I.2 Pressure ulcer management

I.2.1 Ulcer measurement

No meta-analysis was undertaken and data were not suitable for input into Revman therefore no forest plots were generated.

I.2.2 Categorisation

Figure 154: Accuracy EPUAP Stirling Mean Difference Mean Difference Mean SD Total Mean SD Total Weight IV, Fixed, 95% CI IV, Fixed, 95% CI Study or Subgroup Russell and Reynolds 2001 0.15 0.21 86 0.045 0.21 85 100.0% 0.10 [0.04, 0.17] Total (95% CI) 86 85 100.0% 0.10 [0.04, 0.17] Heterogeneity: Not applicable -0.2 -0.1 Ó 0.2 0.1 Test for overall effect: Z = 3.27 (P = 0.001) Favours EPUAP Favours Stirling

Figure 155: Precision



I.2.3 Nutritional supplementation and hydration strategies

Figure 156: 500kcal, 34g protein, 6g arginine, 500mg vit C, 18mg zinc and standard hospital diet vs standard hospital diet – proportion with complete healing

	Supplement		SHE			Peto Odds Ratio	Peto Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI	
Cereda, 2009	1	13	0	15	100.0%	8.62 [0.17, 438.70]		
Total (95% CI)		13		15	100.0%	8.62 [0.17, 438.70]		
Total events	1		0					
Heterogeneity: Not app	plicable							100
Test for overall effect:	Z = 1.07 (F	9 = 0.28)				0.01 0.1 1 10 Favours SHD Favours s	100 upplemer

Figure 157: 500kcal, 34g protein, 6g arginine, 500mg vit C, 18mg zinc and standard hospital diet vs standard hospital diet –mean reduction in ulcer size cm2 (change scores)

uiet vs	Stanta	aru	loshi	tai ui		nean	reuuci	ion in uicer siz	e un	z (change	- 30	.01637	
	Sup	pleme	nt		SHD			Mean Difference		Mean I	Diffe	rence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, Fix	ed, 🤅	95% CI	
Cereda, 2009	14.5	8.03	13	8.41	5.59	15	100.0%	6.09 [0.89, 11.29]					
Total (95% CI)			13			15	100.0%	6.09 [0.89, 11.29]			•		
Heterogeneity: Not app Test for overall effect:		(P = 0	0.02)						-100	-50 Favours SHD	0) F	50 avours su	100 Ipplemen

Figure 158:500kcal, 34g protein, 6g arginine, 500mg vit C, 18mg zinc and standard hospital
diet vs standard hospital diet –mean reduction in PUSH scores (change scores)

	Sup	oleme	ent •	9	SHD			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Cereda, 2009	-6.1	2.7	13	-3.3	2.4	15	100.0%	-2.80 [-4.71, -0.89]	
Total (95% CI)			13			15	100.0%	-2.80 [-4.71, -0.89]	•
Heterogeneity: Not ap Test for overall effect:		(P = (0.004)						-100 -50 0 50 100 Favours SHD Favours supplement

Figure 159: 500kcal, 34g protein, 6g arginine, 500mg vit C, 18mg zinc and standard hospital diet vs standard hospital diet –all cause mortality

	Suppler	nent	SHE)		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% (CI Peto, Fixed, 95% CI
Cereda, 2009	2	15	0	15	100.0%	7.94 [0.47, 133.26	
Total (95% CI)		15		15	100.0%	7.94 [0.47, 133.26]	
Total events	2		0				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 1.44 (F	P = 0.15)			F	0.01 0.1 1 10 100 Favours supplement Favours SHD

Figure 160: 250kcal, 28.4g carbohydrates, 20g protein, 3g arginine, 7g fat, vitamins, minerals and standard hospital diet vs standard hospital diet and placebo – adverse events related to the product

	Supplement		SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95%	CI M-H, Fixed, 95% CI
Van Anholt, 2010	9	22	4	21	100.0%	2.15 [0.78, 5.92	2] +
Total (95% CI)		22		21	100.0%	2.15 [0.78, 5.92	
Total events	9		4				
Heterogeneity: Not app	plicable						
Test for overall effect:	Z = 1.48 (F	P = 0.14)			F	0.01 0.1 1 10 100 Favours supplement Favours SHD

Figure 161: 250kcal, 28.4g carbohydrates, 20g protein, 3g arginine, 7g fat, vitamins, minerals and standard hospital diet vs standard hospital diet and placebo – Incidence of diarrhoea

	Supplement		SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95%	CI M-H, Fixed, 95% CI
Van Anholt, 2010	6	22	2	21	100.0%	2.86 [0.65, 12.64	-]
Total (95% CI)		22		21	100.0%	2.86 [0.65, 12.64]	
Total events	6		2				
Heterogeneity: Not app	plicable						
Test for overall effect:	Z = 1.39 (F	P = 0.16)			F	Favours supplement Favours SHD

Figure 162: 250kcal, 28.4g carbohydrates, 20g protein, 3g arginine, 7g fat, vitamins, minerals and standard hospital diet vs standard hospital diet and placebo – Incidence of nausea

	Supplement		SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Van Anholt, 2010	1	22	1	21	100.0%	0.95 [0.06, 14.30]	
Total (95% CI)		22		21	100.0%	0.95 [0.06, 14.30]	
Total events	1		1				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.03 (F	P = 0.97)			Fa	vours supplement Favours SHD

Figure 163: 250kcal, 28.4g carbohydrates, 20g protein, 3g arginine, 7g fat, vitamins, minerals and standard hospital diet vs standard hospital diet and placebo – Incidence of vomiting

vomun	B						
	Supplement)		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Van Anholt, 2010	0	22	1	21	100.0%	0.13 [0.00, 6.51]	
Total (95% CI)		22		21	100.0%	0.13 [0.00, 6.51]	
Total events	0		1				
Heterogeneity: Not app	plicable						- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
Test for overall effect:	Z = 1.02 (F	P = 0.31)			•••	01 0.1 1 10 100 rs supplement Favours SHD

Figure 164: 500kcal, 18g protein, 0g fat, 72mg vitamin C, 7.5 mg zinc and standard hospital diet vs standard hospital diet – PUSH scores at week 3

	Supp	Supplement			SHD			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	I IV, Fixed, 95% CI
Desneves, 2005	6	1.2	5	7	1.5	6	100.0%	-1.00 [-2.60, 0.60]	
Total (95% CI)			5			6	100.0%	-1.00 [-2.60, 0.60]	
Heterogeneity: Not ap Test for overall effect:		(P = 0).22)						-100 -50 0 50 100 Favours SHD Favours supplement

Figure 165: 500kcal, 21g protein, 0g fat, 500mg vitamin C, 30mg zinc, 9g arginine and standard hospital diet vs standard hospital diet – PUSH scores at week 3

-	Sup	pleme	ent	9	SHD	•		Mean Difference		Me	an Differen	се	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	S CI	
Desneves, 2005	2.6	0.6	5	7	1.5	6	100.0%	-4.40 [-5.71, -3.09]					
Total (95% CI)			5			6	100.0%	-4.40 [-5.71, -3.09]			•		
Heterogeneity: Not ap Test for overall effect:		(P < 0	0.00001)					-100 Favou	-50 Irs lower pro	0 otein Favo	50 urs higher	100 protein

Figure 166: 500kcal, 21g protein, 0g fat, 500mg vitamin C, 30mg zinc, 9g arginine and standard hospital diet vs 500kcal, 18g protein, 0g fat, 72mg vitamin C, 7.5 mg zinc and standard hospital diet – PUSH scores at week 3

	Arginine, protein,					zinc		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	5% CI	
Desneves, 2005	2.6	0.6	5	6	1.2	5	100.0%	-3.40 [-4.58, -2.22]					
Total (95% CI)			5			5	100.0%	-3.40 [-4.58, -2.22]			+		
Heterogeneity: Not app Test for overall effect: 2		0.00001)						-100 Favou	-50 rs Argin	0 ine Fa	50 vours Pr	100 otein

Figure 167: per 100ml 4.38g protein, 2.23g fat, 15.62g carbohydrate, minerals and vitamins and standard hospital diet vs standard hospital diet – proportion with complete healing

	Supplement		SHE)		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl			
Ohura, 2011	7	21	4	29	100.0%	2.42 [0.81, 7.21]				
Total (95% CI)		21		29	100.0%	2.42 [0.81, 7.21]				
Total events	7		4							
Heterogeneity: Not app	licable									
Test for overall effect: 2	Z = 1.58 (F	P = 0.11)				0.01 0.1 1 10 100 Favours control Favours experimenta			

Figure 168: per 100ml 4.38g protein, 2.23g fat, 15.62g carbohydrate, minerals and vitamins and standard hospital diet vs standard hospital diet – mean reduction in ulcer size (cm²)

	undun		spitai	aict	• 5 5	currac		pital alet in	
	Supplement SHD						Mean Difference	Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Ohura, 2011	1.31	0.24	21	0.32	0.2	29	100.0%	0.99 [0.86, 1.12]	–
Total (95% CI)			21			29	100.0%	0.99 [0.86, 1.12]	
Heterogeneity: Not ap Test for overall effect:		2 (P <	-100 -50 0 50 100 Favours control Favours experimental						

Figure 169: per 100ml 4.38g protein, 2.23g fat, 15.62g carbohydrate, minerals and vitamins and standard hospital diet vs standard hospital diet – study-related adverse events

		•					
	Suppler	nent	SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Ohura, 2011	8	29	5	30	100.0%	1.66 [0.61, 4.47]	
Total (95% CI)		29		30	100.0%	1.66 [0.61, 4.47]	
Total events	8		5				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 0.99 (F	P = 0.32)			Fa	Favours experimental Favours control

Figure 170: Very high protein dietary formula vs high protein dietary formula – proportion with complete healing

			- O				
	Very high p	rotein	High pro	otein		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Chernoff 1990	4	6	0	6	100.0%	15.64 [1.57, 155.75]	
Total (95% CI)		6		6	100.0%	15.64 [1.57, 155.75]	
Total events	4		0				
Heterogeneity: Not app	olicable						
Test for overall effect: 2	Z = 2.35 (P = 0	0.02)					Favours high protein Favours very high protein

Figure 171: Very high protein dietary formula vs high protein dietary formula – mean surface reduction (%)

	Very hi	gh pro	tein	High	prote	ein	Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	IV, Random, 95% CI		IV, Rando	om, 95% Cl	
Chernoff 1990	42	0	6	73	0	6	Not estimable				
								-10 -	5 (0 5	5 10
							Fa	avours Very	high protein	Favours hig	Jh protein

Figure 172: 500mg ascorbic acid and standard hospital diet vs standard hospital diet and placebo – proportion with complete healing

p	- p p	•••••		· · · P			
	Suppler	nent	SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Taylor 1974	6	10	3	10	12.2%	2.00 [0.68, 5.85]	<u> </u>
ter Riet 1995	17	43	22	45	87.8%	0.81 [0.50, 1.30]	
Total (95% CI)		53		55	100.0%	0.95 [0.62, 1.47]	•
Total events	23		25				
Heterogeneity: Chi ² = 2	2.29, df = 1	(P = 0.	13); l ² = 5	56%			0.01 0.1 1 10 100
Test for overall effect:	Z = 0.21 (F	P = 0.83)				0.01 0.1 1 10 100 Favours placebo Favours Ascorbic acid

Figure 173: 500mg ascorbic acid and standard hospital diet vs standard hospital diet and placebo – time to complete healing

Study or Subgroup	log[] SI	E Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
ter Riet 1995	-0.2485 0.348	100.0%	0.78 [0.39, 1.54]	
Total (95% CI)		100.0%	0.78 [0.39, 1.54]	-
Heterogeneity: Not ap Test for overall effect:		3)	F	0.01 0.1 1 10 100 Favours Ascorbic acid Favours placebo

Figure 174: 500mg ascorbic acid and standard hospital diet vs standard hospital diet and placebo – mean% surface area reduction

	Supp	oleme	ent		SHD			Mean Difference		Mea	an Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95	% CI	
Taylor 1974	84	24	10	42.7	23.43	10	100.0%	41.30 [20.51, 62.09]					
Total (95% CI)			10			10	100.0%	41.30 [20.51, 62.09]					
Heterogeneity: Not ap Test for overall effect:		(P < 0	0.0001)						-100 Fav	-50 rours plac	0 ebo Fav	50 ours Asco	100 rbic acid

Figure 175: 500mg ascorbic acid and standard hospital diet vs standard hospital diet and placebo – all cause mortality

	Suppler	nent	SHE)		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Taylor 1974	1	10	1	10	17.0%	1.00 [0.07, 13.87]	+
ter Riet 1995	3	43	5	45	83.0%	0.63 [0.16, 2.47]	
Total (95% CI)		53		55	100.0%	0.69 [0.21, 2.32]	
Total events	4		6				
Heterogeneity: Chi2 =	0.09, df = 1	(P = 0.	.76); l ² = 0)%			
Test for overall effect:	Z = 0.60 (F	P = 0.55)			F	0.01 0.1 1 10 100 avours Ascorbic acid Favours placebo

Figure 176: Zinc sulphate 200mg vs placebo – proportion with complete healing

	Zinc su	fate	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Brewer, 1967	1	6	2	7	100.0%	0.58 [0.07, 4.95]	
Total (95% CI)		6		7	100.0%	0.58 [0.07, 4.95]	
Total events	1		2				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.49 (F	P = 0.62)				0.01 0.1 1 10 100 Favours placebo Favours Zinc

Figure 177: Zinc sulphate 200mg vs placebo – mean reduction in pressure ulcer volume (ml)

	Zinc	sulfa	te	PI	acebo	1		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Norris 1971	10.1	9	10	6	17.5	10	100.0%	4.10 [-8.10, 16.30]	
Total (95% CI)			10			10	100.0%	4.10 [-8.10, 16.30]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.51)						-10 -5 0 5 10 Favours placebo Favours Zinc

Figure 178: Concentrated, fortified, collagen protein hydrolysate vs placebo – mean reduction in PUSH scores

	11 300	105											
	Sup	pleme	ent	PI	acebo	•		Mean Difference		Mea	an Diffe	erence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed,	95% CI	
Lee, 2006	3.55	4.66	44	3.22	4.11	27	100.0%	0.33 [-1.74, 2.40]					
Total (95% CI)			44			27	100.0%	0.33 [-1.74, 2.40]			•		
Heterogeneity: Not ap Test for overall effect:		(P = 0	0.76)						-100 Favo	-50 urs plac	ebo F	50 avours sup	100 plement

Figure 179: Concentrated, fortified, collagen protein hydrolysate vs placebo – all cause mortality

mortan	· y						
	Suppler	nent	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Lee, 2006	1	56	1	33	100.0%	0.59 [0.04, 9.11]	
Total (95% CI)		56		33	100.0%	0.59 [0.04, 9.11]	
Total events	1		1				
Heterogeneity: Not app		0.71	\ \				0.01 0.1 1 10 100
Test for overall effect:	Z = 0.38 (F	r = 0.71)			F	avours supplement Favours placebo

Figure 180:	Ornithine alpha-ketoglutarate vs placebo – time to complete healing
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	Ornit	hine al	pha	PI	acebo			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Meaume, 2009	0.07	0.11	85	0.04	0.08	75	100.0%	0.03 [0.00, 0.06]	
Total (95% CI)			85			75	100.0%	0.03 [0.00, 0.06]	
Heterogeneity: Not ap Test for overall effect:		(P = 0.	05)						-100 -50 0 50 100 Favours placebo Favours ornithine alpha

Ornithine alpha-ketoglutarate vs placebo – mean% reduction in ulcer size Figure 181:

	Ornit	hine al	pha	Pla	aceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Meaume, 2009	59.5	71.4	85	54	69	75	100.0%	5.50 [-16.28, 27.28]	
Total (95% CI)			85			75	100.0%	5.50 [-16.28, 27.28]	-
Heterogeneity: Not ap Test for overall effect:		(P = 0.	62)						-100 -50 0 50 100 Favours placebo Favours ornithine alpha

Figure 182: Ornithine alpha-ketoglutarate vs placebo – mean surface area reduction (cm²)

-			-	-			•					-	-
	Ornith	ine al	pha	Pla	acebo	D		Mean Difference		Mea	n Differer	ice	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, I	Fixed, 95%	6 CI	
Meaume, 2009	2.3	4.2	85	1.7	1.7	75	100.0%	0.60 [-0.37, 1.57]					
Total (95% CI)			85			75	100.0%	0.60 [-0.37, 1.57]					
Heterogeneity: Not app									-100	-50		50	100
Test for overall effect:	Z = 1.21 ((P = 0.	23)							vours place	ebo Favo		

Figure 183: Ornithine alpha-ketoglutarate vs placebo - all cause mortality

	Ornithine	alpha	Place	bo		Risk Ratio		R	isk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		М-Н,	Fixed, 95	% CI	
Meaume, 2009	5	89	3	76	100.0%	1.42 [0.35, 5.76]		-			
Total (95% CI)		89		76	100.0%	1.42 [0.35, 5.76]		-		•	
Total events	5		3								
Heterogeneity: Not ap Test for overall effect:		- 0 62)				_	0.01	0.1	1	10	100
	2 = 0.10 (1 =	= 0.02)				Fav	vours o	rnithine alp	ha Favo	urs place	ebo

I.2.4 Pressure redistributing devices

1.2.4.1 Water mattress overlay vs low-tech mattress

Figure 184:

Proportion of people with pressure ulcers completely healed

	Water mattress overlay		Low-tech m	attress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Groen 1999	27	60	29	60	100.0%	0.93 [0.63, 1.37]	—
Total (95% CI)		60		60	100.0%	0.93 [0.63, 1.37]	•
Total events	27		29				
Heterogeneity: Not app Test for overall effect:							0.01 0.1 1 10 100 Favours low-tech Favours water

