Appendix 15: Evidence tables for economic studies

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Pharmacological interventions

Study,	Intervention	Study population	Study type	Costs: description and values	Results: cost	Comments
year and	details	Setting		Outcomes: description and	effectiveness	Internal validity
country		Study design – data		values		(Yes/No/NA)
		source				Industry support
Benedicte	Comparators:	The treatment of	Cost-utility	<u>Costs:</u> direct medical costs: GP	Compared with	Perspective: national
<i>et al.,</i> 2010		patients with MDD	analysis	visits for mental health reasons,	mirtazapine and SSRIs,	health service
– Eli Lilly	Duloxetine	who failed on first-line		psychiatrists' visits,	duloxetine produced	
	60 to 120 mg	SSRIs was modeled		hospitalisations and A&E visits	additional benefits at	Currency: UK pound
Scotland	per day			and drug costs.	higher costs leading to	sterling
		Two patient groups			ICERs of approx. 2,400	Cost year: not mentioned
	SSRIS as a	considered (two		<u>Outcomes:</u> QALYs	and 6,300/ QALY. If	<u>Time horizon:</u> 1 year
	group	settings differed in			the willingness to pay	
		efficacy data, drug		Average baseline utility score of	per QALY gained is	Discounting: not
	Venlafaxine	dose and resource		all patients: 0.48.	below £5,000, SSRIs are	mentioned, though not
	XR	utilisation):		Remitters: 0.79 (0.48+0.31)	the preferred treatment	relevant
				Responders: 0.68 (0.48+0.20)	choice. Above that	
	Mirtazapine	1. Those with moderate		Non-responders: 0.55 (0.48+0.07)	value duloxetine is the	Funded by Eli Lilly.
		to severe MDD		Dropouts: 0.53 (0.48+0.05)	preferred option in the	
		(HAMD-17 score=>19)		(Eli Lilly, HMBU trial, data on	base case. At NICE	
		likely to start new		file)	willingness to pay	
		treatment episode in			threshold of £20,000,	

primary care	Remission and staying in	duloxetine would be	
(duloxetine compared	remission	the preferred option for	
with SSRIs as a group;	without treatment = 0.86 (Revicki	treatment of MDD in	
that is, venlafaxine XR	& Wood, 1998)	primary care.	
+ mirtazapine)		1 5	
1 /		The model was	
Primary care		sensitive to unilateral	
		changes in key efficacy	
Source of clinical		parameters Resource	
effectiveness data:		use and cost	
cycle 1 to 8 weeks		parameters were not	
duloxetine - all active		sensitive in their 95%	
comparator dulovetine		CI	
RCTs were pooled			
n=2400 from Fli Lilly			
data on file			
data on me			
SSRIe - ad hoc analysis			
at 8 wooks of pooled			
nationts in 6			
comparator PCTs of			
dulovatino			
(These stal = 2007)			
Swindle et al. 2007,			
Swindle et u., 2004; and			
uata on file)			
Verlefering XP			
Veniaraxine AK –			
I wo head-to-head			

trials, n=337 (Perahia <i>et al.</i> , 2007) Mirtazapine – meta- analysis (Stahl <i>et al.</i> , 1997)		
Second and subsequent cycles: Two venlafaxine XR versus duloxetine trials with 12 weeks first follow-up.		
SSRI and mirtazapine rates assumed to be weighted average of duloxetine and duloxetine rates		
Source of resource use <u>estimates:</u> Literature and Scottish physician panel, UK practising GPs		
Source of unit costs: Drug costs were based on daily defined doses		

		(WHO) and market				
		share data.				
Benedicte	Comparators:	Treatment of patients	Cost-utility	Costs: direct medical costs: GP	The QALY benefit with	Perspective: national
et al., 2010		with MDD who failed	analysis	visits for mental health reasons,	duloxetine is slightly	health service
– Eli Lilly.	Duloxetine	on first-line SSRIs was		psychiatrists' visits,	greater compared to	
		modeled:		hospitalisations and A&E visits	venlafaxine than in the	<u>Currency:</u> UK pound
Scotland	Venlafaxine			and drug costs.	primary care scenario.	Cost year: not stated
	XR	2. those with $=> 25$ on			It is still achieved at	<u>Time horizon:</u> 1 year
		HAMD-17, likely to be		<u>Outcomes:</u> QALYs	lower costs, making	Discounting: not
	Mirtazapine	referred to secondary			duloxetine the	mentioned; however, not
		care		Average baseline utility score of	dominant treatment	relevant
				all patients: 0.48.	choice. The same	
		<u>Setting:</u> secondary care		Remitters: 0.79 (0.48+0.31)	relationship holds for	Funded by Eli Lilly.
				Responders: 0.68 (0.48+0.20)	mirtazapine	
		Two settings differed		Non-responders: 0.55 (0.48+0.07)		
		in efficacy data, drug		Dropouts: 0.53 (0.48+0.05)	In the secondary care	
		dose and resource		[Eli Lilly, HMBU trial, data on	setting the model was	
		utilisation		file]	less sensitive to	
					changes given the	
		Source of clinical		Remission and staying in	greater advantage in	
		effectiveness data:		remission	efficacy data point	
		duloxetine, venlafaxine		without treatment = 0.86 (Revicki	estimates. However,	
		XR - two head-to-head		& Wood, 1998)	the model was sensitive	
		trials (Perahia <i>et al.,</i>			to drug relapse rates.	
		2007)			The CEAC from the	
					probabilistic analysis	
		Mirtazapine – in the			shows a higher	
		absence of related data-			likelihood for	

		mean difference bet the			duloxetine to be cost-	
		less severe and the			effective over the whole	
		more severe population			range of willingness to	
		in the trial was applied			pay values.	
		to mirtazapine rates			1 0	
		used in primary care				
		setting (not reported)				
		8(1 1				
		Source of resource use				
		estimates:				
		Scottish Psychiatrists				
		Panel				
		Source of unit costs:				
		Drug costs were based				
		on daily defined doses				
		(WHO) and market				
		share data				
Borghi &	Comparators:	Patients in the UK	Cost-	Costs: included hospitalisation.	Mirtazapine was found	Perspective: NHS
Guest, 2000	<u>comparatoron</u>	with moderate and	effectiveness	GP visits, visits to psychiatrists.	to be dominant	including lost
00000	Mirtazapine	severe depression, and	analysis	antidepressant and concomitant	compared with	productivity
UK	1.111 tullup 11.te	within the age range 18	uluiyele	medication, community	amitriptyline. It both	Currency: UK pound
011	Amitriptyline	to 93 years	Modelling	psychiatric nurse visits.	reduced the expected	sterling
	1 minut p t y mite	to so years	inouching	community mental health team	direct NHS costs by £35	Cost year: 1997-1998
	Fluoxetine	Primary care and		visits and attendance at day	ner natient and	Time horizon: 6/7 months
	1 Idoxeenie	hospital		warde	increased the	Discounting: po
		nooptui		marab	proportion of	discounting
		Source of clinical		The cost of managing a patient	successfully treated	abcounting
	1	Source of chinear	1	inc cost or managing a patient	succession in a conce	1

		effectiveness data:		who discontinued antidepressant	patients from 19.2 to	Funded by Organon Ltd
		meta-analysis of four		treatment ranged from £50 to £504	23.2%. However, this	
		RCTs		over 5 months. The cost of	result was sensitive to	Internal validity (26/3/3)
				management with mirtazapine	the cost of managing	
		Source of resource use		was £413 per patient over 7	adverse events. When	
		estimates: established		months, compared with £448 for	compared with	
		retrospectively from		amitriptyline	fluoxetine, mirtazapine	
		interviewing a panel of			increased the	
		ten GPs and three		The cost of management with	proportion of	
		psychiatrists		mirtazapine was £420 per patient	successfully treated	
				over 6 months, compared with	patients from 15.6 to	
		Source of unit costs:		£394 for fluoxetine	19.1% but at an	
		published literature.			additional cost of £27	
				Outcomes: Successfully treated	per patient. Sensitivity	
				patients (HRSD 17 <= 7 or	analysis revealed three	
				reduction in HRSD $17 \ge 50\%$).	factors to which this	
					result was sensitive.	
Fernandez	Intervention:	Outpatients aged 18 to	Cost-utility	Direct costs: included physician	The incremental cost-	Perspective: those of the
<i>et al.,</i> 2005	escitalopram	85 years who fulfilled	analysis	care, care by ancillary health care	effectiveness analysis	health care payer and
	10 to 20mg	the DSM-IV criteria for	-	personnel, laboratory tests,	was reported via the	society
Study	daily	moderate to severe		clinical examinations and	incremental cost-	
carried out	-	MDD, without suicidal		inpatient care. Health economics	effectiveness ratio	<u>Currency:</u> Euros
in six	Comparator:	tendencies, MADRS		experts provided the prices used.	(ICER) confidence	<u>Cost year:</u> European 2003
European	venlafaxine	total score >18 at		These were based on national	surface. Owing to the	prices were used to
countries	XR	screening, 1 week		sources; except for the UK costs	lack of significant	compute the costs
(Denmark,	75 to 150 mg	before and at the start		were taken from Unit Costs of	differences in the	Discounting: not relevant
Finland,	daily	of treatment		Health and Social Care published	efficacy of the two	because of the short
France,	-			by the University of Kent	drugs, the analysis was	follow-up period. The unit

