

National Institute for Health and Care Excellence

Consultation draft

Depression in adults: treatment and management

Appendix U2.8: Text from CG90 Appendix 17b that has
been deleted

NICE Guideline

Appendices

May 2018

Disclaimer

Healthcare professionals are expected to take NICE clinical guidelines fully into account when exercising their clinical judgement. However, the guidance does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of each patient, in consultation with the patient and/or their guardian or carer.

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Appendix 17b: clinical studies characteristics tables – psychological and psychosocial interventions

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Please note that references for studies from the previous guideline are in Appendix 18.

Computerised cognitive behavioural therapy (CCBT) - studies in the previous guideline and the update

Comparisons Included in this Clinical Question

CCBT + postcard reminders vs CCBT + phone reminders vs control
CLARKE2005

CCBT vs control
CLARKE2002 PROUDFOOT2004A

CCBT vs group CBT vs wait list control
SPEK2007

CCBT vs psychoeducation website vs control
CHRISTENSEN2004A

CCBT vs therapist CBT vs wait list control
SELMI1990

CCBT vs wait list control
ANDERSSON2005A

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes									
ANDERSSON2005A Study Type: RCT Type of Analysis: completers Blindness: Open Duration (days): Mean 70 Followup: 6 months Setting: Press release & newspaper ads; Sweden Notes: RANDOMISATION: carried out by independent person who drew numbers from bowl Info on Screening Process: 343	n= 117 Age: Mean 36 Sex: 30 males 87 females Diagnosis: 100% Major depression by CIDI-SF Exclusions: score below 15 or above 30 on MADRS, psychosis, bipolar disorder, antidepressant medication begun/changed in last 6 months, history of CBT, <18 years, not prepared/able to work with self-help programme Notes: Diagnosis is based on self report via computer, participants were included if they had probability of 0.55 or more of major depression diagnosis and MADRS-S total score of 15-30. Baseline: <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">CCBT</td> <td style="text-align: center;">Control</td> </tr> <tr> <td>BDI (21 item)</td> <td style="text-align: center;">20.5 (6.7)</td> <td style="text-align: center;">20.9 (8.5)</td> </tr> <tr> <td>MADRS-S (9 item)</td> <td style="text-align: center;">20.1 (5.7)</td> <td style="text-align: center;">21.6 (7.2)</td> </tr> </table>		CCBT	Control	BDI (21 item)	20.5 (6.7)	20.9 (8.5)	MADRS-S (9 item)	20.1 (5.7)	21.6 (7.2)	Data Used Leaving study early for any reason MADRS-S (9 item) BDI (21 item) Data Not Used QoLI - not relevant BAI (21 items) - not relevant Notes: All measures self reported via computer.	Group 1 N= 57 CCBT - 5 modules available on website, each module ended with quiz, responses were automatically sent to therapist who gave email feedback & access to next module within 24 hours. Mean time for completion was 10 weeks. Online discussion group - Treatment group could discuss contents of self-help material etc. Activity in discussion groups was closely monitored Group 2 N= 60 Wait list - no treatment Online discussion group - Control group discussed topics such as sick leave & experience of being depressed. Activity in discussion groups was closely monitored	Funding: L.J. Boethius Foundation & Swedish Research Council.
	CCBT	Control											
BDI (21 item)	20.5 (6.7)	20.9 (8.5)											
MADRS-S (9 item)	20.1 (5.7)	21.6 (7.2)											

Results from this paper:

ANDERSSON2004 is 6 month follow-up, by this time participants in control group had also received treatment. Paper reports pre-treatment predictors of improvement following CCBT.
 BERSTROM2003 is a poster of this study.

