National Institute for Health and Care Excellence

Draft for consultation

Depression in adults

[F] Depression with coexisting personality disorder

NICE guideline CG90 (update)

Evidence review underpinning recommendations 1.11.1 to 1.11.3 in the NICE guideline

November 2021

Draft for consultation

This evidence review was developed by the National Guideline Alliance which is a part of the Royal College of Obstetricians and Gynaecologists



Disclaimer

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Depression with coexisting personality disorder

3 Review question

- 4 For adults with depression and a coexisting personality disorder what are the relative
- 5 benefits and harms of first-line treatment or relapse prevention with psychological,
- 6 psychosocial, pharmacological and physical interventions alone or in combination?

7 Introduction

- 8 The interrelationship between depression and personality disorder (PD) poses clinical
- 9 problems, since both depression and some types of personality disorder may be viewed as
- 10 emotion regulation disorders and either may present with irritability, distress or depression at
- any one time-point. Therefore a careful clinical assessment, including longitudinal
- 12 assessment of mood, may be needed to make a reliable diagnosis. Additionally, since both
- depression and PD may share important antecedents, including early trauma, and they
- 14 frequently co-occur, final diagnosis may conclude an individual has both depression and PD.
- While clinical services for depression and PD may exist separately and NICE guidance is
- available for PD, there are associated clinical risks of under-treating, or incorrectly treating,
- either the PD or the depression, although the symptoms of PD may improve on recovery
- from depression. The situation is further complicated by the fact that PD is not a single
- disease, and there are a number of different types of PD with different presentations that
- 20 may respond differently to treatment.
- 21 In reviewing the evidence for further-line treatment (see Evidence review D), the committee
- agreed that it was not meaningful to separate out subgroups with coexisting personality
- disorders, psychotic depression, and chronic depression. Therefore, a single category was
- formed 'further-line treatment' which combined all these groups where participants are
- 25 randomised at the point of non-response and treatment strategies include increasing dose,
- augmenting or switching. However, the committee were also aware that there are people
- 27 with depression and a coexisting PD who have not received treatment for the current
- 28 episode, or who have recovered following initial treatment, and that it was not appropriate to
- combine these groups with those who have shown an inadequate response to initial
- 30 treatment. The committee therefore agreed to review the evidence for first-line treatment and
- 31 relapse prevention of depression with a coexisting PD in the current evidence report, and the
- 32 evidence for further-line treatment of depression with a coexisting PD is considered in the
- 33 context of a broader evidence base in Evidence review D.
- The aim of this review is to identify the most effective first-line or relapse prevention
- 35 treatment strategy for the co-occurrence of depression and PD and to give guidance on the
- 36 available management choices.

37 Summary of the protocol

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- 38 See Table 1 for a summary of the Population, Intervention, Comparison and Outcome
- 39 (PICO) characteristics of this review.

Table 1: Summary of the protocol (PICO table)

Population	Adults with depression and a coexisting personality disorder
Intervention	Psychological interventions:
	Behavioural therapies
	Cognitive and cognitive behavioural therapies

	 Counselling Family interventions/couples therapy Psychodynamic psychotherapies Self-help with or without support Art therapy Music therapy Eye movement desensitization and reprocessing (EMDR) (for depression, not PTSD) Psychosocial interventions: Peer support (including befriending, mentoring, and community navigators) Mindfulness, meditation or relaxation Pharmacological interventions: SSPIc
	 SSRIs TCAs SNRIs Other antidepressant drugs (including mirtazapine and trazodone) Antipsychotics Lithium Omega-3 fatty acids
	Physical interventions: • Acupuncture • ECT • Exercise • Yoga • Light therapy (for depression, not SAD)
Comparison	 Treatment as usual Waitlist No treatment Placebo Other active intervention (must also meet inclusion criteria above)
Outcomes	Critical: Depression symptomatology Remission Response Relapse (for relapse prevention strategies) Discontinuation due to any reason
ECT: electroconvulsive therapy; PTSD	 Discontinuation due to side effects (for pharmacological trials) Important: Quality of life Personal, social, and occupational functioning post-traumatic stress disorder; SAD: seasonal affective disorder; SNRI:

- ECT: electroconvulsive therapy; PTSD: post-traumatic stress disorder; SAD: seasonal affective disorder; SNRI: serotonin-noradrenaline reuptake inhibitors; SSRI: selective serotonin reuptake inhibitor; TCA: tricyclic antidepressant
- 1 2 3
- For further details, see the review protocol in appendix A.

1 Methods and process

- 2 This evidence review was developed using the methods and process described in
- 3 <u>Developing NICE guidelines: the manual.</u> Methods specific to this review question are
- 4 described in the review protocol in appendix A.
- 5 Declarations of interest were recorded according to NICE's 2014 conflicts of interest policy
- 6 until 31 March 2018. From 1 April 2018, declarations of interest were recorded according to
- 7 NICE's 2018 conflicts of interest policy. Those interests declared until April 2018 were
- 8 reclassified according to NICE's 2018 conflicts of interest policy (see Register of Interests).

9 Clinical evidence

10 Included studies

- 11 Ten RCTs were included in this review. Due to one study reporting on a 4 arm trial (Shea
- 12 1990), there were 13 different comparisons. Of the 10 RCTs, 3 included only those with
- depression and coexisting PD, and so all reported data could be used. The remaining 7
- 14 RCTs included people with depression with and without a coexisting PD but analysed those
- with a coexisting PD as a subgroup, for these studies only the subgroup data was extracted
- 16 and used.
- 17 All the RCTs included examined first-line treatment of depression and coexisting PD, and no
- studies were identified for relapse prevention strategies for depression with coexisting PD.
- The included studies are summarised in Table 2 to Table 14.
- See the literature search strategy in appendix B and study selection flow chart in appendix C.

21 Excluded studies

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27

See appendix K for studies not included in this review with reasons for their exclusion.

23 Summary of clinical studies included in the evidence review

Summaries of the studies that were included in this review are presented in Table 2 to Table 14.

Table 2: Summary of included studies. Comparison 1. Behavioural therapy versus short-term psychodynamic psychotherapy

011011	toriii poyorioa	ymanno poyone	tilolupy		
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Liberman 1981 RCT	N=28 Mean age (years): 29.7	Behaviour therapy + TAU Intensity: 4-	Insight- oriented therapy + TAU	Primary RCT (inclusion criteria do	Treatment length (weeks):
US	Gender (% female): 67 Ethnicity (% BME): NR	hours of therapy a day over 8-day period (32 hours in total)	Intensity: 4- hours of therapy a day over 8-day period (32 hours in total)	not include diagnosis of depression or personality disorder but all participants would meet DSM-III	Outcomes: • Depression symptomatolo gy at endpoint • Depression symptomatolo gy at 1-month follow-up

4

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	Baseline severity: BDI 25.5 (more severe) Type of personality disorder: NR (most patients would meet DSM-III criteria for an axis 2 disorder)			criteria for MDE, dysthymic disorder, or adjustment disorder with depression, and most patients would meet DSM-III criteria for an axis 2 disorder)	 Depression symptomatolo gy at 3-month follow-up Depression symptomatolo gy at 6-month follow-up Depression symptomatolo gy at 8-month follow-up

BDI: Beck depression inventory; BME: black and minority ethnic; DSM: diagnostic statistical manual; MDE: major depressive episode; NR: not reported; RCT: randomised controlled trial; TAU: treatment as usual

Table 3: Summary of included studies. Comparison 2. Cognitive behavioural therapy versus counselling

versus	s counselling				
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Erkens 2018 RCT Germany	N=103 Mean age (years): 45.4 Gender (% female): 64 Ethnicity (% BME): NR Baseline severity: HAMD 25.32 (more severe) Type of personality disorder: Subgroup analysis of those with a personality disorder diagnosis (not antisocial, schizotypal, or borderline	Cognitive Behavioural Analysis System of Psychotherap y (CBASP) Intensity: 20x weekly or twice-weekly sessions (+ 8 monthly post- acute- treatment booster sessions)	Non-specific supportive psychotherap y (SP) Intensity: 20x weekly or twice-weekly sessions (+ 8 monthly post-acute-treatment booster sessions)	Subgroup analysis	Treatment length (weeks): 20 Outcome: • Depression symptomatolo gy at endpoint

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	personality disorder, which were exclusion criteria for the trial). Of those included in the subgroup analysis, 84% had ≥1 cluster C PD, mostly anxious avoidant (62%) or obsessive-compulsive (39%)				

BME: black and minority ethnic; HAMD: Hamilton depression scale; NR: not reported; PD: personality disorder;

RCT: randomised controlled trial

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4 Table 4: Summary of included studies. Comparison 3. Cognitive b

Table 4: Summary of included studies. Comparison 3. Cognitive behavioural therapy versus interpersonal therapy

versu	s interpersona	пегару			
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Shea 1990 RCT US	N=86 Mean age (years): NR Gender (% female): NR	CBT individual Intensity: 16- 20x weekly 50-min sessions	IPT Intensity: 16- 20x weekly 50-min sessions	Subgroup analysis	Treatment length (weeks): 16 Outcome: • Depression symptomatolo gy at endpoint
	BME): NR Baseline severity: NR Type of personality disordera: Subgroup analysis of those with any personality disorder (except antisocial personality				

				Primary RCT or subgroup	Comments
Study	disorder, which was an exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above clinical cut-off for anxious- fearful axis II cluster, 26% odd-eccentric cluster, and 22% dramatic- erratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)	Intervention	Comparison	analysis	
van Bronswijk 2018 RCT Netherlands	N=49 Mean age (years): 41.1 Gender (% female): 63 Ethnicity (% BME): NR Baseline severity: BDI-II 32.16 (more severe) Type of personality disorder: Subgroup analysis of those with one or more DSM-IV Axis II disorder: 46% had avoidant PD; 32% had	Cognitive therapy Intensity: 16-20 x 45-min sessions	IPT Intensity: 16- 20 x 45-min sessions	Subgroup analysis	Treatment length (weeks): 30 Outcomes: Depression symptomatolo gy at 5-month follow-up Discontinuation due to any reason

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Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	obsessive- compulsive PD; 6% paranoid PD; 6% borderline PD; 3% dependent PD; 3% schizotypal PD; 2% schizoid PD; 2% PD not otherwise specified.				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BDI-II: Beck depression inventory; BME: black and minority ethnic; CBT: cognitive behavioural therapy; DSM: diagnostic statistical manual; IPT: interpersonal therapy; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

Table 5: Summary of included studies. Comparison 4. Cognitive behavioural therapy versus short-term psychodynamic psychotherapy

versus short-term psychodynamic psychotherapy							
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments		
Hardy 1995 RCT UK	N=27 Mean age (years): NR Gender (% female): NR Ethnicity (% BME): NR Baseline severity: BDI 25.05 (more severe) Type of personality disorder: Subgroup analysis of those with a DSM-III-R diagnosis of ≥1 cluster C personality disorder (33%	CBT individual Intensity: 8 or 16 sessions weekly (2 arms combined)	Psychodynam ic- interpersonal psychotherap y Intensity: 8 or 16 sessions weekly (2 arms combined)	Subgroup analysis	Treatment length (weeks): 8 or 16 weeks (2 arms combined) Outcomes: • Depression symptomatolo gy at endpoint • Depression symptomatolo gy at 3-month follow-up • Depression symptomatolo gy at 12- month follow- up • Interpersonal problems at endpoint • Interpersonal problems at 3- month follow- up • Interpersonal problems at 3- month follow- up		

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Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	had 2 PD diagnoses): 11% avoidant disorder and obsessive- compulsive disorder; 19% avoidant and dependent; 4% obsessive- compulsive and dependent; 19% avoidant only; 37% obsessive- compulsive only; 11% dependent only.				12-month follow-up

BDI: Beck depression inventory; BME: black and minority ethnic; DSM: diagnostic statistical manual; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

Table 6: Summary of included studies. Comparison 5. Cognitive behavioural therapy versus pill placebo

VOIGU	s pili piacebo				
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Shea 1990a RCT US	N=93 Mean age (years): NR Gender (% female): NR Ethnicity (% BME): NR Baseline severity: NR Type of personality disordera: Subgroup analysis of those with any personality disorder	CBT individual Intensity: 16- 20x 50-min sessions	Pill placebo Intensity: NR	Subgroup analysis	Treatment length (weeks): 16 Outcome: • Depression symptomatolo gy at endpoint

3 4

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	(except antisocial personality disorder, which was an exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above clinical cut-off for anxiousfearful axis II cluster, 26% odd-eccentric cluster, and 22% dramaticerratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BME: black and minority ethnic; NR: not reported; RCT: randomised controlled trial

Table 7: Summary of included studies. Comparison 6. Cognitive behavioural therapy versus antidepressant

	versu.	s antiluepressa	116			
Study		Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Fournie	er 2008	N=86	Cognitive therapy	Paroxetine	Subgroup analysis	Treatment length (weeks):
RCT US		Mean age (years): NR Gender (% female): NR Ethnicity (% BME): NR Baseline severity: NR Type of personality	Intensity: 20- 28 x 50- minute weekly or twice- weekly sessions	Intensity: NR		Outcomes: Remission Discontinuation due to any reason

				Primary	Comments
				RCT or subgroup	
Study	Population	Intervention	Comparison	analysis	
	Subgroup analysis of those with a DSM-III-R diagnosis of personality disorder (not antisocial, borderline, or schizotypal PDs which were excluded from the trial), proportions with cluster C (avoidant, dependent, obsessive-compulsive), cluster A (paranoid, schizoid), and cluster B (histrionic, narcissistic) NR for subgroup analysis.				
Shea 1990	N=89	CBT individual	Imipramine	Subgroup analysis	Treatment length (weeks):
RCT	Mean age (years): NR Gender (% female): NR Ethnicity (% BME): NR Baseline severity: NR Type of personality disordera: Subgroup analysis of those with any personality disorder (except antisocial personality disorder, which was an	Intensity: 16- 20x 50-min sessions	Intensity: NR	analysis	length (weeks): 16 Outcome: • Depression symptomatolo gy at endpoint

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Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above clinical cut-off for anxious-fearful axis II cluster, 26% odd-eccentric cluster, and 22% dramatic-erratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BME: black and minority ethnic; DSM: diagnostic statistical manual; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

Table 8: Summary of included studies. Comparison 7. CBT + fluoxetine versus IPT + fluoxetine

Tiuoxe	tille				
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Bellino 2007 RCT	N=32 Mean age	Cognitive therapy + fluoxetine	IPT + fluoxetine	Primary RCT (all participants	Treatment length (weeks): 24
Italy	(years): 30.6 Gender (% female): 73 Ethnicity (% BME): NR Baseline severity: HAMD 19.7 (more severe) Type of personality disorder:	Intensity: 24 x 1-hour weekly sessions + fluoxetine 20- 40mg/day	Intensity: 24 x 1-hour weekly sessions + fluoxetine 20- 40mg/day	met DSM-IV-TR criteria for borderline personality disorder and MDE)	Outcomes: Depression symptomatolo gy at endpoint Remission Discontinuatio n due to any reason Global functioning at endpoint

