)
gastric upset – 84d <sup>d</sup>	Dichotomous	82	2	(2.4%)	225	0	(0.0%)	OR=14.006 (CI: 0.665, 294.862)
GI disorders – 84d <sup>e</sup>	Dichotomous	82	2	(2.4%)	225	0	(0.0%)	OR=14.006 (CI: 0.665, 294.862)
headache – 84d	Dichotomous	82	1	(1.2%)	225	9	(4.0%)	OR=0.296 (CI: 0.037, 2.376)
myalgia – 84d	Dichotomous	82	2	(2.4%)	225	4	(1.8%)	OR=1.381 (CI: 0.248, 7.687)
Nausea – 84d	Dichotomous	82	1	(1.2%)	225	5	(2.2%)	OR=0.543 (CI: 0.063, 4.720)
Pruritus – 84d <sup>f</sup>	Dichotomous	82	5	(6.1%)	225	39	(17.3%)	OR=0.310 (CI: 0.118, 0.815)
Rash – 84d	Dichotomous	82	1	(1.2%)	225	4	(1.8%)	OR=0.682 (CI: 0.075, 6.193)
site pain – 84d	Dichotomous	82	7	(8.5%)	225	47	(20.9%)	OR=0.353 (CI: 0.153, 0.818)
site papules – 84d	Dichotomous	82	1	(1.2%)	225	11	(4.9%)	OR=0.240 (CI: 0.031, 1.890)
sleep disturbance – 84d <sup>g</sup>	Dichotomous	82	1	(1.2%)	225	6	(2.7%)	OR=0.451 (CI: 0.053, 3.801)
urticaria – 84d <sup>h</sup>	Dichotomous	82	1	(1.2%)	225	5	(2.2%)	OR=0.543 (CI: 0.063, 4.720)
Vomiting – 84d	Dichotomous	82	2	(2.4%)	225	1	(0.4%)	OR=5.600 (CI: 0.501, 62.600)
anxiety – 84d	Dichotomous	82	1	(1.2%)	225	4	(1.8%)	OR=0.682 (CI: 0.075, 6.193)
treatment withdrawal:			2	, ,		1	, ,	OR=5.600 (CI: 0.501,
•				, ,			, ,	OR=1.100 (CI: 0.209,
Vomiting – 84d anxiety – 84d	Dichotomous	82	2	(2.4%)	225	1	(0.4%)	OR=5.600 (CI: 0.501, 62.600) OR=0.682 (CI: 0.075, 6.193) OR=5.600 (CI: 0.501, 62.600)

	lost to follow-up Death unrelated to treatment	Dichotomous Dichotomous	82 82	4 2 <sup>i</sup>	(4.9%) (2.4%)	225 225	13 1 <sup>j</sup>	(5.8%) (0.4%)	OR=0.836 (CI: 0.265, 2.642) OR=5.600 (CI: 0.501, 62.600)
	<sup>a</sup> outcome from baseline to weeks 2 to 12								
	b NRS; Baseline to week 2–12; least squares mean c application site burning d gastritis e gastroenteritis f application site pruritus insomnia h application site urticaria f drug overdose and coma (no more details provided) j sepsis (no other details provided)								
Comments	LOCF used for intention	-to-treat analyses							

Study	Simpson et al. (2010)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: participants with HIV DSP for over 3 months, confirmed by a neurologist with an average score of at least 4 on NPRS. Patients receiving neurotoxix antiretroviral drugs known to cause sensory neuropathy clinically similar to HIV DSP must have been on stable doses for over 3 months before screening.  Exclusion criteria: People taking SSRIs and antiepileptics were excluded Study length (days): 98 Intention-to-treat analysis? Yes
Participants	Total number of patients: 302 Number of males: 245 (81.1%) Underlying cause of neuropathic pain: HIV-related neuropathy Mean duration of NP (in months): 62.4 Baseline pain severity: 6.8 (NRS (average of arm means)) Mean age: 47.5
Intervention(s)	(1) Pregabalin flexi Intervention: pregabalin Length of treatment (weeks): 14 Fixed/flexible dose regimen: Flexible dose Mean dose: 385.7mg/d (SD: 160.3)

	Range: 150–600 Notes: 2-week dose adjustment phase (2) Placebo Intervention: placebo Length of treatment (weeks): 14 Fixed/flexible dose regimen: Flexible dose											
Concomitant treatments	Drug free baseline period? Yes (duration: 14d)  Concomitant pain treatment allowed? Yes (Doses of other pain medications had to be stable for 1 month before treatment and throughout the study, but those taking anti-epileptics or SNRIs were excluded)											
Outcomes			PRE	PREGABALIN FLEXI PLACEBO				)				
measures and effect sizes			N k		mean	N k		mean	Δ			
	pain score:  NRS/NRS Pain – 0d patient-reported global improvement:	Continuous	149		6.9 (SD 0.75)	150		6.7 (SD 0.75)				
	PGIC - worse (all grades) – 98d <sup>a</sup> PGIC - no change – 98d <sup>b</sup> PGIC - better (all grades) – 98d <sup>c</sup> major adverse events	Dichotomous Dichotomous Dichotomous		20	(4.0%) (13.2%) (82.8%)		12 38 101	(7.9%) (25.2%) (66.9%)	OR=0.479 (CI: 0.175, 1.312) OR=0.454 (CI: 0.250, 0.825) OR=2.380 (CI: 1.385, 4.091)			
	(defined as leading to withdrawal): any major adverse event – 98d	Dichotomous	151	7	(4.6%)	151	2	(1.3%)	OR=3.622 (CI: 0.740, 17.725)			
	adverse events: Dizziness – 98d Dry mouth – 98d euphoria – 98d Peripheral oedema – 98d Somnolence – 98d treatment withdrawal:	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	151 151	14 15	(19.2%) (9.3%) (9.9%) (6.0%) (23.2%)	151 151 151 151 151	1 1 7	(10.6%) (0.7%) (0.7%) (4.6%) (8.6%)	OR=2.006 (CI: 1.039, 3.871) OR=15.328 (CI: 1.989, 118.114) OR=16.544 (CI: 2.157, 126.917) OR=1.304 (CI: 0.473, 3.596) OR=3.203 (CI: 1.618, 6.340)			
	due to lack of efficacy – 98d unspecified/other reason – 98d withdrawal of consent – 98d	Dichotomous Dichotomous Dichotomous	151 151 151	18	(0.0%) (11.9%) (3.3%)	151 151 151	17	(2.0%) (11.3%) (3.3%)	OR=0.140 (Cl: 0.007, 2.734) OR=1.067 (Cl: 0.527, 2.159) OR=1.000 (Cl: 0.283, 3.528)			
	ITT/LOCF (last-observation carried forward) pain score: NRS/NRS Pain – 98d at least 30% pain reduction – 98d at least 50% pain reduction – 98d	Mean change Dichotomous Dichotomous		85 59	-2.88 (SD 0.75) (56.3%) (39.1%)	150 151 151		-2.63 (SD 0.75) (55.6%) (42.4%)	MD=-0.250 (CI: -0.420, -0.080) OR=1.027 (CI: 0.652, 1.618) OR=0.872 (CI: 0.551, 1.380)			
	Per Protocol pain score: NRS/NRS Pain – 56d <sup>e</sup> NRS/NRS Pain – 70d <sup>f</sup> NRS/NRS Pain – 98d <sup>f</sup>	Mean change Mean change Mean change	149 149 149		-3.33 -3.05 (SD 0.75) -3.2 (SD 0.95)	150 150 150		-2.53 -2.65 (SD 0.75) -2.7 (SD 1)	MD=-0.800 MD=-0.400 (CI: -0.570, -0.230) MD=-0.500 (CI: -0.721, -0.279)			
	<sup>a</sup> estimated from percentages and denominators <sup>b</sup> estimated from percentages and denominators <sup>c</sup> estimated from percentages and denominators <sup>d</sup> SE estimated from graph <sup>e</sup> unclear of patient numbers at this time point	; includes very much,						<u> </u>	<u> </u>			

	f estimated from graph; unclear of patient numbers at this time point - has been estimated
Comments	HADS score was measured and results said to be not significant but values weren't reported

Study	Sindrup et al. (1999)
Pain category	Peripheral pain
Study design	Country: Denmark Design: Crossover Inclusion criteria: 20-80 years with painful polyneuropathy for more than 6 months (diagnosis confirmed with electrophysiology tests - slowing of nerve conduction or reduction of amplitude of sensory action potential), at least 4 on a 0-10 NRS when off medication Exclusion criteria: causes other than polyneuropathy, previous allergic reaction to tramadol or other opioids, treatment with MAOI, pregnancy or breast feeding, epilepsy or severe terminal illness Study length (days): 63 Intention-to-treat analysis? Yes
Participants	Total number of patients: 45 Number of males: 27 (60.0%) Underlying cause of neuropathic pain: Polyneuropathy Mean duration of NP (in months): 1.5 Baseline pain severity: 6.66 (NRS (mean calculated from raw data provided in the study) (median neuropathy duration and age)) Mean age: 58
Intervention(s)	(1) Tramadol (oral) flexible dose Intervention: tramadol Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Range: 200–400 Notes: escalated from 200 to 400 mg/d or maximum tolerated (23 had 400 mg/d, 4 had 300 mg/d and 7 had 200 mg/d) (2) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Unclear (other neuropathic pain medications were slowly tapered off for a week before the drug-free period so it is assumed that patients were not permitted to be on other pain medications (though it was not clearly specified, nor were the actual pain medications which were not permitted to continue explicitly identified in the paper); paracetamol allowed as rescue analgesic (up to six 500 mg tablets))
Outcomes measures and	TRAMADOL (ORAL) FLEXIBLE DOSE PLACEBO

effect sizes			N	k	mean	N	c mean	- Δ			
	pain score:										
	NRS/NRS Pain – 0d <sup>a</sup>	Continuous	34		6.66 (SD 3.83)	34	6.66 (SD 3.83)				
	NRS/NRS Pain – 28d <sup>a</sup>	Continuous	34		4.53 (SD 2.7)	34	6.26 (SD 2.4)	MD=-1.730 (CI: -2.944, -0.516)			
	at least 30% pain reduction (NRS) – 28d <sup>b</sup>	Dichotomous	45	16	(35.6%)	45		OR=3.586 (CI: 1.250, 10.291)			
	at least 50% pain reduction (NRS) – 28d <sup>b</sup>	Dichotomous	45	11	(24.4%)	45		OR=4.529 (CI: 1.169, 17.547)			
	major adverse events				(= 11 170)		(=== ,=)	(0.1.11.00, 11.10.1.)			
	(defined as leading to withdrawal):										
	any major adverse event – 28d	Dichotomous	45	7	(15.6%)	45	2 (4.4%)	OR=3.961 (CI: 0.775, 20.233)			
	adverse events:			-	(121273)		- (,-)	( ,,			
	any adverse event – 28d	Dichotomous	45	28	(62.2%)	45	12 (26.7%)	OR=4.529 (CI: 1.852, 11.077)			
	Constipation – 28d	Dichotomous	45	10	(22.2%)	-	2 (4.4%)	OR=6.143 (CI: 1.262, 29.895)			
	Dizziness – 28d	Dichotomous	45	15	(33.3%)	45		OR=10.750 (CI: 2.288, 50.513)			
	Drowsiness – 28d	Dichotomous	45	19	(42.2%)	45	` ,	OR=7.490 (CI: 2.290, 24.496)			
	Dry mouth – 28d	Dichotomous	45	17	(37.8%)	45	` '	OR=3.946 (CI: 1.381, 11.274)			
	Nausea – 28d	Dichotomous	45	11	(24.4%)	45		OR=4.529 (CI: 1.169, 17.547)			
	urination difficulties – 28d°	Dichotomous	45	6	(13.3%)	45	1 (2.2%)	OR=6.769 (CI: 0.780, 58.723)			
	treatment withdrawal:	2.00.0	.0	Ū	(10.070)		(=:= /0)	0. v 0 00 (0 0 00, 00 <u>2</u> 0)			
	unspecified/other reason – 28d	Dichotomous	45	0	(0.0%)	45	1 <sup>d</sup> (2.2%)	OR=0.326 (CI: 0.013, 8.218)			
	lost to follow-up – 28d	Dichotomous	45	1	(2.2%)	45	` '	OR=3.067 (CI: 0.122, 77.324)			
	use of rescue medication:			-	(===75)		(0.0,0)	(			
	500 mg paracetamol tablets per week – 28de	Continuous	34		med: 0	34	med: 8				
	mean and SD calculated from raw data provided in the study calculated from raw data provided in the study calculated from raw data provided in the study participation in another trial during the last week										
Comments	authors reported the numbers needed to tre analysis seems to have been done but not a 1 week before the 1-week drug-free baselin	all patients rand									

Study	Sindrup et al. (2003)
Pain category	Peripheral pain
Study design	Country: Denmark Design: Crossover Inclusion criteria: 20-80 years old with symptoms compatible with polyneuropathy present for > 6 months (diagnosis confirmed with nerve conduction studies), median pain of at least 4 on 0-10 NRS for individual most bothersome pain symptom  Exclusion criteria: causes of pain other than polyneuropathy, previous allergic reaction to study drugs, treamtent with monoamine oxidase inhibotirs or quinidine, cardiac conduction disturbances or recent myocardial infarction, pregnancy, severe terminal illness, inability to sufficiently metabolise sparteine/debrisoquine (both study drugs are metabolised via this enzyme)  Study length (days): 77 Intention-to-treat analysis? Yes

Participants	Total number of patients: 40												
	Number of males: 23 (57.5%)												
	Underlying cause of neuropathic pain: Polyneuropathy												
	Mean duration of NP (in months): 51  Baseline pain severity: 7 (NRS (study population details such as mean duration of NP, age and sex are of the 32 patients completing the trial))												
		ly population details such as me	an durat	ion o	f NP, age and se	ex are c	of the	32 patients co	ompleting the trial))				
	Mean age: 56												
Intervention(s)	(1) Venlafaxine (112.5 mg/d)												
	Intervention: venlafaxine												
	Length of treatment (weeks): 4												
	Fixed/flexible dose regimen: Fixed d	ose											
	Set dose: 112.5mg/d												
	Notes: 37.5 mg in first week, 75 mg in second, 112.5 mg in last 2 weeks												
	(2) Imipramine (75 mg/d)												
	Intervention: imipramine												
	Length of treatment (weeks): 4												
	Fixed/flexible dose regimen: Fixed dose												
	Set dose: 75mg/d												
	Notes: 25 mg in first week, 50 mg in	second, 75 mg in last 2 weeks											
	(3) Placebo												
	Intervention: placebo												
	Length of treatment (weeks): 4												
	Fixed/flexible dose regimen: Fixed d	ose											
Concomitant	Drug free baseline period? Yes (dur	Drug free baseline period? Yes (duration: 7d)											
treatments	Concomitant pain treatment allowed? Unclear (other neuropathic pain medications were slowly tapered off for a week before the drug-free period so it is												
	assumed that patients were not perr	assumed that patients were not permitted to be on other pain medications (though it was not clearly specified, nor were the actual pain medications											
	which were not permitted to continue	e explicitly identified in the paper	r); parace	etam	ol allowed as res	scue an	alges	sic (up to six 5	00 mg tablets))				
Outcomes			VEN	NLAF	AXINE (112.5	IMI	PRAN	/INE (75					
measures and			MG		,		i/D)						
effect sizes			N	k	mean	N	k	mean	Δ				
	pain score:	Percentage change from							MD=3.000 (CI: -18.759,				
	Summation of pain – 28d <sup>a</sup>	baseline	32		80 (SD 38)	32		77 (SD 50)	24.759)				
	major adverse events												
	(defined as leading to withdrawal):	Diahatamaya	40	5 <sup>b</sup>	(40 50/)	40	1 <sup>c</sup>	(0.50/)	OD 5 574 (CI: 0 620 50 024)				
	any major adverse event – 28d adverse events:	Dichotomous	40	ວ	(12.5%)	40	1	(2.5%)	OR=5.571 (CI: 0.620, 50.031)				
	any adverse event – 28d	Dichotomous	40	20	(50.0%)	40	20	(50.0%)	OR=1.000 (CI: 0.416, 2.403)				
	Blurred vision – 28d	Dichotomous	40	1	(2.5%)		1	(2.5%)	OR=1.000 (CI: 0.060, 16.562)				
	Constipation – 28d	Dichotomous	40	1	(2.5%)	40		(0.0%)	OR=3.076 (CI: 0.122, 77.796)				
	Dizziness – 28d Drowsiness – 28d <sup>d</sup>	Dichotomous  Dichotomous	40 40	2 9	(5.0%)	40 40		(7.5%)	OR=0.649 (CI: 0.103, 4.110)				
		DICHOLOHIOUS	40	J	(22.5%)	40	J	(7.5%)	OR=3.581 (Cl: 0.891, 14.391)				
	Dry mouth – 28d	Dichotomous	40	4	(10.0%)	40	12	(30.0%)	OR=0.259 (CI: 0.075, 0.891)				

gastric upset – 28d headache – 28d Nausea – 28d	Dichotomous Dichotomous Dichotomous	40 40 40	3 2 6	(7.5%) (5.0%) (15.0%)	40 40 40	0 3 5	(0.0%) (7.5%) (12.5%)	OR=7.560 (CI: 0.378, 151.285) OR=0.649 (CI: 0.103, 4.110) OR=1.235 (CI: 0.344, 4.431)
palpitation – 28d	Dichotomous	40	0	(0.0%)	40	1	(2.5%)	OR=0.325 (CI: 0.013, 8.222) OR=5.260 (CI: 0.245,
urination difficulties – 28d <sup>e</sup> treatment withdrawal:	Dichotomous	40	2	(5.0%)	40	0	(0.0%)	113.106)
due to lack of efficacy – 28d unspecified/other reason – 28d use of rescue medication: 500 mg paracetamol tablets per week –	Dichotomous Dichotomous	40 40	0	(0.0%) (0.0%)	40 40	1 1 <sup>f</sup>	(2.5%) (2.5%)	OR=0.325 (CI: 0.013, 8.222) OR=0.325 (CI: 0.013, 8.222)
0d 500 mg paracetamol tablets per week –	Continuous	32		18 (SD 18)	32		18 (SD 18)	
28d	Continuous	32		9 (SD 16)	32		8 (SD 15)	MD=1.000 (CI: -6.599, 8.599)
ITT/LOCF (last-observation carried forward) pain score:								
NRS/NRS Pain – 0d <sup>g</sup> NRS/NRS Pain – 28d	Continuous Continuous	32 32		7 (SD 1.5) 5.3 (SD 2.7)	32 32		7 (SD 1.5) 5 (SD 2.7)	MD=0.300 (CI: -1.023, 1.623)

a summation of results from 4 different 0-10 NRS scales measuring of paroxysmal, constant, touch-evoked and pressure-evoked pain 1 nausea/dizziness, 1 tiredness/nausea, 1 nausea, 1 nausea/vomiting, 1 unknown

pain data was missingaverage at baseline of all patients in each arm

			VENLAFAXINE (112.5 MG/D)			ACE	ВО	_
		N	k	mean	N	k	mean	Δ
pain score:	Percentage change from						100 (SD	MD=-20.000 (CI: -40.673,
Summation of pain – 28d <sup>a</sup>	baseline	32		80 (SD 38)	32		46)	0.673)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 28d	Dichotomous	40	5 <sup>b</sup>	(12.5%)	40	$2^c$	(5.0%)	OR=2.714 (CI: 0.494, 14.901)
adverse events:								
any adverse event – 28d	Dichotomous	40	20	(50.0%)	40	14	(35.0%)	OR=1.857 (CI: 0.757, 4.558)
Blurred vision – 28d	Dichotomous	40	1	(2.5%)	40	0	(0.0%)	OR=3.076 (CI: 0.122, 77.796)
Constipation – 28d	Dichotomous	40	1	(2.5%)	40	2	(5.0%)	OR=0.487 (CI: 0.042, 5.599)
Dizziness – 28d	Dichotomous	40	2	(5.0%)	40	1	(2.5%)	OR=2.053 (CI: 0.179, 23.589)
Drowsiness – 28d <sup>a</sup>	Dichotomous	40	9	(22.5%)	40	3	(7.5%)	OR=3.581 (CI: 0.891, 14.391)
Dry mouth – 28d	Dichotomous	40	4	(10.0%)	40	3	(7.5%)	OR=1.370 (CI: 0.286, 6.559)
gastric upset – 28d	Dichotomous	40	3	(7.5%)	40	3	(7.5%)	OR=1.000 (CI: 0.189, 5.280)
headache – 28d	Dichotomous	40	2	(5.0%)	40	3	(7.5%)	OR=0.649 (CI: 0.103, 4.110)
Nausea – 28d	Dichotomous	40	6	(15.0%)	40	1	(2.5%)	OR=6.882 (CI: 0.789, 60.060)
palpitation – 28d	Dichotomous	40	0	(0.0%)	40	1	(2.5%)	OR=0.325 (CI: 0.013, 8.222)
urination difficulties – 28d <sup>e</sup>	Dichotomous	40	2	(5.0%)	40	0	(0.0%)	OR=5.260 (CI: 0.245, 113.106)
treatment withdrawal:								
due to lack of efficacy – 28d	Dichotomous	40	0	(0.0%)	40	1	(2.5%)	OR=0.325 (CI: 0.013, 8.222)

skin rash tiredness'

e 'disturbed micturition'

unspecified/other reason – 28d use of rescue medication:	Dichotomous	40	0	(0.0%)	40 0	(0.0%)	OR=1.000 (CI: 0.019, 51.627)
500 mg paracetamol tablets per week – 0d 500 mg paracetamol tablets per week –	Continuous	32		18 (SD 18)	32	18 (SD 18)	MD=-4.000 (CI: -12.089,
28d	Continuous	32		9 (SD 16)	32	13 (SD 17)	4.089)
ITT/LOCF (last-observation carried forward) pain score:							
NRS/NRS Pain – 0d <sup>f</sup>	Continuous	32		7 (SD 1.5)	32	7 (SD 1.5) 6.3 (SD	
NRS/NRS Pain – 28d	Continuous	32		5.3 (SD 2.7)	32	2.1)	MD=-1.000 (CI: -2.185, 0.185)

<sup>&</sup>lt;sup>a</sup> summation of results from 4 different 0-10 NRS scales measuring of paroxysmal, constant, touch-evoked and pressure-evoked pain <sup>b</sup> 1 nausea/dizziness, 1 tiredness/nausea, 1 nausea, 1 nausea/vomiting, 1 unknown <sup>c</sup> 1 nausea/diarrhoea, 1 vomiting <sup>d</sup> 'tiredness'

average at baseline of all patients in each arm

		IMI	PRAN	IINE (75 MG/D)	PL	ACE	ВО	
		N	k	mean	N	k	mean	Δ
pain score:								
Summation of pain – 28d <sup>a</sup>	Percentage change from baseline	32		77 (SD 50)	32		100 (SD 46)	MD=-23.000 (CI: -46.540, 0.540)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 28d	Dichotomous	40	1 <sup>b</sup>	(2.5%)	40	$2^c$	(5.0%)	OR=0.487 (CI: 0.042, 5.599)
adverse events:								
any adverse event – 28d	Dichotomous	40	20	(50.0%)	40	14	(35.0%)	OR=1.857 (CI: 0.757, 4.558)
Blurred vision – 28d	Dichotomous	40	1	(2.5%)	40	0	(0.0%)	OR=3.076 (CI: 0.122, 77.796)
Constipation – 28d	Dichotomous	40	0	(0.0%)	40	2	(5.0%)	OR=0.190 (CI: 0.009, 4.088)
Dizziness – 28d	Dichotomous	40	3	(7.5%)	40		(2.5%)	OR=3.162 (CI: 0.315, 31.775)
Drowsiness – 28d <sup>a</sup>	Dichotomous	40	3	(7.5%)	40		(7.5%)	OR=1.000 (CI: 0.189, 5.280)
Dry mouth – 28d	Dichotomous	40	12	(30.0%)	40	3	(7.5%)	OR=5.286 (CI: 1.361, 20.534)
gastric upset – 28d	Dichotomous	40	0	(0.0%)	40		(7.5%)	OR=0.132 (CI: 0.007, 2.647)
headache – 28d	Dichotomous	40	3	(7.5%)	40	_	(7.5%)	OR=1.000 (CI: 0.189, 5.280)
Nausea – 28d	Dichotomous	40	5	(12.5%)	40	1	(2.5%)	OR=5.571 (CI: 0.620, 50.031)
palpitation – 28d	Dichotomous	40	1	(2.5%)	40		(2.5%)	OR=1.000 (CI: 0.060, 16.562)
urination difficulties – 28d <sup>e</sup>	Dichotomous	40	0	(0.0%)	40	0	(0.0%)	OR=1.000 (CI: 0.019, 51.627)
treatment withdrawal:								
due to lack of efficacy – 28d	Dichotomous	40	1	(2.5%)	40	1	(2.5%)	OR=1.000 (CI: 0.060, 16.562)
unspecified/other reason – 28d	Dichotomous	40	1 <sup>'</sup>	(2.5%)	40	0	(0.0%)	OR=3.076 (CI: 0.122, 77.796)
use of rescue medication:								
500 mg paracetamol tablets per week – 0d	Continuous	32		18 (SD 18)	32		18 (SD 18)	
500 mg paracetamol tablets per week – 28d	Continuous	32		8 (SD 15)	32		13 (SD 17)	MD=-5.000 (CI: -12.855, 2.855)
ITT/LOCF (last-observation carried forward)								
pain score:								
NRS/NRS Pain – 0d <sup>g</sup>	Continuous	32		7 (SD 1.5)	32		7 (SD 1.5)	
NRS/NRS Pain – 28d	Continuous	32		5 (SD 2.7)	32		6.3 (SD 2.1)	MD=-1.300 (CI: -2.485, -0.115)
<sup>a</sup> summation of results from 4 different 0-10 NR	S scales measuring of paroxysmal, c	onsta	nt, toı	uch-evoked and p	ress	ure-e	evoked pain	

CG173: Neuropathic pain – pharmacological management appendix E

e 'disturbed micturition'

	b skin rash c 1 nausea/diarrhoea, 1 vomiting d 'tiredness' e 'disturbed micturition' f pain data was missing g average at baseline of all patients in each arm
Comments	an additional 3 patients have missing data: 2 were lost to follow-up and 1 had non compliance and went to the hospital for a urinary tract infection but it was not clear what treatment these patients were receiving at the time; authors state that the study was stopped before the stipulated number of patients had completed te trial because the study drug had expired and new supplies were not available; ITT analysis seems to have been done but not all patients randomised were included in the analysis; concomitant drugs were slowly tapered over a period of 1 week before the 1-week drug-free baseline period

Study	Smith et al. (2005)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: USA  Design: Crossover Inclusion criteria: Lower limb amputation at least 6 months prior, average pain rating in the last month of at least 3 on the NRS (0-10), agreement with the medication schedules and protocols, ability to read and speak English  Exclusion criteria: Under the age of 18 years, taking other antiepileptic medication or cimetindine, consuming more than two alcoholic drinks per day, pregnant or breastfeeding, high serum creatinine clearance level or low estimated creatinine clearance in a screening serum creatinine, kidney disease.  Study length (days): 119  Intention-to-treat analysis? No
Participants	Total number of patients: 24 Number of males: 18 (75.0%) Underlying cause of neuropathic pain: Phantomb limb pain Mean duration of NP (in months): not reported Baseline pain severity: 4.38 (NRS) Mean age: 52.1 (SD: 15.5)
Intervention(s)	(1) Gabapentin Intervention: gabapentin Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose Median dose: 3600mg/d Range: 300–3600 Notes: Dose increases followed a standardised titration schedule (300mg increases every 2 to 3 days) unless the pain rating was 0 or side effects were uncomfortable.  (2) Placebo Intervention: placebo

atments	Concomitant pain treatment allower etc.)	r ed? Unclear (use of o	other an	itiepileptic medication	or cimeti	ndine prohibited but	unclear about anti-depressants, op
utcomes			GAE	BAPENTIN	PLAC	ЕВО	
asures and ect sizes			N	k mean	N I	c mean	_ Δ
	pain score:						
	SF McGill Affective – 0d	Continuous	24	3.17 (SD 2.81)	24	3.61 (SD 3.35)	
	SF McGill Affective – 42d	Continuous	24	3.15 (SD 3.45)	24	2.91 (SD 3.42)	MD=0.240 (CI: -1.704, 2.184)
	SF McGill sensory – 0d	Continuous	24	11.7 (SD 7.87)	24	12.5 (SD 7.87)	
	SF McGill sensory – 42d patient-reported improvement in	Continuous	24	10.7 (SD 6.84)	24	10.4 (SD 8.78)	MD=0.360 (CI: -4.093, 4.813)
	daily physical and emotional						
	functioning, including sleep:						
	CES-D – 0d	Continuous	24	17.5 (SD 10.7)	24	18.6 (SD 12.7)	
	CES-D – 42d	Continuous	24	13.7 (SD 10.2)	24	14.8 (SD 9.82)	MD=-1.070 (CI: -6.726, 4.586)
	BPI (modified) – 0d	Continuous	24	30.5 (SD 22)	24	33.4 (SD 25.2)	
	BPI (modified) – 42d	Continuous	24	23.6 (SD 19.4)	24	25.4 (SD 19.3)	MD=-1.770 (CI: -12.715, 9.175)
	Residual (or stump) limb pain						
	pain score:						
	NRS/NRS Pain – 0d	Continuous	24	3.63 (SD 2.75)	24	3.21 (SD 2.43)	
	NRS/NRS Pain – 42d	Continuous	24	2.26 (SD 1.94)	24	2.79 (SD 2.28)	MD=-0.530 (CI: -1.728, 0.668)
	NRS/NRS Pain – 42d	Mean change	24	-1.22 (SD 2.56)	24	-0.74 (SD 1.94)	MD=-0.480 (CI: -1.765, 0.805)
	Phantom limb pain						
	pain score:						
	NRS/NRS Pain – 0d	Continuous	24	4.38 (SD 2.57)	24	4.09 (SD 2.24)	
	NRS/NRS Pain – 42d	Continuous	24	3.43 (SD 2.42)	24	3.6 (SD 2.67)	MD=-0.170 (CI: -1.612, 1.272)
	NRS/NRS Pain – 42d	Mean change	24	-0.94 (SD 1.98)	24	-0.49 (SD 2.2)	MD=-0.450 (CI: -1.634, 0.734)

Study	Stacey et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA, Germany, Italy, Spain, UK Design: Parallel
	Inclusion criteria: PHN for at least 3 months after the herpes zoster episode, with a pain score of at least 40mm on VAS 100mm, average daily pain

	rating of at least 4 on NRS (11 point)  Exclusion criteria: Other types of severe pain that might confound assesment, previous neurolytic or neurosurgical therapy for PHN, creatinine clearance less than 60mL/min, women who were pregnant or lactating.  Study length (days): 28  Intention-to-treat analysis? Yes
Participants	Total number of patients: 269 Number of males: 150 (55.8%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 30.4 Baseline pain severity: 6.5 (NRS (average of arm means)) Mean age: 67.4
Intervention(s)	(1) Pregabalin flexible dose (150-600mg/d) Intervention: pregabalin Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Range: 150–600 Notes: 150 mg/d for first 3 days with subsequent dose adjustment up to a maximum of 600 mg/d by the end of week 2; 45 % were titrated to a maximum daily dose of 600 mg/d (during the first 10 days, the mean daily dose was 206.1 mg and during the last 2 weeks it was 396.1 mg) (2) Pregabalin (300mg/d) Intervention: pregabalin Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d Notes: during the first 10 days, the mean daily dose was 293.6 mg and during the last 2 weeks it was 295.4 mg (3) placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (Some concomitant pain treatments that had stable doses for at least 30 days prior to baseline and remained stable throughout trial; however gabapentin (with 3 day taper of medication before randomisation), oxycodone (or other medications including oxycodone), acupunture, local and topic anesthetics, nerve blocks, potential retinotoxins and musculoskeletal relaxants were not permitted)
Outcomes measures and effect sizes	PREGABALIN FLEXIBLE DOSE (150- PREGABALIN (300MG/D)
enect sizes	N k mean Δ
	pain score: at least 30% pain reduction (NRS) – 28d Dichotomous 91 64 (70.3%) 88 51 (58.0%) OR=1.720 (CI: 0.927, 3.189)

at least 50% pain reduction (NRS) –	Diobotomous	91	40	(46.20()	0.0	25	(20.00/)	OD 4 200 (Ch 0 747 2 240)
28d	Dichotomous Mean	91	42	(46.2%)	88	35	(39.8%)	OR=1.298 (CI: 0.717, 2.349)
SF McGill – 28d	change	91		-37.6	88		-33.2	MD=-4.360
major adverse events (defined as leading to withdrawal):								
any major adverse event – 28d	Dichotomous	91	4	(4.4%)	88	16	(18.2%)	OR=0.207 (CI: 0.066, 0.646)
adverse events:				, ,			,	,
amnesia	Dichotomous	91	0	(0.0%)	88	2	(2.3%)	OR=0.189 (CI: 0.009, 3.995)
balance disorder	Dichotomous	91	3	(3.3%)	88	4	(4.5%)	OR=0.716 (CI: 0.156, 3.295)
								OR=9.103 (CI: 0.483,
Blurred vision	Dichotomous	91	4	(4.4%)	88	0	(0.0%)	171.612)
Confusion	Dichotomous	91	3	(3.3%)	88	3	(3.4%)	OR=0.966 (CI: 0.190, 4.919)
Dizziness – 28d	Dichotomous	91	22	(24.2%)	88	27	(30.7%)	OR=0.720 (CI: 0.372, 1.394)
euphoria – 28d	Dichotomous	91	2	(2.2%)	88	2	(2.3%)	OR=0.966 (CI: 0.133, 7.014)
Fatigue – 28d	Dichotomous	91	8	(8.8%)	88	5	(5.7%)	OR=1.600 (CI: 0.503, 5.094)
lethargy	Dichotomous	91	0	(0.0%)	88	2	(2.3%)	OR=0.189 (CI: 0.009, 3.995)
Peripheral oedema – 28d	Dichotomous	91	3	(3.3%)	88	3	(3.4%)	OR=0.966 (CI: 0.190, 4.919)
Somnolence – 28d	Dichotomous	91	10	(11.0%)	88	17	(19.3%)	OR=0.516 (CI: 0.222, 1.199)
vertigo	Dichotomous	91	4	(4.4%)	88	2	(2.3%)	OR=1.977 (CI: 0.353, 11.078)
Weight gain – 28d	Dichotomous	91	8	(8.8%)	88	4	(4.5%)	OR=2.024 (CI: 0.587, 6.980)
treatment withdrawal:								
due to lack of efficacy - 28d	Dichotomous	91	1	(1.1%)	88	0	(0.0%)	OR=2.934 (CI: 0.118, 72.985)
unspecified/other reason – 28d	Dichotomous	91	0	(0.0%)	88	2 <sup>a</sup>	(2.3%)	OR=0.189 (CI: 0.009, 3.995)

<sup>&</sup>lt;sup>a</sup> for both patients, authors state: subject defaulted (not clear what this means)