Germany,	Setting: primary care		not extended to the	costs were adjusted to
Spain and		Total health care costs:	estimation of	2003 values using
the UK).	Effectiveness data	€110/patient escitalopram and	acceptability curves.	inflation rates (Consumer
	derived from a single	€161/patient venlafaxine XR	An analysis of the ICER	Price Index) for each
	study. Costing was	Medication costs: €62	confidence surface	country between 2001 and
	undertaken	escitalopram, €84 venlafaxine XR	demonstrated that	2003
	prospectively on the	The inpatient care costs:	health care costs were	
	same patient sample	€46/patient in venlafaxine XR, in	higher for the	Did not conduct
		escitalopram €0.00.	venlafaxine XR group	sensitivity analysis to
	Randomised, double-	Key cost drivers adjusted,	than for the ESC group,	explore any areas of
	blind, flexible-dose,	escitalopram had statistically	and showed no	uncertainty other than the
	multinational clinical	significantly lower health costs	between-group	inclusion of sick leave
	trial conducted.	than those on venlafaxine XR	difference in the	costs (in order to assess
	Included in trial n=293,	(coefficient -0.34; p=0.007)	improvement of the	the results from a societal
	lack of data for 42		EQ-5D score	perspective)
	patients (n=22	The direct costs for the average		·
	escitalopram, n=20	patient in the sample were 40%	Escitalopram is as	Funded by Lundbeck
	venlafaxine XR). n=251	higher with venlafaxine XR than	effective as venlafaxine	A/S.
	evaluated (n=126	with escitalopram (95% CI: 10 to	in the treatment of	
	escitalopram; n=125	81)	MDD and may be	
	venlafaxine XR). 8-		associated with lower	
	week first follow-up.	Analysis of effectiveness	costs from a societal	
	At 8 weeks, n=245	conducted on the basis of	and health care budget	
	reported valid cost	treatment completers only	perspective.	
	information (four			
	escitalopram and two	Primary health outcome: QLDS		
	venlafaxine XR lost	scores. Mean QLDS scores		
	relative to the pre-	decreased from 18.6 to 12.4 for		

		study pariod) Hanco		ascitatopram (n<0.01) and from		
		study period). Hence,		18.8 to 12.1 for world faving VD		
				(a < 0.01)		
		comprised n=122		(p<0.01)		
		escitalopram, n=123				
		venlafaxine XR.		No statistically significant		
				differences were observed		
				between the groups		
				The measure of benefit used was		
				the EO-5D scores. The mean		
				scores improved from 0.52 to 0.78		
				for escitalopram (p<0.01) and		
				from 0.54 to 0.77 for venlafavine		
				XR (p < 0.01) No statistically		
				significant differences were		
				observed between the treatment		
				groups		
Van driele at	Commentance	A dulta dia anagad with	Cost	Costs: It included the costs of	The incremental cost	Doronostivo hoolth corrigo
	<u>Comparators.</u>	Adults diagnosed with	COSI-	<u>Costs.</u> It included the costs of	The incremental cost	reispective. health service
<i>u</i> ., 2006	CCDL	depression. Fatients	enectiveness	drugs, visits to GFs at surgery,	per depression-free	
	55KIS -	accepting	analysis	contacts with GP by telephone,	week gained was £32	<u>Currency:</u> UK pound
UK	dosage varied	antidepressant		nome visits by GPs, contacts with	with SSRIs over TCAs,	sterling
	with drug.	treatment were also	Cost-utility	practice nurse at surgery, home	£59 with SSRIs over	Cost year: 2001/2002
	Daily dose of	eligible, including	analysis	visits by district nurse, contacts	lotepramine, and £183	<u>Time horizon:</u> 12 months
	fluoxetine	those with comorbid		with community psychiatric	with TCAs over	Discounting: not relevant
	was 20 mg	physical or mental		nurses, visits to counsellor,	lofepramine. The CEAC	
	throughout.	illness and those aged		attendance at day centre,	showed statistically	Funded by Health
	For	over 65 years		attendance at non-psychiatric	non significant	Technology Assessment
	paroxetine,	-		hospital clinic, contacts with	differences in benefits	Programme of the UK

the daily dose	UK primary care	psychiatrist, visits to accident and	and costs	NHS Research and
was 20 mg,		emergency department,		Development Directorate.
increasing to	Source of clinical	psychiatric inpatient stay, and	The incremental cost	_
30 mg after	effectiveness data:	inpatient stays	per QALY gained was	
3 weeks and	RCT, n= 327; n=92		£5,686 with SSRIs over	
to a	patients were	The expected mean 1-year costs	lofepramine and	
maximum of	prescribed a different	per patient were £762 (+/- £1136)	£2,692 with SSRIs over	
40 mg after 6	class of antidepressant.	(median £359; 95% CI: 553 to	TCAs, while TCAs	
weeks. For		1059) in the TCA group, £875 (+/-	were dominant in	
sertraline, the	Source of resource use	1566) (median £503; 95% CI: 675	comparison with	
daily dose	estimates: carried out	to 1355) in the SSRI group and	lofepramine	
was 50 mg,	prospectively directly	£867 (+/-1907) (median £384; 95%		
increasing	from the clinical	CI: 634 to 1521) in the lofepramine	Authors' conclusions:	
after 3 weeks	records of patients	group	analysis showed a lack	
to 100 mg	included in the		of statistically	
and after 6	effectiveness study	Costs in all prescriptions and in	significant differences	
weeks to a		antidepressant prescriptions only	in costs and benefits	
maximum of	Source of unit costs:	were significantly different	among the three	
150 mg.	derived from several	between the groups (with higher	treatments considered	
	published sources,	figures in the SSRI group), but	for patients with	
TCAs –	including cost studies	differences in the total costs did	depression in primary	
varied with	and typical NHS	not reach statistical significance,	care. Rough estimates	
age. For	sources	(p=0.09)	of cost effectiveness	
patients aged			suggested that SSRIs	
between 18		Outcomes: The primary clinical	might be the most cost-	
and 65 years,		measure was the number of	effective strategy.	
the daily dose		weeks free from depression,		
was 50 mg,		defined as a score < 8 on the	The study results	

	rising in 25-			HADS-D. Quality of life also	support the NICE	
	mg weekly			measured with EuroQol EQ-5D	guidelines on	
	steps to a			questionnaire	depression which	
	maximum of				recommend SSRIs as	
	150 mg. For			The number of disease-free weeks	first-choice	
	patients older			was obtained directly from the	antidepressants in	
	than 65 years,			effectiveness analysis. The QALYs	primary care.	
	the daily dose			were estimated by applying a		
	was 25 mg,			tariff of health state values, based		
	rising in 25-			on a representative UK sample, to		
	mg weekly			the utility scores from the EQ-5D		
	steps to a					
	maximum of			The numbers of depression-free		
	120 mg			weeks over 12 months (based on		
	_			repeated measures analysis of		
	Lofepramine:			variance) were 35.5 for the TCA		
	70 mg daily,			group, 36.6 for the SSRI group		
	rising in			and 34.8 for the lofepramine		
	weekly 70-mg			group. The differences were not		
	steps in			statistically significant. The		
	divided doses			average numbers of QALYs,		
	to a			adjusted for baseline EQ-5D, were		
	maximum of			0.55 (95% CI: 0.48 to 0.61) for the		
	210 mg.			TCA group, 0.59 (95% CI: 0.52 to		
	-			0.64) for the SSRI group and 0.55		
				(95% CI: 0.49 to 0.61) for the		
				lofepramine group.		
Kendrick et	Comparators:	Mild to moderate	Cost-	Costs: Inpatient admissions,	Costs were slightly	Perspective: NHS

al., 2009	SSRI	depression in patients	effectiveness	Outpatient consultations, all	higher in the SSRI plus	
	treatment	with somatic	analysis	forms of GP contacts, practice,	supportive care arm,	Currency: UK pound
UK	plus	symptoms. At the		district, community mental	but not statistically	sterling
	supportive	baseline assessment,		health and other nurse contacts,	significantly different.	<u>Cost year:</u> 2006–07
	care	they scored between		health visitor contacts, counsellor	Incremental cost-	Time horizon: 26 weeks
		12 and 19 on the 17-		contacts,	effectiveness ratios and	Discounting, none
	versus	HRSD		complementary health care,	cost-effectiveness	-
				psychologist, occupational	planes suggested that	Funded by NIHR Health
	supportive	Primary care		therapist, social worker, housing	adding an SSRI to	Technology Assessment
	care alone			worker, community support	supportive care is	Programme
		Source of clinical		worker, day centre attendance,	probably cost-effective,	
		effectiveness data:		medication (physical), medication	with mean costs of £90	
		a parallel group, open-		(SSRIs) and other medication	per point improvement	
		label, pragmatic		(other mental health)	on the HRSD and	
		randomised controlled			£14,854 per QALY gain.	
		trial		Outcomes: unit improvement in	The CEAC for utility	
				HRSD. The SF-36 was also used to	suggested that adding	
		Source of resource use		calculate quality adjusted life-	an SSRI to supportive	
		estimates:		years (QALYs)	care is cost-effective at	
		Client Service Receipt			the value of £20,000 to	
		Inventory data were			£30,000 per QALY used	
		augmented with data			by NICE, with a 65 to	
		collected from general			75% probability.	
		practice computerised			Informal care	
		medical records			costs were relatively	
					high, given that the	
		Source of unit costs:			patients had only mild	
		published sources.			to moderate	