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	Borderline personality disorder				

BME: black and minority ethnic; CBT: cognitive behavioural therapy; DSM: diagnostic statistical manual; HAMD: Hamilton depression scale; IPT: interpersonal therapy; MDE: major depressive episode; NR: not reported; RCT: randomised controlled trial

4 Table 9: Summary of included studies. Comparison 8. IPT versus pill placebo

Table 9: Summ	nary of include	d studies. Com	iparison 8. IPT	versus pill p	lacebo
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Study Shea 1990 RCT US	Population N=89 Mean age (years): NR Gender (% female): NR Ethnicity (% BME): NR Baseline severity: NR Type of personality disordera: Subgroup applying of	Intervention IPT Intensity: 16- 20x 50-min sessions	Comparison Pill placebo Intensity: NR		Treatment length (weeks): 16 Outcome: Depression symptomatolo gy at endpoint
	analysis of those with any personality disorder (except antisocial personality disorder, which was an exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above clinical cut-off for anxious-fearful axis II cluster, 26% odd-eccentric				

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	cluster, and 22% dramatic- erratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BME: black and minority ethnic; IPT: interpersonal therapy; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

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Table 10: Summary of included studies. Comparison 9. IPT versus imipramine					
				Primary RCT or subgroup	Comments
Study	Population	Intervention	Comparison	analysis	
Shea 1990	N=85	IPT	Imipramine	Subgroup analysis	Treatment length (weeks): 16
RCT	Mean age (years): NR	Intensity: 16- 20x 50-min	Intensity: NR		
US		sessions			Outcome:
	Gender (% female): NR				 Depression symptomatolo gy at endpoint
	Ethnicity (% BME): NR				
	Baseline severity: NR				
	Type of personality disordera: Subgroup analysis of those with any personality disorder (except antisocial personality disorder, which was an exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above				

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	clinical cut-off for anxious- fearful axis II cluster, 26% odd-eccentric cluster, and 22% dramatic- erratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BME: black and minority ethnic; IPT: interpersonal therapy; NR: not reported; RCT: randomised controlled trial

Table 11: Summary of included studies. Comparison 10. IPT + fluoxetine versus fluoxetine

TIUOXE	etine				
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Study Bellino 2006 RCT Italy	N=39 Mean age (years): 26.4 Gender (% female): 63 Ethnicity (% BME): NR	Intervention IPT + fluoxetine Intensity: 24 x weekly 1-hour sessions + fluoxetine 20- 40mg/day	Comparison Fluoxetine Intensity: 20- 40mg/day		Treatment length (weeks): 24 Outcomes: Depression symptomatolo gy at endpoint Remission Discontinuation due to any reason
	severity: HAMD 19.1 (more severe) Type of personality disorder: Borderline personality disorder				

BME: black and minority ethnic; CBT: cognitive behavioural therapy; DSM: diagnostic statistical manual; HAMD: Hamilton depression scale; IPT: interpersonal therapy; MDE: major depressive episode; NR: not reported; RCT: randomised controlled trial

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Table 12: Summary of included studies. Comparison 11. Short-term psychodynamic psychotherapy + any antidepressant versus any antidepressant

psychotherapy + any antidepressant versus any antidepressant					
				Primary RCT or subgroup	Comments
Study	Population	Intervention	Comparison	analysis	
Kool 2003	N=85	Short-term psychodynami	Any antidepressan	Subgroup analysis	Treatment length (weeks):
RCT	Mean age (years): NR	c supportive psychotherap y + any	t (based on algorithm)		Outcomes:
Netherlands	Gender (% female): NR Ethnicity (% BME): NR Baseline severity: HAMD 20.39 (more severe) Type of personality	antidepressan t (based on algorithm) Intensity: 16 x weekly or fortnightly 45- min sessions + antidepressan t (fluoxetine 20 mg/day; amitriptyline 100-	Intensity: Fluoxetine 20 mg/day; amitriptyline 100- 150mg/day; moclobemide 300- 600mg/day		Outcomes: • Depression symptomatolo gy at endpoint • Remission • Quality of life
	personality disorder: Subgroup analysis of those with DSM-III-R PD. Proportions NR for subgroup analysis but most common types of PD were paranoid, avoidant, dependent, and borderline	150mg/day; moclobemide 300- 600mg/day)			

BME: black and minority ethnic; DSM: diagnostic statistical manual; HAMD: Hamilton depression scale; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

Table 13: Summary of included studies. Comparison 12. Fluoxetine versus nortriptyline

northptyline						
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments	
Joyce 2003	N=83	Fluoxetine 10- 80mg/day	Nortriptyline 50-175mg/day	Subgroup analysis	Treatment length (weeks):	
RCT	Mean age (years): 30.4				6	
New Zealand					Outcomes:	
	Gender (% female): 52				 Depression symptomatolo gy endpoint 	

4

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	Ethnicity (% BME): NR Baseline severity: MADRS 32.69 (more severe) Type of personality disorder: Subgroup analysis of those with DSM-III-R PD diagnosis: 36% borderline personality disorder; 64% other PD (including 42% avoidant PD)				Response Discontinuation due to any reason

BME: black and minority ethnic; DSM: diagnostic statistical manual; MADRS: Montgomery-Asberg depression rating scale; NR: not reported; PD: personality disorder; RCT: randomised controlled trial

Table 14: Summary of included studies. Comparison 13. Imipramine versus pill placebo

piacei	00				
Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
Shea 1990	N=92	Imipramine	Pill placebo	Subgroup analysis	Treatment length (weeks):
RCT	Mean age (years): NR	Intensity: NR	Intensity: NR	ŕ	Outcome: • Depression symptomatolo gy endpoint
US	Gender (% female): NR				
	Ethnicity (% BME): NR				
	Baseline severity: NR				
	Type of personality disorder ^a : Subgroup analysis of those with any				

Study	Population	Intervention	Comparison	Primary RCT or subgroup analysis	Comments
	personality disorder (except antisocial personality disorder, which was an exclusion criterion for the trial), assessed using clinical cut-offs on the Personality Assessment Form. 87% scored above clinical cut-off for anxious- fearful axis II cluster, 26% odd-eccentric cluster, and 22% dramatic- erratic cluster (do not sum to 100% as 30% scored above clinical cut-off for >1 PD)				

^aPersonality disorder percentages based on the whole 4-armed trial and not only the 2 arms included here BME: black and minority ethnic; NR: not reported; RCT: randomised controlled trial

4 See the full evidence tables in appendix D and the forest plots in appendix E.

5 Quality assessment of clinical outcomes included in the evidence review

6 See the clinical evidence profiles in appendix F.

7 Economic evidence

8 Included studies

1

3

- 9 A single economic search was undertaken for all topics included in the scope of this
- 10 guideline but no economic studies were identified which were applicable to this review
- 11 question. See the literature search strategy in appendix B and economic study selection flow
- 12 chart in appendix G.

13 Excluded studies

- 14 A list of excluded economic and utility studies, with reasons for exclusion, is provided in
- 15 supplement 3 Health economic included & excluded studies.

1 Economic model

- 2 No economic modelling was undertaken for this review because the committee agreed that
- 3 other topics were higher priorities for economic evaluation.

4 Evidence statements

5 Clinical evidence statements

- 6 Very little meta-analysis was possible for this review, with only one outcome including more
- than 1 study and even then only 2 studies were included. This was due to variability in the
- 8 comparisons and outcomes reported, which meant that in the vast majority of instances no 2
- 9 studies were reporting on the same outcome for the same comparison.

10 Comparison 1: Behavioural therapy versus short-term psychodynamic psychotherapy

11 Critical outcomes

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12 **Depression symptomatology**

- Very low quality evidence from 1 RCT (N=24) shows a clinically important and statistically significant benefit of behavioural therapy, relative to short-term psychodynamic psychotherapy, on depression symptomatology at endpoint for adults with depression and coexisting personality disorder.
- Very low quality evidence from 1 RCT (N=24) shows neither a clinically important nor statistically significant difference between behavioural therapy and short-term psychodynamic psychotherapy on depression symptomatology at 1-month follow-up, for adults with depression and coexisting personality disorder.
- Very low quality evidence from 1 RCT (N=24) shows a clinically important but not statistically significant benefit of behavioural therapy, relative to short-term psychodynamic psychotherapy, on depression symptomatology at 3-month follow-up for adults with depression and coexisting personality disorder.
- Very low quality evidence from 1 RCT (N=24) shows a clinically important and statistically significant benefit of behavioural therapy, relative to short-term psychodynamic psychotherapy, on depression symptomatology at 6-month follow-up for adults with depression and coexisting personality disorder.
- Very low quality evidence from 1 RCT (N=24) shows neither a clinically important nor statistically significant difference between behavioural therapy and short-term psychodynamic psychotherapy on depression symptomatology at 8-month follow-up, for adults with depression and coexisting personality disorder.

33 Remission

No evidence was identified for this outcome.

35 **Response**

36 No evidence was identified for this outcome.

37 Discontinuation due to any reason

38 No evidence was identified for this outcome.

1 Important outcomes:

- 2 Quality of life
- 3 No evidence was identified for this outcome.
- 4 Personal, social, and occupational functioning
- 5 No evidence was identified for this outcome.

6

- 7 Comparison 2: Cognitive behavioural therapy versus counselling
- 8 Critical outcomes
- 9 Depression symptomatology
- Low quality evidence from 1 RCT (N=103) shows neither a clinically important nor statistically significant difference between CBT and counselling on depression
- symptomatology at endpoint, for adults with depression and coexisting personality
- 13 disorder.
- 14 Remission
- 15 No evidence was identified for this outcome.
- 16 Response
- 17 No evidence was identified for this outcome.
- 18 **Discontinuation due to any reason**
- 19 No evidence was identified for this outcome.
- 20 Important outcomes:
- 21 Quality of life
- No evidence was identified for this outcome.
- 23 Personal, social, and occupational functioning
- No evidence was identified for this outcome.

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- 26 Comparison 3: Cognitive behavioural therapy versus interpersonal therapy
- 27 Critical outcomes
- 28 Depression symptomatology
- Low quality evidence from 2 RCTs (N=135) shows neither a clinically important nor statistically significant difference between CBT and IPT on depression symptomatology at
- endpoint, for adults with depression and coexisting personality disorder.

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- Very low quality evidence from 1 RCT (N=49) shows neither a clinically important nor
 statistically significant difference between CBT and IPT on depression symptomatology at
 5-month follow-up, for adults with depression and coexisting personality disorder.
- 4 Remission
- 5 No evidence was identified for this outcome.
- 6 Response

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- 7 No evidence was identified for this outcome.
- 8 Discontinuation due to any reason
 - Very low quality evidence from 1 RCT (N=49) shows a higher rate of discontinuation due to any reason associated with CBT relative to IPT for adults with depression and coexisting personality disorder, however this effect is not statistically significant.

13 Important outcomes

- 14 Quality of life
- 15 No evidence was identified for this outcome.
- 16 Personal, social, and occupational functioning
- 17 No evidence was identified for this outcome.

19 Comparison 4: Cognitive behavioural therapy versus short-term psychodynamic psychotherapy

21 Critical outcomes

- 22 Depression symptomatology
- Very low quality evidence from 1 RCT (N=24-27) shows neither a clinically important nor statistically significant difference between CBT and short-term psychodynamic psychotherapy on depression symptomatology at endpoint and at 3-month and 12-month follow-up, for adults with depression and coexisting personality disorder.
- 27 Remission
- No evidence was identified for this outcome.
- 29 Response
- 30 No evidence was identified for this outcome.
- 31 Discontinuation due to any reason
- 32 No evidence was identified for this outcome.

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1 Important outcomes

2 Quality of life

3 No evidence was identified for this outcome.

4 Personal, social, and occupational functioning

 Very low quality evidence from 1 RCT (N=24-27) shows neither a clinically important nor statistically significant difference between CBT and short-term psychodynamic psychotherapy on interpersonal problems at endpoint and at 3-month and 12-month follow-up, for adults with depression and coexisting personality disorder.

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10 Comparison 5: Cognitive behavioural therapy versus pill placebo

11 Critical outcomes

12 Depression symptomatology

- Very low quality evidence from 1 RCT (N=93) shows a statistically significant but not clinically important benefit of CBT, relative to pill placebo, on depression symptomatology at endpoint for adults with depression and coexisting personality disorder.
- 16 Remission
- 17 No evidence was identified for this outcome.
- 18 Response
- 19 No evidence was identified for this outcome.
- 20 Discontinuation due to any reason
- 21 No evidence was identified for this outcome.
- 22 Important outcomes:
- 23 Quality of life
- No evidence was identified for this outcome.
- 25 Personal, social, and occupational functioning
- 26 No evidence was identified for this outcome.

27

28 Comparison 6: Cognitive behavioural therapy versus antidepressant

29 Critical outcomes

30 Depression symptomatology

Low quality evidence from 1 RCT (N=89) shows neither a clinically important nor statistically significant difference between CBT and imipramine on depression symptomatology at endpoint, for adults with depression and coexisting personality disorder.

1 Remission

- Very low quality evidence from 1 RCT (N=86) shows a lower rate of remission
 associated with CBT relative to paroxetine for adults with depression and coexisting
 personality disorder, however this effect is not statistically significant.
- 5 Response

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- 6 No evidence was identified for this outcome.
- 7 Discontinuation due to any reason
 - Very low quality evidence from 1 RCT (N=86) shows a higher rate of discontinuation due to any reason associated with CBT relative to paroxetine for adults with depression and coexisting personality disorder, however this effect is not statistically significant.
- 11 Important outcomes:
- 12 Quality of life
- 13 No evidence was identified for this outcome.
- 14 Personal, social, and occupational functioning
- No evidence was identified for this outcome.
- 17 Comparison 7: CBT + fluoxetine versus IPT + fluoxetine
- 18 Critical outcomes
- 19 **Depression symptomatology**
- Very low quality evidence from 1 RCT (N=26) shows neither a clinically important nor statistically significant difference between combined CBT and fluoxetine and combined IPT and fluoxetine on depression symptomatology at endpoint, for adults with depression and coexisting personality disorder.
- 24 Remission
- Very low quality evidence from 1 RCT (N=32) shows neither a clinically important nor statistically significant difference between combined CBT and fluoxetine and combined IPT and fluoxetine on the rate of remission, for adults with depression and coexisting personality disorder.
- 29 Response
- 30 No evidence was identified for this outcome.
- 31 Discontinuation due to any reason
- Very low quality evidence from 1 RCT (N=32) shows a higher rate of discontinuation due to any reason associated with combined CBT and fluoxetine relative to combined IPT and fluoxetine for adults with depression and coexisting personality disorder, however this effect is not statistically significant.