		PREG	ABALIN FLE	EXIBLE DOSE (150-600MG/D)	PL	ACE	ВО	
		N	k	mean	N	k	mean	Δ
pain score:								
at least 30% pain reduction (NRS) – 28d	Dichotomous	91	64	(70.3%)	90	28	(31.1%)	OR=5.249 (CI: 2.785, 9.891)
at least 50% pain reduction (NRS) – 28d	Dichotomous	91	42	(46.2%)	90	17	(18.9%)	OR=3.681 (CI: 1.884, 7.190)
SF McGill – 28d	Mean change	91		-37.6	90		-21.2	MD=-16.330
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 28d	Dichotomous	91	4	(4.4%)	90	4	(4.4%)	OR=0.989 (CI: 0.240, 4.080)
adverse events:								
amnesia	Dichotomous	91	0	(0.0%)	90	0	(0.0%)	OR=0.989 (CI: 0.019, 50.385)
balance disorder	Dichotomous	91	3	(3.3%)	90	0	(0.0%)	OR=7.158 (CI: 0.364, 140.597)
Blurred vision	Dichotomous	91	4	(4.4%)	90	0	(0.0%)	OR=9.309 (CI: 0.494, 175.461)
Confusion	Dichotomous	91	3	(3.3%)	90	0	(0.0%)	OR=7.158 (CI: 0.364, 140.597)
Dizziness – 28d	Dichotomous	91	22	(24.2%)	90	6	(6.7%)	OR=4.464 (CI: 1.714, 11.626)
euphoria – 28d	Dichotomous	91	2	(2.2%)	90	0	(0.0%)	OR=5.056 (CI: 0.239, 106.798)
Fatigue – 28d	Dichotomous	91	8	(8.8%)	90	1	(1.1%)	OR=8.578 (CI: 1.050, 70.070)
lethargy	Dichotomous	91	0	(0.0%)	90	0	(0.0%)	OR=0.989 (CI: 0.019, 50.385)
Peripheral oedema – 28d	Dichotomous	91	3	(3.3%)	90	1	(1.1%)	OR=3.034 (CI: 0.310, 29.731)
Somnolence – 28d	Dichotomous	91	10	(11.0%)	90	2	(2.2%)	OR=5.432 (CI: 1.155, 25.539)
vertigo	Dichotomous	91	4	(4.4%)	90	0	(0.0%)	OR=9.309 (CI: 0.494, 175.461)
Weight gain – 28d	Dichotomous	91	8	(8.8%)	90	0	(0.0%)	OR=18.425 (CI: 1.047, 324.196
treatment withdrawal:								
due to lack of efficacy – 28d	Dichotomous	91	1	(1.1%)	90	4	(4.4%)	OR=0.239 (CI: 0.026, 2.180)

			PRE	GABAL	IN (300MG/D)	PL	ACEE	30	
			N	k	mean	N	k	mean	Δ
pi	ain score:								
	at least 30% pain reduction (NRS) – 28d	Dichotomous	88	51	(58.0%)	90	28	(31.1%)	OR=3.052 (CI: 1.650, 5.646)
	at least 50% pain reduction (NRS) – 28d	Dichotomous	88	35	(39.8%)	90	17	(18.9%)	OR=2.836 (CI: 1.438, 5.591)
	SF McGill – 28d	Mean change	88		-33.2	90		-21.2	MD=-11.970
	ajor adverse events								
(0	lefined as leading to withdrawal):								
	any major adverse event – 28d	Dichotomous	88	16	(18.2%)	90	4	(4.4%)	OR=4.778 (CI: 1.529, 14.932)
a	dverse events:								
	amnesia	Dichotomous	88	2	(2.3%)	90		(0.0%)	OR=5.231 (CI: 0.248, 110.529
	balance disorder	Dichotomous	88	4	(4.5%)	90	0	(0.0%)	OR=9.639 (CI: 0.511, 181.739
	Blurred vision	Dichotomous	88	0	(0.0%)	90	0	(0.0%)	OR=1.023 (CI: 0.020, 52.102)
	Confusion	Dichotomous	88	3	(3.4%)	90	0	(0.0%)	OR=7.409 (CI: 0.377, 145.567
	Dizziness – 28d	Dichotomous	88	27	(30.7%)	90	6	(6.7%)	OR=6.197 (CI: 2.411, 15.928)
	euphoria – 28d	Dichotomous	88	2	(2.3%)	90		(0.0%)	OR=5.231 (CI: 0.248, 110.529
	Fatigue – 28d	Dichotomous	88	5	(5.7%)	90	1	(1.1%)	OR=5.361 (CI: 0.614, 46.852)
	lethargy	Dichotomous	88	2	(2.3%)	90		(0.0%)	OR=5.231 (CI: 0.248, 110.529
	Peripheral oedema – 28d	Dichotomous	88	3	(3.4%)	90		(1.1%)	OR=3.141 (CI: 0.320, 30.790)
	Somnolence – 28d	Dichotomous	88	17	(19.3%)	90	2	(2.2%)	OR=10.535 (CI: 2.355, 47.128
	vertigo	Dichotomous	88	2	(2.3%)	90	0	(0.0%)	OR=5.231 (CI: 0.248, 110.529
	Weight gain – 28d	Dichotomous	88	4	(4.5%)	90	0	(0.0%)	OR=9.639 (CI: 0.511, 181.739
tr	eatment withdrawal:								
	due to lack of efficacy – 28d	Dichotomous	88	0	(0.0%)	90	4	(4.4%)	OR=0.109 (CI: 0.006, 2.048)
	unspecified/other reason – 28d	Dichotomous	88	2 <sup>a</sup>	(2.3%)	90	$7^b$	(7.8%)	OR=0.276 (CI: 0.056, 1.366)

Study	Tandan et al. (1992)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: PDN of at least moderate intensity of pain and minimum duration of 3 months, aged between 18 to 85 years, daily pain of at least moderate intensity, good long-term control of any associated systematic disease, intolerance or unresponsive to conventional treatments  Exclusion criteria: pregnancy, lactating women, patients with other topical medication at the site of application, those in whom the pain was deemed likely to be of pscyhological rather than an organic basis  Study length (days): 56

	Intention-to-treat analysis? No												
Participants	Total number of patients: 22												
	Number of males: 11 (50.0%)												
	Underlying cause of neuropathic	pain: Painful d	liabetic	neuropa	ithv								
	Mean duration of NP (in months)	•			···· <b>·</b>								
	Baseline pain severity: 81.1 (VAS		rm moo	nc))									
	· · · · · · · · · · · · · · · · · · ·	o (average or a	1111111116	1115))									
	Mean age: 54.2												
Intervention(s)	(1) 0.075% capsaicin applied to	site 4 times per	r day										
	Intervention: capsaicin cream												
	Length of treatment (weeks): 8												
	Fixed/flexible dose regimen: Fixed	ed dose											
	(2) Placebo (vehicle)												
	Intervention: placebo												
	Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed	ad dosa											
	Tixed/flexible dose regimen. Tixe	50 003C											
			Drug free baseline period? No										
	·												
	Concomitant pain treatment allow	wed? Yes (othe	er topica	l medic	ations not allowed; appears that they r	recorde	d whether or no	t patients had any change					
	·	wed? Yes (other analgesics) at	er topica follow-u	l medic up point	ations not allowed; appears that they r s)	recorde	d whether or no	t patients had any change					
Concomitant treatments  Outcomes measures and	Concomitant pain treatment allow	wed? Yes (other analgesics) at	follow-u	up point	ations not allowed; appears that they rs)  AICIN APPLIED TO SITE 4 TIMES PER	PLAC (VEH	CEBO	t patients had any change					
Outcomes measures and	Concomitant pain treatment allow	wed? Yes (other analgesics) at	follow-u	up point	s)	PLAC (VEH	CEBO	t patients had any change t					
treatments Outcomes	Concomitant pain treatment allow	wed? Yes (other analgesics) at	0.075% DAY	up point	S) AICIN APPLIED TO SITE 4 TIMES PER	PLAC (VEH	CEBO ICLE)						
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly	analgesics) at	0.075% DAY	up point	S) AICIN APPLIED TO SITE 4 TIMES PER	PLAC (VEH	CEBO ICLE)	Δ					
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly pain score:  VAS – 0d	canalgesics) at Continuous Mean	0.075% DAY N	up point	MICIN APPLIED TO SITE 4 TIMES PER mean 75.9	PLAC (VEH N k	EEBO ICLE) mean	Δ MD=-11.900 (CI: -25.935,					
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly pain score:  VAS – 0d  VAS – 56d	analgesics) at	0.075% DAY N	up point	AICIN APPLIED TO SITE 4 TIMES PER	PLAC (VEH	CEBO ICLE) mean	Δ					
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly pain score:  VAS – 0d  VAS – 56d patient-reported global improvement:	canalgesics) at Continuous Mean change	0.075% DAY N 10	up point	mean 75.9 -16 (SD 18.3)	PLAC (VEH 10 10 10 10 10 10 10 10 10 10 10 10 10	EBO ICLE) mean  86.3 -4.1 (SD 13.3)	Δ MD=-11.900 (CI: -25.935, 2.135)					
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly pain score:  VAS – 0d  VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d	Continuous Mean change	0.075% DAY N 10 10	k	mean 75.9 -16 (SD 18.3) (9.1%)	PLAC (VEH N k 10 10 11 0	86.3 -4.1 (SD 13.3)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81					
Outcomes measures and	pain score: VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d PGIC - no change – 56d	Continuous Mean change	0.075% DAY N 10 10	k  1 2	MICIN APPLIED TO SITE 4 TIMES PER  mean  75.9  -16 (SD 18.3)  (9.1%) (18.2%)	PLAC (VEH N k 10 10 11 8	86.3 -4.1 (SD 13.3)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81 OR=0.083 (CI: 0.011, 0.633					
Outcomes measures and	Concomitant pain treatment allow ongoing medications (particuarly pain score:  VAS – 0d  VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d	Continuous Mean change	0.075% DAY N 10 10	k	mean 75.9 -16 (SD 18.3) (9.1%)	PLAC (VEH N k 10 10 11 8	86.3 -4.1 (SD 13.3)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81					
Outcomes measures and	pain score: VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d PGIC - no change – 56d PGIC - better (all grades) – 56d major adverse events (defined as leading to withdrawal):	Continuous Mean change Dichotomous Dichotomous	0.075% DAY N 10 10 11 11	k  1 2 7	MICIN APPLIED TO SITE 4 TIMES PER  mean  75.9  -16 (SD 18.3)  (9.1%) (18.2%) (63.6%)	PLAC (VEH 10 10 11 8 11 2	86.3 -4.1 (SD 13.3) (0.0%) (72.7%) (18.2%)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81 OR=0.083 (CI: 0.011, 0.633 OR=7.875 (CI: 1.105, 56.12					
Outcomes measures and	pain score: VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d PGIC - better (all grades) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d	Continuous Mean change	0.075% DAY N 10 10	k  1 2	MICIN APPLIED TO SITE 4 TIMES PER  mean  75.9  -16 (SD 18.3)  (9.1%) (18.2%)	PLAC (VEH 10 10 11 8 11 2	86.3 -4.1 (SD 13.3)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81 OR=0.083 (CI: 0.011, 0.633					
Outcomes measures and	pain score: VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d PGIC - no change – 56d PGIC - better (all grades) – 56d major adverse events (defined as leading to withdrawal):	Continuous Mean change Dichotomous Dichotomous	0.075% DAY N 10 10 11 11 11	k  1 2 7	MICIN APPLIED TO SITE 4 TIMES PER  mean  75.9  -16 (SD 18.3)  (9.1%) (18.2%) (63.6%)	PLAC (VEH) N k 10 10 11 8 11 2	86.3 -4.1 (SD 13.3) (0.0%) (72.7%) (18.2%)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81 OR=0.083 (CI: 0.011, 0.633 OR=7.875 (CI: 1.105, 56.12 OR=3.286 (CI: 0.120, 89.81					
Outcomes measures and	pain score: VAS – 56d patient-reported global improvement: PGIC - worse (all grades) – 56d PGIC - no change – 56d PGIC - better (all grades) – 56d major adverse events (defined as leading to withdrawal): any major adverse event – 56d adverse events:	Continuous Mean change  Dichotomous Dichotomous Dichotomous	0.075% DAY N 10 10 11 11 11	k  1 2 7	MCIN APPLIED TO SITE 4 TIMES PER  mean  75.9 -16 (SD 18.3)  (9.1%) (18.2%) (63.6%)	PLAC (VEH N k 10 10 11 2 11 0 11 2	86.3 -4.1 (SD 13.3) (0.0%) (72.7%) (18.2%)	Δ MD=-11.900 (CI: -25.935, 2.135) OR=3.286 (CI: 0.120, 89.81 OR=0.083 (CI: 0.011, 0.633 OR=7.875 (CI: 1.105, 56.12					

Study	Tasmuth et al. (2002)						
Pain category	Peripheral pain						
Study design	Country: Finland Design: Crossover Inclusion criteria: Postoperative moderate to severe upper arm in an area with sensory disturbances Exclusion criteria: relapse or metastases of cancer, oxidase inhibitors or drugs that are significantly met Study length (days): 70 Intention-to-treat analysis? No	clinically	overt cardiac, renal or he	epatic dis	seas	se, use of concomitant	
Participants	Total number of patients: 15  Number of males: not reported  Underlying cause of neuropathic pain: Post-surgica  Mean duration of NP (in months): not reported  Baseline pain severity: 49 (current pain intensity on  (55 is median age))  Mean age: 55	•	er surgery for cancer				
Intervention(s)	(1) Venlafaxine flexible dose Intervention: venlafaxine Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Range: 18.75–75 Notes: dose escalation from 18.75 mg to 75 mg/d (*2) placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose	11 had th	e maximum dosage)				
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Unclear (patie diaries)	ents were	asked to refrain from tal	king othe	r pa	in medications but any	y used were reported in pain
Outcomes		VENLA	FAXINE FLEXIBLE DOSE	PL	ACE	BO	
measures and effect sizes		N k	mean	N	k	mean	Δ
	pain score:  VAS – 0d <sup>a</sup> Continuous  VAS – 28d  Continuous  VRS – 0d <sup>b</sup> Continuous  VRS – 28d  Continuous	13 11 13 11	med: 49 [rng 20–75] med: 0 [rng 0–35] med: 4 [rng 3–5] med: 0 [rng 0–4]	13 11 13 11		med: 49 [rng 20–75] med: 0.6 [rng 0–70] med: 4 [rng 3–5] med: 1 [rng 0–2]	

	pain relief: VAS/VASpr – 28d	Continuous	11		med: 42 [rng 0–100]	11	med: 25 [rng 0–100]	
	VRS/VRSpr – 28d <sup>c</sup> patient-reported improvement in daily physical and emotional	Continuous	11		med: 1.5 [rng 0–4]	11	med: 1 [rng 0–3]	
	functioning, including sleep:  BDI – 0d	Continuous	11		med: 10 [rng 1-28]	13	med: 10 [rng 1-28]	
	BDI – 0d BDI – 28d	Continuous	11		med: 7 [rng 1–20]	11	med: 7 [rng 1–20]	
	major adverse events (defined as leading to withdrawal):	Committee	• •		med. / [mg / ee]	• •	mea. r [mg : rr]	
	any major adverse event – 28d adverse events:	Dichotomous	15	1 <sup>d</sup>	(6.7%)	15 (	(0.0%)	OR=3.207 (CI: 0.121, 85.203)
	Constipation – 28d	Dichotomous	15	4	(26.7%)	15 3	(20.0%)	OR=1.455 (CI: 0.264, 8.009)
	Drowsiness – 28d <sup>e</sup>	Dichotomous	15	9	(60.0%)		0 (66.7%)	OR=0.750 (CI: 0.169, 3.327)
	Dry mouth – 28d	Dichotomous	15	8	(53.3%)	15 (	( )	OR=1.714 (CI: 0.403, 7.292)
	headache – 28d	Dichotomous	15	6	(40.0%)	15 4	(=0 /0)	OR=1.833 (CI: 0.392, 8.566)
	loss of appetite – 28d	Dichotomous	15	3	(20.0%)	15 4	(26.7%)	OR=0.688 (CI: 0.125, 3.786)
	Nausea – 28d	Dichotomous	15	4	(26.7%)	15 4	()	OR=1.000 (CI: 0.198, 5.045)
	nightmares – 28d	Dichotomous	15	2	(13.3%)	15 4	(==:: /=/	OR=0.423 (CI: 0.065, 2.766)
	palpitation – 28d	Dichotomous	15	3	(20.0%)	15	(=====	OR=1.000 (CI: 0.167, 5.985)
	urination difficulties – 28d	Dichotomous	15	2	(13.3%)	15 2	(13.3%)	OR=1.000 (CI: 0.122, 8.210)
	<ul> <li>a mean of patients in both groups</li> <li>b 8 point; mean of patients in both gro</li> <li>c 5 point</li> <li>d due to acute nausea, sweating and</li> <li>e 'tired'</li> </ul>		e first (	day d	f treatment			
Comments	5 patients had modified radical mand 5 had pain in the breast scar patient withdrew due to non comp	region (4 of these liance but it was	e 5 pat	ients	and 6 of the 8 who had	pain in the	e ipsilateral arm had pos	

Study	Thienel et al. (2004)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: Adults with diabetes and bilateral and simultaneous symptoms of painful peripheral polyneuropathy for at least 6 months. Anti-diabetic regimens had to be stable for at least 3 months before study entry. HbA1c less than 11% and creatinine clearance of at least 60ml/min  Exclusion criteria: Polyneuropathy due to causes other than diabetes, diabetic ulceration of the extremities, non traumatic amputation, hospitalisation within the last 3 months for hyper/hypoglycaemia while adherant to appropriate diabetic therapy, history of unstable medical disease, progressive or degenerative neurological disorders, history of hepatitis or HIV, mental impairment affecting participation, alcohol or drug abuse, malignacy within the past 5 years, nephrolitiasis, previous participation in trial in last 30 days  Study length (days): 140  Intention-to-treat analysis? No
Participants	Total number of patients: 1269

	Number of males: 736 (58.0%)						
	Underlying cause of neuropathic pain: Pai	nful diabetic neu	ropathy				
	Mean duration of NP (in months): 100.8						
	Baseline pain severity: 58 (VAS (average	of arm means))					
	Mean age: 58 (SD: 10)						
Intervention(s)	(1) topiramate 100mg/d Intervention: topiramate Length of treatment (weeks): 20 Fixed/flexible dose regimen: Fixed dose Set dose: 100mg/d Notes: Treatment phase was 18 or 22 wee (2) topiramate 200mg/d Intervention: topiramate Length of treatment (weeks): 20 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d						
	Notes: Treatment phase was 18 or 22 week	eks					
	(3) topiramate 400mg/d						
	Intervention: topiramate Length of treatment (weeks): 20 Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d Notes: Treatment phase was 18 or 22 weeks	eks					
	(4) Placebo						
	Intervention: placebo Length of treatment (weeks): 20 Fixed/flexible dose regimen: Fixed dose Notes: Treatment phase was 18 or 22 week	eks					
Concomitant	Drug free baseline period? Yes (duration:	28d)					
treatments	Concomitant pain treatment allowed? No analgesics (including paracetamol and open	anti-depressants					
Outcomes			TOPIRA	MATE 100MG/D	PLACE	ВО	
measures and effect sizes			N k	mean	N k	mean	Δ
	major adverse events (defined as leading to withdrawal): any major adverse event – 140d <sup>a</sup> adverse events:	Dichotomous	253 41	(16.2%)	384 32	2 (8.3%)	OR=2.127 (CI: 1.300, 3.482)
	Cognitive impairment – 140d <sup>b</sup> Confusion – 140d <sup>d</sup> Fatigue – 140d <sup>a</sup> Nausea – 140d <sup>a</sup>	Dichotomous Dichotomous Dichotomous Dichotomous	253 8 253 8 253 28 253 25		384 7 384 4 384 42 384 27	(1.0%) 2 (10.9%)	OR=1.759 (CI: 0.630, 4.911) OR=3.102 (CI: 0.924, 10.412) OR=1.013 (CI: 0.610, 1.682) OR=1.450 (CI: 0.821, 2.561)

parasthesia – 140d <sup>c</sup>	Dichotomous	253	23	(9.1%)	384	19	(4.9%)	OR=1.921 (CI: 1.024, 3.606)
Somnolence – 140d <sup>a</sup>	Dichotomous	253	20	(7.9%)	384	15	(3.9%)	OR=2.112 (CI: 1.060, 4.207)
treatment withdrawal:				` ,			,	,
due to lack of efficacy – 140d <sup>a</sup>	Dichotomous	253	42	(16.6%)	384	82	(21.4%)	OR=0.733 (CI: 0.486, 1.106)
unspecified/other reason – 140d <sup>a</sup>	Dichotomous	253	7	(2.8%)	384	15	(3.9%)	OR=0.700 (CI: 0.281, 1.742)
withdrawal of consent - 140d	Dichotomous	253	18 <sup>d</sup>	(7.1%)	384	23 <sup>e</sup>	(6.0%)	OR=1.202 (CI: 0.635, 2.276)
lost to follow-up - 140d <sup>a</sup>	Dichotomous	253	8	(3.2%)	384	4	(1.0%)	OR=3.102 (CI: 0.924, 10.412)
use of rescue medication:				( /			()	, , , , , , , , , , , , , , , , , , , ,
proportion using pain medication – 140d	Dichotomous	253	118 <sup>c</sup>	(46.6%)	384	202 <sup>f</sup>	(52.6%)	OR=0.788 (CI: 0.573, 1.082)
RCT1								
pain score:								
VAS – 0d <sup>g</sup>	Continuous	128		60.1 (SD 18.4)	136		57.7 (SD 19.1)	
VAS – 00 VAS – 140d <sup>g</sup>	Continuous	128		36.1 (SD 18.4)	136		43.1 (SD 19.1)	MD=-7.000 (CI: -13.725, -0.275)
VAS - 1400	Continuous	120		30.1 (3D 20.2)	130		43.1 (30 27.3)	MD=-7.000 (CI13.723, -0.273)
RCT3								
pain score:								
$VAS - 0d^h$	Continuous	122		60.4 (SD 18.8)	126		55.3 (SD 21.1)	
VAS – 140d <sup>h</sup>	Continuous	122		44.7 (SD 29.5)	126		37.8 (SD 29.1)	MD=6.900 (CI: -0.395, 14.195)

		ТОР	PIRAMATE 200MG/D PLACEBO		СЕВО			
		N	k	mean	N	k	mean	Δ
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 140d <sup>a</sup>	Dichotomous	372	93	(25.0%)	384	32	(8.3%)	OR=3.667 (CI: 2.382, 5.644)
adverse events:								
Cognitive impairment – 140d <sup>b</sup>	Dichotomous	372	18	(4.8%)	384	7	(1.8%)	OR=2.738 (CI: 1.130, 6.635)
Confusion – 140d <sup>a</sup>	Dichotomous	372	11	(3.0%)	384	4	(1.0%)	OR=2.895 (CI: 0.913, 9.173)
Fatigue – 140d <sup>a</sup>	Dichotomous	372	63	(16.9%)	384	42	(10.9%)	OR=1.660 (CI: 1.091, 2.526)
Nausea – 140d <sup>a</sup>	Dichotomous	372	48	(12.9%)	384	27	(7.0%)	OR=1.959 (CI: 1.194, 3.213)
parasthesia – 140d	Dichotomous	372	52ª	(14.0%)	384	19 <sup>c</sup>	(4.9%)	OR=3.122 (CI: 1.808, 5.391)
Somnolence – 140d <sup>a</sup>	Dichotomous	372	44	(11.8%)	384	15	(3.9%)	OR=3.300 (CI: 1.803, 6.041)
treatment withdrawal:								
due to lack of efficacy – 140d <sup>a</sup>	Dichotomous	372	49	(13.2%)	384	82	(21.4%)	OR=0.559 (CI: 0.379, 0.823)
unspecified/other reason – 140d <sup>a</sup>	Dichotomous	372	20	(5.4%)	384	15	(3.9%)	OR=1.398 (CI: 0.704, 2.773)
withdrawal of consent – 140d	Dichotomous	372	28 <sup>d</sup>	(7.5%)	384	23 <sup>e</sup>	(6.0%)	OR=1.278 (CI: 0.722, 2.261)
lost to follow-up – 140d <sup>a</sup>	Dichotomous	372	7	(1.9%)	384	4	(1.0%)	OR=1.822 (CI: 0.529, 6.276)
use of rescue medication:								,
proportion using pain medication – 140d	Dichotomous	372	196°	(52.7%)	384	202 <sup>f</sup>	(52.6%)	OR=1.003 (CI: 0.754, 1.335)
RCT1								
pain score:								
$VAS - 0d^g$	Continuous	130		55.8 (SD 21.2)	136		57.7 (SD 19.1)	
VAS – 140d <sup>g</sup>	Continuous	130		38.3 (SD 28.4)	136		43.1 (SD 27.5)	MD=-4.800 (CI: -11.523, 1.923)

<sup>&</sup>lt;sup>a</sup> All 3 RCTs pooled
<sup>b</sup> memory impairment, all 3 RCTs pooled
<sup>c</sup> All 3 RCTs pooled; approximated to nearest integer (percentages only presented in text)
<sup>d</sup> patient choice'; All 3 RCTs pooled
<sup>e</sup> All 3 RCTs pooled; 'patient choice'
<sup>f</sup> estimated from percentage; All 3 RCTs pooled

g RCT1 h RCT3

RCT2 pain score: VAS – 0d <sup>h</sup> VAS – 140d <sup>h</sup>	Continuous Continuous	116 116	58 (SD 19.5) 37.8 (SD 28.4)	119 119	57.5 (SD 19.4) 41.6 (SD 28.6)	MD=-3.800 (CI: -11.088, 3.488)
RCT3 pain score: VAS – 0d <sup>i</sup> VAS – 140d <sup>i</sup>	Continuous Continuous	123 123	59.3 (SD 19.2) 44.7 (SD 28.7)	126 126	55.3 (SD 21.1) 37.8 (SD 29.1)	MD=6.900 (CI: -0.279, 14.079)

g RCT1 h RCT2 i RCT3

adverse events:  Cognitive impairment – 140d <sup>b</sup> Dichotomous 260 18 (6.9%) 384 7 (1.8%)  Confusion – 140d <sup>a</sup> Dichotomous 260 18 (6.9%) 384 4 (1.0%)  Fatigue – 140d <sup>a</sup> Dichotomous 260 52 (20.0%) 384 42 (10.9%)  Nausea – 140d <sup>a</sup> Dichotomous 260 33 (12.7%) 384 27 (7.0%)  Dichotomous 260 31 (11.9%)  Somnolence – 140d <sup>a</sup> Dichotomous 260 31 (11.9%) 384 19 (4.9%)  Somnolence – 140d <sup>a</sup> Dichotomous 260 31 (11.9%) 384 15 (3.9%)  Dichotomous 260 32 (12.3%)  Unspecified/other reason – 140d <sup>a</sup> Dichotomous 260 32 (12.3%)  Unspecified/other reason – 140d <sup>a</sup> Dichotomous 260 10 (3.8%)  Dichotomous 260 11 (4.2%)  Dicho			TOP	TOPIRAMATE 400MG/D		PLA	СЕВО			
(defined as leading to withdrawal):			N	k	mean	N	k	mean	Δ	
any major adverse event = 140d <sup>a</sup> Dichotomous 260 79 (30.4%) 384 32 (8.3%) OR=4.801 (CI: 3.067, 7.515 adverse events:  Cognitive impairment = 140d <sup>b</sup> Dichotomous 260 18 (6.9%) 384 7 (1.8%) OR=4.006 (CI: 1.649, 9.734 Confusion = 140d <sup>a</sup> Dichotomous 260 18 (6.9%) 384 4 (1.0%) OR=7.066 (CI: 2.363, 21.12 Fatigue = 140d <sup>a</sup> Dichotomous 260 52 (20.0%) 384 42 (10.9%) OR=2.036 (CI: 1.309, 3.166 Nausea = 140d <sup>a</sup> Dichotomous 260 33 (12.7%) 384 27 (7.0%) OR=1.922 (CI: 1.426, 3.285 parasthesia = 140d <sup>a</sup> Dichotomous 260 31 (11.9%) 384 19 (4.9%) OR=2.601 (CI: 1.435, 4.712 Somnolence = 140d <sup>a</sup> Dichotomous 260 23 (8.8%) 384 15 (3.9%) OR=2.387 (CI: 1.221, 4.666 treatment withdrawal:  due to lack of efficacy = 140d <sup>a</sup> Dichotomous 260 32 (12.3%) 384 82 (21.4%) OR=0.517 (CI: 0.332, 0.805 unspecified/other reason = 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.517 (CI: 0.332, 0.805 unspecified/other reason = 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.517 (CI: 0.332, 0.805 unspecified/other reason = 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 23° (6.0%) OR=1.237 (CI: 0.660, 2.321 lost to follow-up = 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 (1.0%) OR=1.237 (CI: 0.1322, 13.33 use of rescue medication:  proportion using pain medication = 140d Dichotomous 260 142° (54.6%) 384 202° (52.6%) OR=1.084 (CI: 0.791, 1.487 RCT1 pain score:  VAS = 0d <sup>a</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1) OR=1.084 (CI: 0.791, 1.487 RCT2 pain score:  VAS = 0d <sup>a</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13 RCT2 pain score:  VAS = 0d <sup>a</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	major adverse events									
adverse events:  Cognitive impairment = 140d <sup>b</sup> Dichotomous										
Confusion — 140d <sup>a</sup> Dichotomous 260 18 (6.9%) 384 4 (1.0%) OR=7.066 (Cl: 2.363, 21.12 Fatigue — 140d <sup>a</sup> Dichotomous 260 52 (20.0%) 384 42 (10.9%) OR=2.036 (Cl: 1.309, 3.166 Nausea — 140d <sup>a</sup> Dichotomous 260 33 (12.7%) 384 27 (7.0%) OR=1.922 (Cl: 1.126, 3.282 parasthesia — 140d <sup>a</sup> Dichotomous 260 31 (11.9%) 384 19 (4.9%) OR=2.601 (Cl: 1.435, 4.712 Somnolence — 140d <sup>a</sup> Dichotomous 260 23 (8.8%) 384 15 (3.9%) OR=2.387 (Cl: 1.221, 4.666 treatment withdrawal: due to lack of efficacy — 140d <sup>a</sup> Dichotomous 260 32 (12.3%) 384 82 (21.4%) OR=0.517 (Cl: 0.332, 0.806 unspecified/other reason — 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.517 (Cl: 0.332, 0.806 unspecified/other reason — 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 23 <sup>a</sup> (6.0%) OR=0.984 (Cl: 0.435, 2.225 withdrawal of consent — 140d Dichotomous 260 19 <sup>d</sup> (7.3%) 384 23 <sup>a</sup> (6.0%) OR=1.237 (Cl: 0.660, 2.321 lost to follow-up — 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 4 (1.0%) OR=1.237 (Cl: 0.660, 2.321 lost to follow-up — 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 202 <sup>f</sup> (52.6%) OR=1.084 (Cl: 0.791, 1.487 RCT1 pain score:  VAS — 0d <sup>a</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1) VAS — 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (Cl: -9.938, 3.13 RCT2 pain score:  VAS — 0d <sup>a</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)		Dichotomous	260	79	(30.4%)	384	32	(8.3%)	OR=4.801 (CI: 3.067, 7.515)	
Confusion – 140d <sup>a</sup> Dichotomous 260 18 (6.9%) 384 4 (1.0%) OR=7.066 (Cl: 2.363, 21.12 Fatigue – 140d <sup>a</sup> Dichotomous 260 52 (20.0%) 384 42 (10.9%) OR=2.036 (Cl: 1.309, 3.166 Nausea – 140d <sup>a</sup> Dichotomous 260 33 (12.7%) 384 27 (7.0%) OR=1.922 (Cl: 1.126, 3.285 parasthesia – 140d <sup>a</sup> Dichotomous 260 31 (11.9%) 384 19 (4.9%) OR=2.601 (Cl: 1.435, 4.712 Somnolence – 140d <sup>a</sup> Dichotomous 260 23 (8.8%) 384 15 (3.9%) OR=2.387 (Cl: 1.221, 4.666 treatment withdrawal: due to lack of efficacy – 140d <sup>a</sup> Dichotomous 260 32 (12.3%) 384 82 (21.4%) OR=0.517 (Cl: 0.332, 0.805 unspecified/other reason – 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.984 (Cl: 0.435, 2.225 withdrawal of consent – 140d Dichotomous 260 19 <sup>d</sup> (7.3%) 384 23 <sup>e</sup> (6.0%) OR=1.237 (Cl: 0.435, 2.225 withdrawal of consent – 140d Dichotomous 260 11 (4.2%) 384 20 <sup>e</sup> (6.0%) OR=1.237 (Cl: 0.660, 2.321 lost to follow-up – 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 20 <sup>e</sup> (52.6%) OR=1.237 (Cl: 0.791, 1.487 RCT1 pain score:  VAS – 0d <sup>a</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1) VAS – 140d <sup>a</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (Cl: -9.938, 3.13 RCT2 pain score:  VAS – 0d <sup>b</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	Cognitive impairment – 140d <sup>b</sup>	Dichotomous	260	18	(6.9%)	384	7	(1.8%)	OR=4.006 (CI: 1.649, 9.734)	
Fatigue — 140d <sup>8</sup> Dichotomous 260 52 (20.0%) 384 42 (10.9%) OR=2.036 (CI: 1.309, 3.166 Nausea — 140d <sup>8</sup> Dichotomous 260 33 (12.7%) 384 27 (7.0%) OR=1.922 (CI: 1.126, 3.286 parasthesia — 140d <sup>6</sup> Dichotomous 260 31 (11.9%) 384 19 (4.9%) OR=2.601 (CI: 1.435, 4.712 Somnolence — 140d <sup>8</sup> Dichotomous 260 23 (8.8%) 384 15 (3.9%) OR=2.387 (CI: 1.221, 4.666 treatment withdrawal:  due to lack of efficacy — 140d <sup>8</sup> Dichotomous 260 10 (3.8%) 384 82 (21.4%) OR=0.517 (CI: 0.332, 0.806 unspecified/other reason — 140d <sup>8</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.984 (CI: 0.435, 2.225 OR=0.517 (CI: 0.332, 0.806 OR=0.984 (CI: 0.435, 2.225 OR=0.984 OR=0.984 (C		Dichotomous	260	18	(6.9%)	384	4	(1.0%)	OR=7.066 (CI: 2.363, 21.129)	
parasthesia – 140d°	Fatique – 140d <sup>a</sup>	Dichotomous	260	52		384	42		OR=2.036 (CI: 1.309, 3.166)	
Somnolence - 140d°	Nausea – 140d <sup>a</sup>	Dichotomous	260	33	(12.7%)	384	27	(7.0%)	OR=1.922 (CI: 1.126, 3.282)	
reatment withdrawal:  due to lack of efficacy – 140d <sup>a</sup> Dichotomous	parasthesia – 140d <sup>c</sup>	Dichotomous	260	31	(11.9%)	384	19	(4.9%)	OR=2.601 (CI: 1.435, 4.712)	
due to lack of efficacy – 140d <sup>a</sup> Dichotomous 260 32 (12.3%) 384 82 (21.4%) OR=0.517 (CI: 0.332, 0.805 unspecified/other reason – 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.984 (CI: 0.435, 2.225 withdrawal of consent – 140d Dichotomous 260 19 <sup>d</sup> (7.3%) 384 23 <sup>e</sup> (6.0%) OR=1.237 (CI: 0.660, 2.321 lost to follow-up – 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 4 (1.0%) OR=4.197 (CI: 1.322, 13.32 use of rescue medication: proportion using pain medication – 140d Dichotomous 260 142 <sup>c</sup> (54.6%) 384 202 <sup>f</sup> (52.6%) OR=1.084 (CI: 0.791, 1.487 (CI: 0.7	Somnolence – 140d <sup>a</sup>	Dichotomous	260	23	(8.8%)	384	15	(3.9%)	OR=2.387 (CI: 1.221, 4.668)	
unspecified/other reason – 140d <sup>a</sup> Dichotomous 260 10 (3.8%) 384 15 (3.9%) OR=0.984 (CI: 0.435, 2.225 withdrawal of consent – 140d Dichotomous 260 19 <sup>d</sup> (7.3%) 384 23 <sup>e</sup> (6.0%) OR=1.237 (CI: 0.660, 2.321 lost to follow-up – 140d <sup>a</sup> Dichotomous 260 11 (4.2%) 384 4 (1.0%) OR=4.197 (CI: 1.322, 13.32 use of rescue medication: proportion using pain medication – 140d Dichotomous 260 142 <sup>c</sup> (54.6%) 384 202 <sup>f</sup> (52.6%) OR=1.084 (CI: 0.791, 1.487 PRCT1  Deain score: VAS – 0d <sup>g</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1) VAS – 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13 PRCT2  Deain score: VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	reatment withdrawal:				, ,			, ,	•	
withdrawal of consent – 140d Dichotomous 260 19 <sup>d</sup> (7.3%) 384 23 <sup>e</sup> (6.0%) OR=1.237 (CI: 0.660, 2.321 lost to follow-up – 140d <sup>e</sup> Dichotomous 260 11 (4.2%) 384 4 (1.0%) OR=4.197 (CI: 1.322, 13.32 use of rescue medication: proportion using pain medication – 140d Dichotomous 260 142 <sup>e</sup> (54.6%) 384 202 <sup>e</sup> (52.6%) OR=1.084 (CI: 0.791, 1.487 RCT1 vain score: VAS – 0d <sup>e</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1) Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13 RCT2 vain score: VAS – 0d <sup>e</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	due to lack of efficacy – 140d <sup>a</sup>	Dichotomous	260	32	(12.3%)	384	82	(21.4%)	OR=0.517 (CI: 0.332, 0.805)	
lost to follow-up — 140d <sup>8</sup> Dichotomous 260 11 (4.2%) 384 4 (1.0%) OR=4.197 (CI: 1.322, 13.32 use of rescue medication: proportion using pain medication — 140d Dichotomous 260 142 <sup>c</sup> (54.6%) 384 202 <sup>f</sup> (52.6%) OR=1.084 (CI: 0.791, 1.487 (CI: 0.79	unspecified/other reason – 140d <sup>a</sup>	Dichotomous	260		(3.8%)	384	15	(3.9%)	OR=0.984 (CI: 0.435, 2.225)	
use of rescue medication:     proportion using pain medication – 140d	withdrawal of consent - 140d	Dichotomous	260	19 <sup>d</sup>	(7.3%)	384	23 <sup>e</sup>	(6.0%)	OR=1.237 (CI: 0.660, 2.321)	
proportion using pain medication – 140d Dichotomous 260 142° (54.6%) 384 202° (52.6%) OR=1.084 (CI: 0.791, 1.487  RCT1  pain score:  VAS – 0d <sup>g</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1)  VAS – 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13)  RCT2  pain score:  VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	lost to follow-up – 140d <sup>a</sup>	Dichotomous	260	11	(4.2%)	384	4	(1.0%)	OR=4.197 (CI: 1.322, 13.327)	
RCT1  pain score:  VAS – 0d <sup>g</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1)  VAS – 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13)  RCT2  pain score:  VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	use of rescue medication:									
pain score: $VAS - 0d^g \qquad \qquad Continuous \qquad 130 \qquad 56.3 \ (SD \ 20.2) \qquad 136 \qquad 57.7 \ (SD \ 19.1) \\ VAS - 140d^g \qquad \qquad Continuous \qquad 130 \qquad 39.7 \ (SD \ 26.9) \qquad 136 \qquad 43.1 \ (SD \ 27.5) \qquad MD=-3.400 \ (CI: -9.938, \ 3.13) \\ RCT2 \\ Pain score: \\ VAS - 0d^h \qquad \qquad Continuous \qquad 129 \qquad 57.8 \ (SD \ 19.7) \qquad 119 \qquad 57.5 \ (SD \ 19.4)$	proportion using pain medication – 140d	Dichotomous	260	142 <sup>c</sup>	(54.6%)	384	202 <sup>f</sup>	(52.6%)	OR=1.084 (CI: 0.791, 1.487)	
pain score:  VAS – 0d <sup>g</sup> Continuous 130 56.3 (SD 20.2) 136 57.7 (SD 19.1)  VAS – 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13)  RCT2  pain score:  VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)	RCT1									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
VAS – 140d <sup>g</sup> Continuous 130 39.7 (SD 26.9) 136 43.1 (SD 27.5) MD=-3.400 (CI: -9.938, 3.13 <b>RCT2</b> Dain score: VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)		Continuous	130		56.3 (SD 20.2)	136		57 7 (SD 19 1)		
RCT2 Dain score:  VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)					,			` ,	MD=-3.400 (CI: -9.938, 3.138)	
pain score:  VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)			,00		(22 2010)			(23 21.0)	21.121 (31. 6.666, 61.66)	
VAS – 0d <sup>h</sup> Continuous 129 57.8 (SD 19.7) 119 57.5 (SD 19.4)										
		0	400		57.0 (OD 40.7)	440		57.5 (OD 40.4)		
VAS = 140d Continuous 129 39.3 (SD 26.3) 119 41.6 (SD 28.6) MD=-2.300 (Ci: -9.156, 4.5)			-		` ,				MD 0 000 (OL 0 450 4 550)	
	VAS - 1400	Continuous	129		39.3 (SD 26.3)	119		41.6 (SD 28.6)	IVID=-2.300 (CI: -9.156, 4.556)	