					depression, but did not	
					differ significantly	
					between arms.	
Romeo et	Comparators:	Patients with	Cost-	Costs: The direct costs consisted	The costs and benefits	Perspective: UK NHS and
al., 2004	Mirtazapine	depression treated in	effectiveness	of health service costs and the	were not combined in	Society
	30 to 45 mg	general practice,	analysis	costs of social services. The health	the form of ICERs	
Scotland	daily	fulfilling DSM-IV	-	service costs were those	because there were no	<u>Currency:</u> UK pound
		criteria for MDD, with		associated with treatment and	significant differences	sterling
	Paroxetine	a baseline score of > 18		concomitant medication, contact	in the costs. In addition,	<u>Cost year:</u> 2001/2002
	20 to 30 mg	on 17-HAMD		with specialists (for example, GPs,	there were no	Time horizon: 24 weeks
	daily			community psychiatric nurses,	significant differences	Discounting: not relevant
		Primary care		physiotherapists and other	in the benefits between	
				healthcare professionals), hospital	the two groups when	Internal Validity: 24/4/7
		Source of clinical		outpatient services, and acute and	the number of HAMD	
		effectiveness data:		long-term inpatient care. The	responders was the	Funded by Organon
		clinical effectiveness		costs of social services were	outcome considered.	Laboratories
		study, Wade and		associated with counselling or	However,	
		colleagues (2003),		social worker services, and police	improvement in quality	
		mirtazapine (n=93),		custody	of life was shown to be	
		paroxetine (n=84)			significantly higher	
				The mean, total NHS cost per	with mirtazapine than	
		Source of resource use		patient was £1408 (SD=1777) in	with paroxetine,	
		estimates: derived from		the mirtazapine group and £1528	(p=0.021). These results	
		actual data collected		(SD=2,022) in the paroxetine	were robust under all	
		alongside the		group. The difference was -£120	scenarios examined in	
		effectiveness study		(95% CI: -750 to +377; p=0.51)	the sensitivity analysis	
		prospectively				
				Outcomes: primary outcome was	The results of the study	

		Source of unit costs: derived from the British National Formulary, the NHS Schedule of Reference costs (outpatient attendances), and published literature (contact with health		change from baseline on the 17- HAMD. Primary measure also expressed as the number of patients classed as HAMD responders (that is, patients with a 50% decrease in the 17- HAMD score from baseline to the assessment point). Secondary outcome also used in the	suggested that, compared with paroxetine, mirtazapine might be a cost- effective treatment for depression in a primary care setting.	
		and community		economic study was the		
		professionals, and		improvement in quality of life, as		
		inpatient services).		assessed using the OLDS		
		I		0~		
				The change in QLDS score from		
				baseline to the 24-week endpoint		
				was 13 in the mirtazapine group		
				and nine in the paroxetine group,		
				(p=0.021).		
Wade <i>et al.,</i>	Comparators:	Adult patients with	Cost-effective	Direct costs: included were drugs	This analysis suggested	Perspective: UK society
2005a	Escitalopram	severe depression	analysis.	(authors noted that there was no	that escitalopram was a	and NHS
	20 mg daily	(MADRS total score =>	-	price difference between	cost-saving alternative	
UK		30)	This analysis	escitalopram 10 mg and	to citalopram for the	<u>Currency:</u> UK pound
	Citalopram		is an	citalopram 20 mg [branded and	treatment of severe	sterling; reported
	40 mg daily	Primary and secondary	adaptation of	generic]), GP and psychiatrist	depression in the UK	conversion rate: £1.00 =
		care	models	visits, inpatient psychiatric		US\$0.62 in January 2003.
			described in	hospitalisations, discontinuation	From both the	All unit costs were
		Source of clinical	three	of treatment, treatment-emergent	NHS and societal	updated using the British
		effectiveness data: a	other studies	adverse events and attempted	perspectives, the	Consumer Price Index

	review of completed	(Borghi et al.,	suicide	relative cost savings	<u>Cost year:</u> 2003
	studies and estimates	2000; Hemels		per treated patient and	
	based on expert	et al., 2004;	Indirect costs: resulting from	per successfully treated	The number of workdays
	opinion	Brown et al.,	absenteeism from work (that is,	patient were 7% and	lost due to severe
	Remission,	1999)	lost productivity)	16%, respectively.	depression was derived
	discontinuation and				from published literature
	response rate at week 8		From the NHS perspective, the	Multivariate sensitivity	(Borghi et al., 2000; Netten
	derived from a meta-		expected total cost per patient	analyses demonstrated	<i>et al.</i> , 2001). The
	analysis of 506 patients		was £422 (range: £404 to £441) for	that in more than 99%	calculation of the societal
	and extrapolated to 6		escitalopram and £454 (range:	of cases, escitalopram	cost of lost productivity
	months (Llorca <i>et al.,</i>		£436 to £471) for citalopram	was dominant at all	was based on the human
	2005)			ranges of probabilities	capital approach, based
			The expected total cost per	tested, indicating the	on mean market wages for
	Source of resource use		successfully treated patient was	robustness of the	the year 2003
	estimates: Estimates for		£786 (range: £702 to £876) for	results.	-
	the		escitalopram and £932 (range:		Discounting: not
	majority of the		£843 to £1028) for citalopram.		undertaken – costs
	resources used and				incurred during less than
	costs were derived		Primary outcome measure:		2 years
	from published		patient treated successfully,		,
	literature		defined as a patient in remission		Time horizon: 6 months
	(Borghi <i>et al.,</i> 2000;		(that is, MADRS score <=12 at		Internal validity: 28/2/5
	Netten <i>et al.</i> , 2001).		week 24)		
	,		,		Funded by H Lundbeck
			Secondary outcome measure: first		A/S.
			line success (that is, remission		
			[MADRS<=12] without switch of		
			drug treatment)		

				Overall success, 53.7% (50.3 to 57.5) for escitalopram and 48.7% (45.8 to 51.7) for citalopram; and first-line success without switch 41.7% (37.5 to 46.3) for escitalopram and 30.8% (27.5 to 34.6) for citalopram.		
Wade,	Comparators:	A hypothetical cohort	Cost-	Direct costs: included drugs, GP	From the NHS	Perspective: NHS and
2005b	Escitalopram	of adult patients (>18	effectiveness	visits, psychiatrist visits, hospital	perspective: In the	societal
	10 to 20 mg	years) with MDD	analysis	and community care (day care,	comparison between	
UK	daily	(baseline MADRS		social work, community nurses)	escitalopram and	<u>Currency:</u> UK pounds
		scores =>18 to <=40)		Resource use was estimated from	citalopram, the cost per	sterling
	Citalopram			published data and expert	successfully treated	<u>Time horizon:</u> 6 months
	generic	Primary care		opinion	patient was £732 (95%	
	20 to 40 mg				CI: 665 to 807) for	Discounting: not relevant
	daily	Source of clinical-		Indirect costs: productivity losses	escitalopram and £933	due to the short time
		effectiveness data:		were included	(95% CI: 850 to 1,023)	frame. The price year was
	Venlafaxine	Meta-analysis of four			for CIT	2003. The costs from other
	XR 75 to 150	studies (n=1472) and		In the comparison between		years were transformed to
	mg daily	from head-to-head		escitalopram and citalopram, the	In the comparison	2003 using the UK
		clinical trials. Authors		expected total costs per patient	between escitalopram	Consumer Price Index
		made some		were £465 (95% CI: 436 to 493) for	and venlafaxine, the	
		assumptions to derive		escitalopram and £544 (95% CI:	cost per successfully	A simultaneous
		the clinical estimates		514 to 573) for citalopram from	treated	comparison of the three
				the NHS perspective.	patient was £546 (95%	treatments could not be
		Source of resource-use			CI: 481 to 618) for	performed because head-
		estimates: General		In the comparison between	escitalopram and £607	to-head trials had not