1 Important outcomes:

2 Quality of life

3 No evidence was identified for this outcome.

4 Personal, social, and occupational functioning

 Low quality evidence from 1 RCT (N=26) shows a clinically important but not statistically significant benefit of combined CBT and fluoxetine, relative to combined IPT and fluoxetine, on global functioning at endpoint for adults with depression and coexisting personality disorder.

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10 Comparison 8: IPT versus pill placebo

11 Critical outcomes

12 Depression symptomatology

- Very low quality evidence from 1 RCT (N=89) shows neither a clinically important nor statistically significant difference between IPT and pill placebo on depression symptomatology at endpoint, for adults with depression and coexisting personality
- 16 disorder.

17 Remission

- 18 No evidence was identified for this outcome.
- 19 **Response**
- No evidence was identified for this outcome.
- 21 Discontinuation due to any reason
- No evidence was identified for this outcome.
- 23 Important outcomes:
- 24 Quality of life
- No evidence was identified for this outcome.
- 26 Personal, social, and occupational functioning
- No evidence was identified for this outcome.

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29 Comparison 9: IPT versus imipramine

30 Critical outcomes

31 Depression symptomatology

- Low quality evidence from 1 RCT (N=85) shows neither a clinically important nor statistically significant difference between IPT and imipramine on depression symptomatology at endpoint, for adults with depression and coexisting personality
- 35 disorder.

- 1 Remission
- 2 No evidence was identified for this outcome.
- 3 Response
- 4 No evidence was identified for this outcome.
- 5 Discontinuation due to any reason
- 6 No evidence was identified for this outcome.
- 7 Important outcomes:
- 8 Quality of life
- 9 No evidence was identified for this outcome.
- 10 Personal, social, and occupational functioning
- 11 No evidence was identified for this outcome.

- 13 Comparison 10: IPT + fluoxetine versus fluoxetine
- 14 Critical outcomes
- 15 **Depression symptomatology**
- Low quality evidence from 1 RCT (N=32) shows a clinically important and statistically
 significant benefit of combined IPT and fluoxetine, relative to fluoxetine-only, on
- depression symptomatology at endpoint for adults with depression and coexisting
- 19 personality disorder.
- 20 Remission
- Very low quality evidence from 1 RCT (N=39) shows a higher rate of remission
 associated with combined IPT and fluoxetine relative to fluoxetine-only for adults with
- depression and coexisting personality disorder, however this effect is not statistically
- 24 significant.
- 25 **Response**
- 26 No evidence was identified for this outcome.
- 27 Discontinuation due to any reason
- Very low quality evidence from 1 RCT (N=39) shows a lower rate of discontinuation due
 to any reason associated with combined IPT and fluoxetine relative to fluoxetine-only for
- adults with depression and coexisting personality disorder, however this effect is not
- 31 statistically significant.
- 32 Important outcomes:
- 33 Quality of life
- No evidence was identified for this outcome.

1 Personal, social, and occupational functioning

2 No evidence was identified for this outcome.

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- 4 Comparison 11: Short-term psychodynamic psychotherapy + any antidepressant versus 5 any antidepressant
- 6 Critical outcomes

7 Depression symptomatology

Very low quality evidence from 1 RCT (N=85) shows a statistically significant but not
clinically important benefit of combined short-term psychodynamic psychotherapy and
antidepressant treatment, relative to antidepressant treatment alone, on depression
symptomatology at endpoint for adults with depression and coexisting personality
disorder.

13 Remission

- Very low quality evidence from 1 RCT (N=85) shows a clinically important and statistically significant benefit of combined short-term psychodynamic psychotherapy and antidepressant treatment, relative to antidepressant treatment alone, on the rate of remission for adults with depression and coexisting personality disorder.
- 18 Response
- 19 No evidence was identified for this outcome.
- 20 Discontinuation due to any reason
- 21 No evidence was identified for this outcome.
- 22 Important outcomes:
- 23 Quality of life
- Very low quality evidence from 1 RCT (N=85) shows a clinically important and
 statistically significant benefit of combined short-term psychodynamic psychotherapy
 and antidepressant treatment, relative to antidepressant treatment alone, on quality of
 life for adults with depression and coexisting personality disorder.
- 28 Personal, social, and occupational functioning
- 29 No evidence was identified for this outcome.

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- 31 Comparison 12: Fluoxetine versus nortriptyline
- 32 Critical outcomes
- 33 Depression symptomatology
- Very low quality evidence from 1 RCT (N=83) shows neither a clinically important nor statistically significant difference between fluoxetine and nortriptyline on depression

Depression with coexisting personality disorder

1 symptomatology at endpoint, for adults with depression and coexisting personality 2 disorder.

Remission 3

4 No evidence was identified for this outcome.

5 Response

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Very low quality evidence from 1 RCT (N=83) shows neither a clinically important nor statistically significant difference between fluoxetine and nortriptyline on the rate of response, for adults with depression and coexisting personality disorder.

Discontinuation due to any reason

10 Very low quality evidence from 1 RCT (N=83) shows a lower rate of discontinuation due to any reason associated with fluoxetine relative to nortriptyline for adults with 12 depression and coexisting personality disorder, however this effect is not statistically 13 significant.

14 Discontinuation due to side effects

- No evidence was identified for this outcome. 15
- 16 Important outcomes:
- 17 **Quality of life**
- No evidence was identified for this outcome. 18
- 19 Personal, social, and occupational functioning
- 20 No evidence was identified for this outcome.

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22 Comparison 13: Imipramine versus pill placebo

23 Critical outcomes

24 **Depression symptomatology**

 Very low quality evidence from 1 RCT (N=92) shows neither a clinically important nor statistically significant difference between imipramine and pill placebo on depression symptomatology at endpoint, for adults with depression and coexisting personality disorder.

29 Remission

No evidence was identified for this outcome. 30

31 Response

No evidence was identified for this outcome. 32

1 Discontinuation due to any reason

2 No evidence was identified for this outcome.

3 Discontinuation due to side effects

4 No evidence was identified for this outcome.

5 Important outcomes:

- 6 Quality of life
- 7 No evidence was identified for this outcome.

8 Personal, social, and occupational functioning

9 No evidence was identified for this outcome.

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11 Economic evidence statements

12 No economic evidence was identified which was applicable to this review question.

13 The committee's discussion of the evidence

14 Interpreting the evidence

15 The outcomes that matter most

- The aim of this review was to identify the most effective treatments for depression in people
- with a coexisting personality disorder, so the committee prioritised depression
- symptomatology, remission and response as critical outcomes. Where interventions were
- 19 targeted at keeping people who were in full or partial remission well, relapse was identified
- as a critical outcome. As a treatment can only be effective if it is utilised by the person with
- 21 depression, discontinuation due to side effects and discontinuation due to any reason were
- 22 also prioritised by the committee as critical outcomes.
- 23 The aim of treating depression is to improve people's life and so health-related quality of life
- and personal, social and occupational functioning were chosen as important outcomes. The
- committee were cognisant that for people with depression, quality of life may be the most
- valued outcome, however, it was not prioritised as a critical outcome as the committee were
- aware that the data for this outcome was very limited, and so was less useful for making
- 28 decisions
- 29 Due to the difficulties in engaging this group of people in treatment and the perception that
- 30 outcomes may be poorer in this group, the committee placed the greatest emphasis on
- 31 remission data and discontinuation rates.

32 The quality of the evidence

- 33 The quality of the evidence for this review was assessed using GRADE. Overall the evidence
- was of low to very low quality. It was downgraded due to high risk of bias across multiple
- domains and wide confidence intervals (imprecision commonly associated with small sample
- sizes). Additionally, although there were a large number of comparisons, these largely
- included only single studies.

- 1 Depression symptomatology was reported for all comparisons, but only 4 comparisons
- 2 reported remission and 1 reported response. Five comparisons reported discontinuation
- 3 rates, 2 reported functional outcomes and only 1 reported quality of life.

4 Benefits and harms

- 5 The committee noted that there was some evidence of benefit on depression
- 6 symptomatology for 2 of the comparisons of monotherapies: CBT alone compared to pill
- 7 placebo, and behavioural therapy alone compared to short-term psychodynamic
- 8 psychotherapy. There was also evidence for clinical benefit from studies with combined
- 9 psychological (either IPT or short-term psychodynamic psychotherapy) and pharmacological
- treatment when compared with pharmacological monotherapy. Other evidence comparing
- 11 psychological treatments to pill placebo, pharmacological treatments to pill placebo, one
- 12 psychological treatment with another, one pharmacological treatment with another, or a
- psychological treatment to a pharmacological treatment showed no significant differences.
- 14 The committee therefore recommended that in people with depression and coexisting
- personality disorder, their depression should be treated with a combination of an
- antidepressant and a psychological therapy.
- 17 The committee noted that although, based on the evidence, treatments combining an
- antidepressant with a high-intensity psychological intervention appeared to be the most
- 19 effective, the evidence base for this question was limited in volume, with only small RCTs of
- low or very low quality. Consequently, they were only able to recommend combination
- 21 treatment be 'considered' and they were not able to recommend a specific antidepressant or
- 22 psychological therapy, but agreed that this would depend on the person's preference.
- The committee were aware, based on their clinical experience and knowledge, of the
- significant problems in engaging, and ensuring uptake of treatment, for people with
- depression and a coexisting personality disorder. They therefore recommended that support
- 26 should be provided to encourage uptake and engagement. A multi-disciplinary setting was
- 27 considered by the committee to be important due to the complexity of the difficulties
- 28 experienced by this population, as this allows access to appropriate expertise. On the basis
- of their knowledge and clinical experience, and their concerns that some people may not
- receive an adequate 'dose' of treatment, the committee decided that it was important to
- 31 specify that it may be necessary to extend the duration of treatment, relative to the length
- 32 and frequency of treatment that individuals experiencing a depressive episode without a
- coexisting personality disorder may receive. They noted that this will not always be
- 34 appropriate, and therefore decided to add the qualifying statement 'if needed' to indicate that
- this is best left to clinical judgement.
- 36 The committee noted that this review covered people with depression comorbid with a
- personality disorder, but that there are different types of personality disorder and it was not
- 38 always clear from the evidence which types had been included, or if all types had been
- 39 combined and considered. The committee agreed that one of the most common types is
- 40 emotionally unstable personality disorder (previously known as borderline personality
- disorder) and they were aware that there is existing NICE guidance about the treatment of
- 42 people with borderline personality disorders with comorbid depression which recommends
- treatment within a well-structured treatment programme for borderline personality disorder.
- The committee therefore wanted to make recommendations that were in line with the existing
- 45 NICE guideline on borderline personality disorder, and so recommended that referral to a
- specialist personality treatment disorder programme should be considered.
- 47 The committee considered that possible harms would be inadequate duration and intensity of
- 48 treatment or the provision of ineffective treatment, or the potential for pharmacological
- 49 treatment to exacerbate mood instability, adding to the importance of prospective mood
- 50 monitoring for these patients during treatment initiation or change. However, they agreed that

Depression with coexisting personality disorder

- 1 the percentage of people who were likely to benefit from these recommendations would be
- 2 higher than those experiencing any harms.

3 Longer-term follow-up

- 4 The committee noted that very few studies of depression with coexisting PD reported any
- 5 follow-up data. The committee considered this limited evidence, and noted that there was no
- 6 evidence for sustained clinically important and statistically significant benefits on depression
- 7 outcomes associated with any of the interventions included in the review. This was
- 8 consistent with broader uncertainty associated with the limited evidence base and
- 9 contributed to the committee agreement that they were only able to recommend that
- 10 combination psychological and antidepressant treatment be 'considered'.

11 Quality of life and functioning outcomes

- 12 The committee also noted that there was very little data for quality of life or functioning
- outcomes. There was no evidence for clinically important and statistically significant effects
- on quality of life or functioning associated with any of the interventions included in the review.
- 15 Given the sparsity of this evidence, and that it is broadly consistent with the findings
- observed for the critical outcomes, the committee did not consider it necessary to make any
- 17 changes to recommendations based on effects observed for quality of life and functioning
- 18 outcomes.

19 Cost effectiveness and resource use

- 20 No evidence on the cost-effectiveness of interventions for adults with depression and a
- 21 coexisting personality disorder was identified and no further economic analysis was
- 22 undertaken.
- 23 The committee considered that these recommendations would bring practice in line with what
- 24 has been recommended in the NICE guideline on borderline personality disorder and
- 25 therefore there were unlikely to be any additional costs associated with these
- 26 recommendations. They also agreed that better treatment of depression with coexisting
- 27 personality disorder would probably lead to a reduction in downstream costs associated with
- 28 not dealing with this condition effectively.
- 29 The committee considered the results of the guideline economic analysis on treatment of
- 30 new episodes of more severe depression (evidence report B, appendix J), which suggested
- 31 that combination of antidepressant and high-intensity psychological intervention (CBT) was
- one of the most cost-effective treatments among those assessed, and expressed the opinion
- that, since this treatment showed clinical superiority over pharmacological treatment alone in
- people with depression and coexisting personality disorder, it was likely to be cost-effective
- as well, especially considering the high costs of care associated with sub-optimal treatment
- of this population.
- 37 The committee acknowledged that referral to a specialist personality disorder treatment
- 38 programme for people with depression comorbid with personality disorder involves use of
- 39 additional healthcare resources at extra cost; however they noted that this reflects current
- 40 practice and is in line with existing NICE guideline on borderline personality disorder. The
- 41 committee expressed the view that referral to specialists with expertise in personality
- disorder treatment is essential to deal with the complex needs of this population and that
- 43 specialist care is likely to lead to improved outcomes regarding both the personality disorder
- 44 and, subsequently, depression (as treatment of the personality disorder by specialist services
- may lead to an improvement in depression), which are likely to outweigh costs associated
- 46 with referral.

1 Recommendations supported by this evidence review

2 This evidence review supports recommendations 1.11.1 to 1.11.3 in the NICE guideline.

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DRAFT FOR CONSULTATION

Depression with coexisting personality disorder

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- 3
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- disorders, 225, 530-538. 5

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Appendices

2 Appendix A – Review protocol

- 3 Review protocol for review question: For adults with depression and a coexisting personality disorder what are the relative
- 4 benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and
- 5 physical interventions alone or in combination?

6 Table 15: Review protocol for depression with personality disorder

Field (based on PRISMA-P)	Content
Review question	For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?
Objectives	To identify the most effective first-line treatment or relapse prevention strategy for adults with depression and a coexisting personality disorder
Population	Adults with depression and a coexisting personality disorder If some, but not all, of a study's participants are eligible for the review, then we will include a study if at least 80% of its participants are eligible for this review
Exclude	Trials of women with antenatal or postnatal depression Trials of children and young people (mean age under 18 years) Trials of people with learning disabilities Trials of people with bipolar disorder Trials of adults in contact with the criminal justice system (not solely as a result of being a witness or victim) Trials that specifically recruit participants with a physical health condition in addition to depression (e.g. depression in people with diabetes) Trials of further-line treatment following no/inadequate/limited response
Intervention	Interventions listed below are examples of interventions which may be included either alone or in combination.