CG173: Neuropathic pain – pharmacological management appendix E

<sup>&</sup>lt;sup>a</sup> All 3 RCTs pooled

<sup>b</sup> memory impairment, all 3 RCTs pooled

<sup>c</sup> All 3 RCTs pooled; approximated to nearest integer (percentages only presented in text)

<sup>d</sup> 'patient choice'; All 3 RCTs pooled

<sup>e</sup> All 3 RCTs pooled; 'patient choice'

f estimated from percentage; All 3 RCTs pooled

<sup>g</sup> DCT1

	c All 3 RCTs pooled; approximated to nearest integer (percentages only presented in text) d 'patient choice'; All 3 RCTs pooled e All 3 RCTs pooled; 'patient choice' f estimated from percentage; All 3 RCTs pooled g RCT1 h RCT2	
Comments	This paper combines the results of 3 RCTs some had a treatment phase of 18 weeks, some had a treatment phase of 22 weeks	

Study	Tolle et al. (2008)
Pain category	Peripheral pain
Study design	Country: USA and Germany Design: Parallel Inclusion criteria: PDN for at least 1 year with a pain score of at least 40mm on a VAS-100mm and average daily pain rating of at least 4 on NRS-11 point Exclusion criteria: Creatinine clearence less than 30mL/min Study length (days): 84 Intention-to-treat analysis? Yes
Participants	Total number of patients: 395 Number of males: 219 (55.4%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.425 (NRS (average of all means)) Mean age: 58.61 (SD: 11.5)
Intervention(s)	(1) Pregabalin 150mg/d Intervention: pregabalin Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 150mg/d Notes: no titration (2) Pregabalin 300mg/d Intervention: pregabalin Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d Notes: 7 day titration from 150 mg/d
	(3) Pregabalin 300/600mg/d Intervention: pregabalin Length of treatment (weeks): 12

	Fixed/flexible dose regimen: Flexible dose Notes: patients received 300 mg/d or 600 mg/d depending or ml/min] - 300 mg/d); 7 day titration from 150 mg/d  (4) Placebo Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose  (5) Pregabalin (dosages combined) Intervention: pregabalin Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose	n their creatinin	e clea	rance	(high [> 60 ml/	/min]	- 60	0 mg/d, n	ormal [> 30 but < or = 60
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? Yes (excluded: medica benzodiazepines (other than stable bedtime dosages for slee including tramadol, memantine, AEDs, anti-depressants (oth concomitant medications), analgesics like NSAIDs and dextr	ep), skeletal mu er than SSRI fo	scle ro r depr	elaxar essio	nts, capsaicin, a n if stable for a	alpha t leas	-lipo t 30	oid acid, lo days - S	ocal anaesthtics, opioids SRIs could be considered
Outcomes			PRF	GARA	ALIN 150MG/D	PI	ACE	BO	
measures and			N	k	mean			mean	Δ
effect sizes				N.	IIIeaii	- 14		illeali	
	pain score: at least 50% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d patient-reported global improvement: PGIC - worse (all grades) – 84d PGIC - worse (all grades), no change or minimally better – 84d PGIC - worse (all grades), no change or minimally better – 84d PGIC - no change – 84d PGIC - no change – 84d PGIC - minimally better – 84d PGIC - minimally better – 84d PGIC - at least moderately better – 84d PGIC - at least moderately better – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: NRS Sleep – 84d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	99 82 99 96 99 96 99 96 99 96	28 28 5 5 52 52 21 21 26 26 44 44	(28.3%) (28.3%) (5.1%) (5.1%) (52.5%) (52.5%) (21.2%) (21.2%) (26.3%) (26.3%) (44.4%)	79 96 93 96 93 96 93 96 93	9 9 62 62 23 23 30 30 31	(25.0%) (25.0%) (9.4%) (9.4%) (64.6%) (24.0%) (24.0%) (31.3%) (31.3%) (32.3%) (32.3%)	OR=1.188 (CI: 0.613, 2.304) OR=1.188 (CI: 0.613, 2.304)  OR=0.513 (CI: 0.165, 1.592) OR=0.591 (CI: 0.165, 1.592) OR=0.591 (CI: 0.328, 1.065) OR=0.591 (CI: 0.328, 1.065) OR=0.852 (CI: 0.434, 1.674) OR=0.852 (CI: 0.434, 1.674) OR=0.780 (CI: 0.417, 1.458) OR=0.780 (CI: 0.417, 1.458) OR=1.692 (CI: 0.939, 3.050) OR=1.692 (CI: 0.939, 3.050)
	major adverse events (defined as leading to withdrawal):			_	( <b>-</b> 404)		_	(0.40()	,
	any major adverse event – 84d adverse events:	Dichotomous	99	5	(5.1%)	96	3	(3.1%)	OR=1.649 (CI: 0.383, 7.099)
	asthenia – 84d Dizziness – 84d Dry mouth – 84d headache – 84d	Dichotomous Dichotomous Dichotomous Dichotomous	99 99 99	1 3 3 5	(1.0%) (3.0%) (3.0%) (5.1%)	96 96 96 96	2 0	(0.0%) (2.1%) (0.0%) (5.2%)	OR=2.939 (Cl: 0.118, 73.039) OR=1.469 (Cl: 0.240, 8.990) OR=7.000 (Cl: 0.357, 137.346) OR=0.968 (Cl: 0.271, 3.456)
	oedema – 84d Peripheral oedema – 84d	Dichotomous Dichotomous	99 99	4 5	(4.0%) (5.1%)	96 96	0	(0.0%) (2.1%)	OR=9.094 (CI: 0.483, 171.237) OR=2.500 (CI: 0.473, 13.208)

	00	5	(5.1%)	96 1	(1.0%)	OR=5.053 (CI: 0.579, 44.075)
Dichotomous	99	2	(2.0%)	96 0	(0.0%)	OR=4.949 (Cl. 0.235, 104.429)
Dichotomous	99	6	(6.1%)	96 0	(0.0%)	OR=13.417 (CI: 0.745, 241.531)
C	00			00		MD 0.400 (CI, 0.005, 0.405)
Continuous	92			90		MD=0.100 (CI: 0.035, 0.165)
Dishotomous	00	0	(0.40/)	06 11	(44 E0/)	OD 0 670 (Ch 0 364 4 770)
		_	'		` ,	OR=0.679 (CI: 0.261, 1.770)
		4	` '		` ,	OR=1.305 (CI: 0.284, 5.992)
Dichotomous	99	0	(0.0%)	96 0	(0.0%)	OR=0.970 (CI: 0.019, 49.368)
Continuous	87			87		MD=-0.400 (CI: -1.040, 0.240)
	-			-		(
Continuous	98			96		MD=-0.270 (CI: -0.875, 0.335)
	Dichotomous Continuous Dichotomous Dichotomous Dichotomous Continuous Continuous	Continuous 92  Dichotomous 99  Dichotomous 99  Dichotomous 99  Continuous 87	Continuous 92  Dichotomous 99 8 Dichotomous 99 4 Dichotomous 99 0  Continuous 87	Continuous 92  Dichotomous 99 8 (8.1%) Dichotomous 99 4 (4.0%) Dichotomous 99 0 (0.0%)  Continuous 87	Continuous 92 90  Dichotomous 99 8 (8.1%) 96 11 Dichotomous 99 4 (4.0%) 96 3 Dichotomous 99 0 (0.0%) 96 0  Continuous 87 87	Continuous 92 90  Dichotomous 99 8 (8.1%) 96 11 (11.5%) Dichotomous 99 4 (4.0%) 96 3 (3.1%) Dichotomous 99 0 (0.0%) 96 0 (0.0%)  Continuous 87 87

		PREGABALIN 300MG/D			PLACEBO			
		N	k	mean	N	k	mean	Δ
pain score:								
at least 50% pain reduction (NRS) – 84d	Dichotomous	99	26	(26.3%)	96	24	(25.0%)	OR=1.124 (CI: 0.575, 2.199)
at least 50% pain reduction (NRS) – 84d	Dichotomous	79	26	(26.3%)	79	24	(25.0%)	OR=1.124 (CI: 0.575, 2.199)
patient-reported global improvement:								
PGIC - worse (all grades) – 84d	Dichotomous	99	8	(8.1%)	96	9	(9.4%)	OR=0.868 (CI: 0.320, 2.357)
PGIC - worse (all grades) – 84d	Dichotomous	94	8	(8.1%)	93	9	(9.4%)	OR=0.868 (CI: 0.320, 2.357)
PGIC - worse (all grades), no change or minimally better – 84d	Dichotomous	99	54	(54.5%)	96	62	(64.6%)	OR=0.675 (CI: 0.373, 1.223)
PGIC - worse (all grades), no change or minimally better – 84d	Dichotomous	94	54	(54.5%)	93	62	(64.6%)	OR=0.675 (CI: 0.373, 1.223)
PGIC - no change – 84d	Dichotomous	99	17	(17.2%)	96	23	(24.0%)	OR=0.672 (CI: 0.332, 1.361)
PGIC - no change – 84d	Dichotomous	94	17	(17.2%)	93	23	(24.0%)	OR=0.672 (CI: 0.332, 1.361)
PGIC - minimally better – 84d	Dichotomous	99	29	(29.3%)	96	30	(31.3%)	OR=0.937 (CI: 0.506, 1.736)
PGIC - minimally better – 84d	Dichotomous	94	29	(29.3%)	93	30	(31.3%)	OR=0.937 (CI: 0.506, 1.736)
PGIC - at least moderately better – 84d	Dichotomous	99	40	(40.4%)	96	31	(32.3%)	OR=1.481 (CI: 0.818, 2.684)
PGIC - at least moderately better – 84d	Dichotomous	94	40	(40.4%)	93	31	(32.3%)	OR=1.481 (CI: 0.818, 2.684)
patient-reported improvement in				,			,	,
daily physical and emotional								
functioning, including sleep:								
NRS Sleep – 84d	Continuous	96			93			MD=-0.620 (CI: 0.000, -1.240)
major adverse events								,
(defined as leading to withdrawal):								
any major adverse event – 84d	Dichotomous	99	11	(11.1%)	96	3	(3.1%)	OR=3.875 (CI: 1.046, 14.354)
adverse events:				, ,			,	,
asthenia – 84d	Dichotomous	99	4	(4.0%)	96	0	(0.0%)	OR=9.094 (CI: 0.483, 171.237)
Dizziness – 84d	Dichotomous	99	9	(9.1%)	96	2	(2.1%)	OR=4.700 (CI: 0.988, 22.349)
Dry mouth – 84d	Dichotomous	99	5	(5.1%)	96	0	(0.0%)	OR=11.233 (CI: 0.613, 205.976)
headache – 84d	Dichotomous	99	3	(3.0%)	96		(5.2%)	OR=0.569 (CI: 0.132, 2.449)
oedema – 84d	Dichotomous	99	12	(12.1%)	96	0	(0.0%)	OR=27.571 (CI: 1.609, 472.600)
Peripheral oedema – 84d	Dichotomous	99	9	(9.1%)	96		(2.1%)	OR=4.700 (CI: 0.988, 22.349)
Somnolence – 84d	Dichotomous	99	4	(4.0%)	96	1	(1.0%)	OR=4.000 (CI: 0.439, 36.451)
vertigo – 84d	Dichotomous	99	6	(6.1%)	96	0	(0.0%)	OR=13.417 (CI: 0.745, 241.531)
Weight gain – 84d	Dichotomous	99	6	(6.1%)	96		(0.0%)	OR=13.417 (CI: 0.745, 241.531)

overall improvement in quality of life: EQ-5D - health status index – 84d	Continuous	92			90			MD=0.080 (CI: 0.015, 0.145)
treatment withdrawal:								
due to lack of efficacy – 84d	Dichotomous		5	(5.1%)			(11.5%)	OR=0.411 (CI: 0.137, 1.231)
unspecified/other reason – 84d	Dichotomous		4	(4.0%)	96		(3.1%)	OR=1.305 (CI: 0.284, 5.992)
poor compliance – 84d	Dichotomous	99	0	(0.0%)	96	U	(0.0%)	OR=0.970 (CI: 0.019, 49.368)
Per Protocol								
pain score: NRS/NRS Pain – 84d	Continuous	89			87			MD=-0.150 (CI: -0.785, 0.485
	Continuous	69			07			WID=-0.150 (C10.765, 0.465
ITT population								
pain score: NRS/NRS Pain – 84d	Continuous	99			96			MD=-0.100 (CI: -0.700, 0.500
NNO/NNO Falli – 04u	Continuous				90			MD=-0.100 (C10.700, 0.300
		PREG	ABALI	N 300/600MG/D	PL	ACE	ВО	
		N	k	mean	N	k	mean	Δ
pain score: at least 50% pain reduction (NRS) – 84d	Dichotomous	101	36	(35.6%)	06	24	(25.0%)	OR=1.964 (CI: 1.021, 3.779)
at least 50% pain reduction (NRS) – 64d at least 50% pain reduction (NRS) – 84d	Dichotomous	78	36	(35.6%)			(25.0%)	OR=1.964 (CI: 1.021, 3.779)
patient-reported global improvement:	Dicholomous	70	30	(33.078)	19	24	(23.076)	OK=1.904 (Cl. 1.021, 3.779)
PGIC - worse (all grades) – 84d	Dichotomous	101	5	(5.0%)	96	q	(9.4%)	OR=0.519 (CI: 0.167, 1.610)
PGIC - worse (all grades) – 84d	Dichotomous	95	5	(5.0%)	93		(9.4%)	OR=0.519 (CI: 0.167, 1.610
PGIC - worse (all grades), no change or minimally better – 84d	Dichotomous	101	47	(46.5%)			(64.6%)	OR=0.490 (CI: 0.271, 0.883
PGIC - worse (all grades), no change or minimally better – 84d	Dichotomous	95	47	(46.5%)			(64.6%)	OR=0.490 (CI: 0.271, 0.883
PGIC - no change – 84d	Dichotomous	101	13	(12.9%)			(24.0%)	OR=0.483 (CI: 0.228, 1.023
PGIC - no change – 84d	Dichotomous	95	13	(12.9%)			(24.0%)	OR=0.483 (CI: 0.228, 1.023
PGIC - minimally better – 84d	Dichotomous	101	29	(28.7%)			(31.3%)	OR=0.923 (CI: 0.498, 1.709
PGIC - minimally better – 84d	Dichotomous	95	29	(28.7%)			(31.3%)	OR=0.923 (CI: 0.498, 1.709
PGIC - at least moderately better – 84d	Dichotomous	101	48	(47.5%)			(32.3%)	OR=0.923 (Cl. 0.496, 1.709 OR=2.043 (Cl: 1.133, 3.683
PGIC - at least moderately better – 84d	Dichotomous	95	46 48	(47.5%) (47.5%)			(32.3%)	OR=2.043 (CI: 1.133, 3.683 OR=2.043 (CI: 1.133, 3.683
patient-reported improvement in	Dichotomous	30	40	(47.370)	93	31	(32.3%)	UN=2.043 (UI. 1.133, 3.063
daily physical and emotional								
functioning, including sleep:	Cantinua	00			00			MD 4 040 (Cl. 4 005 0 4
NRS Sleep – 84d	Continuous	98			93			MD=-1.010 (CI: -1.605, -0.4
major adverse events								
(defined as leading to withdrawal):	D: 1 .	404	40	(40.00()		_	(0.40()	00 4 500 /01 4 005 10 01
any major adverse event – 84d	Dichotomous	101	13	(12.9%)	96	3	(3.1%)	OR=4.580 (CI: 1.262, 16.61)
adverse events:	<b>5</b>		_	(= aa()		_	(0.00()	00 // 000 /01 0 05
asthenia – 84d	Dichotomous	101	5	(5.0%)	96		(0.0%)	OR=11.000 (CI: 0.600, 201.
Dizziness – 84d	Dichotomous	101	14	(13.9%)		2	(2.1%)	OR=7.563 (CI: 1.671, 34.23
Dry mouth – 84d	Dichotomous	101	7	(6.9%)		0	(0.0%)	OR=15.317 (CI: 0.863, 271.9
headache – 84d	Dichotomous	101	1	(1.0%)	96		(5.2%)	OR=0.182 (CI: 0.021, 1.587)
andama 94d	Dichotomous	101	4	(4.00/)	00	^	(n nn/)	OD 0 000 (CL 0 472 467 7)

Dichotomous

Dichotomous

Dichotomous

Dichotomous

Dichotomous

Continuous

4

10

8

101

101

101

101

101

90

(4.0%)

(9.9%)

(7.9%)

(5.0%)

(6.9%)

96 0 (0.0%)

96 2 (2.1%)

96 1 (1.0%)

96 0 (0.0%)

96 0 (0.0%)

90

OR=8.908 (CI: 0.473, 167.701)

OR=5.165 (CI: 1.101, 24.220)

OR=8.172 (CI: 1.002, 66.629)

MD=0.140 (CI: 0.075, 0.205)

OR=11.000 (CI: 0.600, 201.678) OR=15.317 (CI: 0.863, 271.978)

overall improvement in quality of life: EQ-5D - health status index – 84d

oedema – 84d

vertigo – 84d

Somnolence – 84d

Weight gain - 84d

Peripheral oedema – 84d

	treatment withdrawal: due to lack of efficacy – 84d unspecified/other reason – 84d poor compliance – 84d	Dichotomous Dichotomous Dichotomous	101 101 101	3 6 1	(3.0%) (5.9%) (1.0%)	96 11 (11.5%) 96 3 (3.1%) 96 0 (0.0%)	OR=0.237 (CI: 0.064, 0.876) OR=1.958 (CI: 0.476, 8.060) OR=2.881 (CI: 0.116, 71.577)
	Per Protocol pain score: NRS/NRS Pain – 84d	Continuous	85			87	MD=-1.030 (CI: -1.680, -0.380)
	ITT population pain score: NRS/NRS Pain – 84d	Continuous	101			96	MD=-0.910 (CI: -1.510, -0.310)
Comments	-						

Study	van Seventer et al. (2006)
Pain category	Peripheral pain
Study design	Country: unclear Design: Parallel Inclusion criteria: PHN for at least 3 months after herpes zoster episode with pain score of at least 40mm on VAS 100mm, average daily pain rating of at least 4 on NRS 11 point Exclusion criteria: Patients with malignancy (except basal cell carcinoma) within the past 2 years, clinically significant or unstable hepatic, respiratory, or haematological illnesses or psychologic conditions, unstable cardiovascular disease, immunocomptimised, history of alcohol or drug abuse in the past 2 years, participantion in a clinical trial for an investigational drug or agent within 30 days prior to study, participation in a trial on pregabalin. Study length (days): 91 Intention-to-treat analysis? No
Participants	Total number of patients: 370 Number of males: 168 (45.4%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 40.7 Baseline pain severity: 6.67 (NRS) Mean age: 70.7
Intervention(s)	(1) Pregabalin 150mg/d Intervention: pregabalin Length of treatment (weeks): 13 Fixed/flexible dose regimen: Fixed dose Set dose: 150mg/d Notes: 1 week titration, 12 week maintenance (2) Pregabalin 300mg/d Intervention: pregabalin

	Length of treatment (weeks): 13								
	Fixed/flexible dose regimen: Fixed dose								
	Set dose: 300mg/d								
	Notes: 1 week titration, 12 week maintenance								
	(3) Pregablin 600mg/d								
	Intervention: pregabalin								
	Length of treatment (weeks): 13								
	Fixed/flexible dose regimen: Fixed dose								
	Set dose: 600mg/d								
	Notes: 1 week titration, 12 week maintenance								
	(4) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): 13								
	Fixed/flexible dose regimen: Fixed dose								
	(5) all pregabalin dosages								
	Intervention: pregabalin								
	Length of treatment (weeks):								
	Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? Yes (duration: 7d)								
treatments	Concomitant pain treatment allowed? Yes (sta	hle medications (	30 4a	ve o	r more) hefore stu	dy an	trv, ir	ocludina non-nare	cotic analgesics (ie
	Noramidopyrine and paracetamol) and stable								
	amitriptyline); wash-out required for prohibited								
	epileptics, amantadine, alpha-lipoic acid, hydro								, , , , , , , , , , , , , , , , , , , ,
Outcomes									
measures and			PRI	EGA	BALIN 150MG/D	_ PL	ACE	ВО	_
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	NRS/NRS Pain – 0d	Continuous	87		6.44 (SD 1.58)	93		6.85 (SD 1.49)	
	NRS/NRS Pain – 91d <sup>a</sup>	Continuous	87		5.26 (SD 2.24)	93		6.14 (SD 2.22)	MD=-0.880 (CI: -1.530, -0.230)
	at least 30% pain reduction (NRS) – 91d	Dichotomous			(27.6%)			(10.8%)	OR=3.162 (CI: 1.411, 7.087)
	at least 50% pain reduction (NRS) – 91d	Dichotomous	87	16	(18.4%)	93	4	(4.3%)	OR=5.014 (CI: 1.605, 15.665)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 91d	Dichotomous	87	30	(34.5%)	93	38	(40.9%)	OR=0.762 (CI: 0.416, 1.395)
	PGIC - minimally better – 91d	Dichotomous			(19.5%)		11		OR=1.810 (CI: 0.795, 4.122)
	PGIC - at least moderately better – 91d	Dichotomous	87	14	(16.1%)	93	10	(10.8%)	OR=1.592 (CI: 0.667, 3.801)
	patient-reported improvement in								
	daily physical and emotional functioning, including sleep:								
	NRS Sleep – 91d <sup>b</sup>	Continuous	87		3.07 (SD 2.05)	93		4.1 (SD 2.03)	MD=-1.030 (CI: -1.620, -0.440)
	major adverse events				,			,	, , ,
	(defined as leading to withdrawal):	Diahadaman	0.7	-	(0,00()	00	_	(F 40/)	OD 4 540 (OL 0 470 5 040)
	any major adverse event – 91d	Dichotomous	87	1	(8.0%)	93	5	(5.4%)	OR=1.540 (CI: 0.470, 5.046)
	I adverse events:								, , ,
	adverse events: asthenia – 91d	Dichotomous	87	4	(4.6%)	93	5	(5.4%)	OR=0.848 (CI: 0.220, 3.267)

Confusion – 91d <sup>c</sup>	Dichotomous	87	2	(2.3%)	93	1	(1.1%)	OR=2.165 (CI: 0.193, 24.307)
Constipation – 91d	Dichotomous	87	1	(1.1%)	93	2	(2.2%)	OR=0.529 (CI: 0.047, 5.941)
Diarrhoea – 91d	Dichotomous	87	5	(5.7%)	93	1	(1.1%)	OR=5.610 (CI: 0.642, 49.013)
Dizziness – 91d	Dichotomous	87	14	(16.1%)	93	9	(9.7%)	OR=1.790 (CI: 0.732, 4.377)
Dry mouth – 91d	Dichotomous	87	5	(5.7%)	93	0	(0.0%)	OR=12.467 (CI: 0.679, 228.884)
Gait disturbance – 91d	Dichotomous	87	1	(1.1%)	93	0	(0.0%)	OR=3.243 (CI: 0.130, 80.670)
headache – 91d	Dichotomous	87	4	(4.6%)	93	3	(3.2%)	OR=1.446 (CI: 0.314, 6.653)
Nausea – 91d	Dichotomous	87	1	(1.1%)	93	5	(5.4%)	OR=0.205 (CI: 0.023, 1.788)
oedema – 91d	Dichotomous	87	3	(3.4%)	93	3	(3.2%)	OR=1.071 (CI: 0.210, 5.456)
Peripheral oedema – 91d	Dichotomous	87	11	(12.6%)	93	10	(10.8%)	OR=1.201 (CI: 0.483, 2.988)
Somnolence – 91d	Dichotomous	87	8	(9.2%)	93	4	(4.3%)	OR=2.253 (CI: 0.653, 7.770)
Weight gain – 91d	Dichotomous	87	3	(3.4%)	93	0	(0.0%)	OR=7.746 (CI: 0.394, 152.151)
facial oedema – 91d	Dichotomous	87	3	(3.4%)	93	2	(2.2%)	OR=1.625 (CI: 0.265, 9.965)
treatment withdrawal:								
due to lack of efficacy – 91d	Dichotomous	87	16	(18.4%)	93	22	(23.7%)	OR=0.727 (CI: 0.353, 1.499)
unspecified/other reason - 91d	Dichotomous	87	3	(3.4%)	93	7	(7.5%)	OR=0.439 (CI: 0.110, 1.754)
poor compliance – 91d	Dichotomous	87	0	(0.0%)	93	0	(0.0%)	OR=1.069 (CI: 0.021, 54.439)

a least squares mean
b least squares mean; baseline not reported
C Described as 'thinking abnormal' in evidence table

		PR	EGAI	BALIN 300MG/D	PL	ACE	во		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous	98		6.72 (SD 1.41)	93		6.85 (SD 1.49)		
NRS/NRS Pain – 91d <sup>a</sup>	Continuous	98		5.07 (SD 2.28)	93		6.14 (SD 2.22)	MD=-1.070 (CI: -1.695, -0.445)	
at least 30% pain reduction (NRS) – 91d	Dichotomous	98	25	(25.5%)	93	10	(10.8%)	OR=2.842 (CI: 1.280, 6.313)	
at least 50% pain reduction (NRS) – 91d	Dichotomous	98	16	(16.3%)	93	4	(4.3%)	OR=4.341 (CI: 1.394, 13.520)	
patient-reported global improvement:									
PGIC - worse (all grades) or no change – 91d	Dichotomous	98	32	(32.7%)	93	38	(40.9%)	OR=0.702 (CI: 0.389, 1.267)	
PGIC - minimally better – 91d	Dichotomous	98	13	(13.3%)	93	11	(11.8%)	OR=1.140 (CI: 0.483, 2.690)	
PGIC - at least moderately better – 91d	Dichotomous	98	17	(17.3%)	93	10	(10.8%)	OR=1.742 (CI: 0.753, 4.031)	
patient-reported improvement in									
daily physical and emotional									
functioning, including sleep:									
NRS Sleep – 91d <sup>b</sup>	Continuous	98		2.84 (SD 2.08)	93		4.1 (SD 2.03)	MD=-1.260 (CI: -1.840, -0.680)	
major adverse events									
(defined as leading to withdrawal):									
any major adverse event – 91d	Dichotomous	98	15	(15.3%)	93	5	(5.4%)	OR=3.181 (CI: 1.107, 9.141)	
adverse events:									
asthenia – 91d	Dichotomous	98	3	(3.1%)	93	5	(5.4%)	OR=0.556 (CI: 0.129, 2.394)	
Blurred vision – 91d	Dichotomous	98	2	(2.0%)	93	0	(0.0%)	OR=4.845 (CI: 0.230, 102.259)	
Confusion – 91d <sup>c</sup>	Dichotomous	98	2	(2.0%)	93	1	(1.1%)	OR=1.917 (CI: 0.171, 21.499)	
Constipation – 91d	Dichotomous	98	8	(8.2%)	93	2	(2.2%)	OR=4.044 (CI: 0.836, 19.570)	
Diarrhoea – 91d	Dichotomous	98	0	(0.0%)	93	1	(1.1%)	OR=0.313 (CI: 0.013, 7.781)	
Dizziness – 91d	Dichotomous	98	32	(32.7%)	93	9	(9.7%)	OR=4.525 (CI: 2.020, 10.139)	
Dry mouth – 91d	Dichotomous	98	4	(4.1%)	93	0	(0.0%)	OR=8.905 (CI: 0.473, 167.718)	
Gait disturbance – 91d	Dichotomous	98	2	(2.0%)	93	0	(0.0%)	OR=4.845 (CI: 0.230, 102.259)	
headache – 91d	Dichotomous	98	1	(1.0%)	93	3	(3.2%)	OR=0.309 (CI: 0.032, 3.028)	
Nausea – 91d	Dichotomous	98	0	(0.0%)	93	5	(5.4%)	OR=0.082 (CI: 0.004, 1.498)	

oedema – 91d Peripheral oedema – 91d Somnolence – 91d Weight gain – 91d facial oedema – 91d treatment withdrawal: due to lack of efficacy – 91d unspecified/other reason – 91d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	98 98 98 98 98 98	3 14 11 8 1 13 7	(3.1%) (14.3%) (11.2%) (8.2%) (1.0%) (13.3%) (7.1%)	93 93 93	10 4 0 2	(3.2%) (10.8%) (4.3%) (0.0%) (2.2%) (23.7%) (7.5%)	OR=0.947 (CI: 0.186, 4.816) OR=1.383 (CI: 0.582, 3.290) OR=2.813 (CI: 0.863, 9.173) OR=17.564 (CI: 0.999, 308.770) OR=0.469 (CI: 0.042, 5.262) OR=0.494 (CI: 0.232, 1.050) OR=0.945 (CI: 0.318, 2.806)
unspecified/other reason – 91d	Dichotomous	98	7	(7.1%)	93	7	(7.5%)	OR=0.945 (CI: 0.318, 2.806)
poor compliance – 91d	Dichotomous	98	1	(1.0%)	93	0	(0.0%)	OR=2.877 (CI: 0.116, 71.513)

<sup>&</sup>lt;sup>a</sup> least squares mean <sup>b</sup> least squares mean; baseline not reported <sup>c</sup> Described as 'thinking abnormal' in evidence table