Practice Research	escitalopram and venlafaxine, the	(95% CI: 542 to 677) for	been published. Thus, two
Database, published	expected total costs per patient	citalopram	parallel analyses were
literature and expert	were £376 (95% CI: 342 to 410) for		carried out in the current
advice	escitalopram and £415 (95% CI:	Incremental cost-	study. However, the
	382 to 449) for citalopram from	effectiveness ratios	authors noted that an
Source of unit costs:	the NHS perspective	were not calculated	indirect comparison
UK cost data.		because escitalopram	would not have changed
	Outcomes: The summary benefit	always dominated both	the conclusions of the
	measure: overall success rate.	citalopram and	analysis
	Other model outputs, such as the	venlafaxine XR, which	
	rate of first-line success (without	were more expensive	Funded by H Lundbeck
	switch), rate of titration, switch	and less effective	A/S
	rate and secondary care rate, were		
	also reported	The sensitivity analysis	Internal validity (28/3/4)
		showed that the base-	
	In the comparison between	case results were	
	escitalopram and citalopram, the	robust to variations in	
	overall success rate was 63.5%	both costs and	
	(95% CI: 61.5 to 65.4) with	probabilities in the	
	escitalopram and 58.2% (95% CI:	comparison between	
	56.3 to 60.3) with citalopram.	escitalopram and	
	Escitalopram was also associated	citalopram. However,	
	with higher first-line success (51.2	the results of the	
	versus 41.0%), a lower titration	comparison between	
	rate (27.6 versus 32.6%), a lower	escitalopram and	
	switch rate (35.7 versus 47.0%)	venlafaxine were	
	and a lower secondary care rate	sensitive to the	
	(23.0 versus 29.4%)	probability values used	

				In the comparison between escitalopram and venlafaxine, the overall success rate was 68.9% (95% CI: 66.7 to 70.9) with escitalopram and 68.5% (95% CI: 66.2 to 70.6) with venlafaxine. Escitalopram and venlafaxine were also associated with very similar first-line success, titration, switch and secondary care rates.	in the model, thus the two drugs were considered comparable in primary care Within the setting of primary care in the UK, escitalopram was a cost-effective treatment for MDD in comparison with citalopram and was quite similar to venlafaxine	
Wade, un- published; Wade, 2008	<u>Comparators:</u> Escitalopram 20 mg daily	Patients with MDD, 18 to 65 years, with MADRS =>26 & CGI-S =>4 and baseline	Cost- effectiveness analysis	<u>Costs:</u> healthcare, medication, physician visits, visits to other healthcare professionals, hospitalisations and sick leave	Escitalopram is associated with significantly lower duration of sick leave	<u>Perspective:</u> societal Currency: UK pound sterling <u>Cost year:</u> 2006
(published version)	Duloxetine 60 mg daily	duration of current depressive episode of 12 weeks to 1 year Outpatient		Over 24-weeks, escitalopram was associated with significant cost savings compared with duloxetine (total per patient cost £1127 versus £2,001, respectively	and significant savings in the total cost compared with duloxetine; it dominates duloxetine when effectiveness is	<u>Time horizon:</u> 24 weeks <u>Discounting:</u> none Funded by H Lundbeck A/S.
		Source of clinical effectiveness data: alongside double- blind, multinational randomised study		[total per-patient monthly cost £188 versus £334, respectively]). In the multivariate analysis, treatment with escitalopram resulted in 49% lower total costs	assessed on the SDS scale. Indirect cost due to sick leave accounted for the most substantial portion of the total cost	

			· · ·	
		compared with those taking	and should, therefore,	
	Source of resource use	duloxetine (p=0.002)	be an important	
	estimates: health		consideration when	
	economic assessment	Outcomes: mean change in SDS	pharmacoeconomic	
	questionnaire	score and MADRS scores from	comparisons between	
	alongside trial	baseline to week 24, response	treatments are made	
		(>50% reduction in MADRS score	from the societal	
	Source of unit costs:	from baseline to last assessment)	perspective. The	
	standard UK sources	and remission rates (MADRS <-12	link between decrease	
		at week 24/last assessment) were	in productivity loss and	
		included as efficacy measures.	early (8-week) clinical	
			improvement	
			demonstrated in the	
			additional analyses	
			may explain the	
			reduced sick leave	
			observed with	
			escitalopram, given its	
			superior short-term	
			efficacy compared with	
			duloxetine	
			(demonstrated in the	
			underlying clinical	
			trial).	

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Study, year	Intervention	Study population	Study type	Costs: description and values	Results: cost	Comments
and country	details	Setting		Outcomes: description and	effectiveness	Internal validity
		Study design –		values		(Yes/No/NA)
		data source				Industry support
Friedli et al.,	Comparators:	People with	Cost-	Costs: number of outpatient	Referral to	Perspective: direct health
2000		depression or	minimisation	consultations, length of inpatient	counselling was no	service and non-health
	Non directive	mixed	analysis	stays, type and amount of	more clinically	care, lost productivity due
UK	counselling -	anxiety/depression		medication prescribed	effective or	to morbidity
	(maximum 12				expensive than GP	
	sessions)			The average direct and indirect	care over a nine-	<u>Currency:</u> £
		Primary care		costs for the counsellor group was	month period	<u>Cost year:</u> 1995/1996
				£162.09 more per patient after 3	in terms of costs.	Time horizon: 9 months
	Usual GP care			months compared with the GP		Discounting: not relevant
		Source of clinical		group. However, over the		_
		effectiveness data:		following 6 months the counsellor		No industry funding
		RCT, Friedli and		group was £87 less per patient		
		colleagues (2000),		than the GP group		Internal validity – good
		n=136				(23/3/6).
				Outcomes: BDI, Brief Symptom		
		Source of resource		Inventory, Clinical Interview		
		use estimates: RCT,		Schedule, modified Social		
		Friedli and		Adjustment Scale.		
		colleagues (2000)		,		
		Source of unit				
		costs: UK National				

Psychosocial and psychological interventions

		Sources				
Guthrie et	Comparators:	Clients with non-	Cost-	Costs: resources measured	6 months after the	Perspective: Society
al., 1999	Brief	psychotic disorders	effectiveness	included inpatient days,	trial there was	<u>Currency:</u> US dollar
	psychodynamic-	unresponsive to 6	analysis	outpatient attendance, accident	significant	
UK	interpersonal	months of routine		and emergency visits, day hospital	improvement in	<u>Cost year:</u> 1996–7
	therapy (BPIT) –	specialist mental		visits, family physician contacts,	quality of life (EQ-5D	<u>Time horizon:</u> 8 weeks + 6
	(eight sessions)	health treatment.		practice nurse contacts,	scores) and cost	months
		Patients had to be		community psychiatric nurse	savings, both in	Discounting: not relevant
	Usual care –	between the ages		contacts, prescription medications,	direct treatment costs	
	patients received	of 18 and 65 years.		and informal care	and when direct non-	Not industry funded
	treatment under	75.5 % had			treatment costs and	
	the care of their	depressive illness		The total cost (direct plus indirect	indirect costs were	Internal validity –
	consultant			costs) was \$1959 (intervention)	included, for the	moderate (19/7/6).
	psychiatrist,			and \$2,465 (usual)	depressed patients	
	which normally	Secondary care -			who received	
	consisted of	hospital outpatient		Outcomes: SCL-90-R, SF-36,	psychotherapy in	
	regular out-	department		EQ-5D: Benefits were expressed in	comparison with	
	patient			terms of the EQ-5D questionnaire	controls	
	consultations of			utility weights and QALMs at		
	15 to 30 minutes.	Source of clinical		baseline, end of trial (T1) and 6	From these	
		effectiveness data:		months after trial (T2)	preliminary findings	
		RCT, N=144			it is possible to	
				Patients in the psychotherapy	ascertain that BPIT	
		Source of resource		group achieved 4.87 QALMs	may be cost-effective	
		use estimates:		(median) compared with 3.48	relative to usual care	
		obtained		QALMs in the TAU group from	for patients with	
		prospectively from		baseline to T2, although this was	enduring non-	

		1 66 11			1	
		the effectiveness		not statistically significant.	psychotic symptoms	
		study sample.		Median utility weight scores were	who are not helped	
				0.04 (psychotherapy) and 0.00	by conventional	
		Source of unit		(usual) from baseline to T2	psychiatric	
		costs: UK National			treatment.	
		estimates		The two groups were not		
				significantly different on the GSI		
				or depression subscale of the SCL-		
				90-R or on any subscale of the SF-		
				36 tool. However, at the 6 month		
				follow-up assessment, patients		
				receiving psychotherapy showed		
				significantly greater improvement		
				on the GSI and the depression		
				subscale of the SCL-90-R, and		
				reported significantly better social		
				functioning on the SF-36 than the		
				control patients.		
Kaltenhaler,	Comparators:	People with	Cost-	Costs: of treatment included.	Based on a number	Perspective: NHS
2002	-	depression or	effectiveness	Computer purchase, licence fee,	of assumptions, the	(although indirect costs
	Computerised	mixed anxiety/	analysis	Overheads (space, heat, lighting,	data from Bennett	are calculated)
UK	cognitive	depression	2	and so on). Staff: Practice	and colleagues (2000)	Currency: UK pound
	behaviour		Cost-utility	nurse/assistant psychologist, GP	suggested that the	sterling
	therapy (CCBT) –	Primary care	analysis	monitoring, IT support and	incremental cost per	<u>Cost year:</u> 2000
	Beating the Blues			training	QALY gained of BtB	Time horizon: 6 months
	(BtB): nine	Source of clinical			over TAU lies	
	sessions: a 15-	effectiveness data:		Controlling for baseline costs,	between £1210and	No industry funding
	minute	sponsor		CCBT completers had a mean	£7,692. If the data	