Field (based on PRISMA-P)	Content
	Psychological interventions
	 Behavioural therapies (including behavioural activation, behavioural therapy [Lewinsohn 1976], coping with depression group)
	 Cognitive and cognitive behavioural therapies (including CBT individual or group, problem solving, rational emotive behaviour therapy [REBT] and third-wave cognitive therapies individual or group)
	 Counselling (including emotion-focused therapy [EFT], non-directive/supportive/ person-centred counselling and relational client-centred therapy)
	Family interventions/couples therapy
	 Psychodynamic psychotherapies (including short-term psychodynamic psychotherapy, long-term psychodynamic psychotherapy and psychodynamic counselling)
	 Self-help with or without support (including cognitive bibliotherapy with or without support, computerised CBT [CCBT] with or without support, computerised psychodynamic therapy with or without support)
	Art therapy
	Music therapy
	• Eye movement desensitization and reprocessing (EMDR) (for depression, not PTSD)
	Psychosocial interventions
	Peer support (including befriending, mentoring, and community navigators)
	 Mindfulness, meditation or relaxation (including mindfulness-based stress reduction [MBSR])
	Pharmacological interventions
	Selective serotonin reuptake inhibitors
	Tricyclic antidepressants
	Serotonin-norepinephrine reuptake inhibitors
	Other antidepressant drugs (including mirtazapine and trazodone)
	Antipsychotics
	• Lithium
	Omega-3 fatty acids

Field (based on PRISMA-P)	Content
	Physical interventions Acupuncture ECT Exercise Yoga Light therapy (for depression, not SAD)
Comparison	Treatment as usual Waitlist No treatment Placebo Other active intervention (must also meet inclusion criteria above)
Outcomes	Critical outcomes: Efficacy Depression symptomatology (mean endpoint score or change in depression score from baseline) Remission (usually defined as a cut off on a depression scale) Response (usually defined as at least 50% improvement from the baseline score on a depression scale) Relapse (number of participants who relapsed) The following depression scales will be included in the following hierarchy: MADRS HAMD QIDS PHQ CGI (for dichotomous outcomes only) CES-D BDI HADS-D (depression subscale)

Field (based on PRISMA-P)	Content
,	HADS (full scale)
	Acceptability/tolerability
	Discontinuation due to any reason (including side effects)
	Discontinuation due to side effects (for pharmacological trials)
	Important, but not critical, outcomes:
	Quality of life
	Quality of life; as assessed with a validated scale, including the
	o 12-item/36-item Short-Form Survey [SF-12/SF-36],
	 26-item short version of the World Health Organization Quality of Life assessment [WHOQOL-BREF],
	o EuroQoL [EQ5D],
	Quality of Life Depression Scale [QLDS], Quality of Life Enjoyment and Setisfaction Quarticipation [QLES Q].
	Quality of Life Enjoyment and Satisfaction Questionnaire [Q-LES-Q], Quality of Life Inventory [Qel I]
	 Quality of Life Inventory [QoLI], World Health Organization 5-item Well-Being Index [WHO-5]
	o
	Personal, social, and occupational functioning
	Global functioning; as assessed with a validated scale, including
	∘ Global Assessment of Functioning [GAF],
	∘ Global Assessment Scale [GAS],
	 Social and Occupational Functioning Assessment Scale [SOFAS])
	Functional impairment; as assessed with a validated scale, including
	o Sheehan Disability Scale [SDS],
	o Social Adjustment Scale [SAS],
	Work and Social Adjustment Scale [WSAS]
	Sleeping difficulties; as assessed with a validated scale, including
	∘ Insomnia Severity Index [ISI]
	○ Pittsburgh Sleep Quality Index [PSQI]

Field (based on PRISMA-P)	Content
	• Employment (for instance, % unemployed)
	 Interpersonal problems (as assessed with a validated scale, including Inventory of Interpersonal Problems [IIP])
	Outcomes will be assessed at endpoint and follow-up (data for all available follow-up periods of at least 1-month post-intervention will be extracted and will be grouped into categories for analysis, for instance, 1-3 months, 4-6 months, 7-9 months, 10-12 months, 13-18 months, 19-24 months, and >2 years).
Study design	RCTs
	Systematic reviews of RCTs
Include unpublished data?	Conference abstracts, dissertations and unpublished data will not be included unless the data can be extracted from elsewhere (for instance, from the previous guideline)
Restriction by date?	All relevant studies from previous searches (pre-2016) will be carried forward. No restriction on date for the updated search, studies published between database inception and the date the searches are run will be sought.
Minimum sample size	N = 10 in each arm
	Studies with <50% completion data (drop out of >50%) will be excluded.
Study setting	Primary, secondary, tertiary and social care settings.
	Non-English-language papers will be excluded (unless data can be obtained from an existing review).
The review strategy	Data Extraction (selection and coding)
	Citations from each search will be downloaded into EndNote and duplicates removed. Titles and abstracts of identified studies will be screened by two reviewers for inclusion against criteria, until a good inter-rater reliability has been observed (percentage agreement =>90%). Initially 10% of references will be double-screened. If inter-rater agreement is good then the remaining references will be screened by one reviewer. All primary-level studies included after the first scan of citations will be acquired in full and re-evaluated for eligibility at the time they are being entered into a study database (standardised template created in Microsoft Excel). At least 10% of data extraction will be double-coded. Discrepancies or difficulties with coding will be resolved through discussion between reviewers or the opinion of a third reviewer will be sought.
	<u>Data Analysis</u>

Field (based on PRISMA-P)	Content
	A meta-analysis using a random-effects model will be conducted to combine results from similar studies. An intention to treat (ITT) approach will be taken where possible.
	Risk of bias will be assessed at the study level using the Cochrane risk of bias tool. This assessment includes: adequacy of randomisation (sufficient description of randomisation method, allocation concealment and any baseline difference between groups); blinding (of participants, intervention administrators and outcome assessors); attrition ('at risk of attrition bias' defined as a dropout of more than 20% and completer analysis used, or a difference of >20% between the groups); selective reporting bias (is the protocol registered, are all outcomes reported); other bias (for instance, conflict of interest in funding).
	Risk of bias will also be assessed at the outcome level using GRADE. For heterogeneity, outcomes will be downgraded once if I2>50%, twice if I2>80%. For imprecision, outcomes will be downgraded using rules of thumb. If the 95% CI is imprecise i.e. crosses the line of no effect and the threshold for clinical benefit/harm, 0.8 or 1.25 (dichotomous) or -0.5 or 0.5 SMD (for continuous), the outcome will be downgraded. Outcomes will be downgraded one or two levels depending on how many lines it crosses. If the 95% CI is not imprecise, we will consider whether the criterion for Optimal Information Size is met (for dichotomous outcomes, 300 events; for continuous outcomes, 400 participants), if not we will downgrade one level.
Heterogeneity (sensitivity analysis and subgroups)	No sub-analyses are planned
Notes	Studies investigating further-line treatment of depression with coexisting personality disorder will be considered under RQ 2.4 and any differences in efficacy due to coexisting personality disorder will be examined through sub-analysis in that review
Information sources – databases and dates	Database(s): Embase 1974 to Present, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present; Cochrane Library; WEB OF SCIENCE
Identify if an update	Update of CG90 (2009)
Author contacts	For details please see the guideline in development web site.
Highlight if amendment to previous protocol	For details please see section 4.5 of Developing NICE guidelines: the manual 2014
Search strategy – for one database	For details please see appendix B.

or H (eco Data items – define all variables to be collected Methods for assessing bias at outcome/study level Standard 6.2 of De The risk o 'Grading the intern Criteria for quantitative synthesis Methods for quantitative analysis – combining studies and exploring (in)consistency Meta-bias assessment – publication bias, For detail	rdised evidence table format will be used, and published as appendix D (clinical evidence tables) onomic evidence tables). Is please see evidence tables in appendix D (clinical evidence tables) or H (economic evidence study checklists were used to critically appraise individual studies. For details please see section
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Methods for quantitative analysis – combining studies and exploring (in)consistency Meta-bias assessment – publication bias, For detail	of bias across all available evidence was evaluated for each outcome using an adaptation of the of Recommendations Assessment, Development and Evaluation (GRADE) toolbox' developed by national GRADE working group http://www.gradeworkinggroup.org/.
studies and exploring (in)consistency Meta-bias assessment – publication bias, For detail	ls please see section 6.4 of Developing NICE guidelines: the manual 2014
·	Is please see the methods chapter.
selective reporting bias	ls please see section 6.2 of Developing NICE guidelines: the manual 2014.
Confidence in cumulative evidence For detail	ls please see sections 6.4 and 9.1 of Developing NICE guidelines: the manual 2014
Rationale/context – what is known For detail	Is please see the introduction to the evidence review.
guarantor National (sciplinary committee developed the evidence review. The committee was convened by the Guideline Alliance (NGA) and chaired by Dr Navneet Kapur in line with section 3 of Developing delines: the manual 2014.
analysis a	n the NGA undertook systematic literature searches, appraised the evidence, conducted meta- and cost effectiveness analysis where appropriate, and drafted the guideline in collaboration with nittee. For details please see the methods chapter.
Sources of funding/support The NGA	is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists.
Name of sponsor The NGA	is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists.
Roles of sponsor NICE fun England	ds NGA to develop guidelines for those working in the NHS, public health and social care in
PROSPERO registration number Not applie	

BDI: Beck depression inventory;(C)CBT: (computerised) cognitive behavioural therapy; CDSR: Cochrane Database of Systematic Reviews; CENTRAL: Cochrane Central Register of Controlled Trials; CES-D: Centre of epidemiology studies – depression; CGI: clinical global impressions; CI: confidence interval; DARE: Database of Abstracts of

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Reviews of Effects; DSM: Diagnostic and statistical manual; ECT: electroconvulsive therapy; EFT: emotion-focused therapy; EMDR: eye movement desensitization and reprocessing; EQ-5D: European quality of life 5 dimensions; GAF: global assessment of functioning; GAS: global assessment scale; GRADE: Grading of Recommendations Assessment, Development and Evaluation; HADS (D): hospital anxiety and depression scale (depression); HAMD: Hamilton Depression Rating Scale; ICD: International classification of diseases; IIP: inventory of interpersonal problems; ISI: insomnia severity index; ITT: intention to treat; MADRS: Montgomery-Asberg Depression Rating Scale; MBSR: Mindfulness-based stress reduction; MID: minimally important difference; NGA: National Guideline Alliance; NHS: National health service; NICE: National Institute for Health and Care Excellence; PHQ-9: patient health questionnaire-9; PSQI: Pittsburgh sleep quality index; PTSD: post-traumatic stress disorder; QIDS: quick inventory of depressive symptomatology; QLDS: quality of life depression scale; Q-LES-Q: quality of life enjoyment and satisfaction questionnaire QOLI: quality of life inventory RCT: randomised controlled trial: REBT: rational emotive behaviour therapy: RoB: risk of bias: SAD: seasonal affective disorder: SAS: social adjustment scale; SDS: Sheehan disability scale; SF12/SF36 - short form 12 or 36 items; SMD: standardised mean difference; SOFAS: social and occupational functioning assessment scale; WHOQOL-BRIEF: World health organization quality of life assessment (brief): WHO-5: world health organization 5-item wellbeing index; WSAS: work and social adjustment scale

Appendix B – Literature search strategies

Literature search strategies for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Clinical search

Database(s): Embase 1974 to 2019 Week 20, Emcare 1995 to present, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to May 20, 2019, PsycINFO 1806 to May Week 2 2019