		PR	EGA	BLIN 600MG/D	PL	ACE	во	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	90		6.65 (SD 1.44)	93		6.85 (SD 1.49)	
NRS/NRS Pain – 91d <sup>a</sup>	Continuous	88		4.35 (SD 2.25)	93		6.14 (SD 2.22)	MD=-1.790 (CI: -2.430, -1.150)
at least 30% pain reduction (NRS) - 91d	Dichotomous	90	31	(34.4%)	93	10	(10.8%)	OR=4.361 (CI: 1.985, 9.581)
at least 50% pain reduction (NRS) - 91d	Dichotomous	90	22	(24.4%)	93	4	(4.3%)	OR=7.199 (CI: 2.370, 21.868)
patient-reported global improvement:								
PGIC - worse (all grades) or no change – 91d	Dichotomous	90	20	(22.2%)	93	38	(40.9%)	OR=0.414 (CI: 0.217, 0.789)
PGIC - minimally better – 91d	Dichotomous	90	18	(20.0%)	93	11	(11.8%)	OR=1.864 (CI: 0.826, 4.207)
PGIC - at least moderately better – 91d	Dichotomous	90	22	(24.4%)	93	10		OR=2.685 (CI: 1.191, 6.057)
patient-reported improvement in				,			,	,
daily physical and emotional								
functioning, including sleep:								
NRS Sleep – 91d <sup>b</sup>	Continuous	88		2.17 (SD 2.06)	93		4.1 (SD 2.03)	MD=-1.930 (CI: -2.520, -1.340)
major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 91d	Dichotomous	90	19	(21.1%)	93	5	(5.4%)	OR=4.710 (CI: 1.675, 13.240)
adverse events:				,			, ,	,
asthenia – 91d	Dichotomous	90	5	(5.6%)	93	5	(5.4%)	OR=1.035 (CI: 0.289, 3.705)
Blurred vision – 91d	Dichotomous	90	4	(4.4%)	93	0	(0.0%)	OR=9.728 (CI: 0.516, 183.346)
Confusion – 91d <sup>c</sup>	Dichotomous	90	4	(4.4%)	93	1	(1.1%)	OR=4.279 (CI: 0.469, 39.043)
Constipation – 91d	Dichotomous	90	8	(8.9%)	93	2	(2.2%)	OR=4.439 (CI: 0.916, 21.507)
Diarrhoea – 91d	Dichotomous	90	0	(0.0%)	93	1	(1.1%)	OR=0.341 (CI: 0.014, 8.474)
Dizziness – 91d	Dichotomous	90	33	(36.7%)	93	9	(9.7%)	OR=5.404 (CI: 2.403, 12.149)
Dry mouth – 91d	Dichotomous	90	11	(12.2%)	93	0	(0.0%)	OR=27.050 (CI: 1.569, 466.317)
Gait disturbance – 91d	Dichotomous	90	4	(4.4%)	93	0	(0.0%)	OR=9.728 (CI: 0.516, 183.346)
headache – 91d	Dichotomous	90	4	(4.4%)	93	3	(3.2%)	OR=1.395 (CI: 0.303, 6.417)
Nausea – 91d	Dichotomous	90	2	(2.2%)	93	5	(5.4%)	OR=0.400 (CI: 0.076, 2.117)
oedema – 91d	Dichotomous	90	5	(5.6%)	93	3	(3.2%)	OR=1.765 (CI: 0.409, 7.612)
Peripheral oedema – 91d	Dichotomous	90	12	(13.3%)	93	10	(10.8%)	OR=1.277 (CI: 0.522, 3.123)
Somnolence – 91d	Dichotomous	90	23	(25.6%)	93	4	(4.3%)	OR=7.638 (CI: 2.522, 23.133)
Weight gain – 91d	Dichotomous	90	8	(8.9%)	93	0	(0.0%)	OR=19.267 (CI: 1.095, 338.955)
facial oedema – 91d	Dichotomous	90	4	(4.4%)	93	2	(2.2%)	OR=2.116 (CI: 0.378, 11.851)
treatment withdrawal:				• •				,
due to lack of efficacy - 91d	Dichotomous	90	6	(6.7%)	93	22	(23.7%)	OR=0.231 (CI: 0.089, 0.600)
unspecified/other reason – 91d	Dichotomous	90	4	(4.4%)	93	7	(7.5%)	OR=0.571 (CI: 0.161, 2.023)

	poor compliance – 91d	Dichotomous	90	1	(1.1%)		93 0	(0.0%)	OR=3.134 (CI: 0.126, 77.948)
	<sup>a</sup> least squares mean <sup>b</sup> least squares mean; baseline not reported <sup>c</sup> Described as 'thinking abnormal' in evidence table								
			PL	ACE	BO	ALL PI	REGABA	ALIN DOSAGES	
			N	k	mean	N	k	mean	Δ
	patient-reported global improvement:								
	PGIC - worse (all grades) or no change – 91d	Dichotomous	93	38	(40.9%)	275	82	(29.8%)	OR=1.626 (CI: 0.999, 2.648)
	PGIC - minimally better – 91d	Dichotomous	93	11	(11.8%)	275	48	(17.5%)	OR=0.634 (CI: 0.314, 1.280)
	PGIC - at least moderately better – 91d	Dichotomous	93	10	(10.8%)	275	53	(19.3%)	OR=0.505 (CI: 0.245, 1.038)
Comments	-								

Study	Vestergaard et al. (2001)
Pain category	Central pain
Study design	Country: Denmark Design: Crossover Inclusion criteria: central post stroke pain for more than 3 months where nocioceptive, periphrral neuropathy and psychogenic origin were considered unlikely, pain score of at least 4 on an NRS (11-point), age >18 years  Exclusion criteria: dementia or any other cognitive impairment, diabetic neuropathy, malignant disease, recent myocardial infarction, severe heart insufficiency, liver/renal failure, known allergy to lamotrigine, positive hisotry for alcohol o drug abuse, pregnancy or lactation (those of childbearing age were required to use contraception)  Study length (days): 133 Intention-to-treat analysis? Yes
Participants	Total number of patients: 30 Number of males: 18 (60.0%) Underlying cause of neuropathic pain: Post-stroke pain Mean duration of NP (in months): 48 Baseline pain severity: 6 (median NRS (median duration of pain and age)) Mean age: 59
Intervention(s)	(1) Lamotrigine 200 mg/d Intervention: lamotrigine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d

Concomitant treatments	Notes: dose gradually increased et (2) placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed  Drug free baseline period? Unclea Concomitant pain treatment allowed inhibitors were not allowed in the laparacetamol (500mg as needed) were	dose r ed? No (no concom ast 14 days before	itant u	ise o	f anti-depressants, a the trial; acetylsalicy				
Outcomes			LA	мот	RIGINE 200 MG/D	PL	ACE	ВО	
measures and effect sizes			N	k	mean	N	k	mean	_ Δ
	pain score:  NRS/NRS Pain – 0d  NRS/NRS Pain – 56d  major adverse events (defined as leading to withdrawal): any major adverse event – 56d adverse events: any adverse event – 56d moderate to severe – 56d	Continuous Continuous Dichotomous Dichotomous Dichotomous	30 30 30 30 30		med: 6 [rng 4–10] med: 5 (10.0%) (56.7%) (20.0%)	30 30 30 30 30		med: 6 [rng 4–10] med: 7 (0.0%) (60.0%) (10.0%)	OR=7.764 (CI: 0.384, 157.138)  OR=0.872 (CI: 0.312, 2.435)  OR=2.250 (CI: 0.507, 9.993)
	skin-related side effects – 56d treatment withdrawal: due to lack of efficacy – 56d protocol deviation – 56d	Dichotomous Dichotomous Dichotomous			(16.7%) (3.3%) (0.0%)	30 30 30		(6.7%) (10.0%) (3.3%)	OR=2.800 (CI: 0.498, 15.734)  OR=0.310 (CI: 0.030, 3.168)  OR=0.322 (CI: 0.013, 8.235)
	<ul> <li>these were due to mild rash, severe b considered by investigators to possib</li> <li>2 had rash patient took concomitant analgesics</li> </ul>								
Comments	was not clear which treatment this	was associated with treatment (pain so group and 11 had etween groups (but uncertain if this was	th (this cores I no dif more	was ower ferer data	s discovered by invest than the correspond nce in pain scores; re was not reported); t	stigators ding tre escue m here wa	s aft atm nedic as a	er completion of the ent period values): 1: cation usage was rep 7-day baseline perio	od (patients on other medications

Study	Vinik et al. (2007)
Pain category	Peripheral pain
Study design	Country: USA

	Design: Parallel
	Inclusion criteria: PDN for at least 6 months but less than 5 years with an average daily pain score of at least 4 on the NRS 11-point  Exclusion criteria: severe pain not associated with PDN, pain from mononeuropathy, osteoarthritis of ankle or foot, gout, bursitis or fascitis, pain from proximal diabetic neuropathy, diabetic mononeuropathy or diabetic truncal neuropathy, diffuse peripheral neuropathy from causes other than diabetes, MS or other conditions associated with central neuropathic pain, acupuncutre or nerve blocks for pain relief within 30 days of screening, prior use of lamotrigine  Study length (days): 133  Intention-to-treat analysis? Yes
Participants	Total number of patients: 360 Number of males: 195 (54.2%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.275 (NRS (average of arm means)) Mean age: 59.9
Intervention(s)	(1) Lamotrigine 200mg/d Intervention: lamotrigine Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d Notes: 7 week dose escalation and 12 week maintenance phase (2) Lamotrigine 300mg/d Intervention: lamotrigine
	Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d Notes: 7 week dose escalation and 12 week maintenance phase (3) Lamotrigine 400mg/d Intervention: lamotrigine Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d
	Notes: 7 week dose escalation and 12 week maintenance phase  (4) Placebo Intervention: placebo Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No  Concomitant pain treatment allowed? Yes (Paracetamol as rescue, gabapentin and anti-depressents allowed; non-drug therapies like nerve blocks, acupunture or other procedures, analgesics and medications with analgesic properties like dextormethorphan were prohibited)

		LAM	IOTRIG	NE 200MG/D	PL	ACE	во	
		N	k	mean	N	k	mean	Δ
pain score:								
at least 30% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	25	(27.8%)	90			OR=0.688 (CI: 0.343, 1.380
at least 50% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	19	(21.1%)	90	23	(25.6%)	OR=0.791 (CI: 0.364, 1.720
major adverse events								
(defined as leading to withdrawal):	51.1			(4.4.404)		_	(= aa()	00 0 40 40 40 40 40 40 40 40 40 40 40 40
any major adverse event – 133d	Dichotomous	90	10	(11.1%)	90	5	(5.6%)	OR=2.125 (CI: 0.696, 6.487
adverse events:	Diohotomous	00	3	(2.20/)	00	2	(2.20/)	OP-1 517 (CI: 0 247 0 204
Dizziness – 133d headache	Dichotomous Dichotomous	90 90	3 7	(3.3%) (7.8%)	90		(2.2%) (3.3%)	OR=1.517 (CI: 0.247, 9.304 OR=2.446 (CI: 0.612, 9.776
Nausea – 133d	Dichotomous	90	10	(11.1%)	90		(4.4%)	OR=2.688 (CI: 0.810, 8.912
Rash – 133d	Dichotomous	90	13	(14.4%)	90		(8.9%)	OR=1.731 (CI: 0.680, 4.404
treatment withdrawal:	Bionotomodo	00	.0	(11.170)	00	Ū	(0.070)	On-11701 (On 0.000, 1110
unspecified/other reason – 133d	Dichotomous	90	31	(34.4%)	90	28	(31.1%)	OR=1.163 (CI: 0.624, 2.169
<sup>a</sup> calculated from percentages								
		LAM	OTRIGI	NE 300MG/D	PLA	ACEE	30	
		N	k	mean	N	k	mean	Δ
pain score:								
at least 30% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	37	(41.1%)	90	32	(35.6%)	OR=1.000 (CI: 0.516, 1.936)
at least 50% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	28	(31.1%)	90	23	(25.6%)	OR=1.074 (CI: 0.513, 2.247)
major adverse events								
(defined as leading to withdrawal):	Diahatamana	00	40	(44.40/)	00	_	(F. CO()	OD 0.405 (CI. 0.000 0.407)
any major adverse event – 133d adverse events:	Dichotomous	90	10	(11.1%)	90	5	(5.6%)	OR=2.125 (CI: 0.696, 6.487)
Dizziness – 133d	Dichotomous	90	8	(8.9%)	90	2	(2.2%)	OR=4.293 (CI: 0.886, 20.808
headache	Dichotomous	90	19	(21.1%)	90	3	(3.3%)	OR=7.761 (CI: 2.207, 27.287
Nausea – 133d	Dichotomous	90	4	(4.4%)	90	4	(4.4%)	OR=1.000 (CI: 0.242, 4.128)
Rash – 133d	Dichotomous	90	7	(7.8%)	90	8	(8.9%)	OR=0.864 (CI: 0.300, 2.493)
treatment withdrawal:				,			,	, , ,
unspecified/other reason – 133d	Dichotomous	90	34	(37.8%)	90	28	(31.1%)	OR=1.344 (CI: 0.725, 2.492)
<sup>a</sup> calculated from percentages								
		LAM	OTRIGI	NE 400MG/D	PLA	ACEE	30	
		N	k	mean	N	k	mean	Δ
pain score:								
at least 30% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	25	(27.8%)	90	32	(35.6%)	OR=0.464 (CI: 0.219, 0.984)
at least 50% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	16	(17.8%)	90	23	(25.6%)	OR=0.419 (CI: 0.171, 1.028)
major adverse events			-	/			, · · - /	- (
(defined as leading to withdrawal):								
any major adverse event – 133d	Dichotomous	90	15	(16.7%)	90	5	(5.6%)	OR=3.400 (CI: 1.180, 9.801)
adverse events:								
Dizziness – 133d	Dichotomous	90	10	(11.1%)	90	2	(2.2%)	OR=5.500 (CI: 1.170, 25.863
headache	Dichotomous	90	14	(15.6%)	90	3	(3.3%)	OR=5.342 (CI: 1.479, 19.298

	Nausea – 133d Rash – 133d treatment withdrawal:	Dichotomous Dichotomous	90 90	9 11	(10.0%) (12.2%)	90 4 (4.4% 90 8 (8.9%	-,
	unspecified/other reason – 133d	Dichotomous	90	45	(50.0%)	90 28 (31.1	%) OR=2.214 (CI: 1.205, 4.068)
	a calculated from percentages						
Comments	this entry summaries study 1 from this pub	this entry summaries study 1 from this publication; there was a 7 day baseline period					

Study	Vinik et al. (2007)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: PDN for at least 6 months but less than 5 years with an average daily pain score of at least 4 on the NRS 11-point  Exclusion criteria: severe pain not associated with PDN, pain from mononeuropathy, osteoarthritis of ankle or foot, gout, bursitis or fascitis, pain from proximal diabetic neuropathy, diabetic mononeuropathy or diabetic truncal neuropathy, diffuse peripheral neuropathy from causes other than diabetes, MS or other conditions associated with central neuropathic pain, acupuncutre or nerve blocks for pain relief within 30 days of screening, prior use of lamotrigine  Study length (days): 133  Intention-to-treat analysis? Yes
Participants	Total number of patients: 360 Number of males: 195 (54.2%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): not reported Baseline pain severity: 6.225 (NRS (average of arm means)) Mean age: 59.9
Intervention(s)	(1) Lamotrigine 200mg/d Intervention: lamotrigine Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d (2) Lamotrigine 300mg/d Intervention: lamotrigine Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose Set dose: 300mg/d (3) Lamotrigine 400mg/d Intervention: lamotrigine Length of treatment (weeks): 19

	Fixed/Havible data regiment Fixed data								
	Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d								
	(4) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): 19 Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? No								
reatments	Concomitant pain treatment allowed? Yes (ga	hanentin and anti-d	enresse	nts allo	wed non-drug	theranie	s lik	nerve blo	cks, acupuntures or other
	procedures, analgesics and medications with								
Outcomes measures and			LAM	OTRIGI	NE 200MG/D	PLA	CEE	30	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:								
	at least 30% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous Dichotomous	90 90	32 21	(35.6%) (23.3%)	90 90	25	(27.8%)	OR=0.661 (CI: 0.295, 1.478) OR=1.091 (CI: 0.481, 2.474)
	at least 50% pain reduction (NRS) – 133d <sup>a</sup> major adverse events	Dichotomous	90	21	(23.3%)	90	19	(21.1%)	OR=1.091 (Cl. 0.461, 2.474)
	(defined as leading to withdrawal):								
	any major adverse event – 133d	Dichotomous	90	10	(11.1%)	90	9	(10.0%)	OR=1.125 (CI: 0.434, 2.915)
	adverse events: Dizziness – 133d	Dichotomous	90	4	(4.4%)	90	6	(6.7%)	OR=0.651 (CI: 0.177, 2.390)
	Nausea – 133d	Dichotomous	90	11	(12.2%)	90		(7.8%)	OR=1.651 (CI: 0.610, 4.472)
	Rash – 133d	Dichotomous	90	9	(10.0%)	90	8	(8.9%)	OR=1.139 (CI: 0.419, 3.098)
	treatment withdrawal: unspecified/other reason – 133d	Dichotomous	90	32	(35.6%)	90	32	(35.6%)	OR=1.000 (CI: 0.543, 1.841)
	a calculated from percentages				(0010,0)			(001070)	
				OTDIOL	NE COOM O/D		-		
					NE 300MG/D		CEE		•
			N	k	mean	N	K	mean	Δ
	pain score:	Dichotomous	00	20	(24.40/)	00	O.F.	(27.00/)	OD 4 440 (CL 0 FE2 2 200)
	at least 30% pain reduction (NRS) – 133d <sup>a</sup> at least 50% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90 90	28 20	(31.1%) (22.2%)	90 90	25 19	(27.8%) (21.1%)	OR=1.149 (CI: 0.553, 2.388) OR=1.091 (CI: 0.481, 2.474)
	major adverse events	Bioliotomodo	00		(22.270)	00		(211170)	GR = 1.001 (GR 0.101, 2.17 1)
	(defined as leading to withdrawal):								
	any major adverse event – 133d	Dichotomous	90	9	(10.0%)	90	9	(10.0%)	OR=1.000 (CI: 0.378, 2.648)
	adverse events: Dizziness – 133d	Dichotomous	90	6	(6.7%)	90	6	(6.7%)	OR=1.000 (CI: 0.310, 3.226)
	Nausea – 133d	Dichotomous	90	5	(5.6%)	90		(7.8%)	OR=0.697 (CI: 0.213, 2.285)
	Rash – 133d	Dichotomous	90	10	(11.1%)		8	(8.9%)	OR=1.281 (CI: 0.481, 3.412)
	treatment withdrawal:				,				,
	unspecified/other reason – 133d	Dichotomous	90	32	(35.6%)	90	32	(35.6%)	OR=1.000 (CI: 0.543, 1.841)
	<sup>a</sup> calculated from percentages								

			N	k	mean	N	k	mean	Δ
	pain score:								
	at least 30% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	27	(30.0%)	90	25	(27.8%)	OR=0.859 (CI: 0.399, 1.846)
	at least 50% pain reduction (NRS) – 133d <sup>a</sup>	Dichotomous	90	20	(22.2%)	90	19	(21.1%)	OR=0.911 (CI: 0.391, 2.122)
	major adverse events				,			,	,
	(defined as leading to withdrawal):								
	any major adverse event – 133d	Dichotomous	90	15	(16.7%)	90	9	(10.0%)	OR=1.800 (CI: 0.744, 4.357)
	adverse events:				, ,			, ,	,
	Dizziness – 133d	Dichotomous	90	9	(10.0%)	90	6	(6.7%)	OR=1.556 (CI: 0.530, 4.568)
	Nausea – 133d	Dichotomous	90	5	(5.6%)	90	7	(7.8%)	OR=0.697 (CI: 0.213, 2.285)
	Rash – 133d	Dichotomous	90	14	(15.6%)	90	8	(8.9%)	OR=1.888 (CI: 0.750, 4.752)
	treatment withdrawal:								
	unspecified/other reason – 133d	Dichotomous	90	42	(46.7%)	90	32	(35.6%)	OR=1.586 (CI: 0.872, 2.884)
	2								
	<sup>a</sup> calculated from percentages								
Comments	this entry summaries study 2 from this publica	ation;there was a 7 c	lay base	line pe	eriod				

Study	Vranken et al. (2008)
Pain category	Central pain
Study design	Country: Holland Design: Parallel Inclusion criteria: Severe neuropathic pain caused by brain and spinal cord injuries for at least 6 months, with a pain score of at least 60mm on a VAS 100mm Exclusion criteria: pregnancy, history of intolerance, hypersensitivity or known allergy tp pregabalin, known history of significant heaptic, renal or spychiatric disorder, hisotry of galactose intolerance, lactase deficieincy, glucose-galactose malabsorption, < 60ml/min creatinine clearnace Study length (days): 28 Intention-to-treat analysis? Yes
Participants	Total number of patients: 40 Number of males: 19 (47.5%) Underlying cause of neuropathic pain: Central pain Mean duration of NP (in months): not reported Baseline pain severity: 7.5 (VAS (average of means)) Mean age: 54.45
Intervention(s)	(1) Pregabalin (flexible dose) Intervention: pregabalin Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible dose Range: 150–600

	Notes: titrated at 3-day intervals (15 (2) Placebo Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Flexible	•	d with	1, 2 (	or 4 daily capsules)			
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed	? Yes (Opioids, a	ınti-dep	ress	ants, NSAIDs if stable for	at leas	t 90 days before stu	udy)
Outcomes			PRE	GAB	ALIN (FLEXIBLE DOSE)	PL	ACEBO	
measures and effect sizes			N	k	mean	N	k mean	Δ
	pain score:  VAS – 0d  VAS – 28d  major adverse events	Continuous Continuous	20 20		7.6 (SD 0.8) 5.1 (SD 2.9)	20 20	7.4 (SD 1) 7.3 (SD 2)	MD=-2.180 (CI: -3.795, -0.565)
	(defined as leading to withdrawal): any major adverse event – 28d adverse events:	Dichotomous	20	3	(15.0%)	20	3 (15.0%)	OR=1.000 (CI: 0.176, 5.673)
	Cognitive impairment – 28d <sup>a</sup> Confusion Dizziness – 28d Nausea – 28d Peripheral oedema – 28d Somnolence – 28d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	20 20 20 20 20 20 20	6 7 7 6 1 9	(30.0%) (35.0%) (35.0%) (30.0%) (5.0%) (45.0%)	20 20 20 20	6 (30.0%) 4 (20.0%)	OR=0.643 (CI: 0.174, 2.381) OR=2.154 (CI: 0.515, 9.000) OR=1.256 (CI: 0.334, 4.733) OR=1.714 (CI: 0.400, 7.340) OR=0.211 (CI: 0.021, 2.079) OR=1.000 (CI: 0.288, 3.476)
	overall improvement in quality of life: SF36 Mental – 0d SF36 Mental – 28d SF36 Physical – 0d SF36 Physical – 28d EQ-5D - health status index – 0d EQ-5D - health status VAS – 0d	Continuous Continuous Continuous Continuous Continuous Continuous Continuous	20 20 20 20 20 20 20 20		67.5 (SD 19.2) 70.3 (SD 18.8) 31.5 (SD 21.4) 34 (SD 23.4) 0.28 (SD 0.32) med: 0.59 <sup>b</sup> 60.4 (SD 17)	20 20 20 20 20 20 20 20	63.2 (SD 22) 62 (SD 21.3) 30.5 (SD 23.8) 30 (SD 23.5) 0.16 (SD 0.34) med: 0.06° 50.1 (SD 19.7)	MD=8.300 (CI: -4.151, 20.751) MD=4.000 (CI: -10.534, 18.534)
	EQ-5D - health status VAS – 28d treatment withdrawal: due to lack of efficacy – 28d	Continuous Dichotomous	20	0	65.7 (SD 17) (0.0%)	20	37.8 (SD 18.5) 1 (5.0%)	MD=27.900 (CI: 16.889, 38.911) OR=0.317 (CI: 0.012, 8.260)
	<ul> <li>a study reported 'cognitive performance'</li> <li>b instead of dispersion, IQR was reporte</li> <li>c instead of dispersion, IQR was reporte</li> </ul>	d (0.52, 0.67)						
Comments	those on gabapentin had to disconti		days l	pefor	e the start of the study			

Study	Vranken et al. (2011)
Pain category	Central pain
Study design	Country: Holland

	Design: Parallel Inclusion criteria: Participants with neurol higher Exclusion criteria: pregnancy, history of it psychiatric disorder, use of antidepressal Study length (days): 56 Intention-to-treat analysis? Yes	ntolerance, hyperse	nsitivit	y or	known allergy to			-	-
Participants	Total number of patients: 48  Number of males: not reported  Underlying cause of neuropathic pain: Sp  Mean duration of NP (in months): not rep  Baseline pain severity: 7.15 (VAS (avera  Mean age: not reported	orted	1						
Intervention(s)	(1) Duloxetine flexi Intervention: duloxetine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose Mean dose: 99.1mg/d (SD: 29.2) Range: 60–120 Notes: Patients received either 60 or 120 (2) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Flexible dose	) mg/d; mean usage	at end	d of s	study was 99.1 n	ng ( 2:	9.2)		
Concomitant treatments	Drug free baseline period? No Concomitant pain treatment allowed? Ye before study. Anti-depressants discontinu	s (Oral medication fued for 30 days prio	or pair	n we artinç	re allowed if neu g study. No new a	ropatl analg	nic pa esic t	in treatment was reatment alllowe	s on a stable regimen at least 6 weeks d during study.)
Outcomes measures and			DUI	OXE	TINE FLEXI	Pl	ACE	30	
effect sizes			N	k	mean	N	k	mean	Δ
	pain score:  VAS – 0d <sup>a</sup> VAS – 28d <sup>b</sup> VAS – 56d <sup>a</sup> patient-reported global improvement:  PGIC - much worse – 56d  PGIC - moderately worse – 56d  PGIC - minimally worse – 56d  PGIC - no change – 56d  PGIC - minimally better – 56d	Continuous Continuous Continuous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	24 24 24 24 24 24 24 24	1 1 10	7.1 (SD 0.8) 5.3 (SD 2) 5 (SD 2) (0.0%) (4.2%) (4.2%) (41.7%) (25.0%)	24 24 24		7.2 (SD 0.8) 5.9 (SD 2.1) 6.1 (SD 1.7) (0.0%) (0.0%) (16.7%) (66.7%) (16.7%)	MD=-0.600 (CI: -1.760, 0.560) MD=-1.100 (CI: -2.150, -0.050) OR=1.000 (CI: 0.019, 52.443) OR=3.128 (CI: 0.121, 80.684) OR=0.217 (CI: 0.022, 2.108) OR=0.357 (CI: 0.110, 1.156) OR=1.667 (CI: 0.404, 6.870)

	PGIC - at least moderately better – 56d	Dichotomous	24 5	(20.8%)	24 0	(0.0%)	OR=13.821 (CI: 0.719, 265.518)
	PGIC - much better – 56d	Dichotomous	24 1	(4.2%)	24 0	(0.0%)	OR=3.128 (CI: 0.121, 80.684)
	adverse events:			( /		()	, , , , , , , , , , , , , , , , , , , ,
	Confusion – 56d	Dichotomous	24 3	(12.5%)	24 0	(0.0%)	OR=7.977 (CI: 0.390, 163.333)
	Constipation – 56d	Dichotomous	24 0	(0.0%)	24 2	(8.3%)	OR=0.184 (CI: 0.008, 4.036)
	Dizziness – 56d	Dichotomous	24 4	(16.7%)	24 2	(8.3%)	OR=2.200 (CI: 0.363, 13.338)
	Dry mouth – 56d	Dichotomous	24 1	(4.2%)	24 0	(0.0%)	OR=3.128 (CI: 0.121, 80.684)
	headache – 56d	Dichotomous	24 3	(12.5%)	24 2	(8.3%)	OR=1.571 (CI: 0.238, 10.365)
	nausea/vomiting – 56d	Dichotomous	24 5	(20.8%)	24 2	(8.3%)	OR=2.895 (CI: 0.503, 16.674)
	Somnolence – 56d	Dichotomous	24 12		24 2	(8.3%)	OR=11.000 (CI: 2.104, 57.504)
	urination difficulties – 56d	Dichotomous	24 2 <sup>c</sup>	(8.3%)	24 0 <sup>d</sup>	(0.0%)	OR=5.444 (CI: 0.248, 119.632)
	overall improvement in quality of life:			(/		()	(
	SF36 Mental – 0d	Continuous	24	68 (SD 17)	24	72 (SD 19)	
	SF36 Mental – 56d	Continuous	24	73 (SD 19)	24	73 (SD 19)	MD=0.000 (CI: -10.750, 10.750)
	SF36 Physical – 0d	Continuous	24	39 (SD 25)	24	38 (SD 28)	(,
	SF36 Physical – 56d	Continuous	24	41 (SD 27)	24	39 (SD 25)	MD=2.000 (CI: -12.721, 16.721)
	EQ-5D - health status index – 0d	Continuous	24	0.36 (SD 0.33)	24	0.24 (SD 0.3)	, , ,
	EQ-5D - health status index – 56d	Continuous	24	4 (SD 0.31)	24	0.37 (SD 0.34)	MD=3.630 (CI: 3.446, 3.814)
	EQ-5D - health status VAS – 0d	Continuous	24	63 (SD 18)	24	56 (SD 18)	
	EQ-5D - health status VAS – 56d	Continuous	24	59 (SD 21)	24	53 (SD 17)	MD=6.000 (CI: -4.809, 16.809)
	treatment withdrawal:			()		(,	(,
	due to lack of efficacy – 56d	Dichotomous	24 1	(4.2%)	24 0	(0.0%)	OR=3.128 (CI: 0.121, 80.684)
	unspecified/other reason – 56d	Dichotomous	24 3	(12.5%)	24 1	(4.2%)	OR=3.286 (CI: 0.317, 34.083)
	<u> </u>			(12.070)		(1.270)	
	<ul> <li>denominators not reported for this outcome to</li> <li>estimated from graph; denominators not reported</li> </ul>		hut occum	and on ITT			
	study reported 'micturition'	orted for this outcome	: Dui assuli	icu as i i i			
	a study reported 'miction'						
Comments	_						

Study	Vrethem et al. (1997)
Pain category	Peripheral pain
Study design	Country: Sweden Design: Crossover Inclusion criteria: polyneuropathy for at least 6 months with no signs of central, nocioceptive or psychogenic pain (polyneuropathy diagnosis required at least 2 of: distal sensory impairment, distal bilateral msucle weakness or atrophy, bileateral decrease or loss of tendon reflexes Exclusion criteria: patients with other neurologic diseases Study length (days): 98 Intention-to-treat analysis? No
Participants	Total number of patients: 37 Number of males: 17 (45.9%) Underlying cause of neuropathic pain: Polyneuropathy Mean duration of NP (in months): 48

	Baseline pain severity: 4.55 (VRS-	10-step (average of	arm n	neans	- diabetic patients	had mea	an 5	.0 [1.4] score and	non-diabetic patients had 4.1[1.9])
	Mean age: 61								
Intervention(s)	(1) Amitriptyline 75 mg/d Intervention: amitriptyline Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed Set dose: 75mg/d Notes: days 1-3: 25 mg/d, 4-6: 50 r (2) placebo (lactose) Intervention: placebo Length of treatment (weeks): 4 Fixed/flexible dose regimen: Fixed	ng/d, from day 7: 7	5 mg/d	I					
Concomitant treatments  Outcomes	Drug free baseline period? Unclear Concomitant pain treatment allowe								
measures and effect sizes			AM N	AMITRIPTYLINE 75 MG/D PLACEBO (LACTOSE)  N k mean  N k mean				BO (LACTOSE) mean	_ Δ
	patient-reported improvement in daily physical and emotional functioning, including sleep: Better sleep – 28d major adverse events (defined as leading to withdrawal): any major adverse event – 28d adverse events: any adverse event – 28d Dry mouth – 28d hyperglycaemia – 28d Nausea – 28d Sedation – 28d tachycardia – 28d Urine retention – 28d urticaria – 28d vertigo – 28d	Dichotomous  Dichotomous	35 35 35 35 35 35 35 35 35 35 35	11 <sup>a</sup> 3 <sup>b</sup> 24 <sup>c</sup> 12 <sup>e</sup> 1 <sup>g</sup> 1 <sup>h</sup> 12 <sup>i</sup> 0 1 <sup>k</sup> 0 7 <sup>i</sup>	(31.4%) (8.6%) (68.6%) (34.3%) (2.9%) (2.9%) (34.3%) (0.0%) (2.9%) (0.0%)	33 33 33 33 33 33 33 33 33 33 33 33	4 0 6 d 2 f 0 0 3 j 0 0 0 1 h	(12.1%) (0.0%) (18.2%) (6.1%) (0.0%) (0.0%) (0.0%) (0.0%) (0.0%) (0.0%) (3.0%)	OR=3.323 (CI: 0.937, 11.782)  OR=7.215 (CI: 0.358, 145.247)  OR=9.818 (CI: 3.151, 30.594)  OR=8.087 (CI: 1.647, 39.702)  OR=2.913 (CI: 0.115, 74.063)  OR=2.913 (CI: 0.115, 74.063)  OR=5.217 (CI: 1.317, 20.673)  OR=0.944 (CI: 0.018, 48.924)  OR=2.913 (CI: 0.115, 74.063)  OR=0.944 (CI: 0.018, 48.924)  OR=0.944 (CI: 0.018, 48.924)  OR=8.000 (CI: 0.926, 69.078)
	diabetes pain score: VRS – 0d <sup>m</sup> VRS – 28d <sup>n</sup> no diabetes pain score:	Continuous Continuous	17 17		5.3 (SD 1.4) 3.65 (SD 1.7)	17 17		5.3 (SD 1.4) 5.5 (SD 1.55)	MD=-1.850 (CI: -2.945, -0.755)
	VRS – 0d <sup>m</sup> VRS – 28d <sup>n</sup> a 2 with better sleep did not have better	Continuous Continuous	17 16		4.3 (SD 1.76) 3.55 (SD 1.96)	17 16		4.3 (SD 1.76) 3.85 (SD 2.16)	MD=-0.300 (CI: -1.726, 1.126)

	due to hyperglycaemia, severe thirst and urinary retention 17 mild, 4 moderate, 3 severe 4 mild, 2 moderate 10 were mild, 2 moderate 1 was mild severe (not directly related to the treatment but could have been caused by lethargy and slight confusion which made the patient forget her insulin treatment) mild 10 mild, 2 moderate 2 mild, 1 moderate severe 5 mild, 2 moderate measured as daily verbal assessment; average of morning and evening scores measured as daily verbal assessment; average of morning and evening scores taken over the last week (days 22 to 28)
Comments	19 patients were diabetic; 1 patient with severe depression was excluded and treated by a psychiatrist and another discontinued the study after taking only one dose (but it was not clear what treatment the patient was receiving at the time of withdrawal); authors considered at least 20% pain reduction a response to treatment

Study	Wade et al. (2004)
Pain category	Central pain
Study design	Country: UK Design: Parallel Inclusion criteria: clinically confirmed MS of any type (undertaken through history, full examination, and full review of hospital notes) that is stable over the preceeding 4 weeks with no relapse (confirmed clinically on study entry) and be on stable regular medication for the past 4 weeks; participants included for pain as the primary symptom were required to have pain that was not obviously musculoskeletal and was at least 50% of maximal severity on a VAS  Exclusion criteria: current or past history of drug or alcohol abuse, significant psychiatric illness other than depression associated with MS, serious cardiovascular disorder, significant renal or hepatic impairment or history of epilepsy, planned visit abroad during the active study  Study length (days): - Intention-to-treat analysis? Unclear
Participants	Total number of patients: 37  Number of males: not reported  Underlying cause of neuropathic pain: MS neuropathic pain  Mean duration of NP (in months): not reported  Baseline pain severity: not reported ((data on patient demographics is from all 160 patients included in the study with various primary symptoms including pain, tremor, bladder control, spasticity, and spasm))  Mean age: 50.7
Intervention(s)	(1) Sativex pump action spray flexible dose Intervention: cannabis sativa extract Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexible dose

	participants day with no (2) Placebo Intervention Length of t Fixed/flexib	mg THC and 2.5 mg CBD with each in the stitrated individually and recorded to more than 20 mg of each in any 3 to spray flexible dose	he number -hour period	of doses t d); averag	hey tried in a diary ( e dose of the subgro	increments would be with pain	vere no as the	more than 12 primary symp	0 mg THC and 120 mg CBD per tom was not clear
Concomitant treatments		paseline period? No nt pain treatment allowed? Yes (Sa	tivex was ta	aken as ad	ljuvant treatment so	patients wer	e asked	d to continue c	on concomitant medication)
Outcomes measures and			SATIVEX PUMP ACTION SPRAY FLEXIBLE DOSE					PRAY FLEXIBL	E
effect sizes			N	k	mean	N	k	mean	Δ
	pain score: VAS – 35d <sup>a</sup>	Mean difference from baseline to average f-u	18	44.055	-9.83	19		-19.9	MD=10.040 (CI: -6.522, 26.602)
Comments	This study stratified by metabolize	line to last 2 weeks of treatment (so average has been included, despite the fact by primary MS symptom and results and by certain cytochrome P450 enzy line period. Other outcomes were re-	that it inclu are also se mes such a	des patier parated by as tricyclic	nts with MS with sym symptom. Authors antidepressants and	nptoms other stated that ca d anticonvuls	than ne aution v ants. P	europathic pai vas exercised atients were a	n as the randomisation was for those taking drugs ssessed for eligibility after a 2-

Study	Watson & Evans (1992)
Pain category	Peripheral pain
Study design	Country: Canada Design: Parallel Inclusion criteria: Neuropathic post mastectomy pain for more than 3 months with at least moderate or severe pain for at least one half of the day Exclusion criteria: open skin lesionsi n area of pain, other skin conditions in the affected area, severe depression with voiced suicidal intent, another unrelated significant pain problem Study length (days): 42 Intention-to-treat analysis? No
Participants	Total number of patients: 25 Number of males: 0 (0.0%) Underlying cause of neuropathic pain: Post-surgical pain after surgery for cancer