CHRISTENSEN2004A Study Type: RCT Type of Analysis: ITT Blindness: Open Duration (days): Mean 42 Followup: 6 months & 1 year Setting: recruitment via questionnaire; Australia Notes: RANDOMISATION: procedure not reported Info on Screening Process: 27000	n= 525 Age: Mean 36 Sex: 150 males 375 females Diagnosis: No formal diagnosis Exclusions: refused to participate, uncontactable, language difficulty, unwilling to be randomised etc. Notes: No diagnoses given but participants scored 12 or above on Kessler psych distress scale. Baseline: <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">CCBT</td> <td style="text-align: center;">Psychoeducation</td> <td style="text-align: center;">Control</td> </tr> <tr> <td>Kessler</td> <td style="text-align: center;">17.9 (5.0)</td> <td style="text-align: center;">17.5 (4.9)</td> <td style="text-align: center;">18.0 (5.7)</td> </tr> <tr> <td>CES-D</td> <td style="text-align: center;">21.8 (10.5)</td> <td style="text-align: center;">21.1(10.4)</td> <td style="text-align: center;">21.6 (11.1)</td> </tr> </table>		CCBT	Psychoeducation	Control	Kessler	17.9 (5.0)	17.5 (4.9)	18.0 (5.7)	CES-D	21.8 (10.5)	21.1(10.4)	21.6 (11.1)	Data Used Leaving study early for any reason CES-D Data Not Used Goldberg Anxiety scale - not relevant Goldberg Depression scale - not relevant CBT literacy - not relevant Lifestyle literacy - not relevant Psychological literacy - not relevant Medical literacy - not relevant Automatic thoughts Questionnaire - not relevant	Group 1 N= 182 CCBT - MoodGYM website: 5 20-40 minute online modules, lay interviewers phoned participants weekly to direct use of website & give overview at 6 weeks. Group 2 N= 165 Online psychoeducation - BluePages: psychoeducation website, lay interviewers phoned participants weekly to direct use of website & give overview at 6 weeks. Group 3 N= 178 Control - 'attention placebo' lay interviewers phoned participants weekly to discuss lifestyle factors eg exercise, education & health habits	Funding: National Health & Medical Research Council Australia programme grant to the Centre for Mental Health Research.
	CCBT	Psychoeducation	Control													
Kessler	17.9 (5.0)	17.5 (4.9)	18.0 (5.7)													
CES-D	21.8 (10.5)	21.1(10.4)	21.6 (11.1)													

Results from this paper:

CHRISTENSEN2004 & CHRISTENSEN2006E: compare participants in MoodGYM arm of this trial to community visitors of the MoodGYM website.
 GRIFFITHS2004: effects of MoodGYM & BluePages on reducing stigma.
 CHRISTENSEN2006D: 6-month follow-up, investigates subsequent help seeking for specific treatments.
 MACKINNON2008: 6 & 12-month outcomes of trial.
 CHRISTENSEN2006C: compares 6 versions of MoodGYM.

<p>CLARKE2002</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Open</p> <p>Duration (days): Mean 224</p> <p>Setting: recruitment brochures mailed to members of health maintenance organisation; US</p> <p>Notes: RANDOMISATION: random-assignment algorithm encoded into website programming</p> <p>Info on Screening Process: 13990</p>	<p>n= 223</p> <p>Age: Mean 44</p> <p>Sex: 55 males 168 females</p> <p>Diagnosis:</p> <p>75% Depression</p> <p>25% No formal diagnosis</p> <p>Exclusions: no exclusion criteria other than all participants were members of health maintenance organisation & had internet access</p> <p>Notes: Data is given only for 75% (N=223) of sample who had received medical services in previous 30 days in association with recorded diagnosis of depression. Other 25% of sample were non-depressed adults (not extracted).</p> <p>Baseline:</p> <table border="0"> <tr> <td>CCBT</td> <td>Control</td> </tr> <tr> <td>CES-D 30.7 (12.9)</td> <td>31.3 (11.5)</td> </tr> </table>	CCBT	Control	CES-D 30.7 (12.9)	31.3 (11.5)	<p>Data Used</p> <p>CES-D</p>	<p>Group 1 N= 107</p> <p>CCBT - Overcoming Depression on the Internet: interactive CCBT website focussing on cognitive restructuring techniques, participants sent email reminders to return to the website at 4, 8, 16 & 32 weeks post randomisation.</p> <p>Group 2 N= 116</p> <p>Control - directed to webpage where users can obtain non-interactive info re. health concerns including depression, can ask nurse/pharmacist or request appointment at medical centre; participants sent email reminders to return to website at 4, 8, 16 & 32 weeks.</p>	<p>Funding: partly funded by grant from Garfield Foundation Depression Initiative Project</p>
CCBT	Control							
CES-D 30.7 (12.9)	31.3 (11.5)							
<p>CLARKE2005</p>								