I.2.4.2 3-D microporous overlay vs gel overlay

Figure 185:	Proportio	oportion of people with pressure ulcers completely healed											
	3-D ove	rlay	Gel ove	erlay		Risk Ratio	Risk Ratio						
Study or Subgrou	p Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl						
Cassino, 2013	3	35	5	37	100.0%	0.63 [0.16, 2.46]							
Total (95% CI)		35		37	100.0%	0.63 [0.16, 2.46]							
Total events	3		5										
Heterogeneity: Not	applicable						0.01 0.1 1 10 100						
Test for overall effe	ct: Z = 0.66 (F	P = 0.51)				Favours gel overlay Favours 3-D overlay						

Figure 186: mortality (all-cause)

	3-D ove	erlay	Gel ove	erlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Cassino, 2013	3	35	7	37	100.0%	0.45 [0.13, 1.62]	
Total (95% CI)		35		37	100.0%	0.45 [0.13, 1.62]	
Total events Heterogeneity: Not ap	3 nlicable		7				
Test for overall effect:		P = 0.22)				0.01 0.1 1 10 100 Favours 3-D overlay Favours gel overlay

Figure 187: Suspension due to worsening of pressure ulcers

	3-D overlay			erlay		Risk Ratio		Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I	M-H, Fiz	xed, 95% (
Cassino, 2013	9	35	17	37	100.0%	0.56 [0.29, 1.09]			ł		
Total (95% CI)		35		37	100.0%	0.56 [0.29, 1.09]		-			
Total events	9		17								
Heterogeneity: Not ap Test for overall effect:		P = 0.09))				0.01 Favours	0.1 s 3-D overlay	1 / Favours	10 gel o	100 overlay

Figure 188: Suspension due to intolerance

	3-D ove	erlay	Gel ove	erlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Cassino, 2013	5	35	2	37	100.0%	2.64 [0.55, 12.75]	
Total (95% CI)		35		37	100.0%	2.64 [0.55, 12.75]	
Total events	5		2				
Heterogeneity: Not ap	plicable						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Test for overall effect:	Z = 1.21 (F	^D = 0.23	8)				Favours 3-D overlay Favours gel overlay

Figure 189: unchanged/worsened pressure ulcers

0		•		•			
	3-D ove	erlay	Gel ove	erlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Cassino, 2013	16	35	22	37	100.0%	0.77 [0.49, 1.20]	
Total (95% CI)		35		37	100.0%	0.77 [0.49, 1.20]	•
Total events	16		22				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 1.15 (F	P = 0.25	5)				Favours 3-D overlay Favours gel overlay

Figure 190: improved pressure ulcers

	3-D ove	rlay	Gel ove	erlay		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl			
Cassino, 2013	16	35	9	37	100.0%	1.88 [0.96, 3.68]				
Total (95% CI)		35		37	100.0%	1.88 [0.96, 3.68]	◆			
Total events	16		9							
Heterogeneity: Not ap Test for overall effect:		P = 0.07	.)				0.01 0.1 1 10 100 Favours gel overlay Favours 3-D overlay			

Figure 191: patient comfort (fair to excellent)

	3-D ove	rlay	Gel ove	erlay		Risk Ratio		Ris	k Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fi	xed, 95	% CI	
Cassino, 2013	27	35	19	37	100.0%	1.50 [1.05, 2.16]					
Total (95% CI)		35		37	100.0%	1.50 [1.05, 2.16]			•		
Total events	27		19								
Heterogeneity: Not ap	plicable						0.01	0.1	1	10	100
Test for overall effect:	Z = 2.20 (F	P = 0.03	5)					gel overla	y Favo	urs 3-D (

Figure 192: patient comfort (poor)

	3-D ove	erlay	Gel ove	erlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Cassino, 2013	8	35	18	37	100.0%	0.47 [0.23, 0.94]	
Total (95% CI)		35		37	100.0%	0.47 [0.23, 0.94]	•
Total events	8		18				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 2.14 (F	P = 0.03	5)				Favours 3-D overlay Favours gel overlay

I.2.4.3 Low-air-loss bed vs foam mattress overlay

Figure 193: Proportion of people with pressure ulcers completely healed

	Low-air-los	s bed	Foam mattress	overlay		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixe	ed, 95% (
Ferrell 1993	26	43	19	41	100.0%	1.30 [0.87, 1.96]				
Total (95% CI)		43		41	100.0%	1.30 [0.87, 1.96]		•	•	
Total events	26		19							
Heterogeneity: Not ap Test for overall effect:	•	0.20)					0.001 Favou	0.1 rs foam	1 10 Favours	1000 low-air-loss

Figure 194: Proportion of people with pressure ulcers completely healed

	Low air-los	s bed	Foam mattress	overlay		Risk Ratio		Ris	k Rat	io	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fi	ixed, 9	95% CI	
Mulder 1994	5	31	3	18	100.0%	0.97 [0.26, 3.58]				_	
Total (95% CI)		31		18	100.0%	0.97 [0.26, 3.58]			\blacklozenge	•	
Total events	5		3								
Heterogeneity: Not ap	plicable						0.01	0.1	-	10	100
Test for overall effect:	Z = 0.05 (P =	0.96)						avours foan	n Fa		v-air-loss

Figure 195: Proportion of people with pressure ulcers completely healed (meta-analysed)

	LAL b	ed	Foam mattress of	overlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Ferrell 1993	26	43	19	41	83.7%	1.30 [0.87, 1.96]	
Mulder 1994	5	31	3	18	16.3%	0.97 [0.26, 3.58]	
Total (95% CI)		74		59	100.0%	1.25 [0.84, 1.86]	•
Total events	31		22				
Heterogeneity: Chi ² =	0.19, df =	1 (P = 0	0.66); l ² = 0%				0.01 0.1 1 10 100
Test for overall effect:	Z = 1.10 (I	P = 0.2	7)				Favours foam Favours LAL

Figure 196: Pressure ulcers reduced by one grade or more including healed completely

	Low-air-los	s bed	Foam mattress	overlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Mulder 1994	10	31	5	18	100.0%	1.16 [0.47, 2.86]	
Total (95% CI)		31		18	100.0%	1.16 [0.47, 2.86]	•
Total events	10		5				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 0.32 (P =	0.75)					0.01 0.1 1 10 100 Favours foam Favours low-air-loss

Figure 197: Change in ulcer size of stage II ulcers (final values)

0					<u> </u>		•		
	Low-ai	r-loss	bed	Foam mat	tress ov	erlay		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Day 1993	7.3	2.4	25	5.3	2.1	23	100.0%	2.00 [0.73, 3.27]	—
Total (95% CI)			25			23	100.0%	2.00 [0.73, 3.27]	
Heterogeneity: Not ap Test for overall effect:		P = 0.0	02)					Fav	-100 -50 0 50 100 /ours foam mat. overlay Favours LAL bed

Figure 198: Change in ulcer size of stage III and IV ulcers (final values)

0		•				0		•		,				
	LA	Lbe	d	Foam mat	tress ove	erlay		Mean Difference		Mea	an Diffe	erence		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C		IV,	Fixed,	95% CI		
Day 1993	37.1	8.1	17	12.4	3.5	12	100.0%	24.70 [20.37, 29.03]]					
Total (95% CI)			17			12	100.0%	24.70 [20.37, 29.03]				•		
Heterogeneity: Not ap Test for overall effect:		8 (P	< 0.000	01)				F	-100 avours foa	-50 am mat. ove	0 erlay F	50 avours LAL	100 . bed	Н С

Figure 199: Mean comfort score

	Low-ai	r-loss	bed	Foam ma	ttress ove	erlay		Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95°	% CI	
Day 1993	4.1	1.3	20	3.7	1.3	19	100.0%	0.40 [-0.42, 1.22]					
Total (95% CI)			20			19	100.0%	0.40 [-0.42, 1.22]					
Heterogeneity: Not ap Test for overall effect:		P = 0.3	34)						-100 Fa	-50 vours foa	0 am Fav	50 50 ours low	100 /-air-loss

Figure 200: Mortality

	Low air-los	s-bed	Foam mattress	overlay		Risk Ratio		Ris	k Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	3	M-H, Fi	xed, 95%	CI	
Ferrell 1993	11	43	7	41	100.0%	1.50 [0.64, 3.49]					
Total (95% CI)		43		41	100.0%	1.50 [0.64, 3.49]					
Total events	11		7								
Heterogeneity: Not ap Test for overall effect:	•	0.35)				F	0.01 avours	0.1 low-air-loss	1 Favou	10 rs foa	100 m

I.2.4.4 Air-fluidised bed vs standard care

Figure 201: Proportion of people with 50% reduction in pressure ulcers total surface area

	Air-fluidise	d bed	Standard	care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Allman 1987	9	31	8	34	100.0%	1.23 [0.54, 2.80]	
Total (95% CI)		31		34	100.0%	1.23 [0.54, 2.80]	★
Total events	9		8				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 0.50 (P =	0.61)					Favours standard care Favours air-fluidised

Figure 202: Proportion of people with improvement in pressure ulcers

	Air-fluidise	d bed	Standard	care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Strauss 1991	19	22	9	13	100.0%	1.25 [0.84, 1.86]	
Total (95% CI)		22		13	100.0%	1.25 [0.84, 1.86]	•
Total events Heterogeneity: Not ap	19 nlicable		9				
Test for overall effect:		0.28)					0.01 0.1 1 10 100 Favours standard care Favours air-fluidised bed

Figure 203: Proportion of people with improvement in pressure ulcers

	Air-fluidise	d bed	Standard	l care		Risk Ratio		Ris	k Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	1	M-H, Fi	xed, 95%	S CI	
Allman 1987	22	31	16	34	100.0%	1.51 [0.99, 2.30]					
Total (95% CI)		31		34	100.0%	1.51 [0.99, 2.30]					
Total events	22		16								
Heterogeneity: Not ap Test for overall effect:		0.06)					0.01 Favours	0.1 standard care	1 Favou	10 rs air-flui	100 dised

Figure 204: Proportion of people with improvement in pressure ulcers

0				-				
	Air-fluidise	d bed	Standard	l care		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	N M-H, Fix	ed, 95% Cl
Allman 1987	22	31	16	34	57.4%	1.51 [0.99, 2.30]		
Strauss 1991	19	22	9	13	42.6%	1.25 [0.84, 1.86]		-
Total (95% CI)		53		47	100.0%	1.40 [1.04, 1.88]		•
Total events	41		25					
Heterogeneity: Chi ² =	, , ,	,,	l ² = 0%				0.01 0.1	1 10 100
Test for overall effect:	Z = 2.20 (P =	0.03)					Favours standard care	Favours air-fluidised

Figure 205: Reduction in pain

	Air-fluidise	d bed	Standard	care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Allman 1987	8	13	4	14	100.0%	2.15 [0.85, 5.48]	+-
Total (95% CI)		13		14	100.0%	2.15 [0.85, 5.48]	
Total events	8		4				
Heterogeneity: Not ap Test for overall effect:		0.11)					Image: Non-State State Image: Non-State State Image: Non-State State Image: Non-State Image: Non-State <th< td=""></th<>

Figure 206: Increase in pain

•	•						
	Favours air-flui	idised	Standard	care		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI
Allman 1987	0	13	3	14	100.0%	0.12 [0.01, 1.31]	
Total (95% CI)		13		14	100.0%	0.12 [0.01, 1.31]	
Total events	0		3				
Heterogeneity: Not app Test for overall effect:)					0.01 0.1 1 10 100 Favours air-fluidised Favours standard care

Figure 207: Time in hospital

	Air-fluidised bed Standard care				are		Mean Difference		Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, Fix	ed, 95%	CI	
Strauss 1991	11.5	8.8	47	21.5	547	50	100.0%	-10.00 [-161.64, 141.64]	•				
Total (95% CI)			47			50	100.0%	-10.00 [-161.64, 141.64]					
Heterogeneity: Not ap Test for overall effect:		P = 0.9	90)						-100 Favours ai	-50 r-fluidised bed	0 Favoi	50 Urs standard	100 care

Figure 208: Patient satisfaction

	Air-flu	idised	bed	Stan	dard ca	are		Mean Difference		Меа	n Differen	ce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, I	Fixed, 95%	S CI	
Munro 1989	57.5	6.1	8	48.6	12.3	10	100.0%	8.90 [0.18, 17.62]					
Total (95% CI)			8			10	100.0%	8.90 [0.18, 17.62]			•		
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.0)5)						-100 Favours	-50 standard c	0 are Favo	50 urs air-flui	100 dised

Figure 209: Increase in comfort

	Air-fluidise	d bed	Standard	l care		Risk Ratio	Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	1	M-H, Fix	ed, 95% Cl		
Allman 1987	8	13	3	14	100.0%	2.87 [0.96, 8.55]					
Total (95% CI)		13		14	100.0%	2.87 [0.96, 8.55]					
Total events	8		3								
Heterogeneity: Not ap Test for overall effect:		0.06)					0.01 Favours	0.1 standard care	1 Favours a	l 0 ir-fluid	100 dised

Figure 210: Reduction in comfort

	Air-fluidise	d bed	Standard	l care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Allman 1987	1	13	6	14	100.0%	0.18 [0.02, 1.30]	
Total (95% CI)		13		14	100.0%	0.18 [0.02, 1.30]	
Total events	1		6				
Heterogeneity: Not ap Test for overall effect:	•	0.09)					Image: Non-Structure Image: No

Figure 211: Mortality

-	-						
	Air-fluidise	d bed	Standard	care		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Allman 1987	8	31	7	34	25.3%	1.25 [0.51, 3.05]	
Strauss 1991	14	58	19	54	74.7%	0.69 [0.38, 1.23]	· -∎+
Total (95% CI)		89		88	100.0%	0.83 [0.51, 1.34]	•
Total events	22		26				
Heterogeneity: Chi ² =	1.24, df = 1 (P	= 0.27);	l ² = 19%				
Test for overall effect:	Z = 0.76 (P =	0.45)					0.010.1110100Favours air-fluidised bedFavours standard care

1.2.4.5 Alternating-pressure mattress vs alternating-pressure mattress

Figure 212: Proportion of people with pressure ulcers completely healed

	AP mattress 1			ess 2		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Devine 1995	10	16	5	14	100.0%	1.75 [0.79, 3.89]	
Total (95% CI)		16		14	100.0%	1.75 [0.79, 3.89]	
Total events	10		5				
Heterogeneity: Not ap Test for overall effect:		= 0.17)					0.01 0.1 1 10 100 Favours AP mattress2 Favours AP mattress1

Figure 213: Proportion of people with pressure ulcers completely healed

	AP mattr	AP mattress 1 AP mattress 2				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Russell 2000	65	71	65	70	100.0%	0.99 [0.90, 1.09]	—
Total (95% CI)		71		70	100.0%	0.99 [0.90, 1.09]	•
Total events	65		65				
Heterogeneity: Not ap Test for overall effect:	•	= 0.77)					Image: Non-State Image: Non-State<

Figure 214: Decrease in pressure ulcer size

	AP mattro	ess 1	AP mattr	ess 2		Risk Ratio	Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fix	ed, 95% Cl		
Devine 1995	4	16	6	14	100.0%	0.58 [0.21, 1.65]		<u> </u>		
Total (95% CI)		16		14	100.0%	0.58 [0.21, 1.65]				
Total events	4		6							
Heterogeneity: Not ap Test for overall effect:		= 0.31)					 0.1 P mattress 2	-	10 P matt	100 tress 1

Figure 215: Increase in pressure ulcer size

	AP mattre	ess 1	AP mattr	ess 2		Risk Ratio			Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H	, Fixed, 95	% CI	
Devine 1995	2	16	3	14	100.0%	0.58 [0.11, 3.00]					
Total (95% CI)		16		14	100.0%	0.58 [0.11, 3.00]					
Total events	2		3								
Heterogeneity: Not ap Test for overall effect:		= 0.52)					0.01 Favou	0.1 rs AP mattre	1 ss 1 Favo	10 urs AP mat	100 tress 2

Figure 216: Mortality

	AP mattr	ess 1	AP mattr	ess 2		Risk Ratio		Ris	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, F	ixed, 95%	6 CI	
Russell 2000	16	71	10	70	100.0%	1.58 [0.77, 3.23]			╡┻╾		
Total (95% CI)		71		70	100.0%	1.58 [0.77, 3.23]					
Total events	16		10								
Heterogeneity: Not ap Test for overall effect:	•	= 0.21)					0.01 Favou	0.1 rs AP mattress	1 1 1 Favou	10 Jrs AP mat	100 tress 2

Figure 217: Mortality

	AP mattre	ess 1	AP mattr	ess 2		Risk Ratio			Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M	l-H, Fixe	ed, 95% C	1	
Devine 1995	6	22	5	19	100.0%	1.04 [0.38, 2.86]						
Total (95% CI)		22		19	100.0%	1.04 [0.38, 2.86]						
Total events	6		5									
Heterogeneity: Not ap Test for overall effect:		= 0.95)					0.01 Favour	0.1 s AP mat	tress 1	l Favours	10 AP mat	100 tress 2

Figure 218: Mortality

	AP mattr	ess 1	AP mattr	ess 2		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Evans 2000	7	17	3	15	100.0%	2.06 [0.64, 6.57]	
Total (95% CI)		17		15	100.0%	2.06 [0.64, 6.57]	
Total events	7		3				
Heterogeneity: Not ap Test for overall effect:	•	= 0.22)					0.01 0.1 1 10 100 Favours AP mattress 1 Favours AP mattress 2

1.2.4.6 Alternating-pressure mattress overlay vs alternating-pressure mattress

Figure 219: Proportion of people with pressure ulcers completely healed

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	20	59	19	54	100.0%	0.96 [0.58, 1.60]	
Total (95% CI)		59		54	100.0%	0.96 [0.58, 1.60]	•
Total events	20		19				
Heterogeneity: Not app Test for overall effect:		P = 0.89	9)				Image: 100 minipageImage: 100 minipage0.010.1110100Favours AP mattressFavours AP overlay