Date of search: 21/05/2019 Search updated: 06/04/2020

(depression/ or agitated depression/ or atypical depression/ or depression/ or dysthymia/ or endogenous depression/ or involutional depression/ and left depression/ or depression/ or masked depression/ or melancholal or "mixed anxiety and depression" or reactive depression/ or persession/ or adjective disorders/ or atypical depression/) use psyh (depression (emotion)" or exp melancho" or (affective or mood) adj disorder").tw. (depression/ or major or for honic" or complex" or critical" or endur or persist" or resist or acute) adj? (anxiety or (mental adj2 (disorder" or health or illness* or ill-health)) or (obsessive adj2 disorder*) or OCD or panic attack* or panic disorder* or phobi* or personality disorder* or psychiatric disorder* or psychiatric illness* or psychiatric disorders/ use personality disorder/ use oemezd, emcr **exp personality disorders/ use pepz, psyh comorbidity/ psychiatric diagnosis/ use pezd, emcr **Diagnosis, Dual (Psychiatry)*/ use ppez dual diagnosis/ use psyh (condition* or diagnos* or disorder* or morbidit* or personalit* or psychiatric or polymorbid* or plural* or polypathy) adj (condition* or diagnos* or disorder* or morbidit* or personalit* or psychiatric or psychiatric prescription or psychiatric prescription or psychiatric prescription or psychiatric prescription or psychodeucation/ or self help/ or exp support group/) use oemezd, emcr (exp Psychotherapy/ or self-help Groups) use peze (exp psychotherapy/ or self-help Groups) use peze (exp psychotherapy/ or behavioral activation system/ or bibliotherapy* or or problem solving/ or spychodeucation/ or mindfulness/ o	#	Searches
melancholia/ or "mixed anxiety and depression/" or reactive depression/ or recurrent brief depression/ or treatment resistant depression/) use oemezd,emcr (Depression or Depressive Disorder/ or Depressive Disorder, Major/ or Depressive Disorder, Treatment-Resistant/ or Disorders, Psychotic/ or Dysthymic Disorder/) use ppez ("depression (emotion)" or exp major depression or affective disorders/ or atypical depression/) use psyh (depression or dysthym" or melanchol* or ((affective or mood) adj disorder*). Inv. ((sever* or serious* or major* or tronoic* or complex* or critical* or endur* or persist* or resist* or acute) adj2 (anxiety or (mental adj2 (disorder*) or personality disorder* or psychiatric disorder* or psychiatric attack* or panic disorder* or phobi* or personality disorder* or psychiatric disorder* or psychiatric illness* or psychiatric illness* or psychiatric illness* or psychiatric disorders/ use oemezd, emcr exp personality disorder/ use oemezd, emcr exp personality disorder/ use oemezd, emcr "blagnosis, Dual (Psychiatry)" use ppez, psyh comorbidity/ psychiatric diagnosis/ use psyh (coverst* or co-exist* or comorbid* or co-morbid* or concomitant or concurrent or cooccurr* or co-occur* or multifactorial or multi-factorial or psychiatry or psychiatry or psychiatry or exp counseling/ or mindfulness/ or problem solving/ or psychiatric treatment/ or psychoeducation/ or self help/ or exp support group/) use oemezd, emcr (exp Psychotherapy/ or behavioral activation system/ or bibliotherapy or exp Counseling/ or Problem Solving/ or Self Care/ or Self Efficacy/ or Self-Help Groups/) use pexy ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathra* or conditioning or intervention* or modification* or therap* or treatment*)), bw. ((conself* or (fact or creative or rondirective or non-specif		(depression/ or agitated depression/ or atypical depression/ or depressive psychosis/ or dysthymia/ or endogenous
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multifactorial or multi-factorial or multimorbid* or multi-morbid* or polymorbid* or poly-morbid* or polypathy) adj (condition* or diagnos* or disorder* or morbidit* or personalit* or psychiatr*)).tw. (or/7-8) and (or/9-12) 15		0 1,7
13 or 14 6 and 15 (exp psychotherapy/ or exp counseling/ or mindfulness/ or problem solving/ or psychiatric treatment/ or psychoeducation/ or self help/ or exp support group/) use oemezd,emcr (exp Psychotherapy/ or Bibliotherapy/ or exp Cognitive Behavioral Therapy/ or exp Counseling/ or Problem Solving/ or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez (exp psychotherapy/ or behavioral activation system/ or bibliotherapy/ or cognitive therapy/ or exp counseling/ or group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*)).tw. ((counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*))) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj	13	multifactorial or multi-factorial or multimorbid* or multi-morbid* or polymorbid* or poly-morbid* or plural* or polypathy)
13 or 14 6 and 15 (exp psychotherapy/ or exp counseling/ or mindfulness/ or problem solving/ or psychiatric treatment/ or psychoeducation/ or self help/ or exp support group/) use oemezd,emcr (exp Psychotherapy/ or Bibliotherapy/ or exp Cognitive Behavioral Therapy/ or exp Counseling/ or Problem Solving/ or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez (exp psychotherapy/ or behavioral activation system/ or bibliotherapy/ or cognitive therapy/ or exp counseling/ or group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*)).tw. ((counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*))) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj	14	(or/7-8) and (or/9-12)
 (exp psychotherapy/ or exp counseling/ or mindfulness/ or problem solving/ or psychiatric treatment/ or psychoeducation/ or self help/ or exp support group/) use oemezd,emcr (exp Psychotherapy/ or Bibliotherapy/ or exp Cognitive Behavioral Therapy/ or exp Counseling/ or Problem Solving/ or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez (exp psychotherapy/ or behavioral activation system/ or bibliotherapy/ or cognitive therapy/ or exp counseling/ or group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*)).tw. (counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centred or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*))).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*	15	
psychoeducation/ or self help/ or exp support group/) use oemezd,emcr (exp Psychotherapy/ or Bibliotherapy/ or exp Cognitive Behavioral Therapy/ or exp Counseling/ or Problem Solving/ or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez (exp psychotherapy/ or behavioral activation system/ or bibliotherapy/ or cognitive therapy/ or exp counseling/ or group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*))).tw. (counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centred or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*))) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples thera	16	6 and 15
or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez (exp psychotherapy/ or behavioral activation system/ or bibliotherapy/ or cognitive therapy/ or exp counseling/ or group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*))).tw. ((counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*)) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)]	17	psychoeducation/ or self help/ or exp support group/) use oemezd,emcr
group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or support groups/) use psyh ((behavio* or abreact* or act* out* or age regression or assertive or autogenic or experiential) adj2 (activation or analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*))).tw. (counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centred or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*)) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez) [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]		or Self Care/ or Self Efficacy/ or Self-Help Groups/) use ppez
 analys* or cathar* or conditioning or intervention* or modification* or therap* or training or treatment*)).tw. ((cognitive adj2 (behavior* or therap*)) or (CBT* or CBASP or biofeedback or contingency management or covert conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*))).tw. (counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*)) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)] [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez] 	19	group intervention/ or mindfulness/ or exp problem solving/ or psychoeducation/ or exp self-help techniques/ or
conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or treatment*))).tw. (counsel* or ((art or creative or compassion* or conversation* or dialectic* or emotion* or group* or insight or narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*)) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)] [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]	20	
narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or persuasion or Rogerian or talking or time-limited) adj2 (intervention* or therap* or training or treatment*))).tw. (psychotherap* or (psycho* adj (aid* or help* or intervention* or support* or therap* or training or treatment*)) or (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)] [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]	21	conditioning or covert sensiti?ation or defusion or MBCT* or neurofeedback or problem focus* or problem solving or rational emotive or REBT or schema or solution focus*) or ((third wave or 3rd wave) adj2 (intervention* or therap* or
 (balint group or group program* or mindfulness* or mind training or role play* or support group*)).tw. (self-help or bibliotherap* or meditat* or self-analy* or self-esteem or self-control or self-imag* or self-validat* or stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)] [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez] 	22	narrative or non-directive or nondirective or non-specific or nonspecific or rational or client-centred or client-centered or humanistic or integrative or interpersonal or person-centred or person-centered or personal construct or
stress manag* or (computer* adj2 (intervention* or program* or therap* or treatment*)) or CCBT).tw. [couple therapy/ use oemezd,emcr or couples therapy/ use ppez or ((family therapy/ or marital therapy/) use oemezd,emcr,ppez)] [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]	23	
oemezd,emcr,ppez)] 26 [((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]	24	
	25	oemezd,emcr,ppez)]
	26	[((exp family/ or marriage/) use oemezd,emcr,ppez) and exp psychotherapy/ use oemezd,emcr,ppez]
	27	(couples therapy/ or family intervention/ or marriage counseling/) use psyh

#	Searches
28	[((exp couples/ or exp family/ or family relations/ or exp marital relations/ or marriage/ or spouses/) use psyh) and
29	exp psychotherapy/ use psyh] ((couple* or famil* or husband* or marriage* or marital or partner* or wife or wives) adj2 (counsel* or intervention* or
00	psychotherap* or therap* or treatment*)).tw.
30	or/17-29
31 32	drug therapy/ or drug therapy.fs. psychopharmacotherapy/ use oemezd,emcr,psyh
33	antidepressant agent/ use oemezd,emcr
34	Antidepressive Agents/ use peez
35	antidepressant drugs/ use psyh
36	serotonin uptake inhibitor/ use oemezd,emcr
37	Serotonin Uptake Inhibitors/ use ppez
38	serotonin reuptake inhibitors/ use psyh
39	serotonin noradrenalin reuptake inhibitor/ use oemezd,emcr
40	"Serotonin and Noradrenaline Reuptake Inhibitors"/ use ppez
41	serotonin norepinephrine reuptake inhibitors/ use psyh
42	tricyclic antidepressant agent/ use oemezd,emcr
43	Antidepressive Agents, Tricyclic/ use ppez
44 45	tricyclic antidepressant drugs/ use psyh
45	amfebutamone/ or amineptine/ or amitriptyline/ or bupropion/ or clomipramine/ or chlorimipramine/ or citalopram/ or desipramine/ or duloxetine/ or Duloxetine Hydrochloride/ or escitalopram/ or fluvoxamine/ or fluoxetine/ or imipramine/ or lofepramine/ or mirtazapine/ or moclobemide/ or nefazadone/ or nortriptyline/ or paroxetine/ or sertraline/ or venlafaxine/ or Venlafaxine Hydrochloride/
46	(antidepress* or amfebutamone or amineptin* or amitr?ptylin* or bupropion or chlorimipramine or clomipramin* or citalopram or desipramin* or duloxetin* or escitalopram or fluvoxamin* or fluoxetin* or imipramin* or mirtazapin* or moclobemide or nefazadon* or nortriptylin* or paroxetin* or psychopharmacologic* or psychopharmacotherap* or sertralin* or venlafaxin* or SNRI* or SSRI* or TCA* or tricyclic or (serotonin adj2 inhibitor*)).tw.
47	or/31-46
48	neuroleptic agent/ use oemezd,emcr
49	Antipsychotic Agents/ use ppez
50	neuroleptic drugs/ use psyh
51	amisulpride/ or aripiprazole/ or olanzapine/ or quetiapine/ or Quetiapine Fumarate/ or risperidone/ or ziprasidone/
52	(antipsychotic* or anti-psychotic* or amisulpride or aripiprazole or olanzapine or psychotropic* or quetiapine or risperidone or ziprasidone).tw.
53	or/48-52
54	lithium/ or lithium.tw.
55 56	omega 3 fatty acid/ use oemezd,emcr Fatty Acids, Omega-3/ use ppez
57	fatty acids/ use psyh
58	(omega adj ("fatty acid*" or "polyunsaturated fatty acid*" or PUFA*)).tw.
59	or/55-58
60	acupuncture/ or acupuncture.tw.
61	electroconvulsive therapy/ use oemezd,emcr,ppez
62	electroconvulsive shock therapy/ use psyh
63	(ECT or ((electroconvulsive or electro-convulsive) adj2 (therap* or treatment*)) or electroshock or (shock adj (therapy or treatment))).tw.
64	exp exercise/
65	(exp Exercise Therapy/ or Physical Exertion/ or exp Physical Fitness/ or Bicycling/ or exp Running/ or Swimming/ or Walking/) use ppez
66	(exp kinesiotherapy/ or exp physical activity/ or fitness/ or exp sport/) use oemezd,emcr
67	(exp physical fitness/ or exp sports/) use psyh
68	yoga/ (aversis* or yoga or cycling or bicycling or logging or rupping or sport* or swimming or welking) tw
69 70	(exercis* or yoga or cycling or bicycling or jogging or running or sport* or swimming or walking).tw. or/60-69
71	peer group/ or mentoring/
72	peer group, or mentoring/
73	friendship/
74	Friends/ use ppez
75	(befriend* or friend* or mentor* or peer support or (communit* adj (navigat* or support*))).tw.
76	or/71-75
77	or/30,47,53-54,59,70,76
78	16 and 77
79	Letter/ use ppez
80	letter.pt. or letter/ use oemezd,emcr
81 82	note.pt. editorial.pt.
83	Editorial/ use ppez
84	News/ use ppez
85	exp Historical Article/ use ppez
86	Anecdotes as Topic/ use ppez

#	Searches
87	Comment/ use ppez
88	Case Report/
89	case study/ use oemezd,emcr
90	(letter or comment*).ti.
91	or/79-90
92	randomized controlled trial/
93	random*.ti,ab.
94	92 or 93
95	91 not 94 (animals/ not humans/) use ppez
96 97	(animals/ not humans/) use ppez (animal/ not humans/) use oemezd,emcr
98	nonhuman/ use oemezd.emcr
99	exp animals/ use psyh
100	"primates (nonhuman)"/ use psyh
101	exp Animals, Laboratory/ use ppez
102	exp Animal Experimentation/ use ppez
103	exp animal experiment/ use oemezd,emcr
104	exp experimental animal/ use oemezd,emcr
105	exp Models, Animal/ use ppez
106	animal model/ use oemezd,emcr
107	animal models/ use psyh
108	animal research/ use psyh
109 110	exp Rodentia/ use ppez exp rodent/ use oemezd,emcr
111	exp rodents/ use psyh
112	(rat or rats or mouse or mice).ti.
113	or/95-112
114	78 not 113
115	clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi?ed or randomly).ab. or trial.ti.
116	115 use ppez
117	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi?ed or randomly or trial).ab.
118	117 use ppez
119	crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab.
120	119 use oemezd,emcr
121	clinical trials/ or (placebo or randomi?ed or randomly).ab. or trial.ti.
122 123	121 use psyh 116 or 118
123	120 or 122 or 123
125	Meta-Analysis/
126	exp Meta-Analysis as Topic/
127	systematic review/
128	meta-analysis/
129	(meta analy* or metanaly* or metaanaly*).ti,ab.
130	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
131	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
132	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
133	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
134	(search* adj4 literature).ab.
135	(medline or pubmed or cochrane or embase or psychlit or psychinfo or psychinfo or cinahl or science citation index or bids or cancerlit).ab.
136	cochrane.jw.
137	((pool* or combined) adj2 (data or trials or studies or results)).ab.
138 139	(or/125-127,129,131-136) use ppez (or/127-130,132-137) use oemezd,emcr
140	(or/125,129,131-136) use psyh
141	or/138-140
142	network meta-analysis/
143	((network adj (MA or MAs)) or (NMA or NMAs)).tw.
144	((indirect or mixed or multiple or multi-treatment* or simultaneous) adj1 comparison*).tw.
145	or/142-144
146	or/124,141,145
147	114 and 146
148	limit 147 to english language

The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 3 of 12, March 2019; Cochrane Central Register of Controlled Trials, Issue 5 of 12, May 2019

Date of Search: 21/05/2019 Search updated: 06/05/2020

ID	Search
#1	MeSH descriptor: [Depression] this term only
#2	MeSH descriptor: [Depressive Disorder] this term only
#3	MeSH descriptor: [Depressive Disorder, Major] this term only
#4	MeSH descriptor: [Depressive Disorder, Treatment-Resistant] this term only
#5	MeSH descriptor: [Affective Disorders, Psychotic] this term only
#6	MeSH descriptor: [Dysthymic Disorder] this term only
#7	(depress* or dysphori* or dysthym* or melanchol* or ((affective or mood) next disorder*)):ti,ab
#8	((sever* or serious* or major* or acute or chronic* or complex* or endur* or persist* or resist*) next/2 anxiety or (mental next/2 (disorder* or health or illness* or ill-health)) or (obsessive next/2 disorder*) or OCD or "panic attack*" or "panic disorder*" or "personality disorder*" or "psychiatric disorder*" or "psychiatric illness*" or "psychiatric ill-health*"):ti,ab
#9	{or #1-#8}
#10	MeSH descriptor: [Personality Disorders] explode all trees
#11	MeSH descriptor: [Comorbidity] this term only
#12	MeSH descriptor: [Diagnosis, Dual (Psychiatry)] this term only
#13	((coexist* or "co exist*" or comorbid* or "co morbid*" or concomitant or concurrent or cooccurr* or "co occur*" or multifactorial or "multi factoria" or multimorbid* or "multi morbid*" or polymorbid* or "poly morbid*" or plural* or polypathy) next (condition* or diagnos* or disorder* or morbidit* or personalit* or psychiatr*))
#14	#10 and (#11 or #12)
#15	#13 or #14
#16	#9 and #15 in Cochrane Reviews, Cochrane Protocols, Trials

Health Economics search

Database(s): Embase 1974 to 2019 Week 08, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to February 26, 2019, PsycINFO 1806 to February Week 1 2019