	introductory	submissions. RCT		service cost that was £150 greater	from Revicki and	Internal validity (19/9/4)
	video followed	Proudfoot and		than that for TAU (the product	Wood (1998) are	
	by eight 1-hour	colleagues (2004)		accounted for most of this	used, the	
	therapy sessions.	CCBT (n=89)		difference). This cost difference	corresponding range	
	CCBT, plus	TAU (n=78)		was not statistically significant.	lies between £3,000	
	patients could				and £6,667 per QALY	
	also receive other	Source of resource		In the first year of implementing	gained. It should be	
	forms of TAU	use estimates and		Beating the Blues, the costs with	noted, however, that	
	from the GP with	unit costs:		an assistant psychologist were	these estimates are	
	the exception of	data on resource		£21,691 and with a practice nurse	crude and should be	
	face-to-face	use were collected		£25,192.	treated with caution.	
	counselling or	prospectively				
	other	alongside the trial		Outcomes: QALYs – a number of		
	psychological	and costed using		strong assumptions have been		
	input.	appropriate unit		made and the estimated figures		
		costs.		are crude. Estimated utility values		
	TAU –			from Bennett and colleagues		
	discussions with			(2000), and Revicki and Wood		
	a GP, referral to a			(1998), were assigned/mapped to		
	counsellor,			BDI scores from the RCT to		
	practice nurse or			calculate QALY gains from		
	mental health			treatment.		
	professional, and					
	treatment of					
	physical					
	conditions.					
Kaltenthaler	The three	Patients with mild	Cost-	Provision of CCBT results in the	BtB:	Perspective: NHS
<i>et al.,</i> 2006	products shared	to moderate,	effectiveness	following costs: licence fees,	The incremental cost	-

r		_				
	the same basic	moderate to severe	analysis	computer hardware, screening	per QALY compared	<u>Currency:</u> UK Pound
UK	model structure,	or severe		patients, clinical support, capital	with TAU was £	Sterling
	a decision tree	depression.		overheads (for clinician, facilities	1801. There is an	Cost year: Not reported
	comparing two			and computers) and the training	86.8%, chance of Btb	Time horizon: 18 months
	arms, CCBT and	Primary care		of staff.	being cost-effective	Discounting: 3.5 %
	TAU.				at £30,000 per QALY.	_
		Source of clinical		Expected total cost per patient per	-	Internal validity 25/4/6.
	CCBT -	effectiveness data:		copy of BtB = $\pounds 219.30$	Cope:	
	1. Beating the	BtB (Proudfoot et		(£152.37 to £353.00)	The incremental cost	
	Blues (BtB)	al., 2004) RCT,			per QALY compared	
		n=274		Expected total cost per patient:	with TAU was £	
	2. Cope (ST			- with home access to Cope	7139. There is a	
	solutions)	Cope (Marks <i>et al.,</i>		£171.30 (£122.74 to £268.22)	62.6%, chance of Btb	
		2003). Non-		- access at one to five GP practice	being cost-effective	
	3. Overcoming	comparative trial,		£195.86 (£137.48 to £312.40)	at £30,000 per QALY.	
	Depression	n= 39			-	
	-			Expected total cost per patient per	Overcoming	
	TAU –	Overcoming		copy of Overcoming Depression =	Depression:	
	Standard care in	Depression -		£72.64 (£42.36 to £133.00)	The incremental cost	
	primary care.	Whitfield (2004).			per QALY compared	
	The treatment	Non-comparative			with TAU was £	
	received in the	study, n=20		Outcomes: Quality-adjusted life	5391. There is a	
	Proudfoot and			years	54.4%, chance of Btb	
	colleagues (2004)				being cost-effective	
	trial was used as	Source of resource		Utility scores from Richards, 2004.	at £30,000 per QALY.	
	representing	use estimates:		N=62.		
	TAU in the NHS.	manufacturer				
	TAU patients in	submissions		Mild-moderate: 0.78 +/- 0.20	The strength of the	

this trial		Moderate-severe: $0.58 \pm (-0.31)$	BtB software being
continued to visit	Source of unit	Severe: $0.38 \pm 1 - 0.32$	that it has been
their GP, receive	costs: submissions	00000000000	evaluated in the
medication and	and published	Minimal: 0.88 ± 7.022 (aged and	context of an RCT
be referred to a	literature	gender matched normal scores)	with a control group
specialist	incruture.	gender materied normal scores)	The subgroup
although they			analysis found no
were not			differences across the
receiving			severity groupings
nevchothorany at			seventy groupings.
the time of			Authors'
ontoring the trial			conclusions: The
entering the that			ctudy findings are
			subject to substantial
			uncortaintics around
			the organisational
In the model			level for purchasing
in the model,			these products and
another arm was			
(that is the maniat			the likely
(that is, therapist-			throughput. In
			addition to concerns
using the results			with the quality of
of the trial).			evidence on response
			to therapy, longer
			term outcomes and
			quality of life. The
			position of CCBT
			within a stepped care

					programme needs to be identified, as well as its relationship to other efforts to increase access to CBT and psychological	
					needed to compare CCBT with other therapies that reduce	
					therapist time, in particular bibliotherapy and to	
					CCBT via the Internet.	
					Independent research is needed, particularly RCTs, that examine areas	
					such as patient preference and therapist involvement within	
King <i>et al.,</i>	Comparators:	Depression or	Cost-	Costs: direct and non-treatment	primary care. Patients in both	Perspective: direct health

2000		Mixed / anxiety	effectiveness	costs costs of loss of production	psychological	service and non-health
2000	Non-directive	Doprossion	analycic	costs, costs of loss of production	thorany groups made	care loss of productivity
Bowor et al	counselling	Depression	anarysis		significantly groator	care loss of productivity
2000	(maximum 12	Drimory cono		Outcomes: BDI EuroOel measure	significantly greater	Curronau UK nound
2000	(maximum 12	rimary care		<u>Outcomes.</u> DDI, EuroQoi measure	first four month of	currency. OK pound
111/	sessions)	0 (1) 1		of health related quality of life.	first four months;	sterling
UK	ODT (10	Source of clinical			however, all groups	<u>Cost year:</u> 1997/1998
	CBT (max 12	effectiveness data:			had equivalent	<u>Time horizon:</u> 4+12
	sessions)	RCT, King and			outcomes at 12	months
		colleagues (2000)			months. There were	Discounting: not relevant
	Usual GP care	n=464			no significant	
					differences in terms	Not industry funded
		Source of resource			of EuroQol. No	
		use estimates: RCT,			differences in direct	Internal validity – good
		King and			or lost productivity	(27/0/5)
		colleagues (2000)			costs between the	
		n=464			three treatments	
					were observed at	
					either four months or	
		Source of unit			12 months.	
		costs: UK National			(Caution: the study	
		estimates			was not powered for	
		countates			cost) The additional	
					costs associated with	
					providing practice	
					based nevehological	
					thereased psychological	
					therapy were offset	
					by savings in visits to	
					primary care,	

					psychotropic medication and other specialist mental health treatments. Overall the results implied the observed equivalence of the three options and this result remained in the sensitivity analysis.	
Kuyken <i>et</i>	Mindfulness-	Patients with	Cost-	Costs: All hospital (inpatient,	Societal perspective:	Perspective: NHS & PSS
<i>u</i> ., 2008	thorapy (MBCT)	more provious	analysis	department): community health	relance (recurrence	Curronew US dollars
IIK	- over 8 weeks	apisodes of	anarysis	and social sorvices (primary care	provented: ICER of	$\frac{\text{Currency.}}{\text{Cost yoar: 2005/06}}$
UK	- Over o weeks	depression		social work complementary	\$50 per depression-	<u>Cost year.</u> 2003/00
	Maintonanco	depression		thorapios): productivity lossos	froo day	Discoupting: not reported
	Antidepressant	Primary care		resulting from time off work due	filee day	Discounting. not reported
	Medication (m-			to illness	NHS & PSS.	Funded by LIK MRC
	ADM)	Source of clinical			ICER of \$439 per	runded by Orthine
		effectiveness data:		Total costs per participant (over	relapse/recurrence	Internal validity: 20/9/6
		RCT, n=123;		follow-up):	prevented; ICER of	
		patients followed		MBCT: \$3,370	\$23 per depression-	
		up at 3-month		m-ADM: \$2,915	free day	
		intervals for 15			,	
		months		Over 1 year:		
				MBCT: \$2,767		
		Source of resource		m-ADM: \$2,340		