Figure 220: Absolute change in surface area (cm2) – change values

	AP	overla	ay	AP m	nattre	SS		Mean Difference		Mea	n Differer	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI	
Nixon 2006	1	2.3	33	2	6.1	36	100.0%	-1.00 [-3.14, 1.14]					
Total (95% CI)			33			36	100.0%	-1.00 [-3.14, 1.14]			•		
Heterogeneity: Not ap Test for overall effect:		(P =	0.36)						-100 Favours	-50 AP mattr	0 ess Favo	50 ours AP ov	100 verlay

Figure 221: % change in surface area – change values

	AF	overla	у	AP	mattres	s		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C		IV, F	ixed, 95	% CI	
Nixon 2006	-35	605.5	33	34.4	108.6	36	100.0%	-69.40 [-279.01, 140.21]	←				
Total (95% CI)			33			36	100.0%	-69.40 [-279.01, 140.21]					
Heterogeneity: Not ap Test for overall effect:		(P = 0.	52)						-100 Favou	-50 rs AP mattre	0 ss Fav	50 ours AP ov	100 verlay

Figure 222: Pressure ulcer improvement

	AP mattress of	verlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Russell 2003	56	75	60	83	100.0%	1.03 [0.86, 1.25]	
Total (95% CI)		75		83	100.0%	1.03 [0.86, 1.25]	
Total events	56		60				
Heterogeneity: Not ap Test for overall effect:		4)					Image: Description Image:

Figure 223: Worsening of pressure ulcers

	AP mattress ov	erlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Russell 2003	16	75	22	83	100.0%	0.80 [0.46, 1.41]	
Total (95% CI)		75		83	100.0%	0.80 [0.46, 1.41]	•
Total events	16		22				
Heterogeneity: Not ap Test for overall effect:)					Image: 100 minipageImage: 100 minipage0.010.11100 minipage100 minipageFavours AP overlayFavours AP matter

Figure 224: Patient acceptability (requested changes for comfort or other device-related reasons)

	AP matt	ress	AP mattress of	overlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	230	989	186	982	100.0%	1.23 [1.03, 1.46]	
Total (95% CI)		989		982	100.0%	1.23 [1.03, 1.46]	•
Total events	230		186				
Heterogeneity: Not ap Test for overall effect:		P = 0.02)				0.01 0.1 1 10 100 Favours AP mattress Favours AP matt overlay

Figure 225: Proportion of patients with negative comments on mattress motion

•	•						
	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	328	929	285	891	100.0%	1.10 [0.97, 1.26]	—
Total (95% CI)		929		891	100.0%	1.10 [0.97, 1.26]	•
Total events	328		285				
Heterogeneity: Not ap Test for overall effect:	•	^D = 0.13	3)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 226: Proportion of patients with positive comments for mattress motion

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fix	ed, 95% Cl
Nixon 2006	272	929	263	891	100.0%	0.99 [0.86, 1.14]		
Total (95% CI)		929		891	100.0%	0.99 [0.86, 1.14]		•
Total events	272		263					
Heterogeneity: Not ap Test for overall effect:	•	^o = 0.91)				0.01 0.1 Favours AP mattress	1 10 100 Eavours AP overlay

Figure 227: Proportion of patients commenting negatively on getting into/out of bed

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	124	929	127	891	100.0%	0.94 [0.74, 1.18]	
Total (95% CI)		929		891	100.0%	0.94 [0.74, 1.18]	•
Total events	124		127				
Heterogeneity: Not ap Test for overall effect:		P = 0.58	3)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 228: Proportion of patients commenting negatively on movement in bed

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	290	929	260	891	100.0%	1.07 [0.93, 1.23]	••••••••••••••••••••••••••••••••••••••
Total (95% CI)		929		891	100.0%	1.07 [0.93, 1.23]	•
Total events	290		260				
Heterogeneity: Not app Test for overall effect: 2		P = 0.34	·)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 229: Proportion of patients commenting positively on movement in bed

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	25	929	27	891	100.0%	0.89 [0.52, 1.52]	
Total (95% CI)		929		891	100.0%	0.89 [0.52, 1.52]	•
Total events	25		27				
Heterogeneity: Not ap Test for overall effect:		P = 0.66	6)				Image: 1Image: 10.010.11110<

Figure 230: Proportion of patients commenting on temperature as hot/warm

•	AP matt	ress ·	AP ove	rlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	67	929	50	891	100.0%	1.29 [0.90, 1.83]	—
Total (95% CI)		929		891	100.0%	1.29 [0.90, 1.83]	•
Total events	67		50				
Heterogeneity: Not app	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.39 (F	P = 0.17)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 231: Proportion of patients commenting on sweaty/sticky temperature

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	32	929	23	891	100.0%	1.33 [0.79, 2.26]	
Total (95% CI)		929		891	100.0%	1.33 [0.79, 2.26]	•
Total events	32		23				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.07 (F	P = 0.28	3)				Favours AP overlay Favours AP mattress

Figure 232:Proportion of patients commenting on cold/cool temperature

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	11	929	11	891	100.0%	0.96 [0.42, 2.20]	
Total (95% CI)		929		891	100.0%	0.96 [0.42, 2.20]	•
Total events	11		11				
Heterogeneity: Not app Test for overall effect:		^D = 0.92	2)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 233: Proportion of mattresses not working/not working properly

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	16	929	18	891	100.0%	0.85 [0.44, 1.66]	
Total (95% CI)		929		891	100.0%	0.85 [0.44, 1.66]	•
Total events	16		18				
Heterogeneity: Not app Test for overall effect:		P = 0.64	+)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 234: Hard to tuck sheet under/sheets come off or gather/mattress cover slips

	AP ove	rlay	AP matt	ress		Risk Ratio		R	isk Rati	0	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, I	Fixed, 9	5% CI	
Nixon 2006	19	929	6	891	100.0%	3.04 [1.22, 7.57]					
Total (95% CI)		929		891	100.0%	3.04 [1.22, 7.57]					
Total events	19		6								
Heterogeneity: Not app Test for overall effect: 2		P = 0.02	2)				0.01 Favoi	0.1 Jrs AP over	1 lav Fav	10 /ours AP	100 mattress

Figure 235: Mattress/bed too high

AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
72	929	48	891	100.0%	1.44 [1.01, 2.05]	
	929		891	100.0%	1.44 [1.01, 2.05]	◆
. 72		48				
	P = 0.04	L)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress
	Events 72 72 licable	72 929 929 72 Viicable	Events Total Events 72 929 48 929 48 929 72 929 48	EventsTotalEventsTotal72929488919298918917248484848	Events Total Events Total Weight 72 929 48 891 100.0% 929 48 891 100.0% 929 48 891 100.0% 72 48 48 48 929 48 48 48	Events Total Events Total Weight M-H, Fixed, 95% CI 72 929 48 891 100.0% 1.44 [1.01, 2.05] 929 891 100.0% 1.44 [1.01, 2.05] 72 48 48

Figure 236:Mattress slippy

	AP ove	erlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	9	929	4	891	100.0%	2.16 [0.67, 6.98]	
Total (95% CI)		929		891	100.0%	2.16 [0.67, 6.98]	
Total events	9		4				
Heterogeneity: Not app	plicable						0.01 0.1 1 10 10
Test for overall effect:	Z = 1.28 (I	P = 0.20))				Favours AP overlay Favours AP mattree

Figure 237:Mattress too soft/edges soft or slope

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	19	929	29	891	100.0%	0.63 [0.35, 1.11]	
Total (95% CI)		929		891	100.0%	0.63 [0.35, 1.11]	•
Total events	19		29				
Heterogeneity: Not app Test for overall effect:		P = 0.11)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 238: Not able to use backrest

	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Nixon 2006	4	929	2	891	100.0%	1.92 [0.35, 10.45]	
Total (95% CI)		929		891	100.0%	1.92 [0.35, 10.45]	
Total events	4		2				
Heterogeneity: Not ap Test for overall effect:	•	^D = 0.45	5)				Image: Non-Structure Image: No

Figure 239: Mattress-related fall

	AP ove	rlay	AP matt	ress		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Nixon 2006	0	828	4	891	100.0%	0.14 [0.02, 1.03]	
Total (95% CI)		828		891	100.0%	0.14 [0.02, 1.03]	
Total events	0		4				
Heterogeneity: Not ap Test for overall effect:		P = 0.05	5)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 240: Mattress-related suspected contact dermatitis

	AP ove	rlay	AP matt	ress		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Nixon 2006	0	929	1	891	100.0%	0.13 [0.00, 6.54]	
Total (95% CI)		929		891	100.0%	0.13 [0.00, 6.54]	
Total events	0		1				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.02 (F	^o = 0.31)				Favours AP overlay Favours AP mattress

Figure 241: Mattress-related climbed over/fell through cot sides

0						0	
	AP ove	rlay	AP matt	ress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Nixon 2006	2	929	1	891	100.0%	1.92 [0.17, 21.12]	
Total (95% CI)		929		891	100.0%	1.92 [0.17, 21.12]	
Total events	2		1				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.53 (F	P = 0.59	9)				Favours AP overlay Favours AP mattress

Figure 242: Mattress deflation during transfer

-	AP ove	rlay	AP matt	ress		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI
Nixon 2006	0	929	1	891	100.0%	0.13 [0.00, 6.54]	←
Total (95% CI)		929		891	100.0%	0.13 [0.00, 6.54]	
Total events	0		1				
Heterogeneity: Not ap Test for overall effect:		P = 0.31)				0.01 0.1 1 10 100 Favours AP overlay Favours AP mattress

Figure 243: Mortality

	AP matt	ress	AP mattress of	overlay		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fixed, 95% CI
Nixon 2006	20	59	12	54	100.0%	1.53 [0.83, 2.82]	
Total (95% CI)		59		54	100.0%	1.53 [0.83, 2.82]	•
Total events	20		12				
Heterogeneity: Not ap Test for overall effect:		9 = 0.18)					0.01 0.1 1 10 100 Favours AP mattress Favours AP matt overlay

1.2.4.7 Alternating-pressure mattress vs air-filled devices

Figure 244: Proportion of people with pressure ulcers completely healed

	Small/large ce	Air-filled o	device		Risk Ratio		Ris	sk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C		M-H, F	ixed, 95% C		
Osterbrink 2005	7	34	1	26	100.0%	5.35 [0.70, 40.84]					
Total (95% CI)		34		26	100.0%	5.35 [0.70, 40.84]					
Total events	7		1								
Heterogeneity: Not ap Test for overall effect:		1)					0.01 Favours	0.1 s air-filled devic	1 e Favours	10 small/lai	100 rge cell

1.2.4.8 Alternating-pressure cushion vs dry flotation cushion

Figure 245: Proportion of people with pressure ulcers completely healed

	AP cus	hion	Dry flotation c	ushion		Risk Ratio		Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	l	М-Н,	Fixed, 9	5% CI			
Clark 1998	3	14	5	11	100.0%	0.47 [0.14, 1.56]							
Total (95% CI)		14		11	100.0%	0.47 [0.14, 1.56]							
Total events	3		5										
Heterogeneity: Not ap Test for overall effect:		P = 0.22)				↓ 0.01 Favou	0.1 rs dry flota	1 tion Fav	10 vours AP o	100 cushion		

Figure 246: Rate of healing cm2/day

	AP	cushi	on	Dry flotation cushion			Mean Difference			Mean Difference			
Study or Subgroup	<u>v</u> 1				SD	Total	Weight	IV, Fixed, 95% 0		IV, Fixed, 95%			
Clark 1998	0.13	0.37	14	0.27	0.56	11	100.0%	-0.14 [-0.52, 0.24]				
Total (95% CI)			14			11	100.0%	-0.14 [-0.52, 0.24]	l				
Heterogeneity: Not ap Test for overall effect:	•	! (P = 0).47)						-100 Favours d	-50 dry flot. cus	0 hion Favo	50 burs AP cus	100 hion

Figure 247: Rate of healing cm3/day

	AP	cushi	on	Dry flotation cushion			Mean Difference			Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% 0		IV,	Fixed, 95%	6 CI		
Clark 1998	0.56	0.86	14	0.49	0.86	11	100.0%	0.07 [-0.61, 0.75]					
Total (95% CI)			14			11	100.0%	0.07 [-0.61, 0.75]						
Heterogeneity: Not ap Test for overall effect:	•	(P = 0).84)						-100 Favours o	-50 dry flot. cus	0 shion Favo	50 burs AP cus	100 shion	

Figure 248: % change in surface area per day

	AP	cushi	on	Dry flot	ation cus	shion		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	CI IV, Fixed, 95% CI
Clark 1998	2.56	7.86	14	5.71	5.57	11	100.0%	-3.15 [-8.42, 2.12]	
Total (95% CI)			14			11	100.0%	-3.15 [-8.42, 2.12]	↓
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.24)						-100 -50 0 50 100 Favours dry flot. cushion Favours AP cushion

Figure 249: % change in volume per day

	AP	cushi	on	Dry flot	ation cus	hion		Mean Difference	Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% 0	CI IV, Fixed, 95% CI					
Clark 1998	1	1.83	14	0.68	0.86	11	100.0%	0.32 [-0.76, 1.40]] 📕					
Total (95% CI)			14			11	100.0%	0.32 [-0.76, 1.40]	1					
Heterogeneity: Not ap Test for overall effect:		8 (P = 0	0.56)						-100 -50 0 50 100 Favours dry flot. cushion Favours AP cushion					

Figure 250: Mortality

	AP cus	hion	Dry flotation of	cushion		Risk Ratio		Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I	M-H, Fi	xed, 95	% CI			
Clark 1998	3	14	1	11	100.0%	2.36 [0.28, 19.66]					_		
Total (95% CI)		14		11	100.0%	2.36 [0.28, 19.66]					-		
Total events	3		1										
Heterogeneity: Not ap Test for overall effect:		P = 0.43)				0.01 Favour	0.1 rs AP cushio	1 1 n Favo	10 10 purs dry	100 flotation		

I.2.4.9 Profiling bed vs foam mattress

Figure 251: Proportion of people with healed grade 1 pressure ulcers

	Profiling bed Fo			tress		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Keogh 2001	4	4	2	10	100.0%	3.96 [1.28, 12.24]	
Total (95% CI)		4		10	100.0%	3.96 [1.28, 12.24]	
Total events	4		2				
Heterogeneity: Not app Test for overall effect:		9 = 0.02)					Image: Heat of the second se

I.2.4.10 Constant force mattress vs LAL mattress

Figure 252:	mean %	mean % rate of closure per week (%/week)											
	Constant for	orce mat	tress	LAL	nattre	ess		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% CI				
Branom 2001	9	4.8	10	5	3.7	8	100.0%	4.00 [0.07, 7.93]	–				
Total (95% CI)			10			8	100.0%	4.00 [0.07, 7.93]	◆				
Heterogeneity: Not ap Test for overall effect:		0.05)							-100 -50 0 50 100 Favours LAL mattress Favours constant force				

I.2.4.11 Wheelchair cushion with individualised cyclic pressure-relief protocol vs standard wheelchair cushion

Figure 253: Pressure ulcer closure (cm2)

0									
	Pressure-	relief cus	hion	Standard cushion				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	IV, Fixed, 95% CI
Makhous, 2009	78.5	74.4	22	12.49	52	22	100.0%	66.01 [28.08, 103.94]	
Total (95% CI) Heterogeneity: Not app Test for overall effect:		0.0006)	22			22	100.0%	66.01 [28.08, 103.94]	-100 -50 0 50 100 Favours standard Favours cyclic

Figure 254: Pressure ulcer closure rate (cm2/day)

	Pressure-	relief cus	hion	Standa	ard cusl	nion	Mean Difference			Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	1	IV, Fix	ced, 95	% CI	
Makhous, 2009	2.17	1.46	22	0.23	2.04	22	100.0%	1.94 [0.89, 2.99]					
Total (95% CI) Heterogeneity: Not app Test for overall effect: 2		0.0002)	22			22	100.0%	1.94 [0.89, 2.99]	-100	-50	0	50	100
Test for overall effect. 2	2 = 3.03 (F =	0.0003)							Favou	irs standar	d Fav	ours cy	clic

Figure 255: PUSH score improvement

	Pressure-r	Standard cushion				Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Makhous, 2009	2.5	2.3	22	0.7	1.1	22	100.0%	1.80 [0.73, 2.87]	
Total (95% CI)			22			22	100.0%	1.80 [0.73, 2.87]	
Heterogeneity: Not ap Test for overall effect:		0.0009)							-100 -50 0 50 100 Favours standard Favours cyclic

Figure 256: % surface area reduction

Pressure-reli			hion	Standard cushion				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Makhous, 2009	45	21	22	10.2	34.9	22	100.0%	34.80 [17.78, 51.82]	
Total (95% CI)			22			22	100.0%	34.80 [17.78, 51.82]	•
Heterogeneity: Not ap Test for overall effect:		0.0001)							-100 -50 0 50 100 Favours standard Favours cyclic

Figure 257: % PUSH score improvement

	Pressure-	re-relief cushion Sta			Standard cushion			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% CI		
Makhous, 2009	21.9	24.6	22	5.8	9.2	22	100.0%	16.10 [5.13, 27.07]	- Here		
Total (95% CI)			22			22	100.0%	16.10 [5.13, 27.07]	◆		
Heterogeneity: Not ap Test for overall effect:	•	0.004)							-100 -50 0 50 100 Favours standard Favours cyclic		