Date of Search: 27/02/2019 Search updated: 02/03/2021

Searcn	updated: 02/03/2021
#	Searches
1	(depression/ or agitated depression/ or atypical depression/ or depressive psychosis/ or dysphoria/ or dysthymia/ or endogenous depression/ or involutional depression/ or late life depression/ or major depression/ or masked depression/ or melancholia/ or "mixed anxiety and depression"/ or "mixed depression and dementia"/ or premenstrual dysphoric disorder/ or reactive depression/ or recurrent brief depression/ or seasonal affective disorder/ or treatment resistant depression/) use oemezd
2	((Depression/ or exp Depressive Disorder/ or Adjustment Disorders/ or Affective Disorders, Psychotic/ or Factitious Disorders/ or Premenstrual Dysphoric Disorder/) use ppez
3	("depression (emotion)"/ or exp major depression/ or affective disorders/ or atypical depression/ or premenstrual dysphoric disorder/ or seasonal affective disorder/) use psyh
4	(depress* or dysphori* or dysthym* or melanchol* or seasonal affective disorder* or ((affective or mood) adj disorder*)).tw.
5	or/1-4
6	Letter/ use ppez
7	letter.pt. or letter/ use oemezd
8	note.pt.
9	editorial.pt.
10	Editorial/ use ppez
11	News/ use ppez
12	exp Historical Article/ use ppez
13	Anecdotes as Topic/ use ppez
14	Comment/ use ppez
15	Case Report/
16	case study/ use oemezd
17	(letter or comment*).ti.
18	or/6-17
19	randomized controlled trial/
20	random*.ti,ab.
21	19 or 20
22	18 not 21
23	(animals/ not humans/) use ppez
24	(animal/ not human/) use oemezd
25	nonhuman/ use oemezd
26	exp animals/ use psyh

#	Searches
27	"primates (nonhuman)"/ use psyh
28	exp Animals, Laboratory/ use ppez
29	exp Animal Experimentation/ use ppez
30	exp animal experiment/ use oemezd
31	exp experimental animal/ use oemezd
32 33	exp Models, Animal/ use ppez animal model/ use oemezd
34	animal models/ use psyh
35	animal riodels/ use psyri
36	exp Rodentia/ use ppez
37	exp rodent/ use oemezd
38	exp rodents/ use psyh
39	(rat or rats or mouse or mice).ti.
40	or/22-39
41	5 not 40
42	Economics/
43	Value of life/
44 45	exp "Costs and Cost Analysis"/ exp Economics, Hospital/
46	exp Economics, Hospital/
47	Economics, Nursing/
48	Economics, Pharmaceutical/
49	exp "Fees and Charges"/
50	exp Budgets/
51	(or/42-50) use ppez
52	health economics/
53	exp economic evaluation/
54	exp health care cost/
55 56	exp fee/ budget/
57	funding/
58	(or/52-57) use oemezd
59	exp economics/
60	exp "costs and cost analysis"/
61	cost containment/
62	money/
63	resource allocation/
64	(or/59-63) use psyh
65	budget*.ti,ab. cost*.ti.
66 67	(economic* or pharmaco?economic*).ti.
68	(price* or pricing*).ti,ab.
69	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
70	(financ* or fee or fees).ti,ab.
71	(value adj2 (money or monetary)).ti,ab.
72	or/65-70
73	51 or 58 or 64 or 72
74	Quality-Adjusted Life Years/ use ppez
75 70	Sickness Impact Profile/
76 77	quality adjusted life year/ use oemezd "quality of life index"/ use oemezd
78	(quality adjusted or quality adjusted life year*).tw.
79	(qaly* or qal or qald* or qale* or qtime* or qwb* or daly).tw.
80	(illness state* or health state*).tw.
81	(hui or hui2 or hui3).tw.
82	(multiattibute* or multi attribute*).tw.
83	(utilit* adj3 (score*1 or valu* or health* or cost* or measur* or disease* or mean or gain or gains or index*)).tw.
84	utilities.tw.
85	(eq-5d* or eq5d* or eq-5* or eq5* or euroqual* or euro qual* or euroqual 5d* or euro qual 5d* or euro qol* or euroquol* or euroquol* or euroquol5d* or euroquol5d* or eur qol* or eurqol* or eur qol5d* or eur?qul* or eur?qul5d* or eur?qul5d* or eur?qul5d* or european qol).tw.
86	(euro* adj3 (5 d* or 5d* or 5 dimension* or 5 dimension* or 5 domain* or 5 domain*)).tw.
87	(sf36 or sf 36 or sf thirty six or sf thirtysix).tw.
88	(time trade off*1 or time tradeoff*1 or tto or timetradeoff*1).tw.
89 90	Quality of Life/ and ((quality of life or qol) adj (score*1 or measure*1)).tw. Quality of Life/ and ec.fs.
	Quality of Life/ aliu co.15.
91	Quality of Life/ and (health adj3 status).tw.

Depression with coexisting personality disorder

#	Searches
95	((qol or hrqol or quality of life).tw. or *quality of life/) and ((qol or hrqol* or quality of life) adj2 (increas* or decreas* or improv* or declin* or reduc* or high* or low* or effect or effects or worse or score or scores or change*1 or impact*1 or impacted or deteriorat*)).ab.
96	Cost-Benefit Analysis/ use ppez and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw.
97	cost benefit analysis/ use oemezd and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectano*)).tw.
98	"costs and cost analysis"/ use psyh and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw.
99	*quality of life/ and (quality of life or qol).ti.
100	quality of life/ and ((quality of life or qol) adj3 (improv* or chang*)).tw.
101	quality of life/ and health-related quality of life.tw.
102	Models, Economic/ use ppez
103	economic model/ use oemezd
104	or/74-101
105	73 or 104
106	41 and 105
107	limit 106 to english language
108	limit 107 to yr="2016 -Current"

Database(s): NIHR Centre for Reviews and Dissemination: Health Technology Assessment Database (HTA)

Date of search: 26/02/2019

#	Searches
#1	MESH DESCRIPTOR: depressive disorder EXPLODE ALL TREES
#2	((depres* or dysphori* or dysthymi* or melancholi* or seasonal affective disorder* or affective disorder* or mood disorder*))
#3	#1 or #2 IN HTA FROM 2016 TO 2019

Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-current, EBSCO Host

Date of initial search: 26/02/2019

Search updated: 02/03/2021

	apaatea. 02/03/2021	Limiters (Francisco)
#	Query	Limiters/Expanders
S31	S4 AND S30	Limiters - Publication Year: 2016-2019;
		Exclude MEDLINE records; Language:
		English
200	0.40 0.00	Search modes - Boolean/Phrase
S30	S10 OR S29	Search modes - Boolean/Phrase
S29	S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR	Limiters - Exclude MEDLINE records;
	S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR	Language: English
	S27 OR S28	Search modes - Boolean/Phrase
S28	(MH "Quality of Life") AND TX (health-related quality of life)	Search modes - Boolean/Phrase
S27	(MH "Quality of Life") AND TI (quality of life or qol)	Search modes - Boolean/Phrase
S26	AB ((qol or hrqol or quality of life) AND ((qol or hrqol* or quality of life) N2	Search modes - Boolean/Phrase
	(increas* or decreas* or improv* or declin* or reduc* or high* or low* or	
	effect or effects or worse or score or scores or change*1 or impact*1 or	
005	impacted or deteriorat*)))	O D D
S25	(MH "Cost Benefit Analysis") AND TX ((quality of life or qol) or (cost-	Search modes - Boolean/Phrase
004	effectiveness ratio* and (perspective* or life expectanc*))	O D / D
S24	(MH "Quality of Life") TX (health N3 status)	Search modes - Boolean/Phrase
S23	(MH "Quality of Life") AND TX ((quality of life or qol) N (score*1 or	Search modes - Boolean/Phrase
S22	measure*1)) TV (time trade off*1 or time tradeoff*1 or the or time tradeoff*1)	Search modes - Boolean/Phrase
	TX (time trade off*1 or time tradeoff*1 or tto or timetradeoff*1)	
S21	TX (sf36 or sf 36 or sf thirty six or sf thirtysix)	Search modes - Boolean/Phrase
S20	TX (euro* N3 (5 d* or 5d* or 5 dimension* or 5 dimension* or 5 domain*	Search modes - Boolean/Phrase
0.40	or 5domain*))	0 1 1 0 1 /01
S19	TX (eq-5d* or eq5d* or eq-5* or eq5* or euroqual* or euro qual* or	Search modes - Boolean/Phrase
	euroqual 5d* or euro qual 5d* or euro qol* or euroqol*or euro quol* or	
	euroquol* or euro quol5d* or euroquol5d* or eur qol* or europol* or eur	
	qol5d* or eurqol5d* or eur?qul* or eur?qul5d* or euro* quality of life or european qol)	
S18	TI utilities	Search modes - Boolean/Phrase
S18	7	Search modes - Boolean/Phrase Search modes - Boolean/Phrase
517	TX (utilit* N3 (score*1 or valu* or health* or cost* or measur* or disease*	Search modes - Boolean/Phrase
	or mean or gain or gains or index*))	

DRAFT FOR CONSULTATION

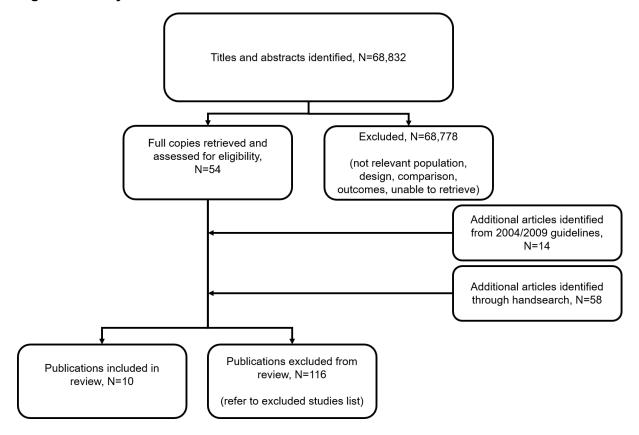
Depression with coexisting personality disorder

#	Query	Limiters/Expanders
S16	TX (multiattibute* or multi attribute*)	Search modes - Boolean/Phrase
S15	TX (hui or hui2 or hui3)	Search modes - Boolean/Phrase
S14	TX (illness state* or health state*)	Search modes - Boolean/Phrase
S13	TX (quality adjusted or quality adjusted life year*or qaly* or qal or qald* or qale* or qtime* or qwb* or daly)	Search modes - Boolean/Phrase
S12	(MH "Sickness Impact Profile")	Search modes - Boolean/Phrase
S11	(MH "Quality-Adjusted Life Years")	Search modes - Boolean/Phrase
S10	S5 OR S6 OR S7 OR S8 OR S9	Limiters - Exclude MEDLINE records; Language: English Search modes - Boolean/Phrase
S9	TX (value N2 (money or monetary))	Search modes - Boolean/Phrase
S8	TX (cost* N2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*))	Search modes - Boolean/Phrase
S7	TI cost* or economic* or pharmaco?economic*	Search modes - Boolean/Phrase
S6	TX budget* or fee or fees or finance* or price* or pricing	Search modes - Boolean/Phrase
S5	(MH "Fees and Charges+") OR (MH "Costs and Cost Analysis+") OR (MH "Economics") OR (MH "Economic Value of Life") OR (MH "Economics, Pharmaceutical") OR (MH "Economic Aspects of Illness") OR (MH "Resource Allocation+")	Search modes - Boolean/Phrase
S4	S1 OR S2 OR S3	Limiters - Exclude MEDLINE records; Language: English Search modes - Boolean/Phrase
S3	TX (depress* or dysphori* or dysthym* or melanchol* or seasonal affective disorder)	Search modes - Boolean/Phrase
S2	(MH "Adjustment Disorders+") OR (MH "Factitious Disorders") OR (MH "Affective Disorders, Psychotic")	Search modes - Boolean/Phrase
S1	(MH "Depression+") OR (MH "Premenstrual Dysphoric Disorder") OR (MH "Seasonal Affective Disorder")	Search modes - Boolean/Phrase

Appendix C - Clinical evidence study selection

Clinical study selection for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Figure 1: Study selection flowchart



Appendix D – Clinical evidence tables

Clinical evidence tables for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Please refer to the clinical evidence tables in supplement F– Clinical evidence tables for Evidence Review F Depression with personality disorder

Appendix E – Forest plots

Forest plots for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Comparison 1. Behavioural therapy versus short-term psychodynamic psychotherapy

Figure 2: Depression symptomatology at endpoint (BDI)

	Experimental				ntro	I		Std. Mean Difference	Std. Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI			IV, Fixed	I, 95% CI		
Liberman 1981	4	4	12	14	12	12	100.0%	-1.08 [-1.95, -0.21]			-			
Total (95% CI)			12			12	100.0%	-1.08 [-1.95, -0.21]			•			
Heterogeneity: Not applicable Test for overall effect: $Z = 2.44$ (P = 0.01)								-10	Favours	5 (behavioural	Favours	5 STPP	10	

Figure 3: Depression symptomatology at 1-month follow-up (BDI)

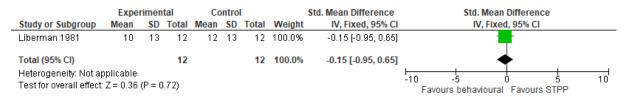


Figure 4: Depression symptomatology at 3-month follow-up (BDI)

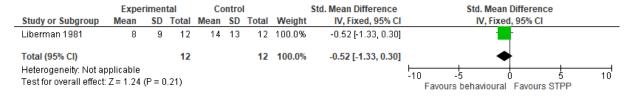


Figure 5: Depression symptomatology at 6-month follow-up (BDI)

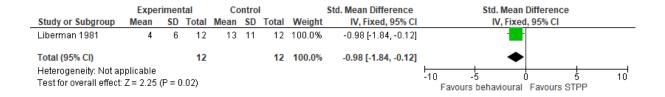
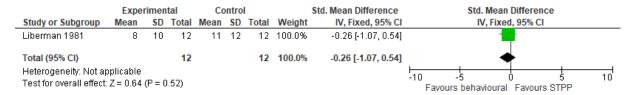


Figure 6: Depression symptomatology at 8-month follow-up (BDI)



Comparison 2. Cognitive behavioural therapy versus counselling

Figure 7: Depression symptomatology at endpoint (HAMD)

	Experimental			Control				Std. Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	, 95% CI		
Erkens 2018	19.41	9.15	44	22.68	9.37	59	100.0%	-0.35 [-0.74, 0.04]					
Total (95% CI)			44			59	100.0%	-0.35 [-0.74, 0.04]		•			
Heterogeneity: Not applicable Test for overall effect: Z = 1.74 (P = 0.08)								-10	-5 (Favours CBT) Favours (5 counse	10 elling	

Comparison 3. Cognitive behavioural therapy versus interpersonal therapy

Figure 8: Depression symptomatology at endpoint (BDI-II/HAMD)

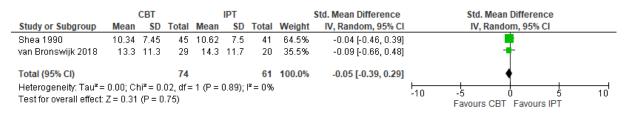


Figure 9: Depression symptomatology at 5-month follow-up (BDI-II)

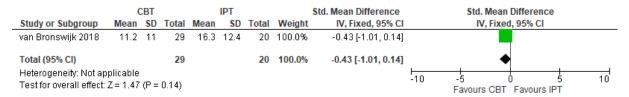


Figure 10: Discontinuation due to any reason



Comparison 4. Cognitive behavioural therapy versus short-term psychodynamic psychotherapy

Figure 11: Depression symptomatology at endpoint (BDI)