		<u>use:</u> Study population; Adult Service Use Schedule (AD-SUS) <u>Source of unit</u> <u>costs:</u> national sources		<u>Outcomes</u> : relapse/recurrence prevented; depression-free days Mean total number of relapses/recurrences: MBCT: 1.45 m-ADM: 1.57 Mean total number of depression- free days: not reported		
McCrone <i>et</i>	Comparators:	18- to 75-year-olds	Cost	<u>Costs:</u> Services included:	The cost	<u>Perspective:</u> NHS (although indirect costs
<i>u</i> 1., 2004	Computerised	depression, mixed	analysis	staff (psychiatrists, psychologists,	CCBT over TAU was	were also calculated)
UK	CBT (CCBT) -	depression and	unuiyoio	community mental health nurses,	assessed through	were also calculated)
_	that is, Beating	anxiety, or anxiety	Cost utility	counsellors and other therapists),	cost-effectiveness	Currency: UK pounds
	the Blues (BtB-a	disorders -	analysis	- contacts with primary care staff	acceptability curves	sterling
	15-minute	not receiving face-	-	(GPs, practice nurses, district	(CEAC). These	<u>Cost year:</u> 1999/2000
	introductory	to-face		nurses, and health visitors),	showed the	<u>Time horizon:</u> 8 months
	video followed	psychological		- contacts with hospital services	probability that the	<u>Discounting:</u> not relevant
	by eight 50-	therapy		(inpatient care for psychiatric and	intervention was cost	
	minute sessions			physical health reasons,	effective on the basis	Internal validity – good
	of CBT) with			outpatient care, day surgery, and	of theoretical, but	(23/6/3)
	IAU	Primary care		accident and emergency	unknown values that	
	TATL 1	patients		attendance),	society was willing	
	IAU alone – IAU			- contacts with home helps,	to pay for	
	from the GP			- medications (antidepressants,	improvements in the	

(included	Source of clinical	anxiolytics and sedatives), and	benefit measures.
discussions with	effectiveness data:	- contacts with other services	
GP, referral to a	Proudfoot and	(chiropodists, physiotherapists	In terms of the
counsellor,	colleagues (2004).	and dieticians).	reduction in BDI
practice nurse or	TAU n=128. CCBT	- The cost of buying the licence to	score, the CEAC
mental health	n=146	use 'Beating the Blues' (plus	showed that the
professional and		overheads) was also considered.	probability of the
treatment of	Source of resource		intervention being
physical	use estimates:	At baseline, the direct costs were	cost effective over
conditions) with	collected	£236 (+/- £404) in the control	standard care was
exception of face-	prospectively	group and £203 (+/- £262) in the	greater than 80% at a
to-face	alongside the	intervention group. At the end of	value of £40 per unit
counselling or	clinical trial	the study period, these costs were	reduction in BDI
other		£357 (+/- £575) in the control	score.
psychological	Source of unit	group and £397 (+/- £589) in the	If the cost of CCBT
input.	<u>costs:</u>	intervention group. The difference	was £5 (it was £14.50
	from a recognised	of £40 was not statistically	in the base-case),
	national source	significant (95% CI: - 28 to 148).	then even with a zero
	(PSSRU) and the		value given to a unit
	BNF. The price of	Outcomes: The primary outcome	reduction in BDI
	the computer	measure used in the analysis was	score, there was a
	program licence	the change in the level of	45% chance that the
	was obtained from	depression, as rated using the	intervention was cost
	the manufacturer.	Beck Depression Inventory (BDI).	effective. Higher
		The secondary outcome measures	values were required
		were the Beck Anxiety Inventory	when the cost of the
		(BAI), the Work and Social	programme
		Adjustment (WSA) scale, and the	increased.

		number of depression-free days.		
		Depression-free days were based	In terms of	
		on the BDI scores at four	depression-free days,	
		assessment points (immediately	the CEAC suggested	
		post-treatment, and 1, 3 and 6	that if society placed	
		months following treatment,	a value of £5 on a	
		which corresponded to 8 months	depression-free day,	
		post-randomisation).	then there would be	
		-	an 80% chance of the	
		The authors stated that CCBT	intervention being	
		resulted in improved scores on the	cost effective.	
		BDI, BAI and WSA scales.		
		The mean reduction in BDI score	In terms of QALYs, if	
		with CCBT over control was 3.5	society placed a	
		(95% CI: 0.6 to 6.4).	value of £15,000 on a	
		The mean number of depression-	QALY, then there	
		free days was $61 (+/-67.1)$ in the	would be a 99%	
		control group and 89.7 (+/-74.2)	chance of the	
		in the intervention group.	intervention being	
		After controlling for phase of data	cost effective. At a	
		collection, the difference in	value of £5,000 per	
		depression-free days was 28.4	QALY, the	
		(95% CI: 10.7 to 45.5).	probability of the	
			intervention being	
		The benefit measures used were a	cost effective was	
		cost per point reduction in the	85%.	
		BDI, cost per symptom-free day		
		and quality-adjusted life years		

	(QALYs).	A one-way
		sensitivity analysis
	The utility values used to calculate	was conducted on
	the QALYs were based on a score	the cost of the CCBT
	of 0.59 for a day with depression,	programme, as this
	and a score of 1 for a depression-	was the most
	free day. The utility scores were	uncertain factor.
	derived from a published study	
	(Lave <i>et al.</i> , 1998)	The author's
		concluded: The use
		of CCBT for the
		treatment of patients
		with depression and
		anxiety in primary
		care was cost
		effective in
		comparison with
		TAU. The BtB
		programme
		improved clinical
		outcomes at
		negligible extra costs
		and reduced
		productivity losses.
		It was also associated
		with a high
		probability of being
		cost effective from

					the perspective of the	
Millow at al	Commentance	10 to 70 more ald	Cast	Casta The direct costs wave for	INIIO.	Demons a stinger LUK NULC
Miller <i>et ul.</i> ,	<u>Comparators:</u>	18- to 70-year-old	Cost-	<u>Costs:</u> The direct costs were for		Perspective: UK NH5
2003	Counselling – six	patients with major	effectiveness	antidepressants, counselling, GP	analysis, the authors	<u>Currency:</u> UK pound
	50-minute	depression defined	analysis	consultations, psychiatric	found no significant	sterling
UK	weekly sessions.	using research		inpatient hospital stays and	difference between	Cost year: not stated
	Extra sessions	diagnostic criteria		psychiatric outpatient hospital	randomised	<u>Time horizon:</u> 12 months
	restricted to	(RDC)		visits.	treatment groups in	follow-up
	maximum of two.				either the outcomes	Discounting: unnecessary
		Primary care.		There was no significant	or costs at 12 months.	
	versus			difference between the two		Funded by NHS executive
		Source of clinical		randomised treatment groups in	The authors	Trent
	Antidepressant	effectiveness data:		the cost of all depression-related	concluded that,	
	therapy -	Chilvers and		health care for the 12 months	according to the	Quality 20/7/8.
	dothiepin (150	colleagues (2001).		following entry to the trial.	study results and	, , , , , , , , , , , , , , , , , , ,
	mg nocte),	Prospective RCT,			following the	
	fluoxetine	patients were		There was a significant cost-	indications of the net	
	(20 mg OD) and	randomly selected		difference (counselling plus	benefits and cost-	
	lofepramine (140	from 410 general		antidepressants) between the	effectiveness	
	to 210 mg taken	practices in the		treatment groups when using the	acceptability curves,	
	daily in divided	Trent health		non-parametric test, £89.57 in the	the counselling	
	doses)	region 12-month		antidepressant group versus	intervention is a	
		questionnaire		f115 92 in the counselling group	dominant cost-	
		completed by 34 in		(n=0.031)	offective strategy in a	
		the antidepreseant		(P 0.001).	small proportion of	
		group and 31 in the		For patients choosing their	nationte with mild to	
		group and or in the		troatmont modality there was a	modorato	
		coursening group		significant difference between	domession For a	
	dothiepin (150 mg nocte), fluoxetine (20 mg OD) and lofepramine (140 to 210 mg taken daily in divided doses).	colleagues (2001). Prospective RCT, patients were randomly selected from 410 general practices in the Trent health region. 12-month questionnaire completed by 34 in the antidepressant group and 31 in the counselling group among those		following entry to the trial. There was a significant cost- difference (counselling plus antidepressants) between the treatment groups when using the non-parametric test, £89.57 in the antidepressant group versus £115.92 in the counselling group, (p=0.031). For patients choosing their treatment modality, there was a significant difference between	study results and following the indications of the net benefits and cost- effectiveness acceptability curves, the counselling intervention is a dominant cost- effective strategy in a small proportion of patients with mild to moderate depression. For a	