I.2.5 Adjunctive therapies

I.2.5.1 Electrotherapy versus placebo or no stimulation

Figure 258: Electrotherapy vs control - Proportion of participants completely healed – end of study

study							
	Electrothe	erapy	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.1.1 patients							
Adunisky, 2005	9	35	10	28	46.4%	0.72 [0.34, 1.53]	
Asbjorn sen , 1990	0	7	2	9	9.3%	0.25 [0.01,4.50]	
Franek, 2011	8	29	4	29	16.7%	2.00 [0.68,5.91]	+
Griffin, 1991	3	8	2	9	7.9%	1.69 [0.37,7.67]	
Houghton, 2010	6	16	5	18	19.7%	1.35 [0.51,3.59]	- <u>t</u>
Subtotal (95% CI)		95		93	100.0%	1.09 [0.68, 1.75]	•
Total events	28		22				
Heterogeneity: Chr = :	188, df = 4 ((P = 0.43	C P=01				
Test for overall effect:	Z= 0.30 (P	0.72)	-				
	*						

0.01 0.1 i iù 100' Favous control Favous electrothemp

Figure 259: Electrotherapy vs control - Proportion of ulcers completely healed – end of study

	Electrotherapy Co			o		Risk Ratio		Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	MH, Fixed, 95% C	1	M-H, Fix	(ed, 95% Cl		
1.2.2 Ulcers											
Wood, 1993	25	43	1	31	100.0%	18.02 [2.58, 126.01]					
Subtotal (95% CI)		43		31	100.0%	18.02 [2.58, 126.01]					
Total events	25		1								
Heterogeneity. Not a	plicable										
Test for overall effect:	^	= 0.004)									
							0.01	0.1	1 10 100		

Favours control Favours electrolherap

11gui C 200. I		i apy v	5 CON	01 - 2	0070 uc	cicase in alcer	arca
	Electrothe	erapy	Contr	ol		Risk Ratio	RiskRatio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Wood, 1993	31	43	4	31	100.0%	5.59 [2.20, 14.21]	
Total (95% CI)		43		31	100.0%	5.59 (2.20, 14.21)	-
Total events	31		4				
Heterogeneity: Not a	pplicable						
Test for overall effect	tz=3.81 (P	=0.0003	þ				Favours control Favours electrotherap

Figure 260: Electrotherapy vs control - >80% decrease in ulcer area

Figure 261: Electrotherapy vs control - % ulcers reduced by at least 50% at 3 months

	Bectrothe	erapy	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Houghton, 2010	12	15	5	14	100.0%	2.24 [1.06, 4.73]	
Total (95% CI)		15		14	100.0%	2,24 [1.06, 4.73]	
Total events	12		Ċ?î				
Heterogeneity: Not app	licable						
Teetior overall effect :	Z=2.12(P:	= 0.03)					Favoura control Favoura electrotherap

Figure 262: Electrotherapy vs control - Proportion with improved PWAT scores

-	Electrothe	erapy	Contr	ol		Risk Ratio	RiskRatio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Houghton, 2010	12	16	8	18	100.0%	1.69 (D.94, 3.04)	
Total (95% CI)		16		18	100.0%	1.69 [0.94, 3.04]	-
Total events	12		8				
Heterogeneity: Not app							
Test for everall effect.	Z=1.74(P:	=0.03)					Favours control Favours electrotherap

Figure 263: Electrotherapy vs control - Proportion with improved PSST scores

	Bectrothe	агару	Contr	ol	Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Houghton, 2010	8	16	9	18	100.0%	1.00 [0.51, 1.96]	
Total (95% CI)		16		18	100.0%	1.00 [0.51, 1.96]	
Total events	8		9				
Heterogeneity: Not app	viicable						
Testfor overall effect	Z=0,00 (P	= 1.00)					Favours control Favours electrotheras

Figure 264: Electrotherapy vs control - proportion of patients with decreased ulcers

	Electrothe	erapy	Contr	ol		Peto Odds Ratio		Peto Oc	lds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl		Peto, Fix	ed, 95% Cl	
Asbjornsen, 1990	3	7	0	9	100.0%	13.98 [1.21, 162.00]			 	
Total (95% CI)		7		9	100.0%	13.98 [1.21, 162.00]				
Total events	3		0							
Heterogeneity: Not app Test for overall effect:		= 0.03)					0.01 Fav	0.1 ours control	1 10 Favours el	

Figure 265:Electrotherapy vs control - proportion of people with increased pressure ulcers

	Electrothe	lectrotherapy Co				Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H, Rand	lom, 95% Cl
Asbjornsen, 1990	3	7	0	9	50.1%	8.75 [0.52, 145.86]	_	
Houghton, 2010	0	16	4	18	49,9%	0.12 [D.D.1, 2.14]	•	<u> </u>
Total (95% CI)		23		27	100.0%	1.05 [0.02, 68.36]		
Total e vents	3		4					
Helerogeneity: Tau ^e = 1			= 1 (P = (0.04); P	"n 77%			10 100
Test for overall effort: 2	Z = 0.02 (P =	0.28)				l.	vours electrotherapy	Favours control

Figure 266: Electrotherapy vs control - proportion of people with increased pressure ulcers - geriatric patients, pressure ulcer grade not reported

•	•				•		
			Conti	ol		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	Peto, Fixed, 95% Cl
Asbjornsen, 1990	3	7	0	9	100.0%	13.98 [1.21, 162.00]	
Total (95% CI)		7		9	100.0%	13.98 [1.21, 162.00]	
Total events	3		0				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 2.11 (P	= 0.03)				F	avours electrotherapy Favours control

Figure 267: Electrotherapy vs control - proportion of people with increased pressure ulcers – community patients with spinal cord injuries, pressure ulcers grade 2 to 4 (NPUAP)

Electrotherapy Control Peto Odds Ratio Peto Odds Ratio

	LICOLIOLIN	Jupy	00110	.			
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI
Houghton, 2010	0	16	4	18	100.0%	0.13 [0.02, 0.98]	
Total (95% CI)		16		18	100.0%	0.13 [0.02, 0.98]	
Total events	0		4				
Heterogeneity: Not app Test for overall effect:		= 0.05)				Fav	0.01 0.1 1 10 100 vours electrotherapy Favours control

Figure 268: Electrotherapy vs control - Proportion of ulcers which increased in size, pressure ulcers grade 2 to 3 (classification system not reported)

	0	•				• •	
	Electroth	erapy	Contr	ol		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI
Wood, 1993	0	43	10	31	100.0%	0.07 [0.02, 0.25]	
Total (95% CI)		43		31	100.0%	0.07 [0.02, 0.25]	
Total events	0		10				
Heterogeneity: Not a	oplicable						0.01 0.1 1 10 100
Test for overall effect	: Z = 3.98 (P	< 0.0001)			Fa	vours electrotherapy Favours control

				•••		-, (
	Electrothe	агару	Contr	ol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fixed, 95% CI	
Asbjorn sen , 1990	1	7	0	9	6.7%	3.75 [0.18,80.19]		
Franek, 2011	0	29	0	29		Not estimable		
Franek, 2012	0	26	1	24	23.5%	0.31 [0.01,7.23]		
Griffin, 1991	0	8	0	9		Not estimable		
Kloth, 1988	0	9	0	7		Not estimable		
Wood, 1993	2	41	4	30	\$\$.69	0.37 [0.07, 1.87]		
Total (95% CI)		120		108	100.0%	0.58 [0.18, 1.88]		
Total events	3							
Heterogeneity: ChP = 1	120. d= 2 (P 10 A.M	k (*** \$%	•				2 1940
fest for overall effect:						#3.a	Ast si i m	192
						8788 8788	news deletikertpy Favous cont	提出》中国 1

Figure 269: Electrotherapy vs control - mortality (all-cause)

Figure 270: Electrotherapy vs control - % mean reduction in wound surface area (participants)

0			• •									•	
	Electrotherapy Control					Mean Difference		Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C		IV,	Fixed, 95	5% CI	
1.11.1 patients													
Franek, 2012	88.9	14	26	44.4	63.1	24	58.6%	44.50 [18.69, 70.31]				-	
Houghton, 2010	70	25	16	36	61	18	41.4%	34.00 [3.27, 64.73]					
Subtotal (95% CI)			42			42	100.0%	40.16 [20.39, 59.92]				-	
Heterogeneity: Chi² =	026,df=	1 (P =	0.61);	l² = 0%									
Test for overall effect:	Z= 3.98	(P < 0	.0001)										
									-100	-50	-		100
									F (2)	~3U			U and the second seco

Fancura control Fancura electrotherapy

Figure 271: Electrotherapy vs control - % mean reduction in wound surface area (ulcers)

-	Electr	Electrotherapy Control						Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	\$ D	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
1.14.2 ulcers									
Gentzkow, 1991 Subtotal (95% CI)	49.8	30.9	21 21	23.4	47.4			26.40 [1.32, 51.48] 26.40 [1.32, 51.48]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z= 208	() ^o = 0,	04)						
		~							
									-100 -60 0 60 100
									Favours control Favours decerotherap

Figure 272: Electrotherapy vs control - Healing rate (%/week) (participants)

	Electr	Electrotherapy Control				Mean Difference Mean D							
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	l	IV, Fixe	d, 95% C	1	
1.1.5.1 Patients													
kloth, 1988	44.8	22.8	9	-11.69	18,6		100.0%	56.39 [96.19, 76.59]					۶
9.4460bal (95% CI)			3			in the second second	100.0%	5639 [36:19, 76:58]					۶
Heterogeneity: Not app	pilozible										1		
Test for overall effect:	Z= 8,47	(P < D)	00001)	1									
											Į		
									-10		ń	à	10
									44 MIC.	Favours control	Freedorg	electrol	100 1000

	Electr	other	ару	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Baker, 1996	29.7	5.1	58	32.7	7	25	9999%	-3.00 [-6.04, 0.04]	
Gentzkow, 1991	12.5	167	21	5.8	167	19	0.1 %	6.70 [96.94, 110.34]	T
Total (95% CI)			79			44	100.0%	-2.99 [-6.03, 0.05]	•
Heterogeneity: Chi*=	:003,df=	1 (P =	0.85);	lª = 0 %.					-100 -50 0 50 100
Test for overall effect	::Z= 1.93	(P = 0	95)						Favours control Favours electrotherapy

Figure 273: Electrotherapy vs control - Healing rate (%/week) (ulcers)

Figure 274: Electrotherapy vs control - Healing rate (%/day) (participants)

	Electrotherapy			C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Karba, 1995	7.13	1.46	6	-0.66	1.16	6	100.0%	7.79 [6.30, 9.28]	
Total (95% CI)			6			6	100.0%	7.79 [6.30, 9.28]	ł
Heterogeneity: Not ap Test for overall effect:	*	3(P<(0.00001	0					-100 -50 0 50 100 Favours control Favours electrotherapy

Figure 275: Electrotherapy vs control - Healing rate (%/day) (linear fitting)

-	Bectr	Co	ontro	1	-	Mean Difference	Mean Difference		
Study or Subgroup	Mean SD Total Mean S				SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Jercinovic, 1994	22	2.1	61	1.5	1.7	48	100.0%	0.70 [-0.01, 1.41]	
Total (95% CI)			61			48	100.0%	0.70 [-0.01, 1.41]	•
Heterogeneity: Not ap Test for overall effect:	<i>a</i> c	(P = 0,	05)						10 -5 0 5 10 Favours control Favours electrotherapy

Figure 276: Electrotherapy vs control - Healing rate (%/day) (exponential fitting)

V	• •												
	Bectrotherapy			Co	ontro	1		Mean Difference	Mean Difference				
Study or Subgroup	Mean				SD	Total	Weight	IV, Fixed, 95% CI	I IV, Fixed, 95% CI				
Jercinovic, 1994	5.7	7.1	61	2.7	3.6	48	100.0%	3.00 [0.95, 5.05]					
Total (95% CI)			61			48	100.0%	3.00 (0.95, 5.05)	•				
Heleroganety: Not sp Testfor overall effect:	s	P=0.	00¶)						100 do do 100 Favours control Farcers electrolherapy				

Figure 277: Electrotherapy vs control - Healing rate (%/day) (exponential fitting) – crossover

group									
	Bectro	other:	εрγ	Co	ntro	1		Mean Difference	Mean Diffierence
Study or Subgroup	Mean	vlean SD Total			SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Jercinovic, 1994	5	42	20	1.2	2.1	20	100.0%	3.80 [1.74, 5.86]	
Total (95% CI)			20			20	100.0%	3.80 [1.74, 5.86]	+
Helerogeneily: Not app Testfor overall effect:2		Peĝ	,5305)						-100 -do d do 100 Farsus assisted Farsours destrotherapy

Figure 278:	Electrot	herap	oy vs	s cont	rol	- Hea	iling ra	te (%/day) (lir	near fitting) – crossover group
	Bectre	otherap)y	Co	ntro	1		Mean Difference	Mean Difference
Study or Subgroup) Mean	SD T	Total	Mean SD Total			Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Jercinovic, 1994	2.4	1.4	20	0.6	15	20	100.0%	1.80 [0.90, 2.70]	
Total (95% CI) Heterogeneity: Not : Test for overall effe	6 A	P < 0.00	20 001)			20	100.0%	1.80 [0.90, 2.70]	-100 -50 0 50 100 Favours control Favours electrotherapy

Floct rath ol Hoolir ul) (vch/%) at fitting) 770

Figure 279: Electrotherapy vs control - Time to complete healing

-	ру	C	ontro			Mean Difference	Mean Difference		
Study or Subgroup	Mean				Mean SD Total			IV, Fixed, 95%	CI IV, Fixed, 95% CI
Adunsky, 2005	63.4	15.1	9	89.7	9.2	10	100.0%	-26.30 [-37.69, -14.91	1 📲
Total (95% CI)			9			10	100.0%	-26.30 [-37.69, -14.91]	•
Heterogeneity: Not ap Test for overall effect:		(P < 0.	00001)	•					-100 -50 0 50 100 Favours electrotherapy Favours control

Figure 280: Electrotherapy vs control - speed of healing (% change from baseline – days)

•	Bectrotherapy			C	ontrol	•		Mean Difference	Mean Difference				
Study or Subgroup	Mean SD Tota			Mean	SD	Tota	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% CI				
Adunsky, 2005	-0.24	0.14	35	-0.25	0.14	28	100.0%	0.01 (0.06, 0.08)					
Total (95% CI)			35			28	100.0%	0.01 [-0.06, 0.08]					
Heterogeneity: Not app Test for overall effect :	•	(P=0,	78)						-100 -50 0 50 100 Favous control Favous decisionarap				

Figure 281: Electrotherapy vs control - mean reduction in length (%)

	Bect	rothera	apy	C	ontrol			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl				
Franek, 2012	74	29.6	26	36.1	33.9	24	100.0%	37.90 [20.20, 55.60]					
Total (95% CI)			26			24	100.0%	37.90 [20.20, 55.60]	•				
Heterogeneity: Not ap Test for overall effect:	, w	(P < 0.	.0001)						-100 -50 0 50 100 Favous control Favous electroliterap,				

Figure 282: Electrotherapy vs control - mean reduction in the longest width (%)

•			•••				o ()					
	Bectrotherapy			C	ontrol			Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Tota	Mean	SD	Tota	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl			
Franek, 2012	79	25.1	26	36.3	41.9	24	100.0%	42.70 [23.36, 62.04]				
Total (95% CI)			26			24	100.0%	42.70 [23.36, 62.04]	•			
Heterogeneity: Not ap Test for overall effect:		(P < 0.	.0001)						-100 -50 0 50 100 Favous control Favous electrotherapy			

Figure 283:	Electr	other	ару v	's con	trol	- me	lean reduction in cavity volume (%)							
	Elec	trothera	ру	C	ontrol			Mean Difference						
Study or Subgroup	Mean	SD	Total	Mean SD Total			Weight	IV, Fixed, 95% Cl	I IV, Fixed, 95% CI					
Franek, 2012	100	0.0001	26	54	39.4	24	100.0%	46.00 [30.24, 61.76]						
Total (95% CI)			26			24	100.0%	46.00 [30.24, 61.76]						
Heterogeneity: Not a	pplicable								-100 -50 0 50 100					
Test for overall effect	:Z=5.72	(P < 0.0	0001)						Favours control Favours electrotherapy					
		-							Labora mintal Laborio discrituticistà					

Figure 283: Electrotherapy vs control - mean reduction in cavity volume (%)

Figure 284: Electrotherapy vs control - mean reduction in granulation tissue area (%)

0			· · /						
	Elect	rothera	ару	- 0	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Franek, 2012	37.66	76.17	26	10.36	43.46	24	100.0%	27.30 [-6.75, 61.35]	
Total (95% CI)			26			24	100.0%	27.30 [-6.75, 61.35]	
Heterogeneity: Not app Test for overall effect: 3		(P = 0.	12)						-100 -50 0 50 100 Favours control Favours electrotherapy

Figure 285: Electrotherapy vs control - Gilman parameter

	Bectrotherapy Co				ontrol			Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Totai	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Franek, 2011	0.86	0.45	29	0.42	0.51	29	27.2%	0.44 (0.19, 0.69)	•			
Franek, 2012	0.66	024	26	026	0.3	24	72.8%	0.40 [0.25, 0.55]				
Total (95% CI)			55			53	100.0%	0.41 [0.28, 0.54]				
Heterogeneity: ChF=0	81	-14	Nº 16									
Testlor overall effect.	Z= 8.24	(P < 0)	00001)	1					Farous control Favous electrotherap			

1.2.5.2 Asymmetric biphasic electrostimulation at 100µsec versus control

Figure 27: Asymmetric biphasic electrostimulation at 100µsec vs control; mean reduction in wound surface area (%/week)

	Asymmetric biphasic			Co	ontro	I		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, Fi	xed, 95%	6 CI	
Baker, 1996	36.4	6.2	67	32.7	7	25	100.0%	3.70 [0.58, 6.82]					
Total (95% CI)			67			25	100.0%	3.70 [0.58, 6.82]			•		
Heterogeneity: Not app Test for overall effect: 2		= 0.02)								-50 urs contr	0 ol Favo	50 50 purs asyr	100 mmetric