	Mean duration of NP (in months): 48								
	Baseline pain severity: 59.95 (VAS (average of arm me	ans))							
	Mean age: 58								
Intervention(s)	(1) Capsaicin 0.075% 4x per day								
	Intervention: capsaicin cream Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dose								
	(2) Placebo								
	Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? No								
treatments	Concomitant pain treatment allowed? Yes (Participants	could continue	with	previ	ous analgesics if nee	eded b	ut	no topical age	ents)
Outcomes			CAE	OS AIC	IN 0.075% 4X PER				
measures and		DAY	71N 0.073 /6 4X F LIX	PLACEBO					
effect sizes			N	k	mean	N	k	mean	Δ
	pain score: VAS – 0d	Continuous	13		59.9 (SD 17.1)	10		60 (SD 16.2)	MD 0 200 /OL 20 004
	VAS – 42d	Mean change	12		-17.8 (SD 24.8)	10		-9.6 (SD 25)	MD=-8.200 (CI: -29.084, 12.684)
	patient-reported global improvement:	3			- ( /			- (,	,
	at least 50% improvement in global ratings of pain status – 42d major adverse events	Dichotomous	14	8	(57.1%)	11	3	(27.3%)	OR=3.556 (CI: 0.651, 19.412
	(defined as leading to withdrawal):  any major adverse event – 42d adverse events:	Dichotomous	14	1	(7.1%)	11	0	(0.0%)	OR=2.556 (CI: 0.095, 68.999 OR=60.000 (CI: 4.718,
	Burning pain – 42d	Dichotomous	14	12	(85.7%)	11	1	(9.1%)	763.007)
	treatment withdrawal: unspecified/other reason – 42d	Dichotomous	14	1	(7.1%)	11	1	(9.1%)	OR=0.769 (CI: 0.043, 13.866

Study	Watson et al. (1993)
Pain category	Peripheral pain
Study design	Country: USA & Canada Design: Parallel
	Inclusion criteria: Participants aged 18 and over with PHN for at least 6 months who had been poorly or incompletely controlled with oral analgesics,

	antidepressants or antico	onvulsants						
	· ·	ant or lactating women, pati	ients with other s	kin conditi	ons in the dermatome	areas of sk	in affected I	hy PHN
	•	ant or lactating women, pati	ienis with other s	KIII COHUILI	ons in the definations	aleas of sk	iii aiiecteu i	Буттич
	Study length (days): 42							
	Intention-to-treat analysis	s? No						
Participants	Total number of patients:	: 143						
	Number of males: 90 (62	2.9%)						
	· ·	ropathic pain: Post-herpetic	nouralaia					
			rieuraigia					
	Mean duration of NP (in	•						
					n and 10% in placebo	had very se	evere initial	pain severity while 91% and
	90% in these groups, res	spectively, had moderate/se	evere initial pain s	severity))				
	Mean age: 70.8							
Intervention(s)	(1) Capasaicin 0.075% a	pplied 4 times per day						
	Intervention: capsaicin ci							
	Length of treatment (wee							
	Fixed/flexible dose regim							
	(2) Placebo							
	` '							
	Intervention: placebo	aka). 6						
	Length of treatment (wee Fixed/flexible dose regime	•						
	Notes: unclear if placebo							
Concomitant	Drug free baseline period							
treatments		ent allowed? Yes (Previous				vever, 6 pat	ents were e	excluded because they
N.	received concomitant psy	ychoactive medication (this	was not reported	d as exclus	ion criteria))			
Outcomes				SAICIN 0.07	5% APPLIED 4 TIMES			
measures and effect sizes			DAY				ACEBO	_
			N	k	mean	N	k mean	Δ
	major adverse events							
	(defined as leading to							
	withdrawal):							OP-10 769 (CL 2 205
	any major adverse event 42d	<ul> <li>Dichotomous</li> </ul>	74	18	(24.3%)	69	2 (2.9%)	OR=10.768 (CI: 2.395, 48.420)
	adverse events:	Dictiolofficus	74	10	(27.070)	09	~ (~.3/0)	OR=6.804 (CI: 0.345,
	asthenia	Dichotomous	74	3	(4.1%)	69	0 (0.0%)	134.164)
	Burning pain – 42d	Dichotomous	74	45	(60.8%)		23 (33.3%)	
	Diarrhoea	Dichotomous	74	0	(0.0%)	69	2 (2.9%)	OR=0.181 (CI: 0.009, 3.842)
	Dizziness – 42d	Dichotomous	74	1	(1.4%)	69	0 (0.0%)	OR=2.837 (CI: 0.114, 70.811)
	DIZZIIIESS – 4ZU	Dicholomous	14	1	(1.470)	69	0 (0.0%)	OR=4.793 (CI: 0.226,
	headache	Dichotomous	74	2	(2.7%)	69	0 (0.0%)	101.628)
					, ,		. ,	OR=4.793 (CI: 0.226,
	Infection	Dichotomous	74	2	(2.7%)	69	0 (0.0%)	101.628)

	Nausea – 42d	Dichotomous	74	2	(2.7%)	69 0	(0.0%)	OR=4.793 (CI: 0.226, 101.628)	
	Pain lasting over 12 months								
	pain score: VAS – 28d <sup>a</sup>	Percentage change from baseline Percentage change from			21.5		1.1	MD=20.400	
	VAS – 42d <sup>a</sup>	baseline			15		5.2	MD=9.800	
	Pain lasting over 6 months								
	pain score: VAS – 28d <sup>a</sup>	Percentage change from baseline			21.8		9	MD=12.800	
	VAS – 42d <sup>a</sup>	Percentage change from baseline			20.9		5.8	MD=15.100	
	<sup>a</sup> Ns for each arm unclear. Disp	ersion not reported							
Comments	all topical medications were stopped 7 days before the trial started								

Study	Watson et al. (1998)
Pain category	Peripheral pain
Study design	Country: Canada Design: Crossover Inclusion criteria: PHN of more than 3 months duration, with pain of at least moderate severity for at least one-half of the day, no evidence of impaired ability to attend weekly visits or communicate to deal with outcome measures  Exclusion criteria: cardiac disease, seizure disorder, severe depression with voiced suicidal intent requiring urgent management, another significant pain problem, alcoholism, previous brain damage caused by head injury, stroke or other causes  Study length (days): 70 Intention-to-treat analysis? Unclear
Participants	Total number of patients: 33 Number of males: not reported Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 13 Baseline pain severity: not reported (not reported (pain duration is median)) Mean age: not reported
Intervention(s)	(1) Amitriptyline flexible dose Intervention: amitriptyline Length of treatment (weeks): 5 Fixed/flexible dose regimen: Flexible dose Range: 10–160 Notes: stable dosage in last 2 weeks (dosages started at 20 mg/d but at 10 mg/d if aged > 65 years); actual dosage unclear - responders (n = 18

	amitriptyline, 17 nortriptyline either drug)	e) had mean 58	.09 mg/	d (on eith	her drug) while non-re	espondei	rs (13 am	itriptyline, 14 nortripty	rline) had mean 68.57 mg/d (o
	(2) Nortriptyline flexible dos	е							
	Intervention: nortriptyline Length of treatment (weeks Fixed/flexible dose regimen Range: 10–160 Notes: stable dosage in last amitriptyline, 17 nortriptyline	: Flexible dose t 2 weeks (dosa							
oncomitant eatments	Drug free baseline period? Yes (duration: 21d)  Concomitant pain treatment allowed? Unclear (anti-depressants and neuroleptic therapy were withdrawn in first 3 week period but patients were allowed to continue with use of analgesics as needed during the trial as they had previously and this was reported daily (but it is unclear if these other analgesics would be concomitant medications or rescue medications))								
utcomes			AMITI	RIPTYLIN	IE FLEXIBLE DOSE	NORT	RIPTYLI	NE FLEXIBLE DOSE	
easures and			AMITI N	RIPTYLIN k	mean	NORT N	RIPTYLII k	mean	_ Δ
easures and	adverse events:								_ Δ
easures and	adverse events: Constipation – 35d	Dichotomous							- Δ OR=0.590 (CI: 0.214, 1.626)
easures and		Dichotomous Dichotomous	N	k	mean	N	k	mean	OR=0.590 (CI: 0.214, 1.626)
easures and	Constipation – 35d		N 33	<b>k</b>	mean (30.3%)	N 33	<b>k</b>	mean (42.4%)	OR=0.590 (CI: 0.214, 1.626)
easures and	Constipation – 35d dizziness or vertigo – 35d	Dichotomous	33 33 33 33 33	10 3	mean (30.3%) (9.1%)	33 33 33 33 33	14 1	mean (42.4%) (3.0%)	OR=0.590 (CI: 0.214, 1.626) OR=3.200 (CI: 0.315, 32.475) OR=0.621 (CI: 0.158, 2.441) OR=1.508 (CI: 0.425, 5.346)
easures and	Constipation – 35d dizziness or vertigo – 35d Drowsiness – 35d Dry mouth – 35d headache – 35d	Dichotomous Dichotomous Dichotomous Dichotomous	N 33 33 33 33 33 33	10 3 4 28 3	mean (30.3%) (9.1%) (12.1%) (84.8%) (9.1%)	N 33 33 33 33 33 33	14 1 6 26 3	mean (42.4%) (3.0%) (18.2%) (78.8%) (9.1%)	OR=0.590 (CI: 0.214, 1.626) OR=3.200 (CI: 0.315, 32.475) OR=0.621 (CI: 0.158, 2.441) OR=1.508 (CI: 0.425, 5.346) OR=1.000 (CI: 0.187, 5.357)
utcomes easures and ifect sizes	Constipation – 35d dizziness or vertigo – 35d Drowsiness – 35d Dry mouth – 35d headache – 35d lethargy or fatigue – 35d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	33 33 33 33 33 33	10 3 4 28 3 1	(30.3%) (9.1%) (12.1%) (84.8%) (9.1%) (3.0%)	33 33 33 33 33 33 33	14 1 6 26 3 2	(42.4%) (3.0%) (18.2%) (78.8%) (9.1%) (6.1%)	OR=0.590 (CI: 0.214, 1.626) OR=3.200 (CI: 0.315, 32.475) OR=0.621 (CI: 0.158, 2.441) OR=1.508 (CI: 0.425, 5.346) OR=1.000 (CI: 0.187, 5.357) OR=0.484 (CI: 0.042, 5.617)
easures and	Constipation – 35d dizziness or vertigo – 35d Drowsiness – 35d Dry mouth – 35d headache – 35d lethargy or fatigue – 35d Nausea – 35d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	33 33 33 33 33 33 33 33	10 3 4 28 3 1	(30.3%) (9.1%) (12.1%) (84.8%) (9.1%) (3.0%) (3.0%)	33 33 33 33 33 33 33 33	14 1 6 26 3 2	(42.4%) (3.0%) (18.2%) (78.8%) (9.1%) (6.1%) (0.0%)	OR=0.590 (CI: 0.214, 1.626) OR=3.200 (CI: 0.315, 32.475) OR=0.621 (CI: 0.158, 2.441) OR=1.508 (CI: 0.425, 5.346) OR=1.000 (CI: 0.187, 5.357) OR=0.484 (CI: 0.042, 5.617) OR=3.092 (CI: 0.121, 78.704)
easures and	Constipation – 35d dizziness or vertigo – 35d Drowsiness – 35d Dry mouth – 35d headache – 35d lethargy or fatigue – 35d	Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	33 33 33 33 33 33	10 3 4 28 3 1	(30.3%) (9.1%) (12.1%) (84.8%) (9.1%) (3.0%)	33 33 33 33 33 33 33	14 1 6 26 3 2	(42.4%) (3.0%) (18.2%) (78.8%) (9.1%) (6.1%)	OR=0.590 (CI: 0.214, 1.626) OR=3.200 (CI: 0.315, 32.475) OR=0.621 (CI: 0.158, 2.441) OR=1.508 (CI: 0.425, 5.346) OR=1.000 (CI: 0.187, 5.357) OR=0.484 (CI: 0.042, 5.617)

Study	Webster et al. (2010)
Pain category	Peripheral pain
Study design	Country: USA Design: Parallel Inclusion criteria: Aged 18 and over with a diagnosis of PHN and an average NPRS score of 3-9 (inclusive) were eligible if at least 3 months had elapsed since vesicle crusting Exclusion criteria: Pain at or around facial area Study length (days): 84

	Intention to treat analysis? V	••												
	Intention-to-treat analysis? Y													
Participants	Total number of patients: 155													
	Number of males: 72 (46.5%													
	Underlying cause of neuropa	·	algia											
	Mean duration of NP (in mon	•												
	Baseline pain severity: 5.35 (	NRS (average of arm means	))											
	Mean age: 70													
Intervention(s)	(1) Capasaicin 8% single patch (60 minutes only)													
	Intervention: capsaicin patch													
	Length of treatment (weeks): Fixed/flexible dose regimen:	Fixed dose												
	Notes: Study reports 8% cap		ninutes or	nce the	en removed (topical ar	aesthe	etic cre	am applied 60 mins be	fore patches)					
	(2) Placebo patch applied for 60 minutes only													
	Intervention: placebo	·												
	Length of treatment (weeks):													
	Fixed/flexible dose regimen: Notes: 1 hr then removed (to		ied 60 mi	ne haf	ore natches)									
			ea oo mii	113 DC1	ore pateries)									
Concomitant treatments	Drug free baseline period? N													
treatments	Concomitant pain treatment a													
	application (but this was limited to only 25% of patients on concomitant drugs at study entry); however any topically applied pain medication to the affected area within 21 days before application of study patch was exclusion criteria; use of opioid medication that was not orally or transdermally													
	administered or exceeded to	al dose of 60 mg/d morphine	were exc	cluded	; paracetamol up to 2o	g/d allo	wed a	s rescue medication)						
Outcomes							_							
measures and effect sizes			(60 MI	NUTE	CAPASAICIN 8% SINGLE PATCH PLACEBO PATCH APPLIED FOR (60 MINUTES ONLY) 60 MINUTES ONLY									
					ONLT)	60 N		.5 ONL I	<u>.</u>					
			N	k	mean	N	k	mean	Δ					
	pain score:		N	k	•				Δ					
	pain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous	N 102	k	•									
	NRS/NRS Pain – 0d <sup>a</sup>	Continuous Percentage change from baseline	102	k	mean 5.4 (SD 1.62)	N 53		mean 5.3 (SD 1.6)	MD=-8.000 (CI: -					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup>	Percentage change from baseline Mean difference from	102 102	k	mean 5.4 (SD 1.62) -37 (SD 40.4)	N 53 53		mean 5.3 (SD 1.6) -29 (SD 32.8)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: -					
	NRS/NRS Pain – 0d <sup>a</sup>	Percentage change from baseline Mean difference from baseline to average f-u	102	k	mean 5.4 (SD 1.62)	N 53		mean 5.3 (SD 1.6)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459)					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup>	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u	102 102	k	mean 5.4 (SD 1.62) -37 (SD 40.4)	N 53 53		mean 5.3 (SD 1.6) -29 (SD 32.8)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459)					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 35d <sup>c</sup> NRS/NRS Pain – 49d <sup>d</sup>	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u Percentage change from	102 102 102 102	k	mean  5.4 (SD 1.62)  -37 (SD 40.4)  -1.8 (SD 2.02)  -1.8 (SD 2.02)	N 53 53 53		mean  5.3 (SD 1.6)  -29 (SD 32.8)  -1.6 (SD 1.97)  -1.6 (SD 1.97)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459) MD=-4.000 (CI: -					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 35d <sup>c</sup> NRS/NRS Pain – 49d <sup>d</sup> NRS/NRS Pain – 56d <sup>b</sup>	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u Percentage change from baseline Percentage change from	102 102 102 102 102	k	mean  5.4 (SD 1.62)  -37 (SD 40.4)  -1.8 (SD 2.02)  -1.8 (SD 2.02)  -37.5 (SD 40.4)	53 53 53 53 53		mean  5.3 (SD 1.6) -29 (SD 32.8) -1.6 (SD 1.97) -1.6 (SD 1.97) -33.5 (SD 43.7)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459) MD=-4.000 (CI: - 18.134, 10.134) MD=2.500 (CI: -					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 35d <sup>c</sup> NRS/NRS Pain – 49d <sup>d</sup> NRS/NRS Pain – 56d <sup>b</sup> NRS/NRS Pain – 84d <sup>b</sup>	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u Percentage change from baseline	102 102 102 102	k	mean  5.4 (SD 1.62)  -37 (SD 40.4)  -1.8 (SD 2.02)  -1.8 (SD 2.02)	N 53 53 53		mean  5.3 (SD 1.6)  -29 (SD 32.8)  -1.6 (SD 1.97)  -1.6 (SD 1.97)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459) MD=-4.000 (CI: - 18.134, 10.134) MD=2.500 (CI: - 6.495, 11.495)					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 35d <sup>c</sup> NRS/NRS Pain – 49d <sup>d</sup> NRS/NRS Pain – 56d <sup>b</sup> NRS/NRS Pain – 84d <sup>b</sup> at least 30% pain reduction (NRS) – 84d	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u Percentage change from baseline Percentage change from	102 102 102 102 102	<b>k</b>	mean  5.4 (SD 1.62)  -37 (SD 40.4)  -1.8 (SD 2.02)  -1.8 (SD 2.02)  -37.5 (SD 40.4)	53 53 53 53 53		mean  5.3 (SD 1.6) -29 (SD 32.8) -1.6 (SD 1.97) -1.6 (SD 1.97) -33.5 (SD 43.7)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459) MD=-4.000 (CI: - 18.134, 10.134) MD=2.500 (CI: - 6.495, 11.495) OR=0.999 (CI: 0.514, 1.939)					
	NRS/NRS Pain – 0d <sup>a</sup> NRS/NRS Pain – 28d <sup>b</sup> NRS/NRS Pain – 35d <sup>c</sup> NRS/NRS Pain – 49d <sup>d</sup> NRS/NRS Pain – 56d <sup>b</sup> NRS/NRS Pain – 84d <sup>b</sup> at least 30% pain reduction	Percentage change from baseline Mean difference from baseline to average f-u Mean difference from baseline to average f-u Percentage change from baseline Percentage change from baseline	102 102 102 102 102 102		mean  5.4 (SD 1.62) -37 (SD 40.4) -1.8 (SD 2.02) -1.8 (SD 2.02) -37.5 (SD 40.4) -36.5 (SD 22.7)	53 53 53 53 53 53	k	mean  5.3 (SD 1.6) -29 (SD 32.8) -1.6 (SD 1.97) -1.6 (SD 1.97) -33.5 (SD 43.7) -39 (SD 29.1)	MD=-8.000 (CI: - 19.801, 3.801) MD=-0.200 (CI: - 0.859, 0.459) MD=-0.200 (CI: - 0.859, 0.459) MD=-4.000 (CI: - 18.134, 10.134) MD=2.500 (CI: - 6.495, 11.495) OR=0.999 (CI: 0.514,					

mprovement: PGIC - worse (all grades) or no change – 28d	Dichotomous	102	60	(58.8%)	53	30	(56.6%)	OR=1.095 (CI: 0.5) 2.143)
PGIC - worse (all grades) or no change – 56d	Dichotomous	102	48	(47.1%)	53	29	(54.7%)	OR=0.736 (CI: 0.3 1.432)
PGIC - worse (all grades) or no	Dichotomous		40	(47.1%)	55	29	(34.7%)	OR=0.579 (CI: 0.2)
change – 84d	Dichotomous	102	54	(52.9%)	53	35	(66.0%)	1.152) OR=1.154 (CI: 0.5
PGIC - better (all grades) - 28d	Dichotomous	102	40	(39.2%)	53	19	(35.8%)	2.297) OR=2.030 (CI: 0.9
PGIC - better (all grades) - 56d	Dichotomous	102	43	(42.2%)	53	14	(26.4%)	4.197) OR=1.703 (CI: 0.8
PGIC - better (all grades) – 84d najor adverse events defined as leading to	Dichotomous	102	41	(40.2%)	53	15	(28.3%)	3.487)
vithdrawal):	Dishatamana	400	0	(0.00()	50	0	(0.00()	OR=0.522 (CI: 0.0
any major adverse event – 84d adverse events:	Dicnotomous	102	0	(0.0%)	53	0	(0.0%)	26.673) OR=2.610 (CI: 1.2
any adverse event – 84d	Dichotomous	102	76	(74.5%)	53	28	(52.8%)	5.252) OR=3.764 (CI: 0.1
Burning pain – 84d	Dichotomous	102	3	(2.9%)	53	0	(0.0%)	74.232) OR=0.165 (CI: 0.0
Dizziness – 84d	Dichotomous	102	1	(1.0%)	53	3	(5.7%)	1.627)
Infection – 84d	Dichotomous	102	16	(15.7%)	53	8	(15.1%)	OR=1.047 (CI: 0.4 2.632)
Pruritus – 84d	Dichotomous	103	17	(16.5%)	53	6	(11.3%)	OR=1.548 (CI: 0.5 4.194)
Rash – 84d <sup>e</sup>	Dichotomous	103	4	(3.9%)	53	0	(0.0%)	OR=4.839 (CI: 0.2 91.590)
reatment withdrawal: due to lack of efficacy – 84d	Dichotomous	102	3	(2.9%)	53	7	(13.2%)	OR=0.199 (CI: 0.0 0.805)
unspecified/other reason – 84d	Dichotomous	102	3	(2.9%)	53	1	(1.9%)	OR=1.576 (CI: 0.1 15.528)
lost to follow-up – 84d	Dichotomous	102	5	(4.9%)	53	0	(0.0%)	OR=6.036 (CI: 0.3 111.266)
poor compliance – 84d	Dichotomous	102	0	(0.0%)	53	2	(3.8%)	OR=0.100 (CI: 0.0) 2.132)
Patients with >6 months PHN duration								
oain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous Mean difference from	86		5.4 (SD 1.72)	43		5.2 (SD 1.75)	MD=-0.400 (CI: -
NRS/NRS Pain – 35d°	baseline to average f-u	86		-1.8 (SD 2.02)	43		-1.4 (SD 2.11)	1.162, 0.362)
NRS/NRS Pain – 49d <sup>d</sup>	Mean difference from baseline to average f-u	86		-1.8 (SD 2.02)	43		-1.3 (SD 2.04)	MD=-0.500 (CI: - 1.244, 0.244)
at least 30% pain reduction (NRS) – 84d	Dichotomous	86	43	(50.0%)	43	19	(44.2%)	OR=1.263 (CI: 0.6 2.636)
at least 50% pain reduction (NRS) – 84d	Dichotomous	86	34	(39.5%)	43	12	(27.9%)	OR=1.689 (CI: 0.7 3.738)

CG173: Neuropathic pain – pharmacological management appendix E

	c least squares mean; baseline to weeks 2 to 8 d least squares mean; baseline to weeks 2 to 12 e described as site erythema in paper
Comments	-

Study	Webster et al. (2010)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: Aged 18 and over with a diagnosis of PHN and an average NPRS score of 3-9 (inclusive) were eligible if at least 6 months had elapsed since vesicle crusting  Exclusion criteria: Use of any toipcally applied pain medication on the painful area within 21 days of treatment; current use of any investigational drug or class I anti-arrhythmic drug, uncontrolled diabetes mellitus or hypertention, significant pain of an etiology other than PHN, pain at or around facial area (including above the scalp hairline or near mucous membranes), hypersensitivity to capsaicin, local anesthetics, oxycodone hydrochloride, hydrocodone or adhesives  Study length (days): 84  Intention-to-treat analysis? Yes
Participants	Total number of patients: 299 Number of males: 150 (50.2%) Underlying cause of neuropathic pain: Post-herpetic neuralgia Mean duration of NP (in months): 45.6 Baseline pain severity: 5.6 (NRS) Mean age: 71.35
Intervention(s)	(1) Capsaicin 8% single patch applied for 90mins then removed (topical anasthetic cream applied 60 mins before patches) Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose Notes: Study reports 8% capsaicin patch, applied for 90 minutes once.  (2) Capsaicin 8% single patch applied for 60mins then removed (topical anaesthetic cream applied 60 mins before patches) Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose Notes: Study reports 8% capsaicin patch, applied for 60 minutes once.  (3) Capsaicin 8% single patch applied for 30mins then removed (topical anaesthetic cream applied 60 mins before patches) Intervention: capsaicin patch Length of treatment (weeks): Fixed/flexible dose regimen: Fixed dose

	Notes: Study report	te 8% cansaicin na	tch annli	ed for 30	) minutes once						
		•			then removed (topical anaesthet	ic crean	n annlied	60 mins before natches)			
	Intervention: placed Length of treatment Fixed/flexible dose Notes: Study report (5) Pooled capsaici Intervention: capsa Length of treatment Fixed/flexible dose	t (weeks): regimen: Fixed do: ts pooled results fo n group icin patch t (weeks): regimen: Fixed do:	se ir placebo se	groups	(30,60 and 90 mins) ups (30,60 and 90 mins)	ic crean	таррпеч	ou mins before pateries)			
Concomitant reatments	Drug free baseline period? No Concomitant pain treatment allowed? Yes (Paracetamol up to 2g/d (as rescue medication); opioids up to 3 days after patch application; no other topical medications allowed during the study period; concomitant opioids that were not orally or transdermally administered or exceeded a total dose of 60 mg/d morphine equivalent)										
Outcomes measures and effect sizes			90MIN ANAS	IS THEN	6 SINGLE PATCH APPLIED FOR REMOVED (TOPICAL CREAM APPLIED 60 MINS CHES)	POOL & 90 M ANAE BEFO	0				
						. —					
			N	k	mean	N	k	mean	Δ		
	pain score: NRS/NRS Pain – 0d	Continuous Mean difference	N 73	k	mean 5.6 (SD 0.94)	<b>N</b> 77	k	mean 5.3 (SD 1.49)	MD=-0.400		
	NRS/NRS Pain – 0d NRS/NRS Pain – 35d <sup>a</sup>	Mean difference from baseline to average f-u Mean difference		k			k		MD=-0.400 (CI: -0.941, 0.141) MD=-0.500		
	NRS/NRS Pain – 0d  NRS/NRS Pain – 35d <sup>a</sup> NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain	Mean difference from baseline to average f-u Mean difference	73	k	5.6 (SD 0.94)	77	k	5.3 (SD 1.49)	MD=-0.400 (CI: -0.941, 0.141) MD=-0.500 (CI: -1.027, 0.027)		
	NRS/NRS Pain – 0d  NRS/NRS Pain – 35d <sup>a</sup> NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain reduction (NRS) – 84d at least 50% pain	Mean difference from baseline to average f-u Mean difference from baseline to	73 73	<b>k</b> 29	5.6 (SD 0.94) -1.4 (SD 1.71)	77 77	k 22	5.3 (SD 1.49) -1 (SD 1.67)	MD=-0.400 (CI: -0.941, 0.141) MD=-0.500 (CI: -1.027, 0.027) OR=1.648 (C 0.834, 3.257)		
	NRS/NRS Pain – 0d  NRS/NRS Pain – 35d <sup>a</sup> NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain reduction (NRS) – 84d	Mean difference from baseline to average f-u Mean difference from baseline to average f-u	73 73 73		5.6 (SD 0.94) -1.4 (SD 1.71) -1.3 (SD 1.62)	77 77 77		5.3 (SD 1.49) -1 (SD 1.67) -0.8 (SD 1.67)	MD=-0.400 (CI: -0.941, 0.141) MD=-0.500 (CI: -1.027,		
	NRS/NRS Pain – 0d  NRS/NRS Pain – 35d <sup>a</sup> NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain reduction (NRS) – 84d at least 50% pain reduction (NRS) – 84d	Mean difference from baseline to average f-u Mean difference from baseline to average f-u Dichotomous	73 73 73 73	29	5.6 (SD 0.94) -1.4 (SD 1.71) -1.3 (SD 1.62) (39.7%)	77 77 77 77	22	5.3 (SD 1.49) -1 (SD 1.67) -0.8 (SD 1.67) (28.6%)	MD=-0.400 (CI: -0.941, 0.141) MD=-0.500 (CI: -1.027, 0.027) OR=1.648 (C 0.834, 3.257) OR=2.618 (C 1.053, 6.513)		

		CAPSAICIN 8% SINGLE PATCH APPLIED FOR 60MINS THEN REMOVED (TOPICAL ANAESTHETIC CREAM APPLIED 60 MINS BEFORE PATCHES)			60 & 9 ANAE	ED PLAC 00 MINS T STHETIC RE PATC		
		N	k	mean	N	k	mean	Δ
pain score: NRS/NRS Pain –								
0d	Continuous Mean difference	77		5.4 (SD 1.75)	77		5.3 (SD 1.49)	MD=-0.300
NRS/NRS Pain – 35d <sup>a</sup>	average f-u Mean difference	77		-1.3 (SD 1.67)	77		-1 (SD 1.67)	(CI: -0.827, 0.227) MD=-0.400
NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain	from baseline to average f-u	77		-1.2 (SD 1.58)	77		-0.8 (SD 1.67)	(CI: -0.913, 0.113)
reduction (NRS)  – 84d at least 50% pain	Dichotomous	77	27	(35.1%)	77	22	(28.6%)	OR=1.350 (CI: 0.683, 2.667)
reduction (NRS) – 84d adverse events:	Dichotomous	77	21	(27.3%)	77	8	(10.4%)	OR=3.234 (CI: 1.332, 7.855)
Nausea – 84d	Dichotomous	77	3 <sup>c</sup>	(3.9%)	77	7	(9.1%)	OR=0.405 (CI: 0.101, 1.630) OR=0.414 (CI:
Pruritus – 84d	Dichotomous	77	4	(5.2%)	77	9	(11.7%)	0.122, 1.407)

a least squares mean; baseline to weeks 2 to 8 least squares mean; baseline to weeks 2 to 12 described as site erythema in paper

		CAPSAICIN 8% SINGLE PATCH APPLIED FOR 30MINS THEN REMOVED (TOPICAL ANAESTHETIC CREAM APPLIED 60 MINS BEFORE PATCHES)				ED PLAC 00 MINS T STHETIC RE PATC		
		N	k	mean	N	k	mean	Δ
pain score: NRS/NRS Pain –								
0d NRS/NRS Pain –	Continuous Mean difference from baseline to	72		5.8 (SD 1.7)	77		5.3 (SD 1.49)	MD=-0.400 (CI: -0.941,
35d <sup>a</sup>	average f-u Mean difference	72		-1.4 (SD 1.7)	77		-1 (SD 1.67)	0.141) MD=-0.500
NRS/NRS Pain – 49d <sup>b</sup> at least 30% pain	from baseline to average f-u	72		-1.3 (SD 1.61)	77		-0.8 (SD 1.67)	(CI: -1.027, 0.027)
reduction (NRS)  – 84d at least 50% pain	Dichotomous	72	27	(37.5%)	77	22	(28.6%)	OR=1.500 (CI: 0.755, 2.982)
reduction (NRS) - 84d	Dichotomous	72	17	(23.6%)	77	8	(10.4%)	OR=2.666 (CI: 1.071, 6.636)

adverse events: Nausea – 84d	Dichotomous	72	4	(5.6%)	77	7	(9.1%)	OR=0.588 (CI: 0.165, 2.101)
Pruritus – 84d	Dichotomous	72	7	(9.7%)	77	9	(11.7%)	OR=0.814 (CI: 0.286, 2.313)

<sup>&</sup>lt;sup>a</sup> least squares mean; baseline to weeks 2 to 8 least squares mean; baseline to weeks 2 to 12

POOLED PLACEBO PATCH APPLIED FOR 30, 60 & 90 MINS THEN REMOVED (TOPICAL ANAESTHETIC CREAM APPLIED 60 MINS POOLED CAPSAICIN **BEFORE PATCHES) GROUP** Ν Ν mean k mean Δ patient-reported global improvement: PGIC - worse (all grades) or no change -OR=1.812 (CI: 28d Dichotomous 77 45 (58.4%)(43.7%)1.072, 3.064) 222 97 PGIC - worse (all grades) or no change -OR=1.491 (CI: 56d Dichotomous 77 42 (54.5%)222 99 (44.6%)0.886, 2.510) PGIC - worse (all grades) or no change -OR=1.211 (CI: Dichotomous 77 222 99 84d 38 (49.4%)(44.6%)0.720, 2.035) PGIC - better (all grades) OR=0.552 (ĆI: 222 125<sup>b</sup> 32<sup>a</sup> -28dDichotomous 77 (41.6%)(56.3%)0.326, 0.933) PGIC - better (all grades) OR=0.671 (CI: - 56d Dichotomous 77 35<sup>a</sup> (45.5%)222 123<sup>b</sup> (55.4%)0.398. 1.129) PGIC - better (all grades) OR=0.826 (CI: - 84d Dichotomous 77 39<sup>a</sup> (50.6%) 222 123<sup>b</sup> (55.4%)0.491, 1.388) major adverse events (defined as leading to withdrawal): any major adverse event OR=0.569 (CI: - 84d<sup>b</sup> Dichotomous 77 222 2 0.027, 11.984) (0.0%)(0.9%)OR=1.245 (CI: adverse events: Diarrhoea – 84d Dichotomous 77 3 (3.9%)222 7 (3.2%)0.314, 4.940) OR=0.565 (CI: Dizziness - 84d 2<sup>c</sup> 2 (2.6%) 222 10 Dichotomous 77 (4.5%)0.121, 2.639) OR=1.206 (CI: GI disorders – 84d<sup>d</sup> Dichotomous 77 13 (16.9%)222 32 (14.4%)0.596, 2.439) OR=0.819 (CI: 2 headache - 84d Dichotomous 77 (2.6%)222 7 (3.2%)0.166, 4.030) OR=0.822 (ĆI: Infection - 84d Dichotomous 77 13<sup>e</sup> (16.9%)222 44 (19.8%)0.416, 1.624) OR=5.893 (CI: 2 222 1 site pain - 84d Dichotomous 77 (2.6%)(0.5%)0.527, 65.925) OR=1.947 (CI: site papules - 84d 2 (2.6%)222 3 0.319, 11.875) Dichotomous 77 (1.4%)OR=0.311 (CI: Vomiting – 84d Dichotomous 77 (1.3%)222 9 (4.1%)0.039, 2.499)

	treatment withdrawal: due to lack of efficacy – 84d	Dichotomous	77	0	(0.0%)	222	4	(1.8%)	OR=0.313 (CI: 0.017, 5.886) OR=0.404 (CI:
	lost to follow-up – 84d	Dichotomous	77	1	(1.3%)	222	7	(3.2%)	0.049, 3.339) OR=0.717 (CI:
poor compliance – Death unrelated to	poor compliance – 84d Death unrelated to	Dichotomous	77	1	(1.3%)	222	4	(1.8%)	0.079, 6.516) OR=8.725 (CI:
	treatment – 84d	Dichotomous	77	1	(1.3%)	222	0	(0.0%)	0.352, 216.455)
	presented in text)	d 'very much', 'mu an field diarrhoea, nause	uch', or 'slightly a and vomiting	y' improved; n	umerators estimated from percer umerators estimated from percer piratory tract infection		earest	t integer (perc	centages only
Comments	BPI and SFMPQ were m	easured but ac	tual results r	not reported	in study				

Study	Wernicke et al. (2006)
Pain category	Peripheral pain
Study design	Country: Canada Design: Parallel Inclusion criteria: PDN for at least 6 months, with a pain score of at least 4 on the NRS (11 point)  Exclusion criteria: pregnancy, breastfeeding, renal transplant or current dialysis, unstable cardiovascular, hepatic, renal respiratory, or hematological illness, medical or psychological conditions that might compromise participation in the study, diagnosis of psychological disorder or previous diagnosis of mania, bipolar, psychosis, historical exposure to drugs known to cause neuropathy, history of substance abuse or dependence, treatment with MAOI or fluoxetine within 30 days, chronic use of anti-depressants, anti-emetics, anglesics, anti-manics, anti-migraines, anti-psychotics, benzodiazepines, capsaicin, chlorial hydrate, guanethidine, topical lidocaine, MAOIs, narcotics, psycho-stimulatns, oral and injectable steroids, and anti-convulsants Study length (days): 84 Intention-to-treat analysis? No
Participants	Total number of patients: 334 Number of males: 204 (61.1%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 45.6 Baseline pain severity: 6.1 (24-hour average pain intensity on NRS) Mean age: 60.7 (SD: 10.6)
Intervention(s)	(1) Duloxetine 60mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose