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Open</p> <p>Duration (days): Mean 112</p> <p>Setting: recruitment brochures mailed to members of health maintenance organisation; US</p> <p>Notes: RANDOMISATION: by random sequence software</p> <p>Info on Screening Process: 12051</p>	<p>n= 200</p> <p>Age: Mean 47</p> <p>Sex: 46 males 154 females</p> <p>Diagnosis: 78% Depression</p> <p>22% No formal diagnosis</p> <p>Exclusions: no exclusion criteria other than all participants were members of health maintenance organisation & had internet access</p> <p>Notes: 200 participants (78% of total sample) had received treatment for depression in previous 30 days & had chart diagnosis of depression. Data extracted only for this depressed subset of sample.</p> <p>Baseline:</p> <table border="1"> <tr> <td></td> <td>CCBT postcard</td> <td>CCBT telephone</td> <td>TAU</td> </tr> <tr> <td>CES-D</td> <td>31.4 (11.8)</td> <td>31.3 (13.4)</td> <td>28.8 (13.6)</td> </tr> </table>		CCBT postcard	CCBT telephone	TAU	CES-D	31.4 (11.8)	31.3 (13.4)	28.8 (13.6)	<p>Data Used</p> <p>CES-D</p>	<p>Group 1 N= 54</p> <p>CCBT + postcard reminders - Overcoming Depression on the Internet: interactive website training in cognitive restructuring, no behaviour therapy techniques employed, participants sent postcard reminders to return to the website at 2, 8, & 13 weeks post randomisation.</p> <p>Group 2 N= 67</p> <p>CCBT + telephone reminders - Overcoming Depression on the Internet: interactive website training in cognitive restructuring, no behaviour therapy employed, participants telephoned by non-clinical staff & reminded to return to the website at 2, 8, & 13 weeks post randomisation.</p> <p>Group 3 N= 79</p> <p>Control - directed to health maintenance organisation website which provides information about depression</p>	<p>Funding: grant from Garfield Foundation Depression Initiative Project, authors are independent of funding agency.</p>
	CCBT postcard	CCBT telephone	TAU									
CES-D	31.4 (11.8)	31.3 (13.4)	28.8 (13.6)									
PROUDFOOT2004A												
<p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 63</p> <p>Followup: 2, 3, 5, 8 months</p>	<p>n= 274</p> <p>Age: Mean 44</p> <p>Sex: 72 males 202 females</p> <p>Diagnosis: 27% Mixed anxiety/depression by ICD-10</p>	<p>Data Used</p> <p>Leaving study early for any reason BDI</p> <p>Data Not Used</p> <p>HRSD minus sleep items - not relevant Sustained response - not relevant Work & Social Adjustment - not relevant</p>	<p>Group 1 N= 146</p> <p>CCBT - Beating the Blues: 15 minute introductory video followed by 8 therapy sessions approximately 50 minutes each, 1 session a week. Carried out at GP clinic, practice nurse checked patients at beginning & end of session. (N=56 in depression-only group)</p>	<p>Funding: NHS Executive London Research & Development Responsive Funding Programme & by Ultrasis UK Ltd.</p> <p style="text-align: right;">2</p>								