1.2.5.3 Symmetric biphasic electrostimulation at 300µsec versus control

Figure 28: Symmetric biphasic electrostimulation at 300µsec vs control; mean reduction in wound surface area (%/week)

	Symmeti	ric biph	asic	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	CI IV, Fixed, 95% CI
Baker, 1996	29.7	5.1	58	32.7	7	25	100.0%	-3.00 [-6.04, 0.04]	L F
Total (95% CI)			58			25	100.0%	-3.00 [-6.04, 0.04]	♦
Heterogeneity: Not app Test for overall effect:		= 0.05)							-100 -50 0 50 100 Favours control Favours symmetric bipha

I.2.5.4 Microcurrent versus control

Figure 29: Microcurrent vs control; mean reduction in wound surface area (%/week)

	Micro	ocurre	ent	Co	ontro	1		Mean Difference		Me	an Differ	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C		IV,	Fixed, 95	5% CI	
Baker, 1996	23.3	4.8	42	32.7	7	25	100.0%	-9.40 [-12.50, -6.30]					
Total (95% CI)			42			25	100.0%	-9.40 [-12.50, -6.30]			•		
Heterogeneity: Not ap Test for overall effect:	•	(P < 0	0.00001)					-100 Fa	-50 vours co	0 Introl Fa	50 vours micr	100 rocurrent

1.2.5.5 Asymmetric biphasic electrostimulation at 100µsec versus 300µsec

Figure 30: Asymmetric biphasic electrostimulation at 100usec vs symmetric biphasic electrostimulation at 300usec vs control; mean reduction in wound surface area (%/week)

	Asymmetric	; biphasic	100u	Asymmetri	c biphasic	300u		Mean Difference		Mean I	Differen	ce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, Fix	ed, 95%	CI	
Baker, 1996	36.4	6.2	67	29.7	5.1	58	100.0%	6.70 [4.72, 8.68]					
Total (95% CI)			67			58	100.0%	6.70 [4.72, 8.68]			١		
Heterogeneity: Not app Test for overall effect:		.00001)							-100 Favo	-50 Jurs 300usec	0 Favoi	50 Jrs 100	100 Dusec

1.2.5.6 Asymmetric biphasic electrostimulation at 100µsec versus microcurrent

Figure 31: Asymmetric biphasic electrostimulation at 100µsec versus microcurrent; mean reduction in wound surface area (%/week)

	Asymme	tric biph	asic	Micro	ocurre	ent		Mean Difference		Me	an Differer	ice	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI	
Baker, 1996	36.4	6.2	67	23.3	4.8	42	100.0%	13.10 [11.02, 15.18]					
Total (95% CI)			67			42	100.0%	13.10 [11.02, 15.18]			•		
Heterogeneity: Not app Test for overall effect:		< 0.000	01)						-100 Favou	-50 rs microcur	0 rent Favo	50 50 burs asymr	100 netric

1.2.5.7 Asymmetric biphasic electrostimulation at 300µsec versus microcurrent

Figure 32: Asymmetric biphasic electrostimulation at 300µsec versus microcurrent; mean reduction in wound surface area (%/week)

	Asymme	tric biph	asic	Micro	ocurre	ent		Mean Difference		Меа	an Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95	% CI	
Baker, 1996	29.7	5.1	58	23.3	4.8	42	100.0%	6.40 [4.44, 8.36]					
Total (95% CI)			58			42	100.0%	6.40 [4.44, 8.36]			•		
Heterogeneity: Not ap Test for overall effect:		< 0.0000 ⁻	1)						-100 Favour	-50 rs microcuri	0 rent Fav	50 50 ours assyn	100 netric

Hard to heal ulcers (grade 3 and 4) electrotherapy vs control 1.2.5.8

Figure 286: proportion of participants completely healed





Figure 287: Mortality

	Electroth	erapy	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Kloth, 1988	0	9	0	7		Not estimable	
Total (95% CI)		9		7		Not estimable	
Total events	0		0				
Heterogeneity: Not ap Test for overall effect:		ole				Fav	0.01 0.1 1 10 100 vours electrotherapy Favours control

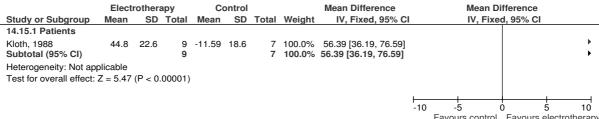
Figure 288: Absolute reduction in size of pressure ulcer at end of treatment (cm)

•	Electr	othera	apy	Co	ontro			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Adunsky, 2005	11.15	1.1	21	16.7	1	25	100.0%	-5.55 [-6.16, -4.94]	•
Total (95% CI)			21			25	100.0%	-5.55 [-6.16, -4.94]	*
Heterogeneity: Not ap Test for overall effect:	•	6 (P < 9	0.0000 ⁻	1)					-100 -50 0 50 100 Favours control Favours electrotherapy

Absolute reduction in size of pressure ulcer at end of follow-up (cm) Figure 289:

	Elect	rother	ару	С	ontrol			Mean Difference		Mea	n Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl		IV, I	Fixed, 95	5% CI	
Adunsky, 2005	2.53	2.11	21	2.88	1.92	25	100.0%	-0.35 [-1.53, 0.83]					
Total (95% CI)			21			25	100.0%	-0.35 [-1.53, 0.83]					
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	.56)						-100	-50		50	100
		· -	/						F	avours cor	illioi Fa	vours elect	rotnerapy

Figure 290: healing rate (%/week)



Favours control Favours electrotherapy

Figure 291: time to complete healing (days)

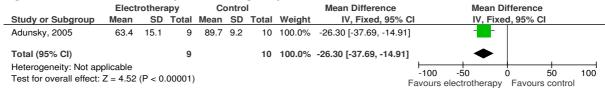
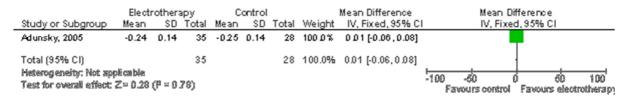


Figure 292: speed of healing (% change from baseline – days)



I.2.5.9 NPWT vs wet-to-wet or wet-to dry gauze

Figure 293: Time to 50% of initial wound volume

0	N	PWT		Wet-to-dr	y/wet-to-	wet		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Wanner, 2003	27	10	11	28	7	11	100.0%	-1.00 [-8.21, 6.21]	
Total (95% CI)			11			11	100.0%	-1.00 [-8.21, 6.21]	•
Heterogeneity: Not ap Test for overall effect:		' (P =	0.79)						-100 -50 0 50 100 Favours NPWT Favours Wet-to-wet/ddr

I.2.5.10 NPWT vs modern dressings: wound gel products

Figure 4: Pressure ulcers healed within 6 weeks

	NPW	т	Modern dres	ssings		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
Ford, 2002	2	20	2	15	100.0%	0.75 [0.12, 4.73]	
Total (95% CI)		20		15	100.0%	0.75 [0.12, 4.73]	
Total events	2		2				
Heterogeneity: Not app	plicable						
Test for overall effect:	Z = 0.31 (l	P = 0.7	6)			Fav	ours modern dressing Favours NPWT

I.2.5.11 NPWT vs spun hydrocolloid dressing, a foam dressing or an alginate dressing

Figure 294: Proportion completely healed

•	NPW	т	Dressi	ngs		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% (CI Peto, Fixed, 95% CI
Ashby, 2012	1	6	0	6	100.0%	7.39 [0.15, 372.38]
Total (95% CI)		6		6	100.0%	7.39 [0.15, 372.38]	
Total events	1		0				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 1.00 (P = 0.3	2)				Favours dressings Favours NPWT

Figure 295: Mortality

-	NPW	т	Dressi	ngs		Peto Odds Ratio		Peto O	dds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl		Peto, Fiz	xed, 95% (CI	
Ashby, 2012	2	6	0	6	100.0%	9.03 [0.49, 165.19]		_			
Total (95% CI)		6		6	100.0%	9.03 [0.49, 165.19]		_			
Total events	2		0								
Heterogeneity: Not app	olicable						0.01	0.1	1 1		100
Test for overall effect:	Z = 1.48 (P = 0.1	4)					ours NPW1		-	

Figure 296: Pain

-	NPW	т	Dressi	ngs		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Ashby, 2012	1	6	0	6	100.0%	7.39 [0.15, 372.38]	
Total (95% CI)		6		6	100.0%	7.39 [0.15, 372.38]	
Total events	1		0				
Heterogeneity: Not app	plicable						
Test for overall effect:	Z = 1.00 (P = 0.32	2)				Favours NPWT Favours dressings

I.2.6 Debridement

Figure 297: Collagenase ointment versus preparation of inactivated collagenase - proportion of pressure ulcers that decreased in volume.

Collagenase		Inactivated collag	genase		Peto Odds Ratio	Peto Odds	s Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed	, 95% CI
Lee 1975	8	17	0	11	100.0%	9.24 [1.78, 48.04]		
Total (95% CI)		17		11	100.0%	9.24 [1.78, 48.04]		
Total events	8		0					
Heterogeneity: Not app	licable						0.01 0.1 1	10 100
Test for overall effect: 2	Z = 2.64 (P	= 0.008)	1					Favours collagenase

Figure 298: Collagenase versus preparation of inactivated collagenase - proportion of pressure ulcers that increased in volume.

	Collagenase		Inactivated collag	genase		Risk Ratio	Risk	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d, 95% Cl		
Lee 1975	4	17	6	11	100.0%	0.43 [0.16, 1.19]		+		
Total (95% CI)		17		11	100.0%	0.43 [0.16, 1.19]	-	•		
Total events	4		6							
Heterogeneity: Not app							0.01 0.1	1 10	100	
Test for overall effect: 2	Z = 1.63 (P	= 0.10)					Favours collagenase	Favours inactivat		

Figure 299: Collagenase versus preparation of inactivated collagenase - proportion of pressure ulcers with odor at the end of treatment.

	Collage	nase	Inactivated collag	genase		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixe	d, 95% Cl	
Lee 1975	7	17	5	11	100.0%	0.91 [0.38, 2.14]	—		
Total (95% CI)		17		11	100.0%	0.91 [0.38, 2.14]			
Total events	7		5						
Heterogeneity: Not app	licable						0.01 0.1	1 10	100
Test for overall effect: 2	Z = 0.22 (P	= 0.82)					Favours collagenase	Favours inactivate	

Figure 300: Collagenase versus preparation of inactivated collagenase - number of side effects observed

003	ci vcu										
Collagenase		nase	Inactivated collag	genase	Peto Odds Ratio			Peto Odds Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl		Peto,	Fixed, 95%	CI	
Lee 1975	1	17	0	11	100.0%	5.19 [0.09, 287.21]					
Total (95% CI)		17		11	100.0%	5.19 [0.09, 287.21]					
Total events	1		0								
Heterogeneity: Not app Test for overall effect: 2		= 0.42)					0.01 Fa	0.1 avours collagen	1 ase Favoi	10 Jrs inactiva	100 ited colla

Figure 301: Collagenase versus preparation of inactivated collagenase - mortality

Collage	nase	Inactivated colla	genase		Peto Odds Ratio		Peto O	dds Ra	tio	
Events	Total	Events	0	Weight		:1				
0	17	0	11		Not estimable					
	17		11		Not estimable					
0		0								
	able					0.01	0.1	1	10	100
	Events 0 plicable	0 17 17 0	Events Total Events 0 17 0 17 0 0 plicable 0 0	Events Total Events Total 0 17 0 11 17 11 11 0 0 0 plicable 0 11	Events Total Events Total Weight 0 17 0 11 17 11 0 0 plicable 0 0 0	Events Total Events Total Weight Peto, Fixed, 95% C 0 17 0 11 Not estimable 17 11 Not estimable 0 0 0 plicable 1 1	Events Total Events Total Weight Peto, Fixed, 95% Cl 0 17 0 11 Not estimable 17 11 Not estimable 0 0 0 plicable 0.01	Events Total Events Total Weight Peto, Fixed, 95% Cl Peto, Fixed, 95% Cl 0 17 0 11 Not estimable 17 11 Not estimable 0 0 plicable 0.01 0.1	Events Total Events Total Weight Peto, Fixed, 95% CI Peto, Fixed, 95 0 17 0 11 Not estimable 17 11 Not estimable 0 0 plicable 0.01 0.1	Events Total Events Total Weight Peto, Fixed, 95% Cl Peto, Fixed, 95% Cl 0 17 0 11 Not estimable 0 0 0 0 plicable 0.01 0.1 1

Figure 302: Collagenase versus Dextranomer - proportion of pressure ulcers that improved

	Collage	nase	Drextran	omer		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Parish 1979	5	11	12	14	100.0%	0.53 [0.27, 1.05]	
Total (95% CI)		11		14	100.0%	0.53 [0.27, 1.05]	•
Total events	5		12				
Heterogeneity: Not app Test for overall effect:		= 0.07)					0.01 0.1 1 10 100 Favours dextranomer Favours collagenase

Figure 303: Collagenase versus Dextranome - proportion of pressure ulcers that closed

-	Collage	nase	Dextran	omer		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Parish 1979	1	11	6	14	100.0%	0.21 [0.03, 1.51]	
Total (95% CI)		11		14	100.0%	0.21 [0.03, 1.51]	
Total events	1		6				
Heterogeneity: Not app Test for overall effect: 2		= 0.12)					0.01 0.1 1 10 100 Favours dextranomer Favours collagenase

Figure 304: Collagenase versus dextranomer, outcome: 2.3 Proportion of patients with pressure ulcers closure

-	Collage	nase	Dextran	omer		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Parish 1979	1	5	4	7	100.0%	0.35 [0.05, 2.26]	
Total (95% CI)		5		7	100.0%	0.35 [0.05, 2.26]	
Total events	1		4				
Heterogeneity: Not app Test for overall effect: 2		= 0.27)					Image: line stress Image: line stres Image: line stress Image: l

Figure 305:	Collager	nase v	/ersus i	Dextra	anome	nomer - proportion of patients that improved					
	Collage	nase	Dextran	omer		Risk Ratio	Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl				
Parish 1979	2	5	7	7	100.0%	0.44 [0.17, 1.16]					
Total (95% CI)		5		7	100.0%	0.44 [0.17, 1.16]					
Total events	2		7								
Heterogeneity: Not a	pplicable										
Test for overall effect	: Z = 1.65 (P	= 0.10)					Favours dextranomer Favours collagenase				

Figure 305: Collagenase versus Dextranomer - proportion of patients that improved

Figure 306: Collagenase versus Dextranomer - proportion of PU improved after 1 week

0	Collage	nase	Dextran	omer		Peto Odds Ratio	•	Peto Oc	dds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl		Peto, Fix	ed, 95% C	<u> </u>	
Parish 1979	0	11	6	14	100.0%	0.10 [0.02, 0.64]					
Total (95% CI)		11		14	100.0%	0.10 [0.02, 0.64]					
Total events	0		6								
Heterogeneity: Not app	olicable						0.01	0.1	-	10	100
Test for overall effect:	Z = 2.44 (P	= 0.01)						lextranomer	Favours	10 collage	

Figure 307: Collagenase versus Dextranomer - proportion of pressure ulcers improved after 1 month.