	randomised, and	counselling and antidepressant	larger proportion
	46 (antidepressant	groups in terms of the overall cost	of patients, the
	group) and 137	of depression-related health	antidepressant
	(counselling	services. These costs were £335.63	intervention is the
	group),	(counselling group) and £263.41	dominant cost-
	respectively,	(antidepressant group),	effective strategy. For
	among those not	respectively, when using the non-	the remaining group
	randomised.	parametric test, (p=0.005).	of patients, the cost-
			effectiveness
	Source of resource	No significant overall cost-	depends on the value
	<u>use estimates:</u>	differences between the	placed on an
	costing was	randomised and patient	additional patient
	undertaken	preference groups were observed.	with a positive
	prospectively on		outcome by a
	the same group of	Outcomes: The summary benefit	decision-maker.
	patients as the	measure was the psychiatrist's	
	effectiveness study.	assessment of the global outcome,	
	All GP	which was derived from the	
	consultations,	effectiveness study. The basis of	
	drugs prescribed	the primary analysis was	
	and use of GP-	treatment completers only. The	
	arranged	main outcome measures at 12	
	counselling were	months were: the BDI score; and	
	recorded from the	the time to remission, remission	
	patients' notes.	defined as an RDC <4 and a Beck	
	Hospital	<10	
	psychiatric		
	outpatient and	The global outcome was assessed	

		inpatient visits		using the RDC, Beck score and GP		
		were abstracted		notes.		
		from case notes.				
		The quantities		The study groups were generally		
		were derived		balanced at baseline. However,		
		directly from the		the patients who preferred		
		effectiveness study		counselling were less severely		
				depressed than randomized		
		Source of unit		patients or those who preferred		
		costs: UK National		antidepressants		
		estimates				
				There were no statistically		
				significant differences in any of		
				the outcome measures used in the		
				effectiveness analysis. The		
				analysis also demonstrated that		
				more patients opted for		
				counselling.		
Scott, 2003	Comparators :	25- to 65-year-old	Cost-	Costs: direct: treatment, clinical	The ICER of	Perspective: UK NHS
	-	psychiatric	effectiveness	management, inpatient, day	cognitive therapy	<u>Currency:</u> UK pound
UK	Cognitive	outpatients with	analysis	hospital, general practitioner and	was £4,328 per	sterling
	therapy +	unipolar	-	social worker, psychiatric nurse	relapse averted or	<u>Cost year:</u> 1998/1999
	antidepressants +	depression		and therapist, group and marital	£12.5 per additional	Time horizon: The
	clinical	partially remitted		therapy, and medication. The	relapse-free day.	duration of the follow-up
	management	despite adequate		cognitive therapy costs were		was 68 weeks (20 weeks
	~	clinical treatment.		calculated using a cost per minute	Based on the cost-	for the treatment phase
	Compared with:	Satisfied DSM-III-R		taken from the mid-point of the	effectiveness-	and 48 weeks for the
	Antidepressants	criteria for major		relevant 1998 to 1999 salary scales,	acceptability curve	follow-up phase).

+ clinical	depression in an	and included the employers'	for cognitive therapy,	Discounting: 6%
management	episode within the	national insurance and	if the decision maker	
alone for relapse	past 18 months, but	superannuation contributions and	would be prepared	Funded by a grant from
prevention in	not in the past 2	overhead costs. The additional	to pay £6,000, the	the Medical Research
chronic	months. At	cost of non-face-to-face activities	probability of	Council
depression	randomisation, the	was estimated using a ratio	cognitive therapy	
_	patients were	provided by each therapist. A	being cost-effective	Quality appraisal: 26/5/4
Clinical	required to have	similar bottom-up approach was	would be over 60%,	
management =	current residual	used to assess the unit cost of	and at £8,500, the	Limitation/s:
30-minute	symptoms of at	other therapies	probability would be	The uncertainty of the
appointments	least 8 weeks'	_	over 80%. The ICER	results was partially
with a	duration that	Two separate analyses of the total	increased to £4,667	addressed using
psychiatrist every	reached =>8 17-	costs were undertaken. First, the	using the mean	sensitivity analyses on the
4 weeks during	HRSD and =>9 BDI	direct costs were considered	imputation method	method of handling
the treatment		excluding the additional costs of	and to £5,028 using	missing data. However,
phase (20 weeks)	Setting unclear –	cognitive therapy. The second	non-parametric	further sensitivity
and every 8	local clinics or at	analysis included the cognitive	multiple imputation.	analyses would only have
weeks during the	home	therapy costs	The results were	strengthened the findings.
48-week follow-			relatively robust to	
up phase	Source of clinical	The mean direct health care costs	the choice of the	
	effectiveness data:	(-cognitive therapy) were	method used to	
Cognitive	RCT, duration	significantly lower in the	impute the missing	
therapy =	follow-up was 68	cognitive therapy group (£734)	value	
16 sessions over	weeks n=158	than in the control group (£1119).		
20 weeks, with	randomised	This was due to savings on	In contrast to the	
two subsequent		inpatient admissions (£161, 95%	imputation	
booster sessions.	Source of resource	CI: 35 to 356) and day-patient	approaches, the ICER	
	<u>use estimates:</u>	services (£206, 95% CI: 54 to 466)	increased to £7,056	

	resource utilisation		per relapse	
	questionnaires	Cognitive therapy resulted in a	prevented using only	
	were undertaken	mean cost-saving of £385 (95% CI:	the 65% of patients in	
	prospectively on a	1 to 769; p<0.05)	the complete case	
	sub-group (86%) of		analysis.	
	the patient sample	When cognitive therapy costs	The results were	
		were included, patients receiving	highly sensitive to	
	Source of unit	cognitive therapy were £779 (95%	the decision to	
	<u>costs:</u> local	CI: 387 to 1170; p<0.01) more	impute the missing	
	providers, BNF,	costly than those receiving	value	
	PSSRU, salary	standard clinical treatment.		
	scales	However, the incremental cost	The author's	
		incurred by these patients (£779)	surmise: In	
		was lower than the overall mean	individuals with	
		therapy cost of cognitive therapy	depressive	
		(£1164)	symptoms that are	
			resistant to standard	
		Outcomes: The primary health	treatment, adjunctive	
		outcome was reduction in relapse	cognitive therapy is	
		rate and also used to express	more costly but more	
		benefits. The authors did not	effective than	
		develop a summary benefit	intensive clinical	
		measure	treatment alone.	
			Structured	
		The actuarial cumulative relapse	psychological	
		rates for the cognitive therapy and	therapies such as	
		control groups were 10% and 18%,	cognitive therapy,	
		respectively, at 20 weeks and 29%	interpersonal	

				and 47%, respectively, at 68 weeks (adjusted hazard ratio 0.51; 95% confidence interval, CI: 0.32 to 0.93).	therapy and similar approaches appear to have a major role to play in the treatment of residual depression.	
Simon <i>et al.,</i>	Comparators:	Patients	Cost-utility	<u>Costs:</u> The direct cost categories of	The cost-	Perspective: UK NHS
2006		experiencing	analysis	the initial treatment protocols	effectiveness of	
	Pharmacotherapy	moderate and		included medication costs, staff	combination therapy	<u>Currency:</u> UK pound
UK	-	severe depression-		costs, dispensing fees, and	was calculated to be	sterling
	fluoxetine 40 mg	according to the		subsequent health care resource	£4,056 per additional	
	daily and	Hamilton Rating		use (hospitalisation, visits to the	successfully treated	<u>Cost year:</u> 2002/03
	outpatient care.	Scale for		emergency department,	patient. This resulted	
		Depression and the		outpatients and general	in a cost per QALY	<u>Time horizon:</u> Both
	Pharmacotherapy	range of cut-off		practitioner, community	gained of £5,777 for	therapies were conducted
	with cognitive-	scores proposed by		psychiatric nurse and community	severe depression	for 3 months and had a 12-
	behavioural	the American		mental health team visits, and	and £14,540 for	month follow-up period
	therapy (CBT) -	Psychiatric		medication costs).	moderate	(that is, 15 months no
	16 sessions	Association			depression.	maintenance therapy)
	(average 50			The total health care cost per		
	minutes each).	Secondary care		person was £660 for	Deterministic and	Discounting: not relevant
				pharmacotherapy and £1297 for	probabilistic SA	
		Source of clinical		the combination therapy. This	conducted.	Funded by NICE
		effectiveness data:		represented a total difference of		
		a systematic review		£637 over 15 months.	When considering	Quality appraisal: 28/1/6.
		of studies was			the number of	
		conducted then		Outcomes:	successfully treated	Although the initial
		synthesised using a		The measure of benefit used-	patients for both	treatment cost of