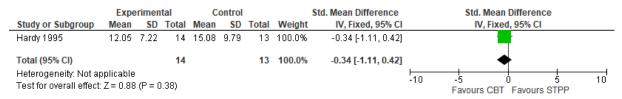


Figure 12: Depression symptomatology at 3-month follow-up (BDI)

	Expe	Experimental			Control			Std. Mean Difference		ence			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV	Fixed, 95%	CI	
Hardy 1995	13	8.38	14	14.08	9.79	13	100.0%	-0.12 [-0.87, 0.64]			•		
Total (95% CI)			14			13	100.0%	-0.12 [-0.87, 0.64]			•		
Heterogeneity: Not applicable Test for overall effect: Z = 0.30 (P = 0.76)									-10	-5 Favours	0 CBT Favoi	5 urs STPP	10

Figure 13: Depression symptomatology at 12-month follow-up (BDI)

	Experimental			Control				Std. Mean Difference		Std. Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV	, Fixed, 95%	CI		
Hardy 1995	13	7.32	12	12.75	11.03	12	100.0%	0.03 [-0.77, 0.83]			-			
Total (95% CI)			12			12	100.0%	0.03 [-0.77, 0.83]			•			
Heterogeneity: Not ap Test for overall effect:).95)						-10	-5 Favours	0 CBT Favo	5 urs STPP	10	

Figure 14: Interpersonal problems at endpoint (IIP)

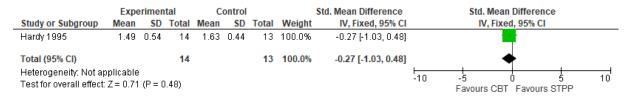


Figure 15: Interpersonal problems at 3-month follow-up (IIP)

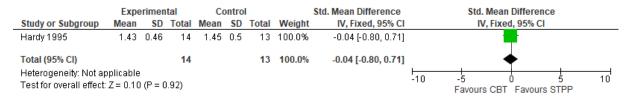
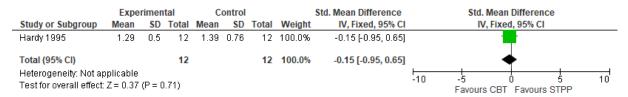
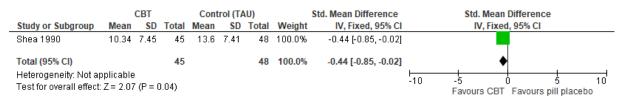


Figure 16: Interpersonal problems at 12-month follow-up (IIP)



Comparison 5. Cognitive behavioural therapy versus pill placebo

Figure 17: Depression symptomatology at endpoint (HAMD)



Comparison 6. Cognitive behavioural therapy versus antidepressant

Figure 18: Depression symptomatology at endpoint (HAMD)

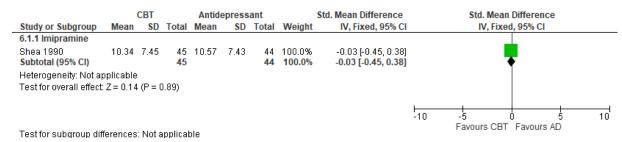
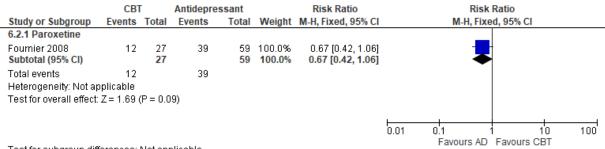
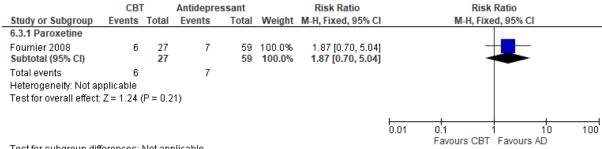


Figure 19: Remission (ITT)



Test for subgroup differences: Not applicable

Figure 20: Discontinuation due to any reason



Test for subgroup differences: Not applicable

Comparison 7. CBT + fluoxetine versus IPT + fluoxetine

Figure 21: Depression symptomatology at endpoint (HAMD)

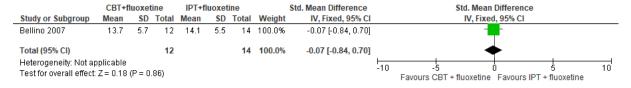


Figure 22: Remission (ITT)

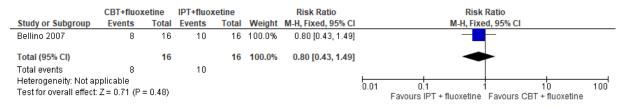
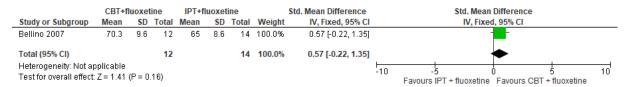


Figure 23: Discontinuation due to any reason

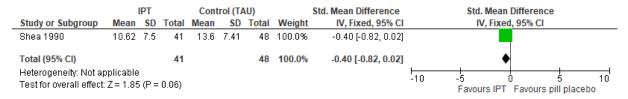
	CBT+fluox	etine	IPT+fluox	cetine		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI	
Bellino 2007	4	16	2	16	100.0%	2.00 [0.42, 9.42]				
Total (95% CI)		16		16	100.0%	2.00 [0.42, 9.42]		-		
Total events	4		2							
Heterogeneity: Not ap Test for overall effect	= 0.38)					0.01	0.1 Favours CBT + fluoxetine	1 10 Favours IPT + fluoxetine	100	

Figure 24: Global functioning at endpoint (SOFAS)



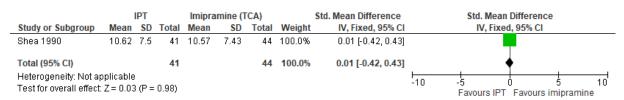
Comparison 8. IPT versus pill placebo

Figure 25: Depression symptomatology at endpoint (HAMD)



Comparison 9. IPT versus imipramine

Figure 26: Depression symptomatology at endpoint (HAMD)



Comparison 10. IPT + fluoxetine versus fluoxetine

Figure 27: Depression symptomatology at endpoint (HAMD)

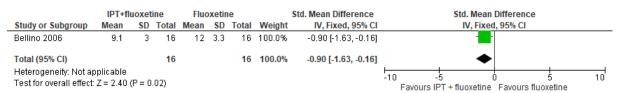


Figure 28: Remission (ITT)

	IPT+fluox	etine	Fluoxe	tine		Risk Ratio		Risk			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% CI		
Bellino 2006	12	19	10	20	100.0%	1.26 [0.72, 2.20]		_			
Total (95% CI)		19		20	100.0%	1.26 [0.72, 2.20]		-	•		
Total events	12		10								
Heterogeneity: Not ap Test for overall effect:	= 0.41)					0.01	0.1 Favours fluoxetine	•	10 + fluoxetir	100 ne	

Figure 29: Discontinuation due to any reason



Comparison 11. Short-term psychodynamic psychotherapy + any antidepressant versus any antidepressant

Figure 30: Depression symptomatology at endpoint (HAMD)

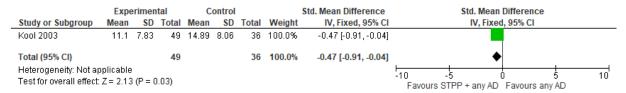


Figure 31: Remission (ITT)



Figure 32: Quality of life at endpoint (QLDS)



Comparison 12. Fluoxetine versus nortriptyline

Figure 33: Depression symptomatology endpoint (MADRS)

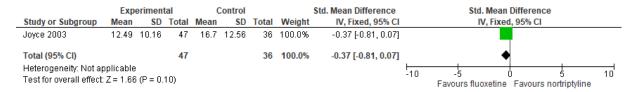


Figure 34: Response (ITT)

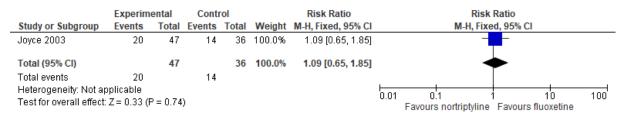
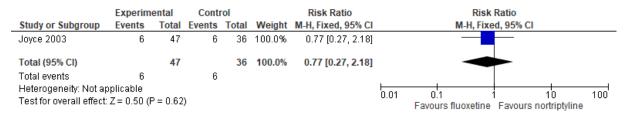
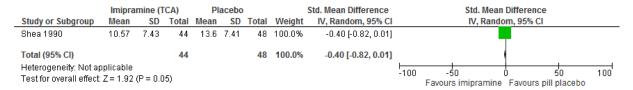


Figure 35: Discontinuation due to any reason



Comparison 13. Imipramine versus pill placebo

Figure 36: Depression symptomatology at endpoint (HAMD)



Appendix F – GRADE tables

GRADE tables for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Table 16: Clinical evidence profile for Comparison 1. Behavioural therapy versus short-term psychodynamic psychotherapy

			•					, ,				
Quality asso	essment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Behavioural therapy	Short-term psychodynamic psychotherapy	Relative (95% CI)		Quality	Importance
Depression	symptomato	logy at er	ndpoint (follow-up	mean 1 weeks;	measured v	vith: Beck depres	sion inventory	(BDI); Better indicated by	lower v	alues)		
1 (Liberman 1981)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	12	12	-	SMD 1.08 lower (1.95 to 0.21 lower)	VERY LOW	CRITICAL
Depression	symptomato	logy at 1-	month follow-up	(follow-up mean	1 months; r	neasured with: Be	ck depression	inventory (BDI); Better in	ndicated	by lower values)		
1 (Liberman 1981)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	12	12	-	SMD 0.15 lower (0.95 lower to 0.65 higher)	VERY LOW	CRITICAL
Depression	symptomato	logy at 3-	month follow-up	(follow-up mean	3 months; r	neasured with: Be	ck depression	inventory (BDI); Better in	ndicated	by lower values)		
1 (Liberman 1981)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	12	12	-	SMD 0.52 lower (1.33 lower to 0.3 higher)	VERY LOW	CRITICAL
Depression	symptomato	logy at 6-	-month follow-up	(follow-up mean	6 months; r	neasured with: Be	ck depression	inventory (BDI); Better in	ndicated	by lower values)		
1 (Liberman 1981)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	12	12	-	SMD 0.98 lower (1.84 to 0.12 lower)		CRITICAL
Depression	symptomato	logy at 8-	month follow-up	(follow-up mean	8 months; r	neasured with: Be	ck depression	inventory (BDI); Better in	ndicated	by lower values)		
1 (Liberman 1981)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	12	12	-	SMD 0.26 lower (1.07 lower to 0.54 higher)	VERY LOW	CRITICAL

CI: confidence interval; SMD: standard mean difference

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

³ 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

Table 17: Clinical evidence profile for Comparison 2. Cognitive behavioural therapy versus counselling

			or bronne ion		••9		ai thorapy voice	ac ccane	· • · · · · · · · · · · · · · ·			
Quality as	sessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness		Other	behavioural Counselling therapy		Relative (95% CI)		Quality	Importance
Depressio	n symptomato	logy at en	ndpoint (follow-up	mean 20 weeks; n	neasured wit	th: Hamilton depre	ession scale (HAMD);	Better indica	ated by I	ower values)		
1 (Erkens 2018)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	44	59	-	SMD 0.35 lower (0.74 lower to 0.04 higher)	LOW	CRITICAL

CI: confidence interval; SMD: standard mean difference

Table 18: Clinical evidence profile for Comparison 3. Cognitive behavioural therapy versus interpersonal therapy

Quality assess			P. G. 11. G. T.	·	J		No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	penavioural	Interpersonal therapy	Relative (95% CI)	Absolute	Quality	Importanc
Depression syr values)	nptomatolog	y at endp	oint (follow-up 1	6-30 weeks; me	asured with: B	eck depression in	nventory (BDI-II)/H	lamilton depres	sion scale (HAMD); Better indi	cated by	lower
2 (Shea 1990, van Bronswijk 2018)			no serious inconsistency		no serious imprecision	none	74	61	-	SMD 0.05 lower (0.39 lower to 0.29 higher)	LOW	CRITICAL
Depression syr	nptomatolog	y at 5-mo	nth follow-up (fo	llow-up mean 5	months; meas	ured with: Beck	depression invent	tory (BDI-II); Bet	ter indicated	d by lower values)		
1 (von Bronswijk 2018)		,	no serious inconsistency	no serious indirectness	serious ²	none	29	20	-	SMD 0.43 lower (1.01 lower to 0.14 higher)		CRITICAL
Discontinuation	n due any rea	son (follo	ow-up mean 30 w	eeks; assessed	with: Number	of participants w	ho dropped out f	or any reason)				
1 (von Bronswijk 2018)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	5/29 (17.2%)	2/20 (10%)	RR 1.72 (0.37 to 8.02)	72 more per 1000 (from 63 fewer to 702 more)	VERY LOW	CRITICAL

CI: confidence interval; RR: relative risk

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

¹ Risk of bias is high or unclear across multiple domains

 ² 95% CI crosses thresholds for clinically important benefit and no effect
 ³ 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

Table 19: Clinical evidence profile for Comparison 4. Cognitive behavioural therapy versus short-term psychodynamic psychotherapy

Quality a	ssessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cognitive behavioural therapy	Short-term psychodynamic psychotherapy	Relative (95% CI)	Absolute	Quality	Importance
Depressi	on symptoma	atology at	endpoint (follow	v-up 8-16 weeks	; measured v	vith: Beck depres	sion inventory (Bl	DI); Better indicated by I	ower valu	ues)		
1 (Hardy 1995)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	14	13	-	SMD 0.34 lower (1.11 lower to 0.42 higher)		CRITICAL
Depressi	on symptoma	atology at	3-month follow-	up (follow-up m	ean 3 month	s; measured with	: Beck depression	n inventory (BDI); Better	indicated	l by lower values)		
1995)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	14	13	-	SMD 0.12 lower (0.87 lower to 0.64 higher)	LOW	CRITICAL
Depressi	on symptoma	atology at	12-month follow	-up (follow-up n	nean 12 mon	ths; measured wi	ith: Beck depressi	ion inventory (BDI); Betto	er indicat	ted by lower values	s)	
1 (Hardy 1995)	randomised trials	,	no serious inconsistency	no serious indirectness	very serious ³	none	12	12	-	SMD 0.03 higher (0.77 lower to 0.83 higher)		CRITICAL
Interpers	onal problem	s at endp	oint (follow-up 8	-16 weeks; mea	sured with: I	nventory of interp	ersonal problems	s (IIP); Better indicated b	y lower v	alues)		
1 (Hardy 1995)	randomised trials	,	no serious inconsistency	no serious indirectness	serious ²	none	14	13	-	SMD 0.27 lower (1.03 lower to 0.48 higher)		IMPORTANT
Interpers	onal problem	s at 3-mo	onth follow-up (fo	llow-up mean 3	months; me	asured with: Inve	ntory of interpers	onal problems (IIP); Bett	er indica	ted by lower values	s)	
1 (Hardy 1995)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	14	13	-	SMD 0.04 lower (0.8 lower to 0.71 higher)	VERY LOW	IMPORTANT
Interpers	onal problem	s at 12-m	onth follow-up (f	ollow-up mean	12 months; n	neasured with: In	ventory of interpe	rsonal problems (IIP); Be	etter indi	cated by lower valu	ies)	
1 (Hardy 1995)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	12	12	-	SMD 0.15 lower (0.95 lower to 0.65 higher)		IMPORTANT