	Collage	nase	Dextran	omer		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Parish 1979	3	11	8	14	100.0%	0.48 [0.16, 1.39]	
Total (95% CI)		11		14	100.0%	0.48 [0.16, 1.39]	
Total events	3		8				
Heterogeneity: Not app Test for overall effect:		= 0.17)					0.01 0.1 1 10 100 Favours dextranomer Favours collagenase

Figure 308: Collagenase versus Dextranomer - proportion of pressure ulcers improved after 2 months

	Collage	Collagenase De				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Parish 1979	5	11	8	14	100.0%	0.80 [0.36, 1.75]	
Total (95% CI)		11		14	100.0%	0.80 [0.36, 1.75]	-
Total events	5		8				
Heterogeneity: Not app Test for overall effect:		= 0.57)					0.01 0.1 1 10 100 Favours dextranomer Favours collagenase

Figure 309: Collagenase versus Dextranomer - proportion improved after > 2 months

	Collage	Collagenase		Dextranomer		Risk Ratio		Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl			M-H, Fixe	d, 95% C	1	
Parish 1979	5	11	12	14	100.0%	0.53 [0.27, 1.05]				-		
Total (95% CI)		11		14	100.0%	0.53 [0.27, 1.05]			•			
Total events	5		12									
Heterogeneity: Not app	plicable						⊢ 0.01	0	1		10	100
Test for overall effect:	Z = 1.82 (P	= 0.07)						-	xtranomer	Favours	s collage	

Figure 310: Collagenase versus sugar and egg white - proportion of pressure ulcers that improved

mp	loveu							
	Collage	nase	Sugar and egg white			Peto Odds Ratio	Peto Odd	s Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	I Peto, Fixed	, 95% CI
Parish 1979	5	11	0	9	100.0%	10.00 [1.38, 72.67]		
Total (95% CI)		11		9	100.0%	10.00 [1.38, 72.67]		
Total events	5		0					
Heterogeneity: Not app	olicable						0.01 0.1 1	10 100
Test for overall effect: 2	Z = 2.28 (P	= 0.02)						10 100 Favours collagenase

Figure 311: Collagenase versus sugar and egg white - proportion of pressure ulcers that closed

	Collage	nase	Sugar and egg v	Sugar and egg white		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	I Peto, Fixed, 95% Cl
Parish 1979	1	11	0	9	100.0%	6.16 [0.12, 316.67]	
Total (95% CI)		11		9	100.0%	6.16 [0.12, 316.67]	
Total events	1		0				
Heterogeneity: Not app	licable						0.01 0.1 1 10 100
Test for overall effect: 2	Z = 0.90 (P	= 0.37)					Favours sugar and egg whi Favours collagenase

Figure 312: Collagenase versus sugar and egg white - proportion of patients with pressure ulcers closure

uice	13 0103	arc						
	Collage	nase	Sugar and egg white			Peto Odds Ratio	Peto Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	Peto, Fixed, 95% CI	
Parish 1979	1	5	0	5	100.0%	7.39 [0.15, 372.38]		→
Total (95% CI)		5		5	100.0%	7.39 [0.15, 372.38]		
Total events	1		0					
Heterogeneity: Not app	licable						0.01 0.1 1	10 100
Test for overall effect: 2	Z = 1.00 (P	= 0.32)						10 100 collagenase

Figure 313: Collagenase versus sugar and egg white - proportion of patients that improved

	Collage	nase	Sugar and egg	white		Peto Odds Ratio Pet		Peto Odds Ratio			Odds Ratio Peto Odds Ratio		Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	I	Pete	o, Fixed, 95%	CI				
Parish 1979	2	5	0	5	100.0%	9.49 [0.50, 179.46]								
Total (95% CI)		5		5	100.0%	9.49 [0.50, 179.46]								
Total events	2		0											
Heterogeneity: Not app Test for overall effect: 2		= 0.13)					0.01 Favours	0.1 sugar and egg	1 whi Favou	10 rs collagena	100 ise			

Figure 314: Collagenase versus sugar and egg white - proportion of pressure ulcers improved after 1 week

	Collager	nase	Sugar and egg	white		Peto Odds Ratio	Peto Oc	dds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	l Peto, Fix	ed, 95% Cl	
Parish 1979	0	11	0	9		Not estimable	9		
Total (95% CI)		11		9		Not estimable)		
Total events	0		0						
Heterogeneity: Not app Test for overall effect: I		ble					0.01 0.1 Favours sugar and egg whi	1 10 Favours collagenas	100 e

Figure 315: Collagenase versus sugar and egg white - proportion of pressure ulcers improved after 1 month

ait		•					
	Favours collage	enase	Favours sugar and e	gg whi		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	I Peto, Fixed, 95% Cl
Parish 1979	3	11	0	9	100.0%	7.63 [0.69, 84.50]	
Total (95% CI)		11		9	100.0%	7.63 [0.69, 84.50]	
Total events	3		0				
Heterogeneity: Not app Test for overall effect: 2							0.01 0.1 1 10 100 Favours sugar and egg whi Favours collagenase

Figure 316: Collagenase versus sugar and egg white - proportion of pressure ulcers improved after 2 months

	Experim	ental	Contr	ol		Peto Odds Ratio	Peto Odds Ratio			
Study or Subgroup	Events Total		Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl			
Parish 1979	5	11	0	9	100.0%	10.00 [1.38, 72.67]				
Total (95% CI)		11		9	100.0%	10.00 [1.38, 72.67]				
Total events	5		0							
Heterogeneity: Not app							0.01 0.1 1	10 100		
Test for overall effect:	Z = 2.28 (P =	= 0.02)						urs collagenase		

Figure 317: Collagenase versus papain/urea- percentage reduction in pressure ulcers size after 1 week

I W C									
	Coll	agena	se	papa	ain/ure	ea		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% Cl
Alvarez 2000	5.8	17.4	10	1.9	7.6	11	100.0%	3.90 [-7.78, 15.58]	
Total (95% CI)			10			11	100.0%	3.90 [-7.78, 15.58]	•
Heterogeneity: Not app Test for overall effect: 2		P = 0.5	51)						-100 -50 0 50 100 Favours papain/urea Favours collagenase

Figure 318: Collagenase versus papain/urea - percentage reduction in pressure ulcers size after 2 weeks

	Coll	agenas	se	Papain/urea				Mean Difference	Mean Difference
Study or Subgroup	Study or Subgroup Mean SD		Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% CI
Alvarez 2000	19.9	29.2	10	23.7	25.8	11	100.0%	-3.80 [-27.46, 19.86]	
Total (95% CI)			10			11	100.0%	-3.80 [-27.46, 19.86]	
Heterogeneity: Not applicable Test for overall effect: Z = 0.31 (P = 0.75)			'5)						-100 -50 0 50 100 Favours papain/urea Favours collagenase

Figure 319: Collagenase versus papain/urea - percentage reduction in pressure ulcers size after 3 weeks

ance	1 3 440	CKS							
	Coll	agena	se	Pap	ain/ure	ea		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Alvarez 2000	27.3	28.5	10	34.8	25.2	11	100.0%	-7.50 [-30.60, 15.60]	
Total (95% CI)			10			11	100.0%	-7.50 [-30.60, 15.60]	
Heterogeneity: Not app Test for overall effect:		(P = 0.5	52)						-100 -50 0 50 100 Favours papain/urea Favours collagenase

Figure 320: Collagenase versus papain/urea, outcome - percentage reduction in pressure ulcers size after 4 weeks

uice	13 3120	ance	1 - V	/eeks)				
	Col	lagenas	е	Pap	ain/ure	ea		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Alvarez 2000	33.9	26.17	10	55.4	33.5	11	100.0%	-21.50 [-47.09, 4.09]	
Total (95% CI)			10			11	100.0%	-21.50 [-47.09, 4.09]	
Heterogeneity: Not app Test for overall effect: 2		P = 0.10)						-100 -50 0 50 100 Favours papain/urea Favours collagenase

Figure 321: Collagenase versus papain/urea, outcome - number of side effects observed

	Collage	nase	Papain/	urea		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events Total		Events	Events Total		Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Alvarez 2000	1	10	0	11	100.0%	8.17 [0.16, 413.39]	
Total (95% CI)		10		11	100.0%	8.17 [0.16, 413.39]	
Total events	1		0				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect: 2	Z = 1.05 (P	= 0.29)					Favours papain/urea Favours collagenase

Figure 322: Collagenase versus fibrinolysis/DNAse - proportion of persons reporting adverse events

ever	113								
	Collage	nase	Fibrinolysis/D	NAse		Risk Ratio	Ri	sk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fi	ixed, 95% Cl	
Püllen 2002	45	66	34	69	100.0%	1.38 [1.03, 1.85]			
Total (95% CI)		66		69	100.0%	1.38 [1.03, 1.85]		•	
Total events	45		34						
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 2.19 (P	= 0.03)					0.01 0.1 Favours collagena	1 10 se Favours fibrino	100 lysis/DNAs

Figure 323: Collagenase versus fibrinolysis/DNAse - proportion of serious adverse events

	Collage	nase	Fibrinolysis/	DNAse		Risk Ratio		Ris	k Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	l	M-H, Fiz	ked, 95%	CI	
Püllen 2002	54	118	24	103	100.0%	1.96 [1.31, 2.93]					
Total (95% CI)		118		103	100.0%	1.96 [1.31, 2.93]			•		
Total events	54		24								
Heterogeneity: Not ap Test for overall effect:		P = 0.00	10)				0.01 Favou	0.1 rs collagenase	1 Favours	10 s fibrinoly	100 sis/DNAs

Figure 324: Collagenase versus hydrocolloid dressing - proportion of patients with reduction in pressure ulcers area after 12 weeks of treatment.

	Collage	nase	Hydrocolloid dr	essing		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Burgos 2000 (a)	15	18	14	19	100.0%	1.13 [0.81, 1.59]	
Total (95% CI)		18		19	100.0%	1.13 [0.81, 1.59]	•
Total events	15		14				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.71 (P	= 0.48)					0.01 0.1 1 10 100 Favours hydrocolloid dres Favours collagenase

Figure 325: Collagenase versus hydrocolloid dressing - proportion of patients with complete healing of pressure ulcers

nea		press	sure uicers						
	Collage	nase	Hydrocolloid dr	essing		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixe	ed, 95% Cl	
Burgos 2000 (a)	3	18	3	19	28.6%	1.06 [0.24, 4.57]		•	
Muller 2001	11	12	7	11	71.4%	1.44 [0.89, 2.32]		┼═╌	
Total (95% CI)		30		30	100.0%	1.33 [0.80, 2.23]		◆	
Total events	14		10						
Heterogeneity: Chi ² = 0).20, df = 1	(P = 0.6	5); l² = 0%				0.01 0.1	-	10 100
Test for overall effect: 2	Z = 1.09 (P	= 0.28)					Favours hydrocolloid dres	Favours co	

Figure 326: Collagenase versus hydrocolloid dressing - mean reduction in pressure ulcers area after 12 weeks of treatment

alt		wee	KS UI	treatin	ient							
	Coll	agena	se	Hydrocoll	oid dress	ing		Mean Difference	Mean Di	fference		
Study or Subgroup			Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed	l, 95% Cl		
Burgos 2000 (a)	9.1	12.7	18	6.2	9.8	19	100.0%	2.90 [-4.44, 10.24]				
Total (95% CI)			18			19	100.0%	2.90 [-4.44, 10.24]		♦		
Heterogeneity: Not ap Test for overall effect:		P = 0.4	14)						-100 -50 Favours hydrocolloid dres	0 Favours co	 50 Ilagenase	100

Figure 327: Collagenase versus hydrocolloid dressing - mean time to healing (weeks).

•	Collagenase			Hydrocolloid dressing				Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl		
Muller 2001	10	1.5	12	14	1.2	11	100.0%	-4.00 [-5.11, -2.89]			
Total (95% CI)			12			11	100.0%	-4.00 [-5.11, -2.89]	*		
Heterogeneity: Not app Test for overall effect:		P < 0.0	00001)						-100 -50 0 50 100 Favours collagenase Favours hydrocolloid dres		

Figure 328: Collagenase versus hydrocolloid dressing - proportion of patients reporting adverse events

	Collagenase		Hydrocolloid dr	essing		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Burgos 2000 (a)	1	18	2	19	100.0%	0.53 [0.05, 5.33]	
Total (95% CI)		18		19	100.0%	0.53 [0.05, 5.33]	
Total events	1		2				
Heterogeneity: Not app Test for overall effect: 2		= 0.59)					0.01 0.1 1 10 100 Favours collagenase Favours hydrocolloid dres

Figure 329: Collagenase versus hydrocolloid dressing - mortality

	Collagenase		Hydrocolloid d	Iressing		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fixed, 95% Cl		
Burgos 2000 (a)	3	18	1	19	100.0%	3.17 [0.36, 27.72]			
Muller 2001	0	12	0	12		Not estimable			
Total (95% CI)		30		31	100.0%	3.17 [0.36, 27.72]			
Total events	3		1						
Heterogeneity: Not ap									
Test for overall effect:	P = 0.30)				Favours collagenase Favours hydrocolloid			

Figure 330: Collagenase ointment application every 24 hours versus every 48 hours - proportion of pressure ulcers that showed complete healing after 8 weeks.

•	Collagenase ever	v 94 h	Collagenase eve	rv /18 h		- Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight		M-H, Fixed, 95% Cl
Burgos 2000 (b)	12	43	9	43	100.0%	1.33 [0.63, 2.83]	
Total (95% CI)		43		43	100.0%	1.33 [0.63, 2.83]	•
Total events	12		9				
Heterogeneity: Not app	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.75 (P = 0.45)						0.01 0.1 1 10 100 Favours every 48 h Favours every 24 h

Figure 331: Collagenase ointment application every 24 hours versus every 48 hours - proportion of patients reporting adverse events.

	Collagenase ever	y 24 h	Collagenase eve	ry 48 h		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Burgos 2000 (b)	3	46	3	46	100.0%	1.00 [0.21, 4.70]	
Total (95% CI)		46		46	100.0%	1.00 [0.21, 4.70]	
Total events	3		3				
Heterogeneity: Not app	plicable						
Test for overall effect: 2	Z = 0.00 (P = 1.00)						Favours every 24 h Favours every 48 h

Figure 332: Collagenase ointment application every 24 hours versus every 48 hours - mortality

	Collagenase eve	ry 24 h	Collagenase eve	ery 48 h		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Burgos 2000 (b)	4	46	7	46	100.0%	0.57 [0.18, 1.82]	
Total (95% CI)		46		46	100.0%	0.57 [0.18, 1.82]	-
Total events Heterogeneity: Not app Test for overall effect:			7				0.01 0.1 1 10 100 Favours 24 hours Favours 48 hours

Figure 333: Collagenase versus hydrogel: proportion of people with pressure ulcers completely healed

	Collage	nase	Hydro	gel		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C		M-H, Fix	ed, 95% Cl		
Milne, 2012	9	13	3	14	100.0%	3.23 [1.11, 9.39]					
Total (95% CI)		13		14	100.0%	3.23 [1.11, 9.39]					
Total events	9		3								
Heterogeneity: Not ap	plicable						0.01	0.1	 1 10	n	100
Test for overall effect:	Z = 2.16 (F	P = 0.03))					ours hydrogel	Favours c	-	

Figure 334: Collagenase versus hydrogel: mortality

	Collagenase		Hydrogel			Peto Odds Ratio		Peto C	Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C		Peto, Fi	xed, 95% Cl	
Milne, 2012	0	13	0	14		Not estimable)			
Total (95% CI)		13		14		Not estimable	•			
Total events	0		0							
Heterogeneity: Not ap	•						0.01	0.1	1 10	100
Test for overall effect: Not applicable							Favours	collagenase	Favours hyd	rogel

I.2.7 Topical antimicrobials and antibiotics

I.2.7.1 Saline vs. hydrocolloid dressing

Figure 335: Saline versus hydrocolloid dressing - proportion of patients completely healed Hydrocolloid Risk Ratio Saline **Risk Ratio** Study or Subgroup Events Total Events Total Weight M-H, Random, 95% Cl M-H, Random, 95% Cl 9.1.1 General population Matzen 1999 0 15 5 17 13.8% 0.10 [0.01, 1.71] 0.96 [0.76, 1.22] Xakellis 1992 18 21 16 18 45 1% Subtotal (95% CI) 36 35 58.9% 0.38 [0.01, 10.16] Total events 18 21 Heterogeneity: Tau² = 4.74; Chi² = 5.56, df = 1 (P = 0.02); l² = 82% Test for overall effect: Z = 0.57 (P = 0.57) 9.1.2 Patients with a spinal cord injury Hollisaz 2004 0.41 [0.22, 0.78] 8 27 20 28 41.1% Subtotal (95% CI) 41.1% 0.41 [0.22, 0.78] 27 28 Total events 8 20 Heterogeneity: Not applicable Test for overall effect: Z = 2.75 (P = 0.006) Total (95% CI) 63 100.0% 0.50 [0.14, 1.74] 63 Total events 26 41 Heterogeneity: Tau² = 0.88; Chi² = 17.84, df = 2 (P = 0.0001); l² = 89% 0.02 0.1 10 50 Test for overall effect: Z = 1.09 (P = 0.28)Favours hydrocolloid Favours saline Test for subgroup differences: $Chi^2 = 0.00$, df = 1 (P = 0.96), $I^2 = 0\%$

Figure 336: Saline versus hydrocolloid dressing – proportion of ulcers completely healed (all grades – all sites)

Biuucs		23)					
	Salin	e	Hydroco	olloid		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
9.2.1 General populat	tion						
Neill 1989	10	45	13	42	37.3%	0.72 [0.35, 1.46]	
Subtotal (95% CI)		45		42	37.3%	0.72 [0.35, 1.46]	•
Total events	10		13				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.92 (P = 0.3	6)				
9.2.2 Patients with a	spinal co	rd injur	у				
Hollisaz 2004	8	30	23	31	62.7%	0.36 [0.19, 0.67]	
Subtotal (95% CI)		30		31	62.7%	0.36 [0.19, 0.67]	\bullet
Total events	8		23				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 3.19 (P = 0.0	01)				
Total (95% CI)		75		73	100.0%	0.49 [0.31, 0.78]	•
Total events	18		36				
Heterogeneity: Chi ² = 2	2.05, df =	1 (P = 0	0.15); l ² = 5	51%			
Test for overall effect:	Z = 2.99 (P = 0.0	03)			F	avours hydrocolloid Favours saline
Test for subgroup diffe	rences: C	hi² = 2.0	05, df = 1 ((P = 0.1	5), l ² = 51.	.2%	

Figure 337: Saline versus hydrocolloid dressing – proportion of ulcers completely healed (grade I – all sites)

(graue	1 - all 3	nesj					
	Salir	ie	Hydroco	biolic		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Hollisaz 2004	5	11	11	13	100.0%	0.54 [0.27, 1.07]	
Total (95% CI)		11		13	100.0%	0.54 [0.27, 1.07]	•
Total events	5		11				
Heterogeneity: Not ap	oplicable						0.01 0.1 1 10 100
Test for overall effect	Z=1.77	(P = 0.0	18)				Favours hydrocolloid Favours saline

Figure 338: Saline versus hydrocolloid dressing – proportion of ulcers completely healed (grade II – all sites)

(graue	11 – ali s	niesj						
	Salin	le	Hydroco	lloid		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fixe	ed, 95% Cl
9.4.1 General popula	tion							
Neill 1989	3	34	11	25	50.7%	0.20 [0.06, 0.64		
Subtotal (95% CI)		34		25	50.7%	0.20 [0.06, 0.64]		
Total events	3		11					
Heterogeneity: Not a	oplicable							
Test for overall effect	Z = 2.70	(P = 0.0	107)					
9.4.2 Patients with a	spinal co	rd inju	ry					
Hollisaz 2004	3	19	12	18	49.3%	0.24 [0.08, 0.70]		
Subtotal (95% CI)		19		18	49.3%	0.24 [0.08, 0.70]		
Total events	3		12					
Heterogeneity: Not ap	plicable							
Test for overall effect	Z = 2.59	(P = 0.0)10)					
Total (95% CI)		53		43	100.0%	0.22 [0.10, 0.48]	•	
Total events	6		23					
Heterogeneity: Chi ² =	0.04, df=	1 (P =	0.84); l ² =	0%			0.01 0.1	1 10 100
Test for overall effect:		•	,				Favours hydrocolloid	
Test for subaroup dif	ferences:	Chi ² = I	0.04. df = 1	1 (P = 0)	.84), I ² = (0%		