	Set dose: 60mg/d								
	Notes: no titration								
	(2) Duloxetine 120mg/d								
	Intervention: duloxetine								
	Length of treatment (weeks): 12								
	Fixed/flexible dose regimen: Fixed dose								
	Set dose: 120mg/d								
	Notes: patients received 60 mg/d for 3 days and the	n incressed to 6	00 ma	/d					
		ii iiicieasea to o	oo mg/	u					
	(3) Placebo								
	Intervention: placebo								
	Length of treatment (weeks): 12								
	Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? Unclear						_		
reatments	Concomitant pain treatment allowed? No (anti-depre	essants anti-em	etics a	nalges	sics anti-man	ics ar	nti-m	igraines anti-ns	vchotics benzodiazenines
	capsaicin, chlorial hydrate, guanethidine, topical lide								
	permitted; paracetamol (up to 4g/d) an aspirin up to			,o, poy c	ono omnama	o, orar	ano	injootable etere	ac, and and convalcante net
Outcomes			DUL	OXETIN	NE 60MG/D	DUL	OXE	TINE 120MG/D	
measures and			N	k me	nan	N	k	mean	- Δ
effect sizes			14	K IIIC		- ''		mean	
	pain score:								
	NRS/NRS Pain – 0d	Continuous	114		1 (SD 1.6)	112		6.2 (SD 1.5)	MD 0.400 (OL 0.504 0.744)
	NRS/NRS Pain – 84d	Mean change	110		.72 (SD 2.31)	111		-2.84 (SD 2.42)	MD=0.120 (CI: -0.504, 0.744)
	at least 30% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous	114	69 (60	J.5%)	112		(68.8%)	OR=0.697 (CI: 0.403, 1.206)
		Dichotomous	111		1 20/ \	112	E0	/FO 70/\	OD_0 620 (CI: 0 272 4 066)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous		47 (41				(52.7%)	OR=0.630 (CI: 0.372, 1.066)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d	Mean change	112	47 (41 -2.0	.66 (SD 2.43)	107		-3.05 (SD 2.48)	OR=0.630 (CI: 0.372, 1.066) MD=0.390 (CI: -0.262, 1.042)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d	Mean change Continuous	112 114	47 (41 -2.0 15.	.66 (SD 2.43) .9 (SD 7.7)	107 112		-3.05 (SD 2.48) 16.8 (SD 6.7)	MD=0.390 (CI: -0.262, 1.042)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d	Mean change	112	47 (41 -2.0 15.	.66 (SD 2.43)	107		-3.05 (SD 2.48)	
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d	Mean change Continuous	112 114	47 (41 -2.0 15. -7.2	.66 (SD 2.43) .9 (SD 7.7)	107 112		-3.05 (SD 2.48) 16.8 (SD 6.7)	MD=0.390 (CI: -0.262, 1.042)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement:	Mean change Continuous Mean change	112 114 97	47 (41 -2.0 15. -7.2	66 (SD 2.43) 6.9 (SD 7.7) 23 (SD 6.89)	107 112 100		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d	Mean change Continuous Mean change	112 114 97	47 (41 -2.0 15. -7.2	66 (SD 2.43) 6.9 (SD 7.7) 23 (SD 6.89)	107 112 100		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep:	Mean change Continuous Mean change Continuous	112 114 97 112	47 (41 -2.0 15. -7.2	.66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) .61 (SD 15.2)	107 112 100 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change Continuous Mean change Continuous Mean change	112 114 97 112	47 (41 -2.0 15. -7.3 2.6	.66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) .61 (SD 15.2) .02 (SD 2.74)	107 112 100 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d	Mean change Continuous Mean change Continuous Mean change Continuous	112 114 97 112 111 114	47 (41 -2.0 15. -7 2.6	66 (SD 2.43) .9 (SD 7.7) 23 (SD 6.89) 61 (SD 15.2) .02 (SD 2.74) 7 (SD 2.5)	107 112 100 107 107 112		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change	112 114 97 112 111 111 114 111	47 (41 -2.0 15. -7 2.6 -3.0 4.7 -2.3	.66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) .61 (SD 15.2) .02 (SD 2.74) 7 (SD 2.5) .36 (SD 2)	107 112 100 107 107 112 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999) MD=0.150 (CI: -0.571, 0.871) MD=0.430 (CI: -0.097, 0.957)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change	112 114 97 112 111 114 111 111	47 (41 -2.1 -2.1 -2.6 -3.6 -3.6 -3.1 -2.3 -1.9 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1	66 (SD 2.43) .9 (SD 7.7) 23 (SD 6.89) 61 (SD 15.2) .02 (SD 2.74) 7 (SD 2.5) .36 (SD 2) .95 (SD 2.21)	107 112 100 107 107 112 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999) MD=0.150 (CI: -0.571, 0.871) MD=0.430 (CI: -0.097, 0.957) MD=0.530 (CI: -0.052, 1.112)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change Mean change	112 114 97 112 111 111 111 111	47 (41 -2.1 -2.1 -2.1 -2.6 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1 -3.1	66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74)	107 112 100 107 107 112 107 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999) MD=0.150 (CI: -0.571, 0.871) MD=0.430 (CI: -0.097, 0.957) MD=0.530 (CI: -0.052, 1.112)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d	Mean change Continuous Mean change Continuous  Mean change Continuous Mean change Mean change Mean change Continuous	112 114 97 112 111 111 111 111 111	47 (41 -2.1 15. -7 2.6 -3.1 4.7 -2.: -3.1 -3.3	66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74) 3 (SD 3.4)	107 112 100 107 107 112 107 107 107 112		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999) MD=0.150 (CI: -0.571, 0.871) MD=0.430 (CI: -0.097, 0.957) MD=0.530 (CI: -0.052, 1.112) MD=0.150 (CI: -0.571, 0.871)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 84d	Mean change Continuous Mean change Continuous  Mean change Continuous Mean change Mean change Mean change Continuous Mean change Mean change Continuous Mean change	112 114 97 112 111 111 111 111 111 111 97	47 (41 -2.1 15. -7 2.6 -3.1 4.7 -2.1 -3.3 3.3 -0.1	.66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) .61 (SD 15.2) .02 (SD 2.74) .7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74) .03 (SD 3.4) .04 (SD 3.4) .05 (SD 2.56)	107 112 100 107 107 112 107 107 107 112 101		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.118)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 84d BPI general activity – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change Mean change Continuous Mean change Mean change Mean change Mean change	112 114 97 112 111 111 111 111 111	47 (41 -2.1 15. -7.2 2.6 -3.1 4.7 -2.3 -3.3 3.3 -0.0 -2.4	66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74) 3 (SD 3.4)	107 112 100 107 107 112 107 107 107 112		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.118)  MD=-0.840 (CI: -1.561, -0.118)  MD=0.170 (CI: -0.468, 0.808)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 84d	Mean change Continuous Mean change Continuous  Mean change Continuous Mean change Mean change Mean change Continuous Mean change Mean change Continuous Mean change	112 114 97 112 111 111 111 111 111 114 97 111	47 (41 -2.0 -2.1 -2.0 -2.6 -3.0 -3.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2.0 -2	.66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) .61 (SD 15.2) .02 (SD 2.74) .7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74) .05 (SD 2.74) .06 (SD 2.56) .4 (SD 2.42)	107 112 100 107 107 112 107 107 107 112 101 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61) -2.57 (SD 2.38)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.118)  MD=-0.840 (CI: -1.561, -0.118)  MD=0.170 (CI: -0.468, 0.808)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 84d BPI general activity – 84d BPI walking ability – 84d	Mean change Continuous Mean change Continuous  Mean change Continuous Mean change Mean change Mean change Continuous Mean change Mean change Mean change Mean change Mean change	112 114 97 112 111 114 111 111 114 97 111 111	47 (41 -2.1 -2.1 -2.1 -2.6 -3.1 -3.1 -3.1 -3.1 -2.2 -2.2 -2.2 -2.1	66 (SD 2.43) .9 (SD 7.7) 23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) 36 (SD 2) 95 (SD 2.21) 02 (SD 2.74) 3 (SD 3.4) 65 (SD 2.56) 4 (SD 2.42) 5 (SD 2.53)	107 112 100 107 107 112 107 107 112 101 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61) -2.57 (SD 2.38) -2.96 (SD 2.59)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -0.571, 0.871)  MD=-0.840 (CI: -0.571, 0.871)  MD=-0.840 (CI: -0.219, 1.139)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 0d HAMD – 84d BPI general activity – 84d BPI walking ability – 84d BPI normal work – 84d BPI relationship with other people – 84d BPI enjoyment of life – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change Continuous Mean change	112 114 97 112 111 114 111 111 114 97 111 111	47 (41 -2.0 -2.1 -2.0 -2.0 -3.1 -3.1 -3.1 -3.1 -2.2 -2.2 -1.4 -7.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2	66 (SD 2.43) .9 (SD 7.7) 23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) 36 (SD 2) 95 (SD 2.21) 02 (SD 2.74) 3 (SD 3.4) 65 (SD 2.56) 4 (SD 2.42) .5 (SD 2.42)	107 112 100 107 107 112 107 107 107 107 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61) -2.57 (SD 2.38) -2.96 (SD 2.59) -2.93 (SD 2.48)	MD=0.390 (CI: -0.262, 1.042) MD=0.750 (CI: -1.204, 2.704) MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871) MD=0.430 (CI: -0.097, 0.957) MD=0.530 (CI: -0.052, 1.112) MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.113 MD=0.170 (CI: -0.468, 0.808) MD=0.460 (CI: -0.219, 1.139) MD=0.440 (CI: -0.212, 1.092)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 0d HAMD – 84d BPI general activity – 84d BPI walking ability – 84d BPI normal work – 84d BPI relationship with other people – 84d BPI enjoyment of life – 84d major adverse events	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change Mean change Continuous Mean change	112 114 97 112 111 111 111 111 111 111 111 111 11	47 (41 -2.0 -2.1 -2.0 -2.0 -3.1 -3.1 -3.1 -3.1 -2.2 -2.2 -1.4 -7.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2	66 (SD 2.43) .9 (SD 7.7) 23 (SD 6.89) 61 (SD 15.2) 02 (SD 2.74) 7 (SD 2.5) 36 (SD 2) 95 (SD 2.21) 02 (SD 2.74) 3 (SD 3.4) 65 (SD 2.56) 4 (SD 2.42) 5 (SD 2.53) 49 (SD 2.42) 44 (SD 1.9)	107 112 100 107 107 112 107 107 107 107 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61) -2.57 (SD 2.38) -2.96 (SD 2.59) -2.93 (SD 2.48) -1.81 (SD 1.97)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.112)  MD=0.170 (CI: -0.468, 0.808)  MD=0.460 (CI: -0.219, 1.139)  MD=0.440 (CI: -0.212, 1.092)  MD=0.370 (CI: -0.143, 0.883)
	at least 50% pain reduction (NRS) – 84d <sup>a</sup> BPI (severity) – 84d SF McGill – 0d SF McGill – 84d patient-reported global improvement: PGI-I – 84d patient-reported improvement in daily physical and emotional functioning, including sleep: Normalised (10-pt) sleep interference measure – 84d <sup>b</sup> BPI – 0d BPI – 84d BPI Mood – 84d BPI Sleep – 84d HAMD – 0d HAMD – 0d HAMD – 84d BPI general activity – 84d BPI walking ability – 84d BPI normal work – 84d BPI relationship with other people – 84d BPI enjoyment of life – 84d	Mean change Continuous Mean change Continuous Mean change Continuous Mean change Mean change Mean change Continuous Mean change	112 114 97 112 111 111 111 111 111 111 111 111 11	47 (41 -2.0 -2.1 -2.0 -2.0 -3.1 -3.1 -3.1 -3.1 -2.2 -2.2 -1.4 -7.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2	66 (SD 2.43) .9 (SD 7.7) .23 (SD 6.89) 61 (SD 15.2) .02 (SD 2.74) 7 (SD 2.5) .36 (SD 2) .95 (SD 2.21) .02 (SD 2.74) 3 (SD 3.4) .65 (SD 2.56) .4 (SD 2.42) .5 (SD 2.53) .49 (SD 2.42) .44 (SD 1.9) .58 (SD 2.42)	107 112 100 107 107 112 107 107 107 107 107 107		-3.05 (SD 2.48) 16.8 (SD 6.7) -7.98 (SD 7.1) 2.4 (SD 13.3) -3.17 (SD 2.69) 5 (SD 2.4) -2.79 (SD 1.97) -2.48 (SD 2.17) -3.17 (SD 2.69) 3.6 (SD 3) 0.19 (SD 2.61) -2.57 (SD 2.38) -2.96 (SD 2.59) -2.93 (SD 2.48) -1.81 (SD 1.97)	MD=0.390 (CI: -0.262, 1.042)  MD=0.750 (CI: -1.204, 2.704)  MD=0.210 (CI: -3.579, 3.999)  MD=0.150 (CI: -0.571, 0.871)  MD=0.430 (CI: -0.097, 0.957)  MD=0.530 (CI: -0.052, 1.112)  MD=0.150 (CI: -0.571, 0.871)  MD=-0.840 (CI: -1.561, -0.119  MD=0.170 (CI: -0.468, 0.808)  MD=0.460 (CI: -0.212, 1.092)  MD=0.370 (CI: -0.143, 0.883)

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adverse events:						
Constipation – 84d	Dichotomous	114 8	(7.0%)	112 21	(18.8%)	OR=0.327 (CI: 0.138, 0.774)
Diarrhoea – 84d	Dichotomous	114 13	(11.4%)	112 5	(4.5%)	OR=2.754 (CI: 0.948, 8.003)
Dizziness – 84d	Dichotomous	114 18	(15.8%)	112 12	(10.7%)	OR=1.563 (CI: 0.715, 3.416)
Fatigue – 84d	Dichotomous	114 14	(12.3%)	112 14	(12.5%)	OR=0.980 (CI: 0.444, 2.162)
headache – 84d	Dichotomous	114 12	(10.5%)	112 15	(13.4%)	OR=0.761 (CI: 0.339, 1.707)
Nausea – 84d	Dichotomous	114 32	(28.1%)	112 36	(32.1%)	OR=0.824 (CI: 0.466, 1.456)
Somnolence – 84d	Dichotomous	114 9	(7.9%)	112 17	(15.2%)	OR=0.479 (CI: 0.204, 1.125)
overall improvement in quality of life:			,		,	, , ,
SF36 Mental – 84d	Mean change	108	1.63 (SD 15.4)	108	3.82 (SD 15.5)	MD=-2.190 (CI: -6.306, 1.926)
SF36 Physical – 84d	Mean change	109	12 (SD 18.9)	108	11.2 (SD 19.3)	MD=0.760 (CI: -4.327, 5.847)
EQ-5D - health status index – 84d	Mean change	108	0.15 (SD 0.208)	105	0.15 (SD 0.205)	MD=0.000 (CI: -0.055, 0.055)
treatment withdrawal:	·					,
due to lack of efficacy – 84d	Dichotomous	114 1	(0.9%)	112 3	(2.7%)	OR=0.322 (CI: 0.033, 3.139)
unspecified/other reason – 84d	Dichotomous	114 4	(3.5%)	112 7	(6.3%)	OR=0.545 (CI: 0.155, 1.918)
withdrawal of consent – 84d	Dichotomous	114 3	(2.6%)	112 1	(0.9%)	OR=3.000 (CI: 0.307, 29.283)
protocol deviation – 84d	Dichotomous	114 2	(1.8%)	112 3	(2.7%)	OR=0.649 (CI: 0.106, 3.959)
lost to follow-up – 84d	Dichotomous	114 2	(1.8%)	112 0	(0.0%)	OR=5.000 (CI: 0.237, 105.322)
· ·			• •		• •	, , , , ,

<sup>&</sup>lt;sup>a</sup> numbers estimated from percentages (assuming the same denominator for other outcomes reported at this time) <sup>b</sup> based on BPI Sleep

		DUL	OXE	TINE 60MG/D	PLA	CEE	Ю	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	114		6.1 (SD 1.6)	108		5.9 (SD 1.4)	
NRS/NRS Pain – 84d	Mean change	110		-2.72 (SD 2.31)	106		-1.39 (SD 2.37)	MD=-1.330 (CI: -1.954, -0.706)
at least 30% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous	114	69	(60.5%)	108	45	(41.7%)	OR=2.147 (CI: 1.256, 3.669)
at least 50% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous	114	47	(41.2%)	108	29	(26.9%)	OR=1.911 (CI: 1.085, 3.365)
BPI (severity) – 84d	Mean change	112		-2.66 (SD 2.43)	104		-1.48 (SD 2.35)	MD=-1.180 (CI: -1.818, -0.542)
SF McGill – 0d	Continuous	114		15.9 (SD 7.7)	108		16.2 (SD 7.5)	
SF McGill – 84d	Mean change	97		-7.23 (SD 6.89)	91		-4.18 (SD 6.96)	MD=-3.050 (CI: -5.032, -1.068)
patient-reported global improvement:								
PGI-I – 84d	Continuous	112		2.61 (SD 15.2)	105		3.17 (SD 14.8)	MD=-0.560 (CI: -4.551, 3.431)
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change	111		-3.02 (SD 2.74)	104		-2.34 (SD 2.65)	MD=-0.680 (CI: -1.401, 0.041)
BPI – 0d	Continuous	114		4.7 (SD 2.5)	108		4.2 (SD 2.2)	
BPI – 84d	Mean change	111		-2.36 (SD 2)	104		-1.72 (SD 1.94)	MD=-0.640 (CI: -1.167, -0.113)
BPI Mood – 84d	Mean change	111		-1.95 (SD 2.21)	104		-1.37 (SD 2.14)	MD=-0.580 (CI: -1.162, 0.002)
BPI Sleep – 84d	Mean change	111		-3.02 (SD 2.74)	104		-2.34 (SD 2.65)	MD=-0.680 (CI: -1.401, 0.041)
HAMD – 0d	Continuous	114		3.3 (SD 3.4)	108		3.4 (SD 2.7)	
HAMD – 84d	Mean change	97		-0.65 (SD 2.56)	95		-0.64 (SD 2.53)	MD=-0.010 (CI: -0.731, 0.711)
BPI general activity – 84d	Mean change	111		-2.4 (SD 2.42)	104		-1.79 (SD 2.35)	MD=-0.610 (CI: -1.248, 0.028)
BPI walking ability – 84d	Mean change	111		-2.5 (SD 2.53)	104		-1.74 (SD 2.55)	MD=-0.760 (CI: -1.439, -0.081)
BPI normal work – 84d	Mean change	111		-2.49 (SD 2.42)	104		-2.03 (SD 2.45)	MD=-0.460 (CI: -1.112, 0.192)
BPI relationship with other people – 84d	Mean change	111		-1.44 (SD 1.9)	104		-0.88 (SD 1.94)	MD=-0.560 (CI: -1.073, -0.047)
BPI enjoyment of life – 84d	Mean change	111		-2.58 (SD 2.42)	104		-2.24 (SD 2.35)	MD=-0.340 (CI: -0.978, 0.298)

major adverse events								
(defined as leading to withdrawal):								
any major adverse event – 84d	Dichotomous	114	17	(14.9%)	108	8	(7.4%)	OR=2.191 (CI: 0.904, 5.311)
adverse events:								
Constipation – 84d	Dichotomous	114 8	8	(7.0%)	108	2	(1.9%)	OR=4.000 (CI: 0.830, 19.279)
Diarrhoea – 84d	Dichotomous	114	13	(11.4%)	108	2	(1.9%)	OR=6.822 (CI: 1.502, 30.987)
Dizziness – 84d	Dichotomous	114	18	(15.8%)	108	6	(5.6%)	OR=3.188 (CI: 1.214, 8.367)
Fatigue – 84d	Dichotomous	114	14	(12.3%)	108	3	(2.8%)	OR=4.900 (CI: 1.367, 17.565)
headache – 84d	Dichotomous	114	12	(10.5%)	108	7	(6.5%)	OR=1.697 (CI: 0.642, 4.486)
Nausea – 84d	Dichotomous	114 3	32	(28.1%)	108	7	(6.5%)	OR=5.631 (CI: 2.363, 13.415)
Somnolence – 84d	Dichotomous	114	9	(7.9%)	108	1	(0.9%)	OR=9.171 (CI: 1.142, 73.666)
overall improvement in quality of life:								
SF36 Mental – 84d	Mean change	108		1.63 (SD 15.4)	101		-0.31 (SD 15.3)	MD=1.940 (CI: -2.218, 6.098)
SF36 Physical – 84d	Mean change	109		12 (SD 18.9)	101		3.64 (SD 19.1)	MD=8.320 (CI: 3.177, 13.463)
EQ-5D - health status index – 84d	Mean change	108		0.15 (SD 0.208)	99		0.08 (SD 0.199)	MD=0.070 (CI: 0.015, 0.125)
treatment withdrawal:								
due to lack of efficacy – 84d	Dichotomous	114	1	(0.9%)	108	5	(4.6%)	OR=0.182 (CI: 0.021, 1.586)
unspecified/other reason – 84d	Dichotomous	114	4	(3.5%)	108	3	(2.8%)	OR=1.273 (CI: 0.278, 5.823)
withdrawal of consent – 84d	Dichotomous	114 3	3	(2.6%)	108	3	(2.8%)	OR=0.946 (CI: 0.187, 4.791)
protocol deviation – 84d	Dichotomous	114	2	(1.8%)	108	1	(0.9%)	OR=1.911 (CI: 0.171, 21.381)
lost to follow-up – 84d	Dichotomous	114	2	(1.8%)	108	3	(2.8%)	OR=0.625 (CI: 0.102, 3.815)

a numbers estimated from percentages (assuming the same denominator for other outcomes reported at this time) b based on BPI Sleep

		DUL	JLOXETINE 120MG/D		PLA	CEE	30	
		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	112		6.2 (SD 1.5)	108		5.9 (SD 1.4)	
NRS/NRS Pain – 84d	Mean change	111		-2.84 (SD 2.42)	106		-1.39 (SD 2.37)	MD=-1.450 (CI: -2.088, -0.812)
at least 30% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous	112	77	(68.8%)	108	45	(41.7%)	OR=3.080 (CI: 1.771, 5.355)
at least 50% pain reduction (NRS) – 84d <sup>a</sup>	Dichotomous	112	59	(52.7%)	108	29	(26.9%)	OR=3.033 (CI: 1.724, 5.333)
BPI (severity) – 84d	Mean change	107		-3.05 (SD 2.48)	104		-1.48 (SD 2.35)	MD=-1.570 (CI: -2.222, -0.918)
SF McGill – 0d	Continuous	112		16.8 (SD 6.7)	108		16.2 (SD 7.5)	
SF McGill – 84d	Mean change	100		-7.98 (SD 7.1)	91		-4.18 (SD 6.96)	MD=-3.800 (CI: -5.796, -1.804)
patient-reported global improvement:								
PGI-I – 84d	Continuous	107		2.4 (SD 13.3)	105		3.17 (SD 14.8)	MD=-0.770 (CI: -4.559, 3.019)
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:								
Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change	107		-3.17 (SD 2.69)	104		-2.34 (SD 2.65)	MD=-0.830 (CI: -1.551, -0.109)
BPI – 0d	Continuous	112		5 (SD 2.4)	108		4.2 (SD 2.2)	
BPI – 84d	Mean change	107		-2.79 (SD 1.97)	104		-1.72 (SD 1.94)	MD=-1.070 (CI: -1.597, -0.543)
BPI Mood – 84d	Mean change	107		-2.48 (SD 2.17)	104		-1.37 (SD 2.14)	MD=-1.110 (CI: -1.692, -0.528)
BPI Sleep – 84d	Mean change	107		-3.17 (SD 2.69)	104		-2.34 (SD 2.65)	MD=-0.830 (CI: -1.551, -0.109)
HAMD – 0d	Continuous	112		3.6 (SD 3)	108		3.4 (SD 2.7)	
HAMD – 84d	Mean change	101		0.19 (SD 2.61)	95		-0.64 (SD 2.53)	MD=0.830 (CI: 0.109, 1.551)
BPI general activity – 84d	Mean change	107		-2.57 (SD 2.38)	104		-1.79 (SD 2.35)	MD=-0.780 (CI: -1.418, -0.142)
BPI walking ability – 84d	Mean change	107		-2.96 (SD 2.59)	104		-1.74 (SD 2.55)	MD=-1.220 (CI: -1.913, -0.527)
BPI normal work – 84d	Mean change	107		-2.93 (SD 2.48)	104		-2.03 (SD 2.45)	MD=-0.900 (CI: -1.565, -0.235)
BPI relationship with other people – 84d	Mean change	107		-1.81 (SD 1.97)	104		-0.88 (SD 1.94)	MD=-0.930 (CI: -1.457, -0.403)

	BPI enjoyment of life – 84d	Mean change	107	-3.42 (SD 2.38)	104	-2.24 (SD 2.35)	MD=-1.180 (CI: -1.818, -0.542)
	major adverse events						
	(defined as leading to withdrawal):						
	any major adverse event – 84d	Dichotomous	112 20	(17.9%)	108 8	(7.4%)	OR=2.717 (CI: 1.141, 6.469)
	adverse events:						
	Constipation – 84d	Dichotomous	112 21	(18.8%)	108 2	(1.9%)	OR=12.231 (CI: 2.792, 53.579)
	Diarrhoea – 84d	Dichotomous	112 5	(4.5%)	108 2	(1.9%)	OR=2.477 (CI: 0.470, 13.047)
	Dizziness – 84d	Dichotomous	112 12	(10.7%)	108 6	(5.6%)	OR=2.040 (CI: 0.737, 5.646)
	Fatigue – 84d	Dichotomous	112 14	(12.5%)	108 3	(2.8%)	OR=5.000 (CI: 1.394, 17.929)
	headache – 84d	Dichotomous	112 15	(13.4%)	108 7	(6.5%)	OR=2.231 (CI: 0.872, 5.709)
	Nausea – 84d	Dichotomous	112 36	(32.1%)	108 7	(6.5%)	OR=6.835 (CI: 2.885, 16.193)
	Somnolence – 84d	Dichotomous	112 17	(15.2%)	108 1	(0.9%)	OR=19.147 (CI: 2.501, 146.612)
	overall improvement in quality of life:						
	SF36 Mental – 84d	Mean change	108	3.82 (SD 15.5)	101	-0.31 (SD 15.3)	MD=4.130 (CI: -0.042, 8.302)
	SF36 Physical – 84d	Mean change	108	11.2 (SD 19.3)	101	3.64 (SD 19.1)	MD=7.560 (CI: 2.349, 12.771)
	EQ-5D - health status index – 84d	Mean change	105	0.15 (SD 0.205)	99	0.08 (SD 0.199)	MD=0.070 (CI: 0.015, 0.125)
	treatment withdrawal:	· ·		,		,	,
	due to lack of efficacy – 84d	Dichotomous	112 3	(2.7%)	108 5	(4.6%)	OR=0.567 (CI: 0.132, 2.433)
	unspecified/other reason – 84d	Dichotomous	112 7	(6.3%)	108 3	(2.8%)	OR=2.333 (CI: 0.587, 9.268)
	withdrawal of consent – 84d	Dichotomous	112 1	(0.9%)	108 3	(2.8%)	OR=0.315 (CI: 0.032, 3.079)
	protocol deviation – 84d	Dichotomous	112 3	(2.7%)	108 1	(0.9%)	OR=2.945 (CI: 0.302, 28.758)
	lost to follow-up – 84d	Dichotomous	112 0	(0.0%)	108 3	(2.8%)	OR=0.134 (CI: 0.007, 2.625)
	· .			,		,	,
	a numbers estimated from percentages (assuming the sai	me denominator fo	r other out	comes reported at	this time)		
	<sup>b</sup> based on BPI Sleep						
Comments	3-week assessment and screening period - not clea	r if any of this w	as a drug	-free period			

Study	Wu et al. (2008)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: USA  Design: Crossover  Inclusion criteria: Adults aged 18 years and older with the presence of persistent post amputation pain rated as greater than 3 on a 0-10 NRS for a period of 6 months or longer.  Exclusion criteria: History of allergic reaction to any of the study drugs, cardiac condution defects, myocardial infarction within 3 months of evaluation, severe pulmonary disease, current history of alcohol or substance abuse, seizures, dementia, encephalopathy, pregnant or breast feeding, chronic hepatic diseae, hepatic or renal failure, any haematologic disease associated with leukopenia or thrombocytopenia, or the presence of any terminal disease with a life expectancy of less than 6 months  Study length (days): 182  Intention-to-treat analysis? No
Participants	Total number of patients: 60 Number of males: 47 (78.3%) Underlying cause of neuropathic pain: Phantomb limb pain Mean duration of NP (in months): 51.3

CG173: Neuropathic pain – pharmacological management appendix E

	Pagalina nain agyarity 6 95 (NDC	(average of arm means))						
	Baseline pain severity: 6.85 (NRS Mean age: 63.4 (SD: 16.4)	(average or arm means))						
	, , ,							
Intervention(s)	(1) Morphine sustained-release flet Intervention: morphine Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexil Mean dose: 112mg/d (SD: 62.7) Range: 15–180 Notes: treatment consited of 4 wesustained-release morphine; titrati increments were made at 3 to 4 di (180 mg) - aim was maximum tole (2) Placebo Intervention: placebo Length of treatment (weeks): 6 Fixed/flexible dose regimen: Flexil	ole dose  eks titration, 2 weeks mair ion period started with 1 ca ay intervals (increases of 2 rated dosage	apsule ev	very mo	rning to 1 capsule 2x per	day and, if	no significant	side effects, subsequent
Concomitant treatments	Drug free baseline period? Yes (d Concomitant pain treatment allowed drugs precribed for pain (but uncle medications)	ed? Unclear (patients with						
Outcomes measures and			_	PHINE S	SUSTAINED-RELEASE DSE	PLAC	ЕВО	
effect sizes			N	k	mean	N k	mean	_ Δ
	pain score: NRS/NRS Pain – 0d <sup>a</sup>	Continuous	50		6.8 (SD 1)	43	6.9 (SD 0.85)	MD=-0.800 (CI: -1.181, -
	NRS/NRS Pain – 42d <sup>a</sup>	Continuous Percentage change from	50		3.7 (SD 0.85)	43	4.5 (SD 1)	0.419)
	NRS/NRS Pain – 42d	baseline	50		53	43	19 -1.4 (SD	MD=34.000 MD=-1.400 (CI: -2.430, -
	NRS/NRS Pain – 42d at least 30% pain reduction (NRS)	Mean change	50		-2.8 (SD 2.16)	43	2.68)	0.370) OR=2.794 (CI: 1.297,
	- 42d at least 50% pain reduction (NRS)	Dichotomous	56	33	(58.9%)	56 1	9 (33.9%)	6.021) OR=2.305 (CI: 1.018,
	- 42d adverse events:	Dichotomous	56	23	(41.1%)	56 1	3 (23.2%)	5.221) OR=6.517 (CI: 2.521,
	any adverse event – 42d	Dichotomous	56	27	(48.2%)	56 7	(12.5%)	16.847) OR=11.769 (CI: 2.569,
	Constipation – 42d	Dichotomous	56	17	(30.4%)	56 2	(3.6%)	53.917) OR=1.000 (CI: 0.136,
	Dizziness – 42d	Dichotomous	56	2	(3.6%)	56 2	(3.6%)	7.359) OR=3.383 (CI: 0.864,
	Drowsiness – 42d	Dichotomous	56	9	(16.1%)	56 3	(5.4%)	13.239)

	Nausea – 42d treatment withdrawal: unspecified/other reason – 42d <sup>b</sup>	Dichotomous  Dichotomous	56 56	4 10	(7.1%) (17.9%)	56 1 56 5	(1.8%)	OR=4.231 (CI: 0.458, 39.105) OR=2.217 (CI: 0.706, 6.969)
	<ul> <li>a estimated from graph</li> <li>b reasons for these patients not repo</li> </ul>	rted						_
Comments	study compared morphine to meadropped out before participation i						scope); of	60 patients randomised, 4

Study	Wymer et al. (2009)
Pain category	Peripheral pain
Study design	Country: USA  Design: Parallel  Inclusion criteria: at least 18 years with diagnosed diabetes mellitus type 1 or 2 and painful diabetic neuropathy for 6 months to 5 years, HbA1c < 12% for at least 3 months prior to enrollment, moderate severity of pain intensity =on 11-point Likert scale in 7 days prior to randomisation  Exclusion criteria: pregnant women, those breastfeeding or trying to have children, participation in investigational trial in last 30 days, any other condition to interfer with assessment of NP, major skin ulcers, clinically significant ECG abnormalities, any cardiac disorder putting the patient at risk of arrhythmia and MI, history of alcohol or drug abuse in last year, those taking any drugs that may interfer with results of trial (including anti-convulsants)  Study length (days): 140  Intention-to-treat analysis? Yes
Participants	Total number of patients: 370 Number of males: 202 (54.6%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 39.6 Baseline pain severity: 6.55 (NRS (average of scores for the 2 arms that baseline values were given for [400 mg/d and placebo]; paper says the average baseline value ranges from 6.4 to 6.6 across the arms so 6.55 may be a reasonable estimate)) Mean age: 58.2 (SD: 9.6)
Intervention(s)	(1) Lacosamide 600 mg/d Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose Set dose: 600mg/d Notes: 6 week titration, 12 week maintenance (2) Lacosamide 400 mg/d Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d