CI: confidence interval; SMD: standard mean difference

¹ Risk of bias is high or unclear across multiple domains

 ² 95% CI crosses thresholds for clinically important benefit and no effect
 ³ 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

Table 20: Clinical evidence profile for Comparison 5. Cognitive behavioural therapy versus pill placebo

	or omnoun		promo ioi		. oog		in thorupy vorou					
Quality as	ssessment					No of patients		Effect				
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cognitive Pill behavioural therapy placebo		Relative (95% CI)		Quality	Importance
Depression	ssion symptomatology at endpoint (follow-up mean 16 weeks; measured with: Hamilton de					h: Hamilton depres	sion scale (HAMD); E	Better indic	ated by	lower values)		•
1 (Shea 1990)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	45	48	-	SMD 0.44 lower (0.85 to 0.02 lower)	VERY LOW	CRITICAL

CI: confidence interval; SMD: standard mean difference

Table 21: Clinical evidence profile for Comparison 6. Cognitive behavioural therapy versus antidepressant

Quality ass	sessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cognitive behavioural therapy	Antidepressant	Relative (95% CI)	Absolute	Quality	Importance
Depression	n symptomate	ology at e	endpoint (follow-ι	ıp mean 16 wee	ks; measured v	vith: Hamilton dep	oression scale (HA	AMD); Better ind	icated by lov	ver values)		
1 (Shea 1990)		very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	45	44	-	SMD 0.03 lower (0.45 lower to 0.38 higher)	LOW	CRITICAL
Remission	(ITT) (follow-	up mean	16 weeks; asses	sed with: Numb	er of participan	ts with Hamilton	depression scale	(HAMD) less tha	n or equal to	12)		
1 (Fournier 2008)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	reporting bias ³	12/27 (44.4%)	39/59 (66.1%)	RR 0.67 (0.42 to 1.06)	218 fewer per 1000 (from 383 fewer to 40 more)	VERY LOW	CRITICAL
Discontinu	ation due to	any reaso	on (follow-up mea	n 16 weeks; ass	sessed with: Nu	ımber of participa	ants who dropped	out for any reas	on)			
1 (Fournier 2008)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ⁴	reporting bias ³	6/27 (22.2%)	7/59 (11.9%)	RR 1.87 (0.7 to 5.04)	103 more per 1000 (from 36 fewer to 479 more)	VERY LOW	CRITICAL

CI: confidence interval; RR: relative risk

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit (SMD 0.5/-0.5) and no effect

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important harm and no effect

Authors have received financial support from pharmaceutical company
 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

Table 22: Clinical evidence profile for Comparison 7. CBT + fluoxetine versus IPT + fluoxetine

I able 2	Z. Cillicai	eviden	ce profile for	Companison	7. CDI +	nuoxenne v	ersus in i	+ iluoxei	ine			
Quality as	sessment						No of patient	ts	Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Improcision	Other considerations	CBT + fluoxetine	IPT + fluoxetine	Relative (95% CI)	Absolute	,	
Depression	n symptomat	ology at e	ndpoint (follow-up	mean 24 weeks;	measured w	ith: Hamilton dep	ression scale	(HAMD); Be	tter indicated	by lower values)		
1 (Bellino 2007)	randomised trials	serious ¹	no serious inconsistency		very serious ²	none	12	14	-	SMD 0.07 lower (0.84 lower to 0.7 higher)	VERY LOW	CRITICAL
Remission (CGI-I) sco		-up mean	24 weeks; assesse	ed with: Hamilton	depression	scale (HAMD) sco	re ≤8 and imp	proved by at	least 40% and	l clinical global impressi	on-impro	vement
1 (Bellino 2007)	randomised trials	serious ¹	no serious inconsistency		very serious ²	none	8/16 (50%)	10/16 (62.5%)	RR 0.8 (0.43 to 1.49)	125 fewer per 1000 (from 356 fewer to 306 more)	VERY LOW	CRITICAL
Discontin	uation due to	any reaso	n (follow-up mean	24 weeks; asses	sed with: Nu	mber of participa	nts who drop	ped out for a	ny reason)			
1 (Bellino 2007)	randomised trials	serious ¹	no serious inconsistency		very serious ²	none	4/16 (25%)	2/16 (12.5%)	RR 2 (0.42 to 9.42)	125 more per 1000 (from 73 fewer to 1000 more)	VERY LOW	CRITICAL
Global fur	nctioning at er	ndpoint (fo	ollow-up mean 24 v	veeks; measured	with: Social	and occupational	functioning	assessment	scale (SOFAS	s); Better indicated by hig	gher valu	es)
1 (Bellino 2007)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	12	14	-	SMD 0.57 higher (0.22 lower to 1.35 higher)	LOW	IMPORTANT

CBT: cognitive behavioural therapy; CI: confidence interval; IPT: interpersonal therapy; RR: relative risk; SMD: standard mean difference

Table 23: Clinical evidence profile for Comparison 8. IPT versus pill placebo

Quality ass	essment						No	of patients	Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness		Other considerations	IPT Pill Relative (95% Absolute CI)				Quality	Importance
Depression	epression symptomatology at endpoint (follow-up mean 16 weeks; measured with: Hamilton depression scale (HAMD); Better indicated by lower values)									•		
1 (Shea 1990)	randomised trials	<i>J</i> .		no serious indirectness	serious ²	none	41	48	-	SMD 0.4 lower (0.82 lower to 0.02 higher)	VERY LOW	CRITICAL

CI: confidence interval; IPT: interpersonal therapy; SMD: standard mean difference

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

³ 95% CI crosses thresholds for clinically important benefit and no effect

Depression with coexisting personality disorder

Table 24: Clinical evidence profile for Comparison 9. IPT versus imipramine

Quality ass	sessment						No	of patients	Effect			
No of studies	S Design Risk of bias Inconsistency Indirectness Imprecision Other consideration symptomatology at endpoint (HAMD) (follow-up mean 16 weeks; measured with: Hamilton de						IPT	Imipramine	Relative (95% CI)		Quality	Importance
Depression	n symptomatol	ogy at end	point (HAMD) (follow	v-up mean 16 week	s; measured with:	Hamilton depression	on s	cale (HAMD); Better	indicated by lower values)		•
1 (shea 1990)	randomised trials	very serious ¹		no serious indirectness	no serious imprecision	none	41	44	-	SMD 0.01 higher (0.42 lower to 0.43 higher)	LOW	CRITICAL

CI: confidence interval; IPT: interpersonal therapy; SMD: standard mean difference

Table 25: Clinical evidence profile for Comparison 10. IPT + fluoxetine versus fluoxetine

Quality as	sessment						No of patien	ts	Effect		Quality	Importance
No of studies	Liberan	Risk of bias	Inconsistency	Indirectness	Imprecision		IPT + fluoxetine	Fluoxetine	Relative (95% CI)	Absolute		·
Depressio	n symptomato	logy at er	ndpoint (follow-up	mean 24 weeks; r	measured wi	th: Hamilton depre	ssion scale ((HAMD); Be	tter indicated	by lower values)		
1 (Bellino 2006)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	16	16	-	SMD 0.9 lower (1.63 to 0.16 lower)	LOW	CRITICAL
Remission (CGI-I) sco	, , ,	up mean 2	24 weeks; assesse	d with: Hamilton	depression s	cale (HAMD) score	e ≤8 and impi	oved by at	least 40% and	l clinical global impressio	n-improv	ement
1 (Bellino 2006)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	12/19 (63.2%)	10/20 (50%)	RR 1.26 (0.72 to 2.2)	130 more per 1000 (from 140 fewer to 600 more)	VERY LOW	CRITICAL
Discontinu	uation due to a	ny reasor	(follow-up mean	24 weeks; assess	ed with: Nur	nber of participant	s who dropp	ed out for a	ny reason)			
1 (Bellino 2006)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ³	none	3/19 (15.8%)	4/20 (20%)	RR 0.79 (0.2 to 3.07)	42 fewer per 1000 (from 160 fewer to 414 more)	VERY LOW	CRITICAL

CI: confidence interval; IPT: interpersonal therapy; RR: relative risk; SMD: standard mean difference

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

¹ Risk of bias is high or unclear across multiple domains

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

³ 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

Table 26: Clinical evidence profile for Comparison 11. Short-term psychodynamic psychotherapy + any antidepressant versus any antidepressant

	antiue	ргоос	4116									
Quality a	ssessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	considerations	Short-term psychodynamic psychotherapy + any antidepressant	antidepressant	Relative (95% CI) Absolute etter indicated by lower values)		Quality	Importance
Depress	ion symptom	atology a	at endpoint (follo	w-up mean 24	weeks; meas	ured with: Hamil	ton depression scale (HAM	D); Better indicat	ed by lowe	r values)		
1 (Kool 2003)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	reporting bias ³	49	36	-	SMD 0.47 lower (0.91 to 0.04 lower)	VERY LOW	CRITICAL
Remissi	on (ITT) (follo	w-up me	an 24 weeks; as	sessed with: No	umber of par	ticipants with Ha	milton depression scale (HA	AMD) score of les	s than or e	equal to 7)		
1 (Kool 2003)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	reporting bias ³	23/49 (46.9%)	7/36 (19.4%)	RR 2.41 (1.17 to 5)	274 more per 1000 (from 33 more to 778 more)	VERY LOW	CRITICAL
Quality of	of life at endp	oint (foll	ow-up mean 24 v	veeks; measure	ed with: Qual	ity of life depress	sion scale (QLDS); Better in	dicated by highe	r values)			
1 (Kool 2003)	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	reporting bias ³	49	36	-	SMD 0.85 higher (0.4 to 1.3 higher)		IMPORTANT

CI: confidence interval; RR: relative risk; SMD: standard mean difference

Table 27: Clinical evidence profile for Comparison 12. Fluoxetine versus nortriptyline

Quality as	sessment				No of patie	ents	Effect		Quality	Importance
No of studies	Design	bias		Imprecision		Nortriptyline	(95% CI)	Absolute Setter indicated by lower		

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

³ Trial funded by pharmaceutical company

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Depression with coexisting personality disorder

1 (Joyce 2003)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	reporting bias ³	47	36	-	SMD 0.37 lower (0.81 lower to 0.07 higher)	VERY LOW	CRITICAL
Response	e (ITT) (follow-	up mean (6 weeks; assessed	with: Number of	participants	showing at least 6	0% improve	ement on Mo	ntgomery-Asbe	erg depression rating sca	le (MADF	RS))
1 (Joyce 2003)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	very serious ⁴	reporting bias ³	20/47 (42.6%)	14/36 (38.9%)	RR 1.09 (0.65 to 1.85)	35 more per 1000 (from 136 fewer to 331 more)	VERY LOW	CRITICAL
Discontin	uation due to	any reaso	n (follow-up mean	6 weeks; assesse	ed with: Num	ber of participants	who dropp	ed out for a	ny reason)			
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	very serious ⁴	reporting bias ³	6/47 (12.8%)	6/36 (16.7%)	RR 0.77 (0.27 to 2.18)	38 fewer per 1000 (from 122 fewer to 197 more)	VERY LOW	CRITICAL

CI: confidence interval; RR: relative risk; SMD: standard mean difference

Table 28: Clinical evidence profile for Comparison 13. Imipramine versus pill placebo

			promo tor co									
Quality assessment							No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Improcision	Other considerations	Imipramine	PIII nlaceho	Relative (95% CI)		Quality	Importance
Depression symptomatology at endpoint (follow-up mean 16 weeks; measured with: Hamilton depression scale (HAMD); Better indicated by lower values)												
1 (Shea 1990)	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	44	48	-	SMD 0.4 lower (0.82 lower to 0.01 higher)	VERY LOW	CRITICAL

CI: confidence interval; SMD: standard mean difference

¹ Risk of bias is high or unclear across multiple domains

² 95% CI crosses thresholds for clinically important benefit and no effect

Study partially funded by pharmaceutical company
 95% CI crosses threshold for no effect, and thresholds for both clinically important benefit and harm

¹ Risk of bias is high or unclear across multiple domains

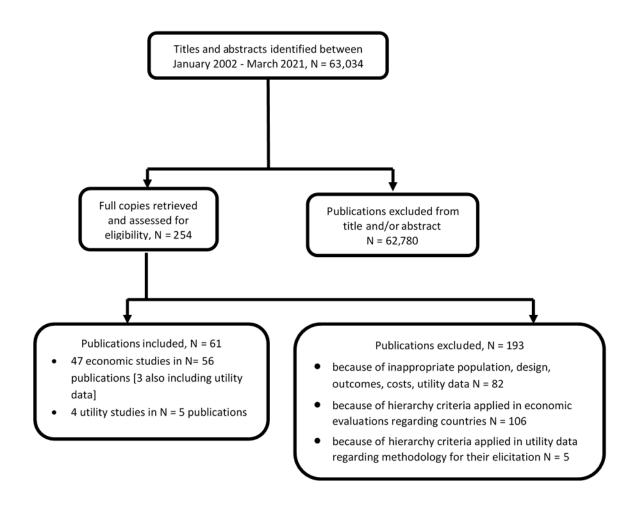
² 95% CI crosses thresholds for clinically important benefit and no effect

Appendix G - Economic evidence study selection

Economic evidence study selection for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

A global health economics search was undertaken for all areas covered in the guideline. Figure 37 shows the flow diagram of the selection process for economic evaluations of interventions and strategies for adults with depression and studies reporting depression-related health state utility data.

Figure 37. Flow diagram of selection process for economic evaluations of interventions and strategies for adults with depression and studies reporting depression-related health state utility data



Appendix H – Economic evidence tables

Economic evidence tables for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

No economic evidence was identified which was applicable to this review question.

Appendix I – Economic evidence profiles

Economic evidence profiles for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

No economic evidence was identified which was applicable to this review question.

Appendix J - Economic analysis

Economic evidence analysis for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

No economic analysis was conducted for this review question.

Appendix K - Excluded studies

Excluded clinical and economic studies for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

Clinical studies

Please refer to the excluded studies in supplement F– Clinical evidence tables for Evidence review F Depression with personality disorder

Economic studies

Please refer to supplement 3 - Economic evidence included & excluded studies.

Appendix L - Research recommendations

Research recommendations for review question: For adults with depression and a coexisting personality disorder what are the relative benefits and harms of first-line treatment or relapse prevention with psychological, psychosocial, pharmacological and physical interventions alone or in combination?

No research recommendations were made for this review question.