Figure 339: Saline versus hydrocolloid dressing – proportion of ulcers completely healed (grade III – all sites)

(0		,					
	Saline					Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Neill 1989	1	11	2	17	100.0%	0.77 [0.08, 7.54]	
Total (95% CI)		11		17	100.0%	0.77 [0.08, 7.54]	
Total events	1		2				
Heterogeneity: Not ap	oplicable						
Test for overall effect:	Z=0.22	(P = 0.8	32)			1	Favours hydrocolloid Favours saline

Figure 340: Saline versus hydrocolloid dressing – proportion of ulcers completely healed (all grades – sacral area)

0			~/				
	Salir	ie	Hydroco	biolic		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fixed, 95% CI
Hollisaz 2004	4	8	0	7	100.0%	10.87 [1.19, 99.73]	
Total (95% CI)		8		7	100.0%	10.87 [1.19, 99.73]	
Total events	4		0				
Heterogeneity: Not ap	plicable						0.005 0.1 1 10 200
Test for overall effect:	Z= 2.11	(P = 0.0)3)			1	Favours hydrocolloid Favours saline

Figure 341: Saline versus hydrocolloid dressing – proportion of ulcers improved

•	Salin	e	Hydroco	bloid	•	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Hollisaz 2004	29	60	27	31	100.0%	0.55 [0.41, 0.75	
Total (95% CI)		60		31	100.0%	0.55 [0.41, 0.75]	
Total events	29		27				
Heterogeneity: Not a	oplicable						0.5 0.7 1 1.5 2
Test for overall effect	Z= 3.92 ((P < 0.0	001)				Favours hydrocolloid Favours saline

inguie 342.		1343	nyurocu	Jiioiu	ul essili	$\mathbf{g} = \mathbf{p}(\mathbf{o}\mathbf{p}(\mathbf{o}))$	ulcers worselled (all grades)
	Salin	ie	Hydroco	bloid		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
9.10.1 General popu	Ilation						
Neill 1989	15	45	14	42	59.0%	1.00 [0.55, 1.81]	_ _
Subtotal (95% CI)		45		42	59.0%	1.00 [0.55, 1.81]	•
Total events	15		14				
Heterogeneity: Not a	pplicable						
Test for overall effec	t: Z = 0.00	(P = 1.0)0)				
9.10.2 Patients with	a spinal c	ord inj	ury				
Hollisaz 2004	9	30	2	31	41.0%	4.65 [1.09, 19.78]	
Subtotal (95% CI)		30		31	41.0%	4.65 [1.09, 19.78]	
Total events	9		2				
Heterogeneity: Not a	pplicable						
Test for overall effec	t: Z = 2.08 ((P = 0.0	14)				
Total (95% CI)		75		73	100.0%	1.88 [0.41, 8.68]	
Total events	24		16				
Heterogeneity: Tau ²	= 0.94; Ch	i ^z = 3.9	5, df = 1 (F	P = 0.05); I ² = 759	6	0.05 0.2 1 5 20
Test for overall effec	t: Z = 0.81 ((P = 0.4)	(2)				Favours saline Favours hydrocolloid
Test for subaroup di	fferences:	Chi ² =	3.70. df=	1 (P = 0	.05). I ² = 2	73.0%	

Figure 342: Saline versus hydrocolloid dressing – proportion of ulcers worsened (all grades)

Figure 343: Saline versus hydrocolloid dressing – proportion of ulcers worsened (grade II)

-	Salin	Saline Hydrocol		biolic	-	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Neill 1989	11	34	7	25	100.0%	1.16 [0.52, 2.56]	
Total (95% CI)		34		25	100.0%	1.16 [0.52, 2.56]	+
Total events Heterogeneity: Not a	11 Innliachta		7				
Test for overall effect		(P = 0.7	2)				0.05 0.2 1 5 20 Favours saline Favours hydrocolloid

Figure 344: Saline versus hydrocolloid dressing – proportion of ulcers worsened (grade III)

-	Salin	ie	Hydroco	bloid	-	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Neill 1989	4	11	7	17	100.0%	0.88 [0.34, 2.32]	
Total (95% CI)		11		17	100.0%	0.88 [0.34, 2.32]	-
Total events	4		7				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z=0.25 ((P = 0.8	30)				Favours saline Favours hydrocolloid

Figure 345: Saline versus hydrocolloid dressing – mean percentage reduction in ulcer size

-			-				-				
		Saline		Hydrocolloid				Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	CI IV, Fixed, 95% CI		
Chang 1998	-9	102.45	17	34	102.45	17	100.0%	-43.00 [-111.87, 25.87	n		
Total (95% CI) Heterogeneity: Not ap Test for overall effect:			17 2)			17	100.0%	-43.00 [-111.87, 25.87	-100 -50 0 50 100 Favours experimental Favours control		

Figure 346: Saline versus hydrocolloid dressing – mean percentage reduction in ulcer volume

	Sa	aline		Hydr	ocollo	bid		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Matzen 1999	64	16	15	26	10	17	100.0%	38.00 [28.61, 47.39]	
Total (95% CI)			15			17	100.0%	38.00 [28.61, 47.39]	•
Heterogeneity: Not ap Test for overall effect:			0.000	01)				F	-50 -25 0 25 50 avours hydrocolloid Favours saline

	Sa	aline		Hydro	ocollo	bid		Mean Difference		Mean Di	ifference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	1	IV, Fixed	d, 95% CI	
Alm 1989	85.7	0	21	100	0	29		Not estimable	;			
Total (95% CI)			21			29		Not estimable				
Heterogeneity: Not ap	plicable								-100	-50	0 50	0 100
Test for overall effect:	Not app	licab	le					I		experimental	• ••	

Figure 348: Saline versus hydrocolloid dressing – median percentage reduction in ulcer size (grade II)

(Brade	•••										
	Sa	aline		Hydro	ocollo	bid		Mean Difference	Mean Di	fference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed	I, 95% CI	_
Neill 1989	48	0	34	91	0	25		Not estimable			
Total (95% CI)			34			25		Not estimable			
Heterogeneity: Not ap Test for overall effect: I			le					1	-100 -50 Favours experimental	0 50 100 Favours control	

Figure 349: Saline versus hydrocolloid dressing – median percentage reduction in ulcer size (grade III)

10										
	Sa	aline		Hydro	ocollo	bid		Mean Difference	Mean Di	fference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed	1, 95% CI
Neill 1989	30	0	11	0.3	0	17		Not estimable	3	
Total (95% CI)			11			17		Not estimable	Ð	
Heterogeneity: Not ap	plicable								-100 -50	
Test for overall effect:	Not app	licab	le						Favours experimental	

Figure 350: Saline versus hydrocolloid dressing – median days to healing

-	Sa	aline	-	Hydr	ocollo	bid	•	Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Xakellis 1992	11	0	21	9	0	18		Not estimable	3
Total (95% CI)			21			18		Not estimable	
Heterogeneity: Not ap Test for overall effect:			le						-100 -50 0 50 100 Favours experimental Favours control

Figure 351: Saline versus hydrocolloid dressing – proportion of patients with pain at dressing removal

	Salin	e	Hydroco	biollo		Peto Odds Ratio	Peto Odds Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fixe	ed, 95% Cl		
Chang 1998	0	17	7	17	100.0%	0.09 [0.02, 0.45]				
Total (95% CI)		17		17	100.0%	0.09 [0.02, 0.45]				
Total events	0		7							
Heterogeneity: Not ap	plicable						0.01 0.1 1	10 100		
Test for overall effect:	Z= 2.92	(P = 0.0	003)					Favours hydrocolloid		

Figure 352: Saline versus hydrocolloid dressing – median pain score

-	Sa	aline	-	Hydr	ocollo	bid	-	Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I IV, Fixed, 95% CI
Matzen 1999	2	0	15	2	0	17		Not estimable	3
Total (95% CI)			15			17		Not estimable	•
Heterogeneity: Not ap Test for overall effect:			le						-100 -50 0 50 100 Favours experimental Favours control

Figure 353: Saline versus hydrocolloid dressing – proportion of patients with discomfort

	Salin	e	Hydroco	bloid		Peto Odds Ratio	Peto Odds Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fixe	ed, 95% CI		
Chang 1998	0	17	9	17	100.0%	0.07 [0.02, 0.32]				
Total (95% CI)		17		17	100.0%	0.07 [0.02, 0.32]				
Total events	0		9							
Heterogeneity: Not ap	plicable						0.01 0.1	10 100		
Test for overall effect:	Z= 3.45 ((P = 0.0	006)					Favours hydrocolloid		

Figure 354: Saline versus hydrocolloid dressing – median comfort score

0													
	Sa	aline		Hydro	ocollo	bid		Mean Difference		Mean D	ifference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	1	IV, Fixe	d, 95% CI		
Matzen 1999	3	0	15	4	0	17		Not estimable	3				
Total (95% CI)			15			17		Not estimable	9				
Heterogeneity: Not ap	plicable								-100	-50		0	100
Test for overall effect.	Not app	licab	le							experimental		-	

Figure 355: Saline versus hydrocolloid dressing – proportion of patients with an infection

	Salir	ie	Hydroco	biolic		Peto Odds Ratio	Peto Od	lds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	l Peto, Fixe	ed, 95% CI
Chang 1998	0	17	0	17		Not estimable	3	
Total (95% CI)		17		17		Not estimable	,	
Total events	0		0					
Heterogeneity: Not ap	pplicable						0.01 0.1	1 10 100
Test for overall effect	Not appli	cable					Favours experimental	

Figure 356: Saline versus hydrocolloid dressing – median smell score

	Sa	aline		Hydro	ocollo	bid		Mean Difference		Mean Di	fference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	I, 95% CI	
Matzen 1999	2	0	15	2	0	17		Not estimable	1			
Total (95% CI)			15			17		Not estimable				
Heterogeneity: Not ap									-100	-50	50	100
Test for overall effect:	Not app	licab	le					1	Favours	experimental	Favours co	

Figure 357: Saline versus hydrocolloid dressing – proportion of patients with skin irritation

-	Salin	e	Hydroco	bloid	-	Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fixed, 95% CI
Neill 1989	0	50	9	50	100.0%	0.11 [0.03, 0.44]	
Total (95% CI)		50		50	100.0%	0.11 [0.03, 0.44]	•
Total events	0		9				
Heterogeneity: Not ap	plicable						0.002 0.1 1 10 500
Test for overall effect:	Z = 3.13 ((P = 0.0	02)				Favours saline Favours hydrocolloid

Study or Subgroup	Salin Events		Hydroco			Risk Ratio	Risk Ratio
Study or Subaroup	Events	Total	E				
			Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Chang 1998	0	17	0	17		Not estimable	
Hollisaz 2004	0	27	0	28		Not estimable	
Matzen 1999	1	15	2	17	77.7%	0.57 [0.06, 5.64]	
Xakellis 1992	3	21	0	18	22.3%	6.05 [0.33, 109.75]	
Total (95% CI)		80		80	100.0%	1.79 [0.38, 8.46]	
Total events	4		2				
Heterogeneity: Chi ² = 1	.64, df =	1 (P = 0	0.20); l ² = 3	39%			
Test for overall effect: 2	Z = 0.73 (I	P = 0.4	7)				0.01 0.1 1 10 100 Favours saline Favours hydrocolloi

Figure 358: Saline versus hydrocolloid dressing - mortality

I.2.7.2 Saline vs. hydrogel dressing

Figure 359: Saline versus hydrogel dressing – proportion of patients completely healed Saline Hydrogel **Risk Ratio Risk Ratio** Study or Subgroup Events Total Events Total Weight M-H, Fixed, 95% CI M-H, Fixed, 95% CI Thomas 1998 9 14 10 16 100.0% 1.03 [0.60, 1.77] Total (95% CI) 14 16 100.0% 1.03 [0.60, 1.77] Total events 9 10 Heterogeneity: Not applicable 0.1 0.2 0.5 1 ż \$ 10 Test for overall effect: Z = 0.10 (P = 0.92) Favours hydrogel Favours saline

Figure 360: Saline versus hydrogel dressing – proportion of patients worsened

	Salin	e	Hydro	gel		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Thomas 1998	1	19	1	22	100.0%	1.16 [0.08, 17.28]	
Total (95% CI)		19		22	100.0%	1.16 [0.08, 17.28]	
Total events	1		1				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z=0.11	(P = 0.9	2)				Favours saline Favours hydrogel

Figure 361: Saline versus hydrogel dressing – mean weeks to healing

0				<u> </u>					0
	S	aline		Hyo	droge	el 🛛		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Thomas 1998	5.2	2.4	14	5.3	2.3	16	100.0%	-0.10 [-1.79, 1.59]	
Total (95% CI)			14			16	100.0%	-0.10 [-1.79, 1.59]	-
Heterogeneity: Not ap Test for overall effect:			0.91)						
									Favours hydrogel Favours saline

Figure 362: Saline versus hydrogel dressing - mortality

	Salin	е	Hydro	gel		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Thomas 1998	2	19	4	22	100.0%	0.58 [0.12, 2.82]	
Total (95% CI)		19		22	100.0%	0.58 [0.12, 2.82]	
Total events	2		4				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.68 (I	P = 0.5	0)				Favours saline Favours hydrogel

I.2.7.3 Phenytoin vs. saline

Figure 363: Phenytoin versus saline – proportion of patients completely healed

0				•			
	Phenytoin		Saline			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	11	28	8	27	100.0%	1.33 [0.63, 2.78]	
Total (95% CI)		28		27	100.0%	1.33 [0.63, 2.78]	
Total events	11		8				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z=0.75	(P = 0.4	6)				Favours saline Favours phenytoin

Figure 364: Phenytoin versus saline - mortality

	Phenytoi	in	Salin	е		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events T	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI
Hollisaz 2004	0	28	0	27		Not estimable	
Subbanna 2007	0	14	0	14		Not estimable	
Total (95% CI)		42		41		Not estimable	
Total events	0		0				
Heterogeneity: Not app	plicable						
Test for overall effect:	Not applicab	ole				F	0.01 0.1 1 10 100 Favours phenytoin Favours saline

I.2.7.4 Saline vs. foam dressing

Figure 365: Saline versus foam dressing – proportion of patients completely healed

	Salin	e	Foar	n		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Kraft 1993	3	14	10	24	45.3%	0.51 [0.17, 1.56]	
Payne 2009	6	16	10	20	54.7%	0.75 [0.35, 1.62]	
Total (95% CI)		30		44	100.0%	0.64 [0.34, 1.22]	•
Total events	9		20				
Heterogeneity: Chi ² =	0.31, df=	1 (P =	0.58); I ^z :	= 0%			0.01 0.1 1 10 100
Test for overall effect:	Z=1.35 ((P = 0.1	8)				Favours foam Favours saline

Figure 366: Saline versus foam dressing – median days to 50% healing

-	S	aline		F	oam	-		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Payne 2009	28	0	16	28	0	20		Not estimable	1
Total (95% CI)			16			20		Not estimable	
Heterogeneity: Not ap Test for overall effect:			le					F	-100 -50 0 50 100 Favours experimental Favours control

Figure 367: Saline versus foam dressing - mortality

	Salin	е	Foar	n		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Kraft 1993	2	14	0	24	12.3%	8.33 [0.43, 162.13]	
Payne 2009	2	16	3	20	87.7%	0.83 [0.16, 4.40]	
Total (95% CI)		30		44	100.0%	1.76 [0.49, 6.34]	-
Total events	4		3				
Heterogeneity: Chi ² =	1.83, df =	1 (P = 0	0.18); l ² =	45%			0.01 0.1 1 10 100
Test for overall effect:	Z = 0.86 (I	P = 0.3	9)				Favours saline Favours foam

I.2.7.5 Saline vs. polyurethane dressing

Figure 368:	Saline ve	rsus	polyure	thane	dressin	g – proportion o	of ulcers completely healed
	Salir	le	Polyuret	thane		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	b Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fixed, 95% CI
Oleske 1986	0	10	1	9	100.0%	0.12 [0.00, 6.14]	
Total (95% CI)		10		9	100.0%	0.12 [0.00, 6.14]	
Total events Heterogeneity: Not Test for overall effe		(P = 0.2	1 29)			F	0.001 0.1 1 10 1000 avours polyurethane Favours saline

Figure 369: Saline versus polyurethane dressing – proportion of ulcers worsened

	Saline		Polyurethane			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Oleske 1986	2	10	1	9	100.0%	1.80 (0.19, 16.66)	
Total (95% CI)		10		9	100.0%	1.80 [0.19, 16.66]	
Total events	2		1				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z=0.52	(P = 0.6	60)				Favours saline Favours polyurethane

I.2.7.6 Saline vs. dextranomer

Figure 370: Saline versus dextranomer – proportion of ulcers improved

-	Gauz	e	Dextran	omer		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Ljungberg 2009	2	15	11	15	100.0%	0.18 (0.05, 0.68)	
Total (95% CI)		15		15	100.0%	0.18 [0.05, 0.68]	•
Total events	2		11				
Heterogeneity: Not ap	plicable						0.001 0.1 1 10 1000
Test for overall effect:	Z= 2.52 ((P = 0.0)1)			F	Favours dextranomer Favours gauze

Figure 371: Saline versus dextranomer – proportion of people with adverse events

	Gauz	е	Dextran	omer		Peto Odds Ratio	Peto Oc	dds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fix	ed, 95% Cl
Ljungberg 2009	0	15	0	15		Not estimable		
Total (95% CI)		15		15		Not estimable		
Total events	0		0					
Heterogeneity: Not app	olicable						0.01 0.1	
Test for overall effect:	Not applic	able					Favours gauze	1 10 100 Favours dextranome