		ГТ	T	
meta-ana	lysis	quality-adjusted life-years	moderate and severe	combination therapy is
		(QALYs). Results were also	depression, an	substantially higher, these
Source of	resource	reported as the incremental cost	additional benefit of	costs are partially offset by
<u>use estim</u>	ates:	per successfully treated patient.	combination therapy	savings accruing from
based on	the expert		over	lower treatment costs in
opinion o	of the	Over the 15-month analysis	pharmacotherapy	the subsequent year.
GDG, lite	erature	period, the average gain in	alone was observed.	Targeting combination
and a sys	tematic	QALYs from combination therapy		therapy at severe forms of
review of	the	was 0.11/ patient with severe	However, when the	depression could be a
economic	c evidence	depression and 0.04 per patient	patients' quality of	more efficient way of
(NCCMF	I, 2005)	with moderate depression.	life was also	using limited resources.
			included, the	_
Source of	unit	The QALYs per person with	analysis showed that	
<u>costs:</u> BN	F, PSSRU,	severe depression were 0.52 for	there were greater	
PPA.		the pharmacotherapy treatment	gains for patients	
		and 0.63 for the combination	with severe	
		therapy.	depression versus	
		The QALYs per person with	those with moderate	
		moderate depression were 0.84 for	depression.	
		the pharmacotherapy treatment		
		and 0.89 for the combination	The authors	
		therapy.	concluded that	
			combination therapy	
		The probability of successful	is likely to be a cost-	
		treatment was 0.14 for	effective first-line	
		pharmacotherapy, and 0.29 for the	secondary care	
		combination therapy (a benefit of	treatment for severe	
		0.16 for the combination therapy).	depression, but that	

				it was much more uncertain from the currently available evidence(supported by sensitivity analysis) whether its use is cost-effective for moderate depression.	
Simpson et al., 2000 UK Counsellin USual GP c no restrictie except that could not r controls to practice counsellors	rs:People with BDI score of 14+, have experienced depression/anxiety are -g (sixexperienced depression/anxiety for 6 months or more, aged 18-70 GPs with no history of drug/alcohol misuseGPswith no history of drug/alcohol misuse.Primary care.Source of clinical effectiveness data: RCT n=181, Simpson and colleagues (2000)	Cost- minimisation analysis	<u>Costs:</u> the analyses focus on the costs of providing specialist and generic health- and social-care services, and other forms of support (GPs, hospital based and community based services, social services, counsellors, medication, alternative therapies, day activities and police services). The costs associated with informal support or the patients' costs borne as a result of attending treatment have not been estimated because no data were collected for these. Finally, the costs associated with use of employment services (job centres) have not been included	The primary care costs during the intervention period were significantly higher in the experimental than the control group and this was directly due to the costs of the counselling. This additional cost was not offset by subsequent reduced service use and costs, and did not appear to result in cost- savings at 12 months. No difference was found between the	Perspective: Direct health and social services, and lost productivity <u>Currency:</u> UK pound sterling <u>Cost year:</u> 1997/98 <u>Time horizon:</u> 12 months <u>Discounting:</u> not relevant No industry funding Internal validity – good (22/5/5).

	<u>use estimates:</u>	Across the whole study sample,	two treatment
	specially adapted	average total costs per person	groups regarding
	version of the	showed little change over time:	outcomes, and there
	Client Service	• £4,906 for the 6 months prior to	were no significant
	Receipt	initial	differences in the
	Inventory,	assessment ($n=179$)	mean total costs, the
	administered	• £5,061 for the 6 months to first	aggregate costs of
	alongside the other	follow-up interview (<i>n</i> =161)	services, the costs by
	assessments	• £4,995 for the 6 to 12 month	service-groups
		period after study entry (N=143).	except for primary
	Source of unit	There were no significant	care. The primary
	costs:	differences in the mean total costs,	care costs during the
	some costs were	aggregate costs of services, or any	intervention period
	taken from an	of the service-group costs, except	were significantly
	annual	for primary care, between the	higher in the
	compendium of	experimental and control groups	counselling than in
	nationally	over time. The cost-burden to GP	the TAU GP group,
	applicable unit	practices was significantly higher	and this was directly
	costs and others	in the experimental than the	due to the costs of
	were estimated	control group at 6 months	the psychotherapy.
	specifically for this	0 1	1 5 1 5
	research	Outcomes: BDI, patient	
		satisfaction	
		There was an overall significant	
		improvement in the actual scores	
		over time, but no difference	
		between groups or between CBT	
		and psychodynamic counselling	

		approaches at either 6 or 12	
		months. However, fewer	
		experimental group patients were	
		still cases on the BDI than	
		controls. This difference was	
		statistically significant at 12	
		months and neared significance at	
		6 months (using logistic	
		regression with the initial score as	
		a covariate). In addition, most	
		patients were very positive about	
		the counselling and considered it	
		helpful. Visual inspection of the	
		outcomes suggested that more	
		patients with mild or moderate	
		depression at study entry had	
		improved and ceased to be cases,	
		and that more of these patients	
		had become on-cases in the	
		experimental than the control	
		group. However, a multiple	
		regression analysis indicated no	
		significant interactions between	
		group and initial severity of	
		depression. This could be partly	
		due to there being no difference in	
		outcome between the	
		experimental and control group	

				patients who were initially severely depressed and few of these patients ceasing to be cases at follow-up.		
Cimmoon	Chart torm	Mativated patients	Cost	Costs: The direct costs to health	The outbone conclude	Demonactives Net stated
Simpson,	Short-term	Motivated patients,	Cost-	<u>Costs:</u> The direct costs to hearth	that the findings	<u>rerspective:</u> Not stated
2003	psychodynamic	aged 16 to 70 years,	enectiveness	service seem to have been	that the informed set	Currency UK nound
III	counselling in	who were	analysis	(included. The total support costs	suggested no cost-	currency: UK pound
UK	primary care –	depressed => 6		(including accommodation and	effectiveness	Sterling
	that is, highly	months-scored		iving expenses) and total service		<u>Cost year:</u> 1997 to 1998
	trained	between 14 and 40		costs (including specialist mental	counselling over	prices
	counsellors	Beck Depression		health services, hospital services,	routine treatment for	<u>Time horizon:</u> 12 months
	employing a	Inventory (BDI).		primary care, and community	general practice	Discounting: unnecessary
	Freudian			health and social care services)	attendees with	because all costs were
	psychodynamic	Primary care		were measured. However, the	chronic depression.	incurred in one year
	model in six of			indirect costs were not included.	There was very	
	the 12 sessions	Source of clinical		Lost productivity costs were	limited evidence of	Funded by a grant from
		effectiveness data:		excluded because there was no	improved outcomes	the NHS Executive Health
	Routine GP	derived from a		difference between the groups at	and the cost of	Technology Assessment
	treatments for	single prospective		any of the time periods. The	primary care	Programme
	patients with	study-RCT		primary care subtotal included	treatment increased	0
	chronic	conducted in seven		only the costs of support from	in the short term. The	Internal validity 18/13/4.
	depression.	GP practices		GPs, prescribed medication,	use of stricter referral	<i>,</i> ,,,
	- I	(screening		practice nurses and practice	criteria to exclude	
		attendees)		counsellors. The comparison of	the more severely	
		employing		the costs between the two groups	depressed (BDI +/-	
		psychodynamic		thus focused on the total service	24) might have	
		counsellors		costs and primary care costs	vielded more	

	Patients who were		conclusive results.	
	seen in the two GP	There was no statistically		
	practices	significant difference between the	A sensitivity analysis	
	employing	experimental and control groups	of the quantities was	
	cognitive	in the mean service costs per	not conducted.	
	behaviour	person, either at baseline (£349		
	counsellors were	versus £643), during the 6-month		
	excluded. The	period (£652 versus £537),		
	patients were	between 6 and 12 months (£374		
	followed up at 6	versus £515), or during the 12-		
	and 12 months. Up	month follow-up (£1046 versus		
	to the 6-month	£1074)		
	period, the			
	assessors were	With the exception of short-term		
	blind to the	increased costs to the GP practices		
	treatment received.	(linked to the use of counselling		
	Outcome data were	services), there were no		
	obtained for 130	statistically significant differences		
	(90%) patients at 6	between the treatment options in		
	months (n=65 in	terms of the primary care costs at		
	each group) and	each time interval. The primary		
	for 115 (80%)	care costs were £101 versus £119		
	patients at 12	at baseline, £318 versus £161		
	months (n=60-	during the 6-month period,		
	experimental	(p<0.001), £162 versus £196		
	group, n= 55-	between 6 and 12 months, and		
	control group)	£486 versus £371 during the 12-		
		month period.		

Source of resource		
use estimates:	If the counselling costs were	
the costing was	excluded, there were no	
carried out on the	significant differences between the	
same sample of	two groups.	
patients as that		
used in the	Outcomes: The main health	
effectiveness study.	outcomes used in the analysis	
The resource data	were the BDI score.	
were derived from	The author's did not derive a	
the Client Service	measure of health benefit. Since	
Receipt Inventory	the authors concluded that the	
published in 1995	clinical outcomes were	
and 2001	comparable (There was very	
	limited evidence that	
Source of unit	psychodynamic counselling	
<u>costs:</u>	improved outcomes for GP	
the unit costs were	practice patients with chronic	
taken from an	depression), the study was	
annual	effectively a cost-minimisation	
compendium of	analysis.	
costs and from the	There was no difference between	
authors' setting.	patients who withdrew and those	
	who remained in the study.	
	There were no significant	
	differences between the groups on	
	any of the BDI, BSI, IIP and SAS	

	measures, either at the 6- or 12- month follow-up, when using a univariate analysis of covariance and the initial score as covariate.	
	There were no significant differences between the groups in the number of depressed cases on the BDI, BSI and SAS measures at the 6-month follow-up.	
	At the 12-month follow-up, there were fewer cases on the BDI in the experimental group (48%) than in the control group (64%). This difference was statistically significant, (p=0.02). There was no difference between the groups for the BSI and the SAS.	

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