	Notes: 6 week titration, 12 week mainten	ance							
	(3) Lacosamide 200 mg/d								
	Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose Set dose: 200mg/d Notes: 6 week titration, 12 week maintena	ance							
	(4) Placebo								
	Intervention: placebo Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose								
	(5) All lacosamide dosages								
	Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose								
Concomitant	Drug free baseline period? Yes (duration	· 14d)							
treatments	Concomitant pain treatment allowed? Yes	,	ian anvia	.t	alaan diaard	or (in al	ر مان م	triovalia	oo) ware allowed if the
	patient was on a stable dose not likely to						udirig	tileyelle	cs) were allowed if the
Outcomes measures and					MIDE 600				
effect sizes			MG/	D		_ PL/	ACEB		
Oncot dizoo			N	k	mean	N	k n	nean	Δ
	noin accres	Mean difference from baseline to							
	pain score: NRS/NRS Pain – 84d <sup>a</sup>	average f-u  Mean difference from baseline to	54		-2.55	73	_	1.65	MD=-0.900
	NRS/NRS Pain – 112d <sup>b</sup>								
	TATACATAIN TIZO	average f-u	92		-2.02	90		1.6	MD=-0.420
	patient-reported global improvement:		92		-2.02	90	-	1.6	MD=-0.420
	patient-reported global improvement: PGIC - worse (all grades) or no change –	average f-u		11					
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d <sup>c</sup>	average f-u  Dichotomous	93	11 81	(11.8%)	93	29 (	31.2%)	OR=0.296 (CI: 0.137, 0.638)
	patient-reported global improvement: PGIC - worse (all grades) or no change –	average f-u		11 81		93	29 (		
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal):	average f-u  Dichotomous  Dichotomous	93 93	81	(11.8%) (87.1%)	93 93	29 (; 61 (	31.2%) 65.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d	average f-u  Dichotomous	93		(11.8%)	93	29 (; 61 (	31.2%)	OR=0.296 (CI: 0.137, 0.638)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events:	average f-u  Dichotomous  Dichotomous  Dichotomous	93 93 93	81 37	(11.8%) (87.1%) (39.8%)	93 93 93	29 (i 61 (i	31.2%) 65.6%) 8.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d	average f-u  Dichotomous  Dichotomous	93 93	81	(11.8%) (87.1%)	93 93	29 (i 61 (i	31.2%) 65.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events:	average f-u  Dichotomous  Dichotomous  Dichotomous	93 93 93	81 37	(11.8%) (87.1%) (39.8%)	93 93 93	29 (i 61 (i 8 (i 2 (i	31.2%) 65.6%) 8.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d  balance disorder – 126d Diarrhoea – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous Dichotomous Dichotomous	93 93 93 93 93 93	37 5 6 3	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%)	93 93 93 93 93 93	29 (3 61 (4 8 (3 2 (3 0 (4 4 (4	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d balance disorder – 126d Diarrhoea – 126d Dizziness – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous Dichotomous Dichotomous Dichotomous	93 93 93 93 93 93 93	<ul><li>81</li><li>37</li><li>5</li><li>6</li><li>3</li><li>27</li></ul>	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%)	93 93 93 93 93 93 93	29 (3 61 (4 2 (3 0 (4 4 (4 5 (3	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d balance disorder – 126d Diarrhoea – 126d Dizziness – 126d Fatigue – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	93 93 93 93 93 93 93 93	<ul><li>81</li><li>37</li><li>5</li><li>6</li><li>3</li><li>27</li><li>9</li></ul>	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%) (9.7%)	93 93 93 93 93 93 93 93	29 (3 61 (6 8 (3 2 (3 0 (6 4 (4 5 (8) 3 (3	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%) 3.2%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693) OR=3.214 (CI: 0.842, 12.276)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d  balance disorder – 126d Diarrhoea – 126d Dizziness – 126d Fatigue – 126d headache – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	93 93 93 93 93 93 93 93	37 5 6 3 27 9	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%) (9.7%)	93 93 93 93 93 93 93 93 93	29 (3 61 (6 8 (7 2 (3 0 (1 4 (4 5 (3 3 (3 6 (6	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%) 3.2%) 6.5%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693) OR=3.214 (CI: 0.842, 12.276) OR=1.554 (CI: 0.530, 4.555)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d  balance disorder – 126d Diarrhoea – 126d Dizziness – 126d Fatigue – 126d headache – 126d Nausea – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	93 93 93 93 93 93 93 93 93	37 5 6 3 27 9 9	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%) (9.7%) (9.7%) (15.1%)	93 93 93 93 93 93 93 93 93 93	29 (3 61 (0 8 (3 2 (3 0 (0 4 (4 5 (3 3 (3 6 (0 8 (3	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%) 3.2%) 6.5%) 8.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693) OR=3.214 (CI: 0.842, 12.276) OR=1.554 (CI: 0.530, 4.555) OR=1.883 (CI: 0.750, 4.730)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d  balance disorder – 126d Diarrhoea – 126d Dizziness – 126d Fatigue – 126d headache – 126d Nausea – 126d vertigo – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous  Dichotomous	93 93 93 93 93 93 93 93	37 5 6 3 27 9	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%) (9.7%)	93 93 93 93 93 93 93 93 93	29 (3 61 (0 8 (3 2 (3 0 (0 4 (4 5 (3 3 (3 6 (0 8 (3	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%) 3.2%) 6.5%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693) OR=3.214 (CI: 0.842, 12.276) OR=1.554 (CI: 0.530, 4.555)
	patient-reported global improvement: PGIC - worse (all grades) or no change – 126d° PGIC - better (all grades) – 126d° major adverse events (defined as leading to withdrawal): any major adverse event – 126d adverse events: asthenia – 126d  balance disorder – 126d Diarrhoea – 126d Dizziness – 126d Fatigue – 126d headache – 126d Nausea – 126d	average f-u  Dichotomous Dichotomous  Dichotomous  Dichotomous  Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous Dichotomous	93 93 93 93 93 93 93 93 93	37 5 6 3 27 9 9	(11.8%) (87.1%) (39.8%) (5.4%) (6.5%) (3.2%) (29.0%) (9.7%) (9.7%) (15.1%)	93 93 93 93 93 93 93 93 93 93 93	29 (3 61 (4 2 (3 0 (4 4 (4 5 (3 3 (3 6 (0 8 (3 1 (4)	31.2%) 65.6%) 8.6%) 2.2%) 0.0%) 4.3%) 5.4%) 3.2%) 6.5%) 8.6%)	OR=0.296 (CI: 0.137, 0.638) OR=3.541 (CI: 1.686, 7.437) OR=7.020 (CI: 3.045, 16.186) OR=2.585 (CI: 0.489, 13.676) OR=13.891 (CI: 0.771, 250.247) OR=0.742 (CI: 0.161, 3.409) OR=7.200 (CI: 2.632, 19.693) OR=3.214 (CI: 0.842, 12.276) OR=1.554 (CI: 0.530, 4.555) OR=1.883 (CI: 0.750, 4.730)

withdrawal of consent - 126d	Dichotomous	93	6	(6.5%)	93 7 (7.5%)	OR=0.847 (CI: 0.274, 2.624)
protocol deviation – 126d	Dichotomous	93	1	(1.1%)	93 1 (1.1%)	OR=1.000 (CI: 0.062, 16.230)
lost to follow-up - 126d	Dichotomous	93	3	(3.2%)	93 5 (5.4%)	OR=0.587 (CI: 0.136, 2.529)

a least squares mean; outcome from weeks 6 to 18 least squares mean; outcome from weeks 14 to 18 approximated to nearest integer (percentages only presented in text)

		LAC MG		11DE 400	PL	ACE	ВО		
		N	k	mean	N	k	mean	Δ	
pain score:									
NRS/NRS Pain – 0d	Continuous  Mean difference from baseline to average	91		6.5	93		6.6		
NRS/NRS Pain – 84d <sup>a</sup>	f-u Mean difference from baseline to average	72		-2.39	73		-1.65	MD=-0.740	
NRS/NRS Pain – 112d <sup>b</sup>	f-u	91		-2.34	90		-1.6	MD=-0.740	
NRS/NRS Pain – 126d	Mean change	91		2.5	93		1.8	MD=0.700	
NRS/NRS Pain – 126d	Continuous	91		4	93		4.8	MD=-0.800	
		-		•				OR=1.769 (CI: 0.986,	
at least 30% pain reduction (NRS) – 126d <sup>c</sup> patient-reported global improvement:	Dichotomous from baseline to average f-u	91	53		93	41		3.172) OR=0.302 (CI: 0.105,	
PGIC - worse (all grades) – 126d <sup>d</sup> PGIC - worse (all grades) or no change –	Dichotomous	91	5	(5.5%)	93	15	(16.1%)	0.870) OR=0.507 (CI: 0.255,	
126d <sup>a</sup>	Dichotomous	91	17	(18.7%)	93	29	(31.2%)	1.007) OR=0.857 (CI: 0.373,	
PGIC - no change – 126d <sup>d</sup> PGIC - minimally or moderately better –	Dichotomous	91	12	(13.2%)	93	14	(15.1%)	1.969) OR=0.952 (CI: 0.532,	
126d <sup>d</sup>	Dichotomous	91	40	(44.0%)	93	42	(45.2%)	1.704) OR=2.284 (CI: 1.158,	
PGIC - better (all grades) – 126d <sup>d</sup>	Dichotomous	91	74	(81.3%)	93	61	(65.6%)	4.502) OR=2.323 (CI: 1.202,	
PGIC - much better – 126d <sup>d</sup> patient-reported improvement in daily physical and emotional	Dichotomous	91	34	(37.4%)	93	19	(20.4%)	4.491)	
functioning, including sleep: NRS Sleep – 112d <sup>b</sup>	Mean difference from baseline to average f-u	91		-2.3	90		-1.8	MD=-0.500	
major adverse events (defined as leading to withdrawal): any major adverse event – 126d	Dichotomous	91	21	(23.1%)	93	8	(8.6%)	OR=3.188 (Cl: 1.331, 7.636)	
adverse events:	51.1	٠.	_	(0.00()		_	(0.00()	OR=1.551 (CI: 0.253,	
asthenia – 126d	Dichotomous	91	3	(3.3%)	93	2	(2.2%)	9.507) OR=3.099 (CI: 0.125,	
balance disorder – 126d	Dichotomous	91	1	(1.1%)	93	0	(0.0%)	77.081) OR=1.294 (CI: 0.336,	
Diarrhoea – 126d	Dichotomous	91	5	(5.5%)	93	4	(4.3%)	4.979) OR=2.673 (CI: 0.902,	
Dizziness – 126d	Dichotomous	91	12	(13.2%)	93	5	(5.4%)	7.924) OR=2.118 (CI: 0.513,	
Fatigue – 126d	Dichotomous	91	6	(6.6%)	93	3	(3.2%)	8.737)	

headache – 126d	Dichotomous	91	7	(7.7%)	93 6 (6	OR=1.208 (CI: 0.390, 3.744) OR=0.885 (CI: 0.307,
Nausea – 126d	Dichotomous	91	7	(7.7%)	93 8 (8	.6%) 2.551) OR=2.067 (CI: 0.184,
vertigo – 126d treatment withdrawal:	Dichotomous	91	2	(2.2%)	93 1 (1	.1%) 23.205) OR=0.506 (CI: 0.045,
due to lack of efficacy – 126d	Dichotomous	91	1	(1.1%)	93 2 (2	.2%) 5.674) OR=1.379 (CI: 0.300,
unspecified/other reason – 126d	Dichotomous	91	4	(4.4%)	93 3 (3	.2%) 6.342) OR=0.867 (CI: 0.280,
withdrawal of consent – 126d	Dichotomous	91	6	(6.6%)	93 7 (7	.5%) 2.687) OR=1.022 (CI: 0.063,
protocol deviation – 126d	Dichotomous	91	1	(1.1%)	93 1 (1	.1%) 16.593) OR=0.396 (CI: 0.075,
lost to follow-up – 126d	Dichotomous	91	2	(2.2%)	93 5 (5	.4%) 2.093)

			LACOSAMIDE 200 MG/D			ACE	ВО	
		N	k	mean	N	k	mean	Δ
pain score: NRS/NRS Pain – 84d <sup>a</sup>	Mean difference from baseline to average f-u Mean difference from baseline to average	79		-1.93	73		-1.65	MD=-0.280
NRS/NRS Pain – 112d <sup>b</sup> patient-reported global improvement: PGIC - worse (all grades) or no change –	f-u	92		-1.99	90		-1.6	MD=-0.390 OR=1.000 (CI: 0.538,
126d°	Dichotomous	93	29	(31.2%)	93	29	(31.2%)	1.860) OR=1.102 (CI: 0.599,
PGIC - better (all grades) – 126d <sup>c</sup> major adverse events (defined as leading to withdrawal):	Dichotomous	93	63	(67.7%)	93	61	(65.6%)	2.027) OR=1.000 (CI: 0.359,
any major adverse event – 126d adverse events:	Dichotomous	93	8	(8.6%)	93	8	(8.6%)	2.787) OR=0.196 (CI: 0.009,
asthenia – 126d	Dichotomous	93	0	(0.0%)	93	2	(2.2%)	4.133) OR=1.000 (CI: 0.020,
balance disorder – 126d	Dichotomous	93	0	(0.0%)	93		(0.0%)	50.927) OR=0.242 (CI: 0.027,
Diarrhoea – 126d	Dichotomous	93	1	(1.1%)	93		(4.3%)	2.206) OR=1.886 (CI: 0.607,
Dizziness – 126d	Dichotomous	93	9	(9.7%)	93		(5.4%)	5.857) OR=1.000 (CI: 0.197,
Fatigue – 126d	Dichotomous	93	3	(3.2%)	93		(3.2%)	5.087) OR=1.000 (CI: 0.310,
headache – 126d	Dichotomous	93	6	(6.5%)	93		(6.5%)	3.222) OR=1.000 (CI: 0.359,
Nausea – 126d	Dichotomous	93	8	(8.6%)	93	8	(8.6%)	2.787)

a least squares mean; outcome from weeks 6 to 18
b least squares mean; outcome from weeks 14 to 18
c OR ≥2 point reduction in NRS; numbers estimated from percentages so may not be absolutely accurate; outcome from weeks 14 to 18
d approximated to nearest integer (percentages only presented in text)

vertigo – 126d treatment withdrawal:	Dichotomous	93	1	(1.1%)	93 1 (1.1%	OR=1.000 (CI: 0.062, ) 16.230) OR=1.517 (CI: 0.248,
due to lack of efficacy – 126d	Dichotomous	93	3	(3.2%)	93 2 (2.2%	,
unspecified/other reason – 126d	Dichotomous	93	3	(3.2%)	93 3 (3.2%	,
withdrawal of consent – 126d	Dichotomous	93	6	(6.5%)	93 7 (7.5%	,
protocol deviation – 126d	Dichotomous	93	1	(1.1%)	93 1 (1.1%	,
lost to follow-up – 126d	Dichotomous	93	3	(3.2%)	93 5 (5.4%	,

a least squares mean; outcome from weeks 6 to 18
 b least squares mean; outcome from weeks 14 to 18
 c approximated to nearest integer (percentages only presented in text)

		PL	PLACEBO		ALL L	ACOSAM	IDE DOSAGES		
		N	k	mean	N	k	mean	Δ	
patient-reported global improvement:									
PGIC - worse (all grades) or no change – 126d <sup>a</sup>	Dichotomous	93	29	(31.2%)	277	57	(20.6%)	OR=1.749 (CI: 1.033, 2.961)	
PGIC - better (all grades) – 126d <sup>a</sup>	Dichotomous	93	61	(65.6%)	277	218	(78.7%)	OR=0.516 (CI: 0.308, 0.864)	
major adverse events				` ,			,	,	
(defined as leading to withdrawal):									
any major adverse event – 126d	Dichotomous	93	8	(8.6%)	277	66	(23.8%)	OR=0.301 (CI: 0.139, 0.654)	
adverse events:				,			, ,	,	
asthenia – 126d	Dichotomous	93	2	(2.2%)	277	8	(2.9%)	OR=0.739 (CI: 0.154, 3.544)	
balance disorder – 126d	Dichotomous	93	0	(0.0%)	277	7	(2.5%)	OR=0.193 (CI: 0.011, 3.410)	
Diarrhoea – 126d	Dichotomous	93	4	(4.3%)	277	9	(3.2%)	OR=1.338 (CI: 0.402, 4.452)	
Dizziness – 126d	Dichotomous	93	5	(5.4%)	277	48	(17.3%)	OR=0.271 (CI: 0.104, 0.703)	
Fatigue – 126d	Dichotomous	93	3	(3.2%)	277	18	(6.5%)	OR=0.480 (CI: 0.138, 1.667)	
headache – 126d	Dichotomous	93	6	(6.5%)	277	22	(7.9%)	OR=0.799 (CI: 0.314, 2.036)	
Nausea – 126d	Dichotomous	93	8	(8.6%)	277	29	(10.5%)	OR=0.805 (CI: 0.354, 1.828)	
oedema – 126d	Dichotomous	93	4	(4.3%)	277	9	(3.2%)	OR=1.338 (CI: 0.402, 4.452)	
vertigo – 126d	Dichotomous	93	1	(1.1%)	277	9	(3.2%)	OR=0.324 (CI: 0.040, 2.590)	
treatment withdrawal:									
due to lack of efficacy – 126d	Dichotomous	93	2	(2.2%)	277	7	(2.5%)	OR=0.848 (CI: 0.173, 4.154)	
unspecified/other reason – 126d	Dichotomous	93	3	(3.2%)	277	8	(2.9%)	OR=1.121 (CI: 0.291, 4.316)	
withdrawal of consent – 126d	Dichotomous	93	7	(7.5%)	277	18	(6.5%)	OR=1.171 (CI: 0.473, 2.899)	
protocol deviation – 126d	Dichotomous	93	1	(1.1%)	277	3	(1.1%)	OR=0.993 (CI: 0.102, 9.662)	
lost to follow-up – 126d	Dichotomous	93	5	(5.4%)	277	8	(2.9%)	OR=1.911 (CI: 0.609, 5.992)	

ITT population was defined as any patients who received at least 1 dose of study medication and had at least 1 postbaseline pain score entry; most patients had previously failed on other medications for NP; baseline scores were given as a range or dichotomised into categories (ie. <4, 4-6, 6-8, 8-10); concomittant tricyclic antidepressants in 9.6% (placebo), 7.6% (200 mg/d), 1.4% (400 mg/d), 7.4% (600 mg/d) but there were no apparent differences in pain reduction in those with and those without

Comments

Study	Yasuda et al. (2011)
Pain category	Peripheral pain
Study design	Country: Japan Design: Parallel Inclusion criteria: 20-80 years, sustained pain for =6 months from distal symmetric polyneuropathy from type 1 or 2 diabetes, =4 NRS weekly mean 24 hour average, HBA1c =9.4% at screening, fluctuation of HbA1c =1% at 42-70 days before screening Exclusion criteria: psychiatric disease or with history of these diseases in past year requiring pharmacotherapy, any disorders that might affect assessment of PDN, such as neurological disorders Study length (days): 91 Intention-to-treat analysis? Yes
Participants	Total number of patients: 339 Number of males: 256 (75.5%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 54 Baseline pain severity: 5.78 (weekly mean 24 hour average on NRS) Mean age: 60.8
Intervention(s)	(1) Duloxetine 40 mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 40mg/d Notes: first 1-2 week titration, starting with 20 mg/d and increasing the dose at 20 mg weekly increments
	(2) Duloxetine 60 mg/d Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Set dose: 60mg/d Notes: first 1-2 week titration, starting with 20 mg/d and increasing the dose at 20 mg weekly increments  (3) Placebo
	Intervention: placebo Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose  (4) Pooled duloxetine Intervention: duloxetine Length of treatment (weeks): 12 Fixed/flexible dose regimen: Fixed dose Notes: Arms 1 & 2 combined
Concomitant	Drug free baseline period? Yes (duration: 7d)

easures and ect sizes				<b>DULOXETINE 40 MG/D</b>						
	ffect sizes		N	k	mean	N	k	mean	Δ	
	pain score:									
	NRS/NRS Pain – 0d	Continuous	85		5.79 (SD 1.23)	86		5.76 (SD 1.17)		
	NRS/NRS Pain – 84d	Mean change	85		-2.41 (SD 1.94)	86		-2.53 (SD 1.95)	MD=0.120 (CI: -0.462, 0.702	
	NRS/NRS Pain – 84d	Continuous	85		3.38	86		3.23	MD=0.150	
	at least 30% pain reduction (NRS) – 84d	Dichotomous			(55.3%)		51		OR=0.849 (CI: 0.463, 1.557	
	at least 50% pain reduction (NRS) – 84d	Dichotomous	85	32	(37.6%)	86	35	(40.7%)	OR=0.880 (CI: 0.476, 1.626	
	patient-reported global improvement:									
	PGI-I – 84d <sup>a</sup>	Continuous	85		2.53 (SD 1.29)	86		2.52 (SD 1.3)	MD=0.010 (CI: -0.378, 0.398	
	patient-reported improvement in									
	daily physical and emotional									
	functioning, including sleep:				==>					
	Normalised (10-pt) sleep interference measure – 0d <sup>b</sup>	Continuous	85		4 (SD 2.8)	86		4.3 (SD 2.7)		
	Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change	85		-2.26 (SD 2.67)	86		-2.05 (SD 2.69)		
	BPI – 0d°	Continuous	85		3.88 (SD 2.25)	86		4.09 (SD 2.13)	MD 0 000 (OL 0 505 0 74)	
	BPI – 84d <sup>c</sup>	Mean change	85		-2 (SD 2.21)	86		-2.08 (SD 2.23)	MD=0.080 (CI: -0.585, 0.745	
	BPI Mood – 0d	Continuous	85		3.9 (SD 2.5)	86		4.2 (SD 2.5)	MD 0 040 (OL 0 504 4 04	
	BPI Mood – 84d	Mean change	85		-2.18 (SD 2.67)	86		-2.39 (SD 2.69)	MD=0.210 (CI: -0.594, 1.014	
	BPI Sleep – 0d	Continuous	85		4 (SD 2.8)	86		4.3 (SD 2.7)	MD 0 040 (CL 4 044 0 50	
	BPI Sleep – 84d BPI general activity – 0d	Mean change Continuous	85 85		-2.26 (SD 2.67) 4.5 (SD 2.7)	86 86		-2.05 (SD 2.69) 4.5 (SD 2.4)	MD=-0.210 (CI: -1.014, 0.59	
	BPI general activity – 84d	Mean change	85		-2.48 (SD 2.67)	86		-2.1 (SD 2.4)	MD=-0.380 (CI: -1.184, 0.42	
	BPI walking ability – 0d	Continuous	85		4.4 (SD 2.8)	86		4.3 (SD 2.69)	WID=-0.360 (CI1.164, 0.42	
	BPI walking ability – 84d	Mean change	85		-2.32 (SD 2.58)	86		-2.31 (SD 2.6)	MD=-0.010 (CI: -0.786, 0.76	
	BPI normal work – 0d	Continuous	85		3.9 (SD 2.6)	86		4.3 (SD 2.5)	MD=-0.010 (C10.766, 0.76	
	BPI normal work – 84d	Mean change	85		-1.84 (SD 2.58)	86		-1.9 (SD 2.6)	MD=0.060 (CI: -0.716, 0.836	
	BPI relationship with other people – 0d	Continuous	85		2.7 (SD 2.7)	86		2.9 (SD 2.4)	WD=0.000 (CI0.7 TO, 0.030	
	BPI relationship with other people – 84d	Mean change	85		-1.16 (SD 2.49)	86		-1.49 (SD 2.5)	MD=0.330 (CI: -0.418, 1.078	
	BPI enjoyment of life – 0d	Continuous	85		3.7 (SD 2.7)	86		4.2 (SD 2.5)	WD=0.550 (CI0.416, 1.076	
	BPI enjoyment of life – 84d	Mean change	85		-1.96 (SD 2.58)	86		-2.35 (SD 2.6)	MD=0.390 (CI: -0.386, 1.166	
	major adverse events	wear change	00		1.50 (OD 2.50)	00		2.00 (OD 2.0)	WID=0.550 (OI: 0.500, 1.100	
	(defined as leading to withdrawal):									
	any major adverse event – 84d	Dichotomous	85	9	(10.6%)	86	12	(14.0%)	OR=0.730 (CI: 0.291, 1.835)	
	adverse events:	2.00.0		Ū	(10.070)	-		(1.1070)	0.1. 0.1. 00 (O.1. 0.120 ), 11.000,	
	any adverse event – 84d	Dichotomous	85	72	(84.7%)	86	73	(84.9%)	OR=0.986 (CI: 0.428, 2.273)	
	Constipation	Dichotomous	85		(7.1%)		5	(5.8%)	OR=1.230 (CI: 0.361, 4.195)	
	Diarrhoea	Dichotomous	85		(4.7%)	86		(8.1%)	OR=0.557 (CI: 0.157, 1.979	
	Dizziness – 84d	Dichotomous	85		(7.1%)	86		(4.7%)	OR=1.557 (CI: 0.423, 5.726	
	Nausea	Dichotomous			(11.8%)		14		OR=0.686 (CI: 0.286, 1.643)	
	Somnolence – 84d	Dichotomous			(18.8%)		21	(24.4%)	OR=0.718 (CI: 0.345, 1.494)	
	Vomiting	Dichotomous	85		(4.7%)	86		(5.8%)	OR=0.800 (CI: 0.207, 3.087)	
	treatment withdrawal:				. ,			, ,	, , , , , , , , , , , , , , , , , , , ,	
	unspecified/other reason – 84d	Dichotomous	85	4	(4.7%)	86	4	(4.7%)	OR=1.012 (CI: 0.245, 4.186)	

		DU	LOX	ETINE 40 MG/D	PLA	CEBC	)	- Δ	
		N	k	mean	N	k	mean		
pain score:									
NRS/NRS Pain – 0d	Continuous	85		5.79 (SD 1.23)	167		5.78 (SD 1.17)		
NRS/NRS Pain – 84d	Mean change	85		-2.41 (SD 1.94)	167		-1.61 (SD 2.33)	MD=-0.800 (CI: -1.342, -0.258	
NRS/NRS Pain – 84d	Continuous	85		3.38	167		4.17	MD=-0.790	
at least 30% pain reduction (NRS) – 84d	Dichotomous		47		167	59	(35.3%)	OR=2.264 (CI: 1.329, 3.856)	
at least 50% pain reduction (NRS) – 84d	Dichotomous			(37.6%)	167		(19.8%)	OR=2.452 (CI: 1.371, 4.383)	
patient-reported global improvement:	2.0	-	-	(0.1070)			(10.070)	O11 2.102 (O11 1101 1, 11000)	
PGI-I – 84d <sup>a</sup>	Continuous	85		2.53 (SD 1.29)	167		3.18 (SD 1.55)	MD=-0.650 (CI: -1.011, -0.289	
patient-reported improvement in	001111111111111111111111111111111111111	-		2.00 (02 1.20)			0.10 (02 1.00)	2 0.000 (0 1.01.1, 0.200	
daily physical and emotional									
functioning, including sleep:									
Normalised (10-pt) sleep interference measure – 0d <sup>b</sup>	Continuous	85		4 (SD 2.8)	167		3.9 (SD 2.7)		
Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change	85		-2.26 (SD 2.67)	167		-1.69 (SD 3.1)		
BPI – 0d <sup>c</sup>	Continuous	85		3.88 (SD 2.25)	167		3.75 (SD 2.15)		
BPI – 84d <sup>c</sup>	Mean change	85		-2 (SD 2.21)	167		-1.56 (SD 2.13)	MD=-0.440 (CI: -1.052, 0.172)	
BPI Mood – 0d	Continuous	85		3.9 (SD 2.5)	167		4.2 (SD 2.4)	MD=-0.440 (CI1.052, 0.172)	
							,	MD- 0.270 (CI: 1.009 0.469)	
BPI Sloop 0d	Mean change	85		-2.18 (SD 2.67)	167		-1.91 (SD 3.1)	MD=-0.270 (CI: -1.008, 0.468)	
BPI Sleep – 0d	Continuous	85		4 (SD 2.8)	167		3.9 (SD 2.7)	MD 0.570 (Cl. 4.200 0.400)	
BPI Sleep – 84d	Mean change	85		-2.26 (SD 2.67)	167		-1.69 (SD 3.1)	MD=-0.570 (CI: -1.308, 0.168)	
BPI general activity – 0d	Continuous	85		4.5 (SD 2.7)	167		4.4 (SD 2.4)	MD 0 000 (OL 4 000 0 400)	
BPI general activity – 84d	Mean change	85		-2.48 (SD 2.67)	167		-1.88 (SD 3.1)	MD=-0.600 (CI: -1.338, 0.138)	
BPI walking ability – 0d	Continuous	85		4.4 (SD 2.8)	167		4 (SD 2.6)	MD 0 500 (OL 4 040 0 040)	
BPI walking ability – 84d	Mean change	85		-2.32 (SD 2.58)	167		-1.82 (SD 2.97)	MD=-0.500 (CI: -1.210, 0.210)	
BPI normal work – 0d	Continuous	85		3.9 (SD 2.6)	167		3.7 (SD 2.7)		
BPI normal work – 84d	Mean change	85		-1.84 (SD 2.58)	167		-1.49 (SD 2.97)	MD=-0.350 (CI: -1.060, 0.360)	
BPI relationship with other people – 0d	Continuous	85		2.7 (SD 2.7)	167		2.6 (SD 2.5)		
BPI relationship with other people – 84d	Mean change	85		-1.16 (SD 2.49)	167		-0.77 (SD 2.97)	MD=-0.390 (CI: -1.085, 0.305)	
BPI enjoyment of life – 0d	Continuous	85		3.7 (SD 2.7)	167		3.5 (SD 2.5)		
BPI enjoyment of life – 84d	Mean change	85		-1.96 (SD 2.58)	167		-1.59 (SD 2.97)	MD=-0.370 (CI: -1.080, 0.340)	
major adverse events									
(defined as leading to withdrawal):									
any major adverse event – 84d	Dichotomous	85	9	(10.6%)	167	9	(5.4%)	OR=2.079 (CI: 0.793, 5.449)	
adverse events:									
any adverse event – 84d	Dichotomous		72				(73.7%)	OR=1.981 (CI: 1.000, 3.925)	
Constipation	Dichotomous	85		(7.1%)	167		(5.4%)	OR=1.333 (CI: 0.458, 3.878)	
Diarrhoea	Dichotomous	85		(4.7%)	167		(3.6%)	OR=1.325 (CI: 0.364, 4.828)	
Dizziness – 84d	Dichotomous	85		(7.1%)	167		(1.2%)	OR=6.266 (CI: 1.237, 31.745)	
Nausea	Dichotomous	85	10	(11.8%)	167	3	(1.8%)	OR=7.289 (CI: 1.949, 27.253)	
Somnolence – 84d	Dichotomous	85	16	(18.8%)	167	14	(8.4%)	OR=2.534 (CI: 1.172, 5.482)	
Vomiting	Dichotomous	85	4	(4.7%)	167	2	(1.2%)	OR=4.074 (CI: 0.731, 22.708)	
treatment withdrawal:				. ,			•	,	
unspecified/other reason – 84d	Dichotomous	85	4	(4.7%)	167	8	(4.8%)	OR=0.981 (CI: 0.287, 3.357)	

<sup>&</sup>lt;sup>a</sup> Table says this is a mean difference but text says it is the figures at week 12. As no baseline given, assumed it was the value at 12 weeks based on BPI Sleep cays of all 7 inference scores

<b>DULOXETINE 60 MG/D</b>	PLACEBO
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		N	k	mean	N	k	mean	Δ
pain score:								
NRS/NRS Pain – 0d	Continuous	86		5.76 (SD 1.17)	167		5.78 (SD 1.17)	
NRS/NRS Pain – 84d	Mean change	86		-2.53 (SD 1.95)	167		-1.61 (SD 2.33)	MD=-0.920 (CI: -1.462, -0.378)
NRS/NRS Pain – 84d	Continuous	86		3.23	167		4.17	MD=-0.940
at least 30% pain reduction (NRS) – 84d	Dichotomous		51		167	59	(35.3%)	OR=2.667 (CI: 1.563, 4.552)
at least 50% pain reduction (NRS) – 84d	Dichotomous		35		167		(19.8%)	OR=2.787 (CI: 1.569, 4.950)
patient-reported global improvement:	Dionotomous	00	00	(40.170)	101	00	(10.070)	ON=2.707 (OI: 1.000, 4.000)
PGI-I – 84d <sup>a</sup>	Continuous	86		2.52 (SD 1.3)	167		3.18 (SD 1.55)	MD=-0.660 (CI: -1.021, -0.299)
patient-reported improvement in	Continuous	00		2.32 (3D 1.3)	101		3.10 (SD 1.33)	WD=-0.000 (C11.021, -0.299
daily physical and emotional								
functioning, including sleep:	C	00		4.0 (CD 0.7)	407		2.0 (CD 2.7)	
Normalised (10-pt) sleep interference measure – 0d <sup>b</sup>	Continuous	86		4.3 (SD 2.7)	167		3.9 (SD 2.7)	
Normalised (10-pt) sleep interference measure – 84d <sup>b</sup>	Mean change	86		-2.05 (SD 2.69)	167		-1.69 (SD 3.1)	
BPI – Od <sup>c</sup>	Continuous	86		4.09 (SD 2.13)	167		3.75 (SD 2.15)	
BPI – 84d <sup>c</sup>	Mean change	86		-2.08 (SD 2.23)	167		-1.56 (SD 2.58)	MD=-0.520 (CI: -1.132, 0.092)
BPI Mood – 0d	Continuous	86		4.2 (SD 2.5)	167		4.2 (SD 2.4)	
BPI Mood – 84d	Mean change	86		-2.39 (SD 2.69)	167		-1.91 (SD 3.1)	MD=-0.480 (CI: -1.218, 0.258)
BPI Sleep – 0d	Continuous	86		4.3 (SD 2.7)	167		3.9 (SD 2.7)	
BPI Sleep – 84d	Mean change	86		-2.05 (SD 2.69)	167		-1.69 (SD 3.1)	MD=-0.360 (CI: -1.098, 0.378)
BPI general activity – 0d	Continuous	86		4.5 (SD 2.4)	167		4.4 (SD 2.4)	
BPI general activity – 84d	Mean change	86		-2.1 (SD 2.69)	167		-1.88 (SD 3.1)	MD=-0.220 (CI: -0.958, 0.518)
BPI walking ability – 0d	Continuous	86		4.3 (SD 2.5)	167		4 (SD 2.6)	
BPI walking ability – 84d	Mean change	86		-2.31 (SD 2.6)	167		-1.82 (SD 2.97)	MD=-0.490 (CI: -1.200, 0.220)
BPI normal work – 0d	Continuous	86		4.3 (SD 2.5)	167		3.7 (SD 2.7)	
BPI normal work – 84d	Mean change	86		-1.9 (SD 2.6)	167		-1.49 (SD 2.97)	MD=-0.410 (CI: -1.120, 0.300)
BPI relationship with other people – 0d	Continuous	86		2.9 (SD 2.4)	167		2.6 (SD 2.5)	
BPI relationship with other people – 84d	Mean change	86		-1.49 (SD 2.5)	167		-0.77 (SD 2.97)	MD=-0.720 (CI: -1.415, -0.025)
BPI enjoyment of life – 0d	Continuous	86		4.2 (SD 2.5)	167		3.5 (SD 2.5)	- (-
BPI enjoyment of life – 84d	Mean change	86		-2.35 (SD 2.6)	167		-1.59 (SD 2.97)	MD=-0.760 (CI: -1.470, -0.050
major adverse events	ca cagc	-		2.00 (02 2.0)			(02 2.0.)	2 000 (00, 0.000
(defined as leading to withdrawal):								
any major adverse event – 84d	Dichotomous	86	12	(14.0%)	167	g	(5.4%)	OR=2.847 (CI: 1.149, 7.053)
adverse events:	Bioriotornous	00		(11.070)	101	Ŭ	(0.170)	GR-2.6 17 (GI. 111 16, 7.666)
any adverse event – 84d	Dichotomous	86	73	(84.9%)	167	123	(73.7%)	OR=2.009 (CI: 1.014, 3.977)
Constipation	Dichotomous	86		(5.8%)	167	_	(5.4%)	OR=1.084 (CI: 0.352, 3.340)
Diarrhoea	Dichotomous	86		(8.1%)	167		(3.6%)	OR=2.378 (CI: 0.773, 7.310)
Dizziness – 84d	Dichotomous	86		(4.7%)	167		(1.2%)	OR=4.024 (CI: 0.773, 7.310)
Nausea	Dichotomous			(4.7%) (16.3%)	167		(1.2%)	OR=4.024 (CI: 0.722, 22.427) OR=10.630 (CI: 2.963, 38.130)
Somnolence – 84d			21	(24.4%)	167		'	
	Dichotomous						(8.4%)	OR=3.531 (CI: 1.692, 7.370)
Vomiting	Dichotomous	86	5	(5.8%)	167	2	(1.2%)	OR=5.093 (CI: 0.967, 26.817)
treatment withdrawal:	Diahatama	00	4	(4.70/)	407		(4.00/)	OD 0.070 (CI; 0.004 0.045)
unspecified/other reason – 84d	Dichotomous	86	4	(4.7%)	167	8	(4.8%)	OR=0.970 (CI: 0.284, 3.315)

<sup>&</sup>lt;sup>a</sup> Table says this is a mean difference but text says it is the figures at week 12. As no baseline given, assumed it was the value at 12 weeks based on BPI Sleep c average of all 7 inference scores