I.2.7.7 Phenytoin vs. saline

Figure 372: Phenytoin versus saline – proportion of patients completely healed

	Phenytoin		Saline			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	11	28	8	27	100.0%	1.33 [0.63, 2.78]	
Total (95% CI)		28		27	100.0%	1.33 [0.63, 2.78]	
Total events	11		8				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z=0.75	(P = 0.4	6)				Favours saline Favours phenytoin

sites							
	Pheny	toin	Salin	ie		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	12	30	8	30	100.0%	1.50 [0.72, 3.14]	-
Total (95% CI)		30		30	100.0%	1.50 [0.72, 3.14]	◆
Total events Heterogeneity: Not ap Test for overall effect:		(P = 0.2	8)				0.01 0.1 1 10 100 Favours saline Favours phenytoin

Figure 373: Phenytoin versus saline – proportion of ulcers completely healed (all grades – all sites)

Figure 374: Phenytoin versus saline – proportion of ulcers completely healed (grade I – all sites)

silesj							
	Pheny	toin	Salin	ie		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	2	9	5	11	100.0%	0.49 [0.12, 1.95]	
Total (95% CI)		9		11	100.0%	0.49 [0.12, 1.95]	
Total events	2		5				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 1.01	(P = 0.3	31)				Favours saline Favours phenytoin

Figure 375: Phenytoin versus saline – proportion of ulcers completely healed (grade II – all sites)

	Phenytoin		Saline		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	10	21	3	19	100.0%	3.02 [0.97, 9.35]	-
Total (95% CI)		21		19	100.0%	3.02 [0.97, 9.35]	◆
Total events	10		3				
Heterogeneity: Not ap	plicable						0.002 0.1 1 10 500
Test for overall effect:	Z=1.91	(P = 0.0)	6)				Favours saline Favours phenytoin

Figure 376: Phenytoin versus saline – proportion of ulcers completely healed (all grades – sacral)

sacialj								
	Pheny	toin	Salin	ie		Risk Ratio	Risk Ratio	
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Hollisaz 2004	2	5	4	8	100.0%	0.80 [0.22, 2.87]		
Total (95% CI)		5		8	100.0%	0.80 [0.22, 2.87]	-	
Total events	2		4					
Heterogeneity: Not ap	plicable							
Test for overall effect: Z = 0.34 (P = 0.73) 0.01 0.1 1 10 Favours saline Favours pher								

Figure 377: Phenytoin versus saline – proportion of ulcers improved

-	Phenyt	toin	in Saline		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	16	30	13	30	100.0%	1.23 [0.73, 2.09]	
Total (95% CI)		30		30	100.0%	1.23 [0.73, 2.09]	-
Total events	16		13				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z=0.77	(P = 0.4	4)				Favours saline Favours phenytoin

		icity to it		as sunn	C PI	000100		icheu -
	Phenytoin			Salin	ie		Risk Ratio	Risk Ratio
	Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
-	Hollisaz 2004	2	30	9	30	100.0%	0.22 [0.05, 0.94]	
	Total (95% CI)		30		30	100.0%	0.22 [0.05, 0.94]	
	Total events	2		9				
	Heterogeneity: Not ap	oplicable						
	Test for overall effect:	Z= 2.04	(P = 0.0	14)				Favours phenytoin Favours saline

Figure 378: Phenytoin versus saline – proportion of ulcers worsened

Figure 379: Phenytoin versus saline – mean percentage reduction in ulcer size

	Phenytoin			Saline				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Subbanna 2007	47.83	20.94	12	36.03	17.63	14	100.0%	11.80 [-3.22, 26.82]	
Total (95% CI)			12			14	100.0%	11.80 [-3.22, 26.82]	
Heterogeneity: Not ap					-20 -10 0 10 20				
Test for overall effect:	Z=1.54	(P = 0.)	12)						Favours saline Favours phenytoin

Figure 380: Phenytoin versus saline – mean percentage reduction in ulcer volume

	0 1							•		
		Phe	enytoir	n	Saline				Mean Difference	Mean Difference
	Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
-	Subbanna 2007	53.94	31.2	12	55.76	27.75	14	100.0%	-1.82 [-24.69, 21.05]	
	Total (95% CI)			12			14	100.0%	-1.82 [-24.69, 21.05]	
	Heterogeneity: Not ap									-50 -25 0 25 50
	Test for overall effect	Z = 0.16	(P = 0).88)						Favours saline Favours phenytoin

Figure 381: Phenytoin versus saline – mean percentage reduction in PUSH score

Study or Subgroup Mean SD Total Mean SD Total Mean SD Total Mean SD Total Weight IV, Fixed, 95% CI IV, Fixed, 95% CI			
Subbanna 2007 19.53 17.7 12 11.39 11.09 14 100.0% 8.14 [-3.44, 19.72] Total (95% CI) 12 14 100.0% 8.14 [-3.44, 19.72] 14 Heterogeneity: Not applicable 12 14 100.0% 8.14 [-3.44, 19.72] 14	ince		
Total (95% CI) 12 14 100.0% 8.14 [-3.44, 19.72]	% CI		
Heterogeneity: Not applicable	—		
Heterogeneity: Not applicable			
	10 20		
Test for overall effect: Z = 1.38 (P = 0.17) Favours saline Fav	10 20		

Figure 382: Phenytoin versus saline – proportion of people with treatment-related adverse events

	Phenytoin		saline		Peto Odds Ratio		Peto Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% 0	CI Peto, Fixed, 95% CI	
Subbanna 2007	0	12	0	14		Not estimable	9	
Total (95% CI)		12		14		Not estimable	9	
Total events	0		0					
Heterogeneity: Not app	olicable							100
Test for overall effect:	able					0.01 0.1 1 10 Favours phenytoin Favours salir	100 าย	

Figure 383: Phenytoin versus saline - mortality

Study or Subgroup Petents Total Saline Peto Odds Ratio Peto Odds Ratio Peto Odds Ratio Study or Subgroup Events Total Events Total Weight Peto, Fixed, 95% CI Peto, Fixed, 95% CI Hollisaz 2004 0 28 0 27 Not estimable Peto Odds Ratio Subbanna 2007 0 14 0 14 Not estimable Peto Odds Ratio Total (95% CI) 42 41 Not estimable Peto Odds Ratio Peto Odds Ratio Total events 0 0 0 14 Image: Comparison of the temperature of tempe									
Hollisaz 2004 0 28 0 27 Not estimable Subbanna 2007 0 14 0 14 Not estimable Total (95% Cl) 42 41 Not estimable Total events 0 0 0 Heterogeneity: Not applicable 0 0 0 Test for overall effect: Not applicable 0.01 0.1 1 10 100		Pheny	toin	Salin	e		Peto Odds Ratio	Peto Od	ds Ratio
Subbanna 2007 0 14 0 14 Not estimable Total (95% Cl) 42 41 Not estimable Total events 0 0 Heterogeneity: Not applicable 0 0 Test for overall effect: Not applicable 0.01 0.1 1 10 100	Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	I Peto, Fixe	ed, 95% Cl
Total (95% Cl) 42 41 Not estimable Total events 0 0 Heterogeneity: Not applicable 0.01 0.1 Test for overall effect: Not applicable 0.01 0.1	Hollisaz 2004	0	28	0	27		Not estimable		
Total events 0 0 Heterogeneity: Not applicable 0.01 0.1 1 10 100	Subbanna 2007	0	14	0	14		Not estimable		
Heterogeneity: Not applicable 0.01 0.1 1 10 100	Total (95% CI)		42		41		Not estimable		
Test for overall effect: Not applicable 0.01 0.1 1 10 100	Total events	0		0					
Test for overall effect: Not applicable	Heterogeneity: Not app	plicable							
	Test for overall effect:	able				I	••••		

I.2.7.8 Phenytoin vs. hydrocolloid dressing

Figure 384: Phenytoin versus hydrocolloid dressing – proportion of patients completely healed

0								
	Pheny	toin	Hydrocolloid		Risk Ratio		Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Hollisaz 2004	11	28	20	28	100.0%	0.55 [0.33, 0.92]		
Total (95% CI)		28		28	100.0%	0.55 [0.33, 0.92]	◆	
Total events	11		20					
Heterogeneity: Not ap								
Test for overall effect:	Z= 2.27	(P = 0.0))2)				Favours hydrocolloid Favours phenytoin	

Figure 385: Phenytoin versus hydrocolloid dressing – proportion of ulcers completely healed (all grades – all sites)

	Pheny	toin	Hydroco	biollo		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Hollisaz 2004	12	30	23	31	100.0%	0.54 [0.33, 0.88]	-	
Total (95% CI)		30		31	100.0%	0.54 [0.33, 0.88]	◆	
Total events	12		23					
Heterogeneity: Not ap	plicable						0.01 0.1 1 10	100
Test for overall effect:	Z = 2.50 ((P = 0.0))1)				Favours hydrocolloid Favours phenytoi	

Figure 386: Phenytoin versus hydrocolloid dressing – proportion of ulcers completely healed (grade I – all sites)

(0									
	Phenyt	toin	Hydroco	biollo		Risk Ratio	Risk F	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	i, 95% Cl	
Hollisaz 2004	2	9	11	13	100.0%	0.26 [0.08, 0.91]			
Total (95% CI)		9		13	100.0%	0.26 [0.08, 0.91]	\bullet		
Total events	2		11						
Heterogeneity: Not app	plicable						0.01 0.1 1	10 10	7
Test for overall effect: 2	Test for overall effect: Z = 2.11 (P = 0.0						Favours hydrocolloid		0

Figure 387: Phenytoin versus hydrocolloid dressing – proportion of ulcers completely healed (grade II – all sites)

.0								
	Phenyt	toin	Hydroco	biollo		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 959	6 CI
Hollisaz 2004	10	21	12	18	100.0%	0.71 [0.41, 1.24]	-	
Total (95% CI)		21		18	100.0%	0.71 [0.41, 1.24]	•	
Total events	10		12					
Heterogeneity: Not ap	plicable						0.01 0.1 1	10 100
Test for overall effect:	Z=1.19((P = 0.2	23)				Favours hydrocolloid Favo	

Figure 388: Phenytoin versus hydrocolloid dressing – proportion of ulcers completely healed (all grades - sacral)

ູດແຮເດ		aciaij					
	Pheny	toin	Hydroco	biollo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hollisaz 2004	4	8	4	7	100.0%	0.88 [0.34, 2.25]	
Total (95% CI)		8		7	100.0%	0.88 [0.34, 2.25]	-
Total events	4		4				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.28 ((P = 0.7	'8)				Favours hydrocolloid Favours phenytoin

Figure 389: Phenytoin versus hydrocolloid dressing – proportion of ulcers improved

	Pheny	Phenytoin Hydr				Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI			
Hollisaz 2004	16	30	27	31	100.0%	0.61 [0.43, 0.88]				
Total (95% CI)		30		31	100.0%	0.61 [0.43, 0.88]	◆			
Total events	16		27							
Heterogeneity: Not ap	oplicable									
Test for overall effect:	Z= 2.66	(P = 0.0)	(80				Favours hydrocolloid Favours phenytoin			

Figure 390: Phenytoin versus hydrocolloid dressing – proportion of ulcers worsened

	Phenyt	nytoin Hydrocolloid				Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	I, 95% CI		
Hollisaz 2004	2	30	2	31	100.0%	1.03 [0.16, 6.87]				
Total (95% CI)		30		31	100.0%	1.03 [0.16, 6.87]				
Total events	2		2							
Heterogeneity: Not ap	plicable						0.01 0.1 1	10	100	
Test for overall effect:	Z=0.03	(P = 0.9	37)				Favours phenytoin	Favours hydro		

Figure 391: Phenytoin versus hydrocolloid dressing – mean days of healing

0								• •	0
	Ph	enytoi	n	Hydr	ocollo	bid		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Rhodes 2001	35.3	14.3	15	51.8	19.6	13	100.0%	-16.50 [-29.38, -3.62]	
Total (95% CI)			15			13	100.0%	-16.50 [-29.38, -3.62]	◆
Heterogeneity: Not ap Test for overall effect:			0.01)						-100 -50 0 50 100 Favours phenytoin Favours hydrocolloid

Figure 392: Phenytoin versus hydrocolloid dressing - mortality

	Pheny	toin	Hydroco	olloid		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I	M-H, Fix	ed, 95%	6 CI	
Hollisaz 2004	0	28	0	28		Not estimable		_	L		
Rhodes 2001	2	18	2	16	100.0%	0.89 [0.14, 5.60]				_	
Total (95% CI)		46		44	100.0%	0.89 [0.14, 5.60]				-	
Total events	2		2								
Heterogeneity: Not ap	plicable						0.01	0.1	<u> </u>	10	100
Test for overall effect:	Z = 0.13 (I	P = 0.90	D)					urs phenytoin	Favou	urs hydro	

I.2.7.9 Phenytoin vs. triple antibiotics

Figure 393:	Phen	ytoi	n ver	sus tri	i <mark>ple</mark> a	antib	iotics -	- mean days to	healing
	Ph	enytoi	n	Triple	antibi	otic		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Rhodes 2001	35.3	14.3	15	53.8	8.5	11	100.0%	-18.50 [-27.31, -9.69]	
Total (95% CI)			15			11	100.0%	-18.50 [-27.31, -9.69]	
Heterogeneity: Not a									-20 -10 0 10 20
Test for overall effect	t Z = 4.12	? (P < (0.0001)						Favours phenytoin Favours triple antibiotic

Figure 394: Phenytoin versus triple antibiotics – proportion of people with treatment-related adverse events

auver		113						
	Pheny	toin	Triple antik	oiotics		Peto Odds Ratio	Peto Oc	lds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% CI	Peto, Fix	ed, 95% Cl
Rhodes 2001	0	15	0	11		Not estimable		
Total (95% CI)		15		11		Not estimable		
Total events	0		0					
Heterogeneity: Not ap Test for overall effect:		able					0.01 0.1 Favours phenytoin	1 10 100 Favours triple antibiotic

Figure 395: Phenytoin versus triple antibiotics - mortality

	Pheny	toin	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Rhodes 2001	2	16	1	13	100.0%	1.63 [0.17, 15.99]	
Total (95% CI)		16		13	100.0%	1.63 [0.17, 15.99]	
Total events	2		1				
Heterogeneity: Not app Test for overall effect:		P = 0.68	8)				0.01 0.1 1 10 100 Favours phenytoin Favours triple antibioti

I.2.7.10 Dialysate vs. placebo

Figure 396: Dialysate versus placebo – mean ml reduction in ulcer area

0									
	Di	alysate		PI	acebo			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Knudsen 1982	13.4	10.02	5	6.57	4.88	3	100.0%	6.83 [-3.54, 17.20]	
Total (95% CI)			5			3	100.0%	6.83 [-3.54, 17.20]	
Heterogeneity: Not ap									-20 -10 0 10 20
Test for overall effect:	Z = 1.29	(P = 0.	20)						Favours placebo Favours dialysate

Figure 397: Dialysate versus placebo – mean healing half-time (days)

	Dia	alysate	•	P	lacebo			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Knudsen 1982	8.52	2.36	5	24	18.43	3	100.0%	-15.48 [-36.44, 5.48]	
Total (95% CI)			5			3	100.0%	-15.48 [-36.44, 5.48]	-
Heterogeneity: Not ap			115						-100 -50 0 50 100
Test for overall effect:	∠ = 1.45) (P = (J.15)						Favours dialysate Favours placebo

Figure 398: Dialysate versus placebo – proportion of people with treatment-related adverse events

CVCIIIU								
	Dialys	ate	Place	bo		Peto Odds Ratio	Peto Odds I	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	I Peto, Fixed, 9	€5% CI
Knudsen 1982	0	5	0	3		Not estimable		
Total (95% CI)		5		3		Not estimable		
Total events	0		0					
Heterogeneity: Not app	olicable							
Test for overall effect:	Not applic	able					0.01 0.1 1 Favours dialysate Fa	10 100 vours placebo

I.2.7.11 Topical ointment with petrolatum vs. petrolatum (base component)

Figure 399: Topical ointment with petrolatum versus petrolatum (base component) – proportion of patients completely healed – grade 1 and 2 pressure ulcers

Figure 400: Topical ointment with petrolatum versus petrolatum (base component) – proportion of patients completely healed – grade 2 pressure ulcers

	Ointmo	ent	Petrola	tum		Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% Cl
Kuflik 2001	1	5	0	3	100.0%	4.95 [0.09, 283.86]	
Total (95% CI)		5		3	100.0%	4.95 [0.09, 283.86]	
Total events	1		0				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.77 (I	^D = 0.4	4)				Favours ointment Favours petrolatum

Figure 401: Topical ointment with petrolatum versus petrolatum (base component) – proportion of patients improved – grades 1 and 2 pressure ulcers

P. 0 P 0.			p			00 I ana I proco	
	Ointment		Petrolatum			Peto Odds Ratio	Peto Odds Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% C	CI Peto, Fixed, 95% CI
Kuflik 2001	4	10	0	9	100.0%	9.78 [1.14, 83.93]]
Total (95% CI)		10		9	100.0%	9.78 [1.14, 83.93]	
Total events	4		0				
Heterogeneity: Not applicable							+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
Test for overall effect:	4)				Favours petrolatum Favours ointment		

Figure 402: Topical ointment with petrolatum versus petrolatum (base component) – proportion of patients improved – grades 2 pressure ulcers

	Ointment		Petrolatum			Peto Odds Ratio	Peto Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	Peto, Fixed, 95% Cl	Peto, Fixed, 95% CI	
Kuflik 2001	3	5	0	3	100.0%	9.39 [0.59, 149.25]		
Total (95% CI)		5		3	100.0%	9.39 [0.59, 149.25]		
Total events	3		0					
Heterogeneity: Not ap	olicable							100
Test for overall effect:	Z = 1.59 (P = 0.1	1)			0.01 0.1 1 10 100 Favours ointment Favours petrolatum		