PLACEBO	POOLED DULOXETINE	
N k mean	N k mean	Δ

pain score: NRS/NRS Pain – 0d	Continuous	167	5.78 (SD 1.17)	171	5.77 (SD 1.2)	
NRS/NRS Pain – 28d <sup>a</sup>	Mean change	167	-1.05	171	-1.75	MD=0.700
NRS/NRS Pain – 56d <sup>a</sup>	Mean change	167	-1.48	171	-2.25	MD=0.770
NRS/NRS Pain – 84d	Mean change	167	-1.61 (SD 2.33)	171	-2.47 (SD 2.35)	MD=0.870 (CI: 0.576, 1.16
NRS/NRS Pain – 84d	Continuous	167	4.17	171	3.3	MD=0.870 (CI. 0.376, 1.16)
at least 30% pain reduction (NRS) – 84d	Dichotomous	167 59	(35.3%)	171 98	(57.3%)	OR=0.407 (CI: 0.262, 0.63
at least 50% pain reduction (NRS) – 84d	Dichotomous	167 39	(19.8%)	171 96	(37.3%)	OR=0.382 (CI: 0.234, 0.62
patient-reported global improvement:	Dictiolofficus	107 33	(19.0%)	171 07	(39.2%)	OR=0.362 (Cl. 0.234, 0.62
PGI-I – 84d	Continuous	167	3.18 (SD 1.55) <sup>b</sup>	171	0 F0 (CD 4 F7)	MD=0.650 (CI: 0.317, 0.98
	Continuous	107	3.16 (3D 1.55)	171	2.53 (SD 1.57)	MD=0.650 (Cl. 0.317, 0.96
patient-reported improvement in						
daily physical and emotional						
functioning, including sleep:	0	407	0.0 (00.07)	474	4.0.(00.0.0)	
Normalised (10-pt) sleep interference measure – 0d <sup>c</sup>	Continuous	167	3.9 (SD 2.7)	171	4.2 (SD 2.8)	
Normalised (10-pt) sleep interference measure – 84d <sup>c</sup>	Mean change	167	-1.69 (SD 3.1)	171	-2.15 (SD 3.14)	
$BPI - 0d^d$	Continuous	167	3.75 (SD 2.15)	171	3.99 (SD 2.18)	
BPI – 84d <sup>d</sup>	Mean change	167	-1.56 (SD 2.58)	171	-2.04 (SD 2.62)	MD=0.480 (CI: -0.074, 1.03
BPI Mood – 0d	Continuous	167	4.2 (SD 2.4)	171	4.1 (SD 2.5)	
BPI Mood – 84d	Mean change	167	-1.91 (SD 3.1)	171	-2.28 (SD 3.14)	MD=0.370 (CI: -0.295, 1.03
BPI Sleep – 0d	Continuous	167	3.9 (SD 2.7)	171	4.2 (SD 2.8)	
BPI Sleep – 84d	Mean change	167	-1.69 (SD 3.1)	171	-2.15 (SD 3.14)	MD=0.460 (CI: -0.205, 1.1)
BPI general activity – 0d	Continuous	167	4.4 (SD 2.4)	171	4.5 (SD 2.5)	
BPI general activity – 84d	Mean change	167	-1.88 (SD 3.1)	171	-2.29 (SD 3.14)	MD=0.410 (CI: -0.255, 1.0
BPI walking ability – 0d	Continuous	167	4 (SD 2.6)	171	4.4 (SD 2.6)	
BPI walking ability – 84d	Mean change	167	-1.82 (SD 2.97)	171	-2.31 (SD 3.01)	MD=0.490 (CI: -0.148, 1.1
BPI normal work – 0d	Continuous	167	3.7 (SD 2.7)	171	4.1 (SD 2.5)	(
BPI normal work – 84d	Mean change	167	-1.49 (SD 2.97)	171	-1.86 (SD 3.01)	MD=0.370 (CI: -0.268, 1.0
BPI relationship with other people – 0d	Continuous	167	2.6 (SD 2.5)	171	2.8 (SD 2.5)	MB=0.070 (Ci. 0.200, 1.0
BPI relationship with other people – 84d	Mean change	167	-0.77 (SD 2.97)	171	-1.32 (SD 3.01)	MD=0.550 (CI: -0.088, 1.1
BPI enjoyment of life – 0d	Continuous	167	3.5 (SD 2.5)	171	3.9 (SD 2.6)	WID=0.550 (CI0.000, 1.1)
BPI enjoyment of life – 84d	Mean change	167	-1.59 (SD 2.97)	171	-2.15 (SD 3.01)	MD=0.560 (CI: -0.078, 1.1
major adverse events	3.	-	,		,	( )
(defined as leading to withdrawal):						
any major adverse event – 84ď	Dichotomous	167 9	(5.4%)	171 21	(12.3%)	OR=0.407 (CI: 0.181, 0.91
adverse events:			,		,	,
any adverse event – 84d	Dichotomous	167 123	(73.7%)	171 145	(84.8%)	OR=0.501 (CI: 0.292, 0.86
Constipation	Dichotomous	167 9	(5.4%)	171 11	(6.4%)	OR=0.829 (CI: 0.334, 2.05
Diarrhoea	Dichotomous	167 6	(3.6%)	171 11	(6.4%)	OR=0.542 (CI: 0.196, 1.50
Dizziness – 84d	Dichotomous	167 2	(1.2%)	171 10	(5.8%)	OR=0.195 (CI: 0.042, 0.90
Nausea	Dichotomous	167 3	(1.8%)	171 24	(14.0%)	OR=0.112 (CI: 0.033, 0.38
Somnolence – 84d	Dichotomous	167 14	(8.4%)	171 37	(21.6%)	OR=0.331 (CI: 0.172, 0.63
Vomiting	Dichotomous	167 2	(1.2%)	171 9	(5.3%)	OR=0.218 (CI: 0.046, 1.02
treatment withdrawal:	Dictiolofficus	107 2	(1.270)	171 9	(3.370)	OK=0.218 (Cl. 0.040, 1.02
unspecified/other reason – 84d	Dishotomous	167 0	(4.00/)	171 0	(4.70/)	OD 4 005 (CI) 0 076 0 70
urispecified/other reason – 840	Dichotomous	167 8	(4.8%)	171 8	(4.7%)	OR=1.025 (CI: 0.376, 2.79
a estimated from graph using ruler						
<sup>b</sup> Table says this is a mean difference but text says it is the	e figures at week 1	2. As no ba	seline given, assum	ned it was th	e value at 12 week	is.
based on BPI Sleep		,	g, accum		- 1	<del></del>
average of all 7 inference scores						

Study	Yucel et al. (2005)
Pain category	Mixed (central and peripheral) or unclear if mixed
Study design	Country: Turkey Design: Parallel Inclusion criteria: Neuropathic pain for longer than 6 months with at least 4cm on 10cm VASpi- patients were subjected to experimentally induced pain but this data was not used in this review Exclusion criteria: pain other than neuropathic pain, pain of mixed origin, previous hypersensitivity to venlafaxine, experience of MI in last 6 months or current being treated for angina pectoris, alcohol or drug addiction, bipolar depression, psychotic disorder, major depressive treatment with monoamine oxidase inhibitors Study length (days): 56 Intention-to-treat analysis? No
Participants	Total number of patients: 60 Number of males: 24 (40.0%) Underlying cause of neuropathic pain: Mixed neuropathic pain Mean duration of NP (in months): not reported Baseline pain severity: 7.7 (VAS (average of arm medians)) Mean age: 50.2066666666667
Intervention(s)	(1) Venlafaxine 75 mg/d Intervention: venlafaxine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 75mg/d (2) Venlafaxine 150mg/d Intervention: venlafaxine Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose Set dose: 150mg/d (3) Placebo Intervention: placebo Length of treatment (weeks): 8 Fixed/flexible dose regimen: Fixed dose
Concomitant treatments	Drug free baseline period? No  Concomitant pain treatment allowed? Unclear (no anti-depressants or anti-convulsants were permitted but not clear if opioids were allowed; 500mg paracetamol (3-4 tablets per day) was permitted as rescue analgesia)
Outcomes	VENLAFAXINE 75 MG/D VENLAFAXINE 150MG/D
measures and effect sizes	N k mean N k mean Δ

VAS – 0c	: <b>1</b> a	Continuous	17		med: 7 [rng 5-10]	17		med: 8 [rng 5-10]	
VAS - 56		Mean change	17		med: 4 [rng 0–8]	17		med: 4 [rng -3–7]	
VAS - 56		Continuous	17		med: 4 [rng 0-6]	17		med: 4 [rng 0-8]	
major adve									
	leading to withdrawal): or adverse event – 56d	Dichotomous	20	1	(5.0%)	20	3	(15.0%)	OR=0.298 (CI: 0.028, 3.146)
adverse ev		Dichotomous	20	'	(3.070)	20	3	(13.070)	OK=0.230 (OI. 0.020, 3.140)
any adve	erse event – 56d <sup>b</sup>	Dichotomous	20	9	(45.0%)	20	14	(70.0%)	OR=0.351 (CI: 0.096, 1.287)
	ans reported ch side effect not given but	included nausea-vomi	ting, di:	zzine	ss and somnolence				
			VE	NLAI	FAXINE 75 MG/D	PLA	CEE	30	
			N	k	mean	N	k	mean	Δ
pain score:									
VAS - 00		Continuous	17		med: 7 [rng 5–10]	18		med: 8 [rng 6–10]	
VAS - 56		Mean change	17		med: 4 [rng 0-8]	18		med: 1 [rng -1-6]	
VAS - 56		Continuous	17		med: 4 [rng 0-6]	18		med: 7 [rng 0-10]	
major adve	erse events leading to withdrawal):								
	or adverse event – 56d	Dichotomous	20	1	(5.0%)	20	1	(5.0%)	OR=1.000 (CI: 0.058, 17.181)
adverse ev		Dictiolofficus	20	•	(3.070)	20	'	(3.070)	OK=1.000 (OI. 0.000, 17.101)
	erse event – 56d <sup>b</sup>	Dichotomous	20	9	(45.0%)	20	11	(55.0%)	OR=0.669 (CI: 0.193, 2.327)
a only media b rate of each	ans reported ch side effect not given but	included nausea-vomi				DI.	<b>A C F I</b>	20	
					FAXINE 150MG/D		ACE		_
			N	k	mean	N	k	mean	Δ
pain score:		Continuous			mod. 0 [rng E 10]	10		mad: 0 [mag 6 40]	
VAS - 00	d <sup>a</sup>	Continuous	17		med: 8 [rng 5–10]	18 18		med: 8 [rng 6–10]	
VAS – 00 VAS – 56	d <sup>a</sup> 6d <sup>a</sup>	Continuous	17 17		med: 4 [rng 0-8]	18		med: 7 [rng 0-10]	
VAS - 00	d <sup>a</sup> 6d <sup>a</sup>		17						
VAS – 00 VAS – 56 VAS – 56 major adve (defined as	d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> erse events s leading to withdrawal):	Continuous	17 17		med: 4 [rng 0-8]	18		med: 7 [rng 0-10]	
VAS – 0c VAS – 56 VAS – 56 major adve (defined as any majo	d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> erse events s leading to withdrawal): or adverse event – 56d	Continuous	17 17	3	med: 4 [rng 0-8]	18	1	med: 7 [rng 0-10]	OR=3.353 (CI: 0.318, 35.364
VAS – 0c VAS – 56 VAS – 56 major adve (defined as any majo adverse ev	d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> erse events is leading to withdrawal): or adverse event – 56d rents:	Continuous Mean change Dichotomous	17 17 17 20		med: 4 [rng 0–8] med: 4 [rng -3–7] (15.0%)	18 18 20		med: 7 [rng 0–10] med: 1 [rng -1–6] (5.0%)	
VAS – 0c VAS – 56 VAS – 56 major adve (defined as any majo adverse ev	d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> erse events s leading to withdrawal): or adverse event – 56d	Continuous Mean change	17 17 17 20		med: 4 [rng 0–8] med: 4 [rng -3–7]	18 18 20		med: 7 [rng 0–10] med: 1 [rng -1–6]	OR=3.353 (CI: 0.318, 35.364 OR=1.909 (CI: 0.520, 7.007)
VAS – 0c VAS – 56 VAS – 56 WAS – 56 Major adve (defined as any majo adverse ev any adve	d <sup>a</sup> 6d <sup>a</sup> 6d <sup>a</sup> 6de 6de 6rse events 6 leading to withdrawal): 6 adverse event – 56d 6 ents: 6 rse event – 56d 6 ans reported	Continuous Mean change Dichotomous Dichotomous	17 17 17 20 20	14	med: 4 [rng 0–8] med: 4 [rng -3–7] (15.0%) (70.0%)	18 18 20		med: 7 [rng 0–10] med: 1 [rng -1–6] (5.0%)	
VAS – 0c VAS – 5c VAS – 5c VAS – 5c major adve (defined as any majo adverse ev any adve	d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> 5d <sup>a</sup> 6rse events 5 leading to withdrawal): 6r adverse event – 56d 7 rents: 6rse event – 56d <sup>b</sup> 6rs reported 6rs side effect not given but	Continuous Mean change Dichotomous Dichotomous included nausea-vomi	17 17 17 20 20 ting, di	14 zzine	med: 4 [rng 0–8] med: 4 [rng -3–7] (15.0%) (70.0%) ss and somnolence	18 18 20 20	11	med: 7 [rng 0–10] med: 1 [rng -1–6] (5.0%)	

Study	Ziegler et al. (2010)							
Pain category	Peripheral pain							
Study design	Country: Europe  Design: Parallel Inclusion criteria: =18 years with type1 or type 2 diabetes, symptoms for 6 months to 5 years (=4 on NRS), A1C < 12%  Exclusion criteria: other conditions contributing to chronic pain, MI or clinically relevant cardiac dysfunction in last year, chronic alcohol or drug abuse in last year or any drug use that might interfere with trial results, 2nd or 3rd degree atrioventricular block  Study length (days): 140  Intention-to-treat analysis? Yes							
Participants	Total number of patients: 357 Number of males: 184 (51.5%) Underlying cause of neuropathic pain: Painful diabetic neuropathy Mean duration of NP (in months): 38.4 Baseline pain severity: 6.4666666666667 (NRS (average of arm means)) Mean age: 57.9 (SD: 10.6)							
Intervention(s)	Mean age: 57.9 (SD: 10.6)  (1) Lacosamide 600 mg/d Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose Set dose: 600mg/d Notes: 6 week titration, 12 week maintenance; titration period was standard: 100 mg/d with weekly increases of 100 mg/d to 600 mg/d target dosage (2) Lacosamide 400 mg/d Intervention: lacosamide Length of treatment (weeks): 18 Fixed/flexible dose regimen: Fixed dose Set dose: 400mg/d Notes: this group was further randomised to slow titration (100 mg/d for 3 weeks, then weekly increases of 100 mg/d, to 400 mg/d target dose at week 6) and standard titration (100 mg/d with weekly increases of 100 mg/d target dosage) (3) Placebo Intervention: placebo Length of treatment (weeks): 18							
Concomitant treatments	Drug free baseline period? Yes (duration: 7d)  Concomitant pain treatment allowed? No (paracetamol =2 g/day as rescue medication (no others allowed))							
Outcomes measures and	LACOSAMIDE 600 LACOSAMIDE 400 MG/D MG/D							
effect sizes	N k mean Δ							

adverse events: any adverse event – 126d	Dichotomous	133	86	(64.7%)	150	88	(58.7%)	OR=0.893 (CI: 0.4
Fatigue – 126d	Dichotomous	133			150			1.982)
headache – 126d	Dichotomous	133			150			OR=0.870 (CI: 0.3 2.405)
Nausea – 126d	Dichotomous	133			150			OR=3.051 (CI: 1.1 8.109)
vertigo – 126d	Dichotomous	133			150			OR=1.554 (CI: 0.6 3.813)
Vomiting – 126d	Dichotomous	133			150			OR=4.111 (CI: 0.8 20.146)
ITT/LOCF (last-observation carried forward) pain score:								
NRS/NRS Pain – 0d	Continuous  Mean difference from baseline to	133		6.4 (SD 1.4)	150		6.4 (SD 1.3)	
NRS/NRS Pain – 126d	average f-u Mean difference from baseline to	132		-1.86	149		-1.9	MD=0.040
VAS – 63d <sup>a</sup> at least 30% pain reduction (NRS) –	average f-u  Dichotomous from baseline to average	131		-18.8	149		-18.1	MD=-0.700 OR=1.328 (CI: 0.8
126d <sup>b</sup> at least 50% pain reduction (NRS) –	f-u	132	66		149	64		2.127) OR=1.068 (CI: 0.6
105d <sup>c</sup> at least 50% pain reduction (NRS) –	Dichotomous	132	39	(29.5%)	149	42	(28.2%)	1.791)
126d <sup>c</sup>	Dichotomous	132	35	(26.5%)	149	43	(28.9%)	OD 2 277 (Ol. 0.2
patient-reported global improvement: PGIC - much worse – 126d	Dichotomous	132	2	(1.5%)	149	1	(0.7%)	OR=2.277 (CI: 0.2 25.402)
PGIC - moderately worse – 126d	Dichotomous	132	1	(0.8%)	149	1	(0.7%)	OR=1.130 (CI: 0.0 18.243) OR=0.561 (CI: 0.0
PGIC - minimally worse - 126d	Dichotomous	132	1	(0.8%)	149	2	(1.3%)	6.259)
PGIC - no change – 126d	Dichotomous	132	16	(12.1%)	149	16	(10.7%)	OR=1.147 (CI: 0.5 2.394)
PGIC - minimally better – 126d	Dichotomous	132	21	(15.9%)	149	36	(24.2%)	OR=0.594 (CI: 0.3
PGIC - moderately better – 126d	Dichotomous	132	19	(14.4%)	149	20	(13.4%)	OR=1.085 (CI: 0.5 2.134)
PGIC - much better – 126d patient-reported improvement in	Dichotomous	132	17	(12.9%)	149	20	(13.4%)	OR=0.953 (CI: 0.4 1.908)
daily physical and emotional functioning, including sleep: NRS Sleep – 84d <sup>d</sup> major adverse events	Mean difference from baseline to average f-u	96		-2.29	122		-1.92	MD=-0.370
(defined as leading to withdrawal): any major adverse event – 126d	Dichotomous	133	31	(23.3%)	150	17	(11.3%)	OR=0.447 (CI: 0.1380) OR=0.447 (CI: 0.1380)
any major adverse event – 126d adverse events:	Dichotomous	74	31	(23.3%)	150	17	(11.3%)	1.380) OR=1.370 (CI: 0.6
Dizziness – 126d	Dichotomous	133	26	(19.5%)	150	11	(7.3%)	2.962)

B: : 400 l	5:1	100	-	(40.50()	70		(7.00()	OR=1.370 (CI: 0.633,
Dizziness – 126d	Dichotomous	133	26	(19.5%)	73	11	(7.3%)	2.962)
Fatigue – 126d	Dichotomous	133	12	(9.0%)	150	15	(10.0%)	
headache – 126d	Dichotomous	133	7	(5.3%)	150	9	(6.0%)	
Nausea – 126d	Dichotomous	133	15	(11.3%)	150	6	(4.0%)	
vertigo – 126d	Dichotomous	133	12	(9.0%)	150	9	(6.0%)	
Vomiting – 126d	Dichotomous	133	7	(5.3%)	150	2	(1.3%)	00 4 540 404 0 000
treatment withdrawal:	<b>5</b> 1.1		_	(4 = 0.()			(a =a()	OR=1.542 (CI: 0.336,
due to lack of efficacy – 126d	Dichotomous	133	6	(4.5%)	150	4	(2.7%)	7.077)
	D' L		_	(4.50()	450		(0.70()	OR=1.542 (CI: 0.336,
due to lack of efficacy – 126d	Dichotomous	74	6	(4.5%)	150	4	(2.7%)	7.077)
''' I' II	D' L		_	(0.00()	450		(0.70()	OR=0.500 (CI: 0.055,
unspecified/other reason – 126d	Dichotomous	74	5	(3.8%)	150	4	(2.7%)	4.554)
''' I' II	D' L	400	_	(0.00()	450		(0.70()	OR=0.500 (CI: 0.055,
unspecified/other reason – 126d	Dichotomous	133	5	(3.8%)	150	4	(2.7%)	4.554)
with drawal of same and 400 d	Dishatanana	7.4		(40.50()	450	40	(0.70()	OR=1.014 (CI: 0.334,
withdrawal of consent – 126d	Dichotomous	74	14	(10.5%)	150	10	(6.7%)	3.083)
with drawal of consent. 400 d	D'abatana au	400		(40.50()	450	40	(0.70()	OR=1.014 (CI: 0.334,
withdrawal of consent – 126d	Dichotomous	133	14	(10.5%)	150	10	(6.7%)	3.083)
mustaged devication 400d	Dishatamana	74		(0.00()	450	4	(0.70/)	OR=2.041 (CI: 0.126,
protocol deviation – 126d	Dichotomous	74	1	(0.8%)	150	1	(0.7%)	33.096)
manta and deviation 400 d	Dishatanana	400		(0.00()	450		(0.70()	OR=2.041 (CI: 0.126,
protocol deviation – 126d	Dichotomous	133	1	(0.8%)	150	1	(0.7%)	33.096)
4004	Dishatanana	7.4	_	(4.50/)	450		(0.70()	OR=2.041 (CI: 0.126,
poor compliance – 126d	Dichotomous	74	2	(1.5%)	150	1	(0.7%)	33.096)
400.4	Dishatanana	400	_	(4.50/)	450		(0.70()	OR=2.041 (CI: 0.126,
poor compliance – 126d	Dichotomous	133	2	(1.5%)	150	1	(0.7%)	33.096)

			LACOSAMIDE 600 MG/D			ACEI	во	
		N	k	mean	N	k	mean	Δ
adverse events:								
any adverse event – 126d	Dichotomous	133	86	(64.7%)	74	40	(54.1%)	
Fatigue – 126d	Dichotomous	133			74			OR=1.369 (CI: 0.463, 4.048)
headache – 126d	Dichotomous	133			74			OR=2.000 (CI: 0.405, 9.885) OR=4.576 (CI: 1.017,
Nausea – 126d	Dichotomous	133			74			20.597) OR=3.570 (CI: 0.777,
vertigo – 126d	Dichotomous	133			74			16.408) OR=8.834 (CI: 0.497,
Vomiting – 126d	Dichotomous	133			74			156.897)
ITT/LOCF (last-observation carried forward)								
pain score:							6.6 (SD	
NRS/NRS Pain – 0d	Continuous	133		6.4 (SD 1.4)	74		15)	

a least squares mean; outcome from baseline to entire treatment period (weeks 1 to 18)
b OR ≥2 point reduction in NRS; outcome from baseline to weeks 14 to 18
c OR ≥2 point reduction in NRS; numbers estimated from percentages so may not be absolutely accurate least squares mean; outcome from baseline to entire maintenance period (weeks 6 to 18)

NRS/NRS Pain – 126d	Mean difference from baseline to average f-u	132		-1.86	74		-1.5	MD=-0.360 (CI: -0.870, 0.150)
	Mean difference from baseline to	.02						3.133)
VAS – 63d <sup>a</sup>	average f-u	131		-18.8	74		-12.8	MD=-6.000
at least 30% pain reduction (NRS) -	Dichotomous from baseline to average f-	-						
126d <sup>b</sup>	u	132	66		74	26		OR=1.800 (CI: 5.162, 0.628)
at least 50% pain reduction (NRS) -								, ,
105d <sup>c</sup>	Dichotomous	132	39	(29.5%)	74	12	(16.2%)	OR=2.167 (CI: 1.052, 4.462)
at least 50% pain reduction (NRS) -				,			, ,	,
126d <sup>c</sup>	Dichotomous	132	35	(26.5%)	74	17	(23.0%)	
	Mean difference from baseline to							MD=-5.990 (CI: -11.184, -
McGill VAS – 63d	average f-u	132			74			0.796)
patient-reported global improvement:								OR=1.123 (CI: 0.100,
PGIC - much worse – 126d	Dichotomous	132	2	(1.5%)	74	1	(1.4%)	12.599)
PGIC - moderately worse – 126d	Dichotomous	132	1	(0.8%)	74	4	(5.4%)	OR=0.134 (CI: 0.015, 1.218) OR=1.700 (CI: 0.068,
PGIC - minimally worse - 126d	Dichotomous	132	1	(0.8%)	74	0	(0.0%)	42.250)
PGIC - no change – 126d	Dichotomous	132	16	` '	74	-	(21.6%)	OR=0.500 (CI: 0.234, 1.070)
PGIC - minimally better – 126d	Dichotomous	132	21	(15.9%)	74		(21.6%)	OR=0.686 (CI: 0.333, 1.414)
PGIC - moderately better – 126d	Dichotomous	132	19	(14.4%)	74		(16.2%)	OR=0.869 (CI: 0.396, 1.907)
PGIC - much better – 126d	Dichotomous	_		(12.9%)	74	6	(8.1%)	OR=1.675 (CI: 0.630, 4.454)
patient-reported improvement in				(1=10,10)		-	(-11,0)	
daily physical and emotional								
functioning, including sleep:	Mean difference from baseline to							MD=-0.640 (CI: -1.169, -
NRS Sleep – 84d <sup>d</sup>	average f-u	96		-2.29	63		-1.28	0.111)
major adverse events								•
(defined as leading to withdrawal):								
any major adverse event – 126d	Dichotomous	133	31	(23.3%)	74	4	(5.4%)	OR=0.188 (CI: 0.064, 0.556)
any major adverse event – 126d	Dichotomous	74	31	(23.3%)	133	4	(5.4%)	OR=0.188 (CI: 0.064, 0.556)
adverse events:								OR=9.112 (CI: 2.099,
Dizziness – 126d	Dichotomous	133	26	(19.5%)	77	2	(2.7%)	39.559) OR=9.112 (CI: 2.099,
Dizziness – 126d	Dichotomous	133	26	(19.5%)	74	2	(2.7%)	39.559)
Fatigue – 126d	Dichotomous	133	12		74	5	(6.8%)	33.333)
headache – 126d	Dichotomous	133	7	(5.3%)	74	2	(2.7%)	
Nausea – 126d	Dichotomous	133	15			2	(2.7%)	
vertigo – 126d	Dichotomous	133	12		74	2	(2.7%)	
Vomiting – 126d	Dichotomous		7	(5.3%)	74	0	(0.0%)	
treatment withdrawal:			-	(/	• •	-	(/	
due to lack of efficacy – 126d	Dichotomous	74	6	(4.5%)	133	3	(4.1%)	OR=0.894 (CI: 0.217, 3.685)
due to lack of efficacy - 126d	Dichotomous	133	6	(4.5%)	74		(4.1%)	OR=0.894 (CI: 0.217, 3.685)
unspecified/other reason – 126d	Dichotomous	74	5	(3.8%)	133		(1.4%)	OR=0.351 (CI: 0.040, 3.060)
unspecified/other reason – 126d	Dichotomous	133	5	(3.8%)	74	1	(1.4%)	OR=0.351 (CI: 0.040, 3.060)
withdrawal of consent – 126d	Dichotomous	74	14	(10.5%)	133	5	(6.8%)	OR=0.616 (CI: 0.213, 1.784)
withdrawal of consent – 126d	Dichotomous	133	14	(10.5%)	74	5	(6.8%)	OR=0.616 (CI: 0.213, 1.784)
				•			•	OR=1.808 (CI: 0.111,
protocol deviation – 126d	Dichotomous	74	1	(0.8%)	133	1	(1.4%)	29.337)
								OR=1.808 (CI: 0.111,
protocol deviation – 126d	Dichotomous	133	1	(0.8%)	74	1	(1.4%)	29.337)
								OR=0.897 (CI: 0.080,
poor compliance – 126d	Dichotomous	74	2	(1.5%)	133	1	(1.4%)	10.065)

				OR=0.897 (CI: 0.080,
poor compliance – 126d	Dichotomous	133 2 (1.5%)	74 1 (1.4%)	10.065)

		LACOSAMIDE 400 MG/D		PL/	CE	30		
		N	k	mean	N	k	mean	Δ
adverse events:								
any adverse event – 126d	Dichotomous	150	88	(58.7%)	74	40	(54.1%)	
Fatigue – 126d	Dichotomous	150			74			OR=1.533 (CI: 0.535, 4.394) OR=2.298 (CI: 0.484,
headache – 126d	Dichotomous	150			74			10.916)
Nausea – 126d	Dichotomous	150			74			OR=1.500 (CI: 0.295, 7.619) OR=2.298 (CI: 0.484,
vertigo – 126d	Dichotomous	150			74			10.916) OR=2.508 (CI: 0.119,
Vomiting – 126d	Dichotomous	150			74			52.918)
ITT/LOCF (last-observation carried forward)								
pain score:							6.6 (SD	
NRS/NRS Pain – 0d	Continuous  Mean difference from baseline to	150		6.4 (SD 1.3)	74		15)	MD=-0.400 (CI: -0.929,
NRS/NRS Pain – 126d	average f-u Mean difference from baseline to	149		-1.9	74		-1.5	0.129)
VAS – 63d <sup>a</sup>	average f-u	149		-18.1	74		-12.8	MD=-5.300
at least 30% pain reduction (NRS) –	Dichotomous from baseline to average f-	1 10		10.1			12.0	WB= 0.000
126d <sup>b</sup>	u	149	64		74	26		OR=1.400 (CI: 7.199, 0.272)
at least 50% pain reduction (NRS) -								,
105d <sup>c</sup> ' '	Dichotomous	149	42	(28.2%)	74	12	(16.2%)	OR=2.028 (CI: 0.993, 4.141)
at least 50% pain reduction (NRS) -				,			,	,
126d <sup>c</sup>	Dichotomous	149	43	(28.9%)	74	17	(23.0%)	
	Mean difference from baseline to							MD=-5.320 (CI: -10.396, -
McGill VAS – 63d	average f-u	149			74			0.244)
patient-reported global improvement:								
PGIC - much worse – 126d	Dichotomous	149	1	(0.7%)	74	1	(1.4%)	OR=0.493 (CI: 0.030, 7.998)
PGIC - moderately worse – 126d	Dichotomous	149	1	(0.7%)	74	4	(5.4%)	OR=0.118 (CI: 0.013, 1.078) OR=2.525 (CI: 0.120,
PGIC - minimally worse – 126d	Dichotomous	149	2	(1.3%)	74	0	(0.0%)	53.278)
PGIC - no change – 126d	Dichotomous	149	16	(10.7%)	74	16	(21.6%)	OR=0.436 (CI: 0.204, 0.931)
PGIC - minimally better – 126d	Dichotomous	149	36	(24.2%)	74	16	(21.6%)	OR=1.155 (CI: 0.592, 2.254)
PGIC - moderately better – 126d	Dichotomous	149	20	(13.4%)	74		(16.2%)	OR=0.801 (CI: 0.368, 1.742)
PGIC - much better – 126d	Dichotomous	149	20	(13.4%)	74	6	(8.1%)	OR=1.757 (CI: 0.674, 4.582)
patient-reported improvement in								
daily physical and emotional								
functioning, including sleep:	Mean difference from baseline to	100		4.00	0.0		4.00	MD=-1.000 (CI: -1.549, -
NRS Sleep – 84d <sup>d</sup>	average f-u	122		-1.92	63		-1.28	0.451)

a least squares mean; outcome from baseline to entire treatment period (weeks 1 to 18)
b OR ≥2 point reduction in NRS; outcome from baseline to weeks 14 to 18
c OR ≥2 point reduction in NRS; numbers estimated from percentages so may not be absolutely accurate least squares mean; outcome from baseline to entire maintenance period (weeks 6 to 18)

	major adverse events								
	(defined as leading to withdrawal):								
	any major adverse event – 126d	Dichotomous	150		` '	133		(5.4%)	OR=0.421 (CI: 0.221, 0.802)
	any major adverse event – 126d	Dichotomous	150	17	(11.3%)	74	4	(5.4%)	OR=0.421 (CI: 0.221, 0.802)
	adverse events:								OR=6.653 (CI: 1.421,
	Dizziness – 126d	Dichotomous	150	11	(7.3%)	74	2	(2.7%)	31.151)
									OR=6.653 (CI: 1.421,
	Dizziness – 126d	Dichotomous	73	11	(7.3%)	77	2	(2.7%)	31.151)
	Fatigue – 126d	Dichotomous	150	15	(10.0%)	74	5	(6.8%)	
	headache – 126d	Dichotomous	150	9	(6.0%)	74	2	(2.7%)	
	Nausea – 126d	Dichotomous	150	6	(4.0%)	74	2	(2.7%)	
	vertigo – 126d	Dichotomous	150	9	(6.0%)	74	2	(2.7%)	
	Vomiting – 126d	Dichotomous	150	2	(1.3%)	74	0	(0.0%)	
	treatment withdrawal:								
	due to lack of efficacy – 126d	Dichotomous	150	4	(2.7%)	74	3	(4.1%)	OR=0.580 (CI: 0.160, 2.101
	due to lack of efficacy – 126d	Dichotomous	150	4	(2.7%)	133	3	(4.1%)	OR=0.580 (CI: 0.160, 2.101
	unspecified/other reason – 126d	Dichotomous	150	4	(2.7%)	74	1	(1.4%)	OR=0.701 (CI: 0.184, 2.668
	unspecified/other reason – 126d	Dichotomous	150	4	(2.7%)	133	1	(1.4%)	OR=0.701 (CI: 0.184, 2.668
	withdrawal of consent – 126d	Dichotomous	150	10	(6.7%)	74	5	(6.8%)	OR=0.607 (CI: 0.260, 1.417
	withdrawal of consent – 126d	Dichotomous	150	10	(6.7%)	133	5	(6.8%)	OR=0.607 (CI: 0.260, 1.417
					,			,	OR=0.886 (CI: 0.055,
	protocol deviation – 126d	Dichotomous	150	1	(0.7%)	74	1	(1.4%)	14.304)
					,			,	OR=0.886 (CI: 0.055,
	protocol deviation – 126d	Dichotomous	150	1	(0.7%)	133	1	(1.4%)	14.304)
	poor compliance – 126d	Dichotomous	150	1	(0.7%)	74	1	(1.4%)	OR=0.440 (CI: 0.039, 4.904
	poor compliance – 126d	Dichotomous	150	1	(0.7%)	133	1	(1.4%)	OR=0.440 (CI: 0.039, 4.904
	7				(			(,	
	<sup>a</sup> least squares mean; outcome from ba		s 1 to 18)						
	b OR ≥2 point reduction in NRS; outcom								
	° OR ≥2 point reduction in NRS; numbe	rs estimated from percentages so may	not be absolute	y acc	curate				
	d least squares mean; outcome from ba	seline to entire maintenance period (w	eeks 6 to 18)						
Comments	proportion with 50% response report	ted at 15 and 18 weeks but only n	ercentages (no	nt de	nominatore)	and ups	hle	to calculat	te correctly: hottom of the
Comments									
	article (which is a 'brief report') state								
	marked 'advertisement'; ITT include								acy assessment (2 patients
	randomised - 1 in 400 mg/d and 1 ir	n 600 ma/d aroun - were not includ	tad in tha ITT r	Onli	lation) I OC	1 144000	orf,	armad	

## **Abbreviations**

Abbreviation	Term
AEDs	anti-epileptic drugs
ART	anti-retroviral therapy
avg.	average
BOCF	baseline observation carried forward (a form of ITT)
BPI	Brief Pain Inventory
BDI	Beck's Depression Inventory
CBD	cannabidiol
CBME	cannabis based medicine extract
CI	confidence interval
CNS	central nervous system
COPD	chronic obstructive pulmonary disease
CPSP	central post-stroke pain
DSM-IV	diagnostic and statistical manual of mental disorders
ECG	electrocardiogram
f-u	follow-up
GATE	global assessment of therapeutic effect
HADS	Hospital Anxiety and Depression Scale
HAMD	Hamilton Depression Rating Scale
HbA1c	glycated haemoglobin
HIV	human immunodeficiency virus
HIV DSP	human immunodeficiency virus distal sensory polyneuropathy
IQR	interquartile range
ITT	intention-to-treat
LOCF	last observation carried forward (a form of ITT)
LS	least squares
MAOI	monoamine oxidase inhibitor
MD	mean difference
MI	myocardial infarction
MOS	Medical Outcomes Study sleep scale
MPQ	McGill Pain Questionnaire
MS	multiple sclerosis
NCP	neuropathic cancer pain
NP	neuropathic pain
NRS	numerical rating scale
NPS/NPRS	numerical pain rating scale
NSAIDs	non-steroidal anti-inflammatory drugs

OR	odds ratio
OTC	over-the-counter
PDN	painful diabetic neuropathy
PGIC	patient reported global impression of change
PGI-I	patient reported global impression of improvement
PHN	post-herpetic neuralgia
PHQ-15	patient health questionnaire with 15 somatic symptoms
POMS	profile of mood states
PPI	present pain intensity
SCI	spinal cord injury
SD	standard deviation
SE	standard error
SF	short form
SNRI	serotonin–norepinephrine reuptake inhibitor
SSRI	selective serotonin reuptake inhibitor
TAD	tricyclic anti-depressants
ТВ	tuberculosis
TENS	transcutaneous electrical nerve stimulation
THC	delta-9-tetrahydrocannabinol
TIA	transient ischaemic attack
VAS	visual analogue scale
VASpr	visual analogue scale for pain relief
VASpi	visual analogue scale for pain intensity
VRS	verbal rating scale
VRSpr	verbal rating scale for pain relief
VRSpi	verbal rating scale for pain intensity