<p>Notes: RANDOMISATION: randomly sorted cards</p> <p>Info on Screening Process: 502</p>	<p>24% Mixed anxiety/depression mild by ICD-10</p> <p>12% Severe depressive episode by ICD-10</p> <p>16% Moderate depressive episode by ICD-10</p> <p>5% Mild depressive episode by ICD-10</p> <p>5% Panic disorder by ICD-10</p> <p>4% Social phobia by ICD-10</p> <p>3% At least 2 major depressive episodes by ICD-10</p> <p>2% Specific phobia by ICD-10</p> <p>Exclusions: <18 or >75 years, receiving psychological intervention, score <4 on GHQ-12, score <12 on computerised version of Clinical Interview Schedule-Revised, suicidal ideas, psychotic disorder, organic mental disorder, alcohol/drug dependency, taking medication for anxiety/depression continuously for >6 months prior to trial, unable to read/write English, unable to attend sessions</p> <p>Notes: pre-treatment data for 24 patients lost due to human error; outcome data used are for 92 patients with depression only supplied by authors. NB: percentages for each diagnosis type do not add up to 100%.</p> <p>Baseline: CCBT TAU BDI 24.9 (10.8) 24.7 (9.2)</p>	<p>BAI - not relevant</p> <p>Notes: Available at endpoint and 3-, 5-, and 8-month follow-up</p>	<p>Group 2 N= 128</p> <p>Control - TAU: whatever treatment is prescribed by GP (N=36 in depression-only group)</p>	
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Results from this paper:
PROUDFOOT2003 reports 1st phase of this trial (with less participants)

<p>Selmi1990</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 42</p> <p>Followup: 2 months</p> <p>Setting: recruited through newspaper announcements; US</p> <p>Notes: RANDOMISATION: no details reported</p>	<p>n= 36</p> <p>Age: Mean 28</p> <p>Sex: 13 males 23 females</p> <p>Diagnosis:</p> <p>69% Major depression by RDC</p> <p>11% Minor depressive disorder by RDC</p> <p>19% Intermittent depressive disorder by RDC</p> <p>Exclusions: SCL-90-R depression score below the 65th percentile for psychiatric outpatients, BDI <16</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>BDI</td> <td>HRSD</td> </tr> <tr> <td>CCBT</td> <td>21.42 (3.96)</td> <td>14.33 (4.01)</td> </tr> <tr> <td>CBT</td> <td>23.18 (7.19)</td> <td>15.09 (4.55)</td> </tr> <tr> <td>Waitlist</td> <td>22.92 (5.02)</td> <td>15.57 (5.00)</td> </tr> </table>		BDI	HRSD	CCBT	21.42 (3.96)	14.33 (4.01)	CBT	23.18 (7.19)	15.09 (4.55)	Waitlist	22.92 (5.02)	15.57 (5.00)	<p>Data Used</p> <p>HRSD</p> <p>BDI</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>Automatic thoughts Questionnaire - not relevant</p> <p>SCL-90-R (global symptoms) - not relevant</p> <p>SCL-90-R (depression) - not relevant</p>	<p>Group 1 N= 12</p> <p>CBT</p> <p>CCBT - 6 sessions once a week, programme assessed symptoms & functioning, checked patients' understanding of material & gave feedback, prepared homework assignment; experimenter present at start & end of session and available to answer questions</p> <p>Group 2 N= 12</p> <p>Therapist CBT - 6 sessions once a week with trained advanced graduate student who followed treatment manual, session agendas identical to computer programme</p> <p>Group 3 N= 12</p> <p>Wait list - no treatment for 14 weeks</p>	
	BDI	HRSD														
CCBT	21.42 (3.96)	14.33 (4.01)														
CBT	23.18 (7.19)	15.09 (4.55)														
Waitlist	22.92 (5.02)	15.57 (5.00)														
<p>SPEK2007</p>																

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Open</p> <p>Duration (days): Mean 70</p> <p>Followup: 1 year</p> <p>Setting: recruited by ads in regional newspapers & letters sent by Municipal Health Care Service; Netherlands</p> <p>Notes: RANDOMISATION: random allocation sequence generated</p> <p>Info on Screening Process: 606</p>	<p>n= 301</p> <p>Age: Mean 55</p> <p>Sex: 110 males 191 females</p> <p>Diagnosis:</p> <p>100% No formal diagnosis</p> <p>Exclusions: score < 12 on EDS, DSM-IV diagnosis of depression, aged <50 or >75, refusal to give informed consent, no access to internet, inability to use internet, psychiatric disorder in immediate need of treatment, suicidal ideation.</p> <p>Notes: no compliance with DSM-IV diagnosis of depression but participants scored >12 on EDS</p> <p>Baseline:</p> <table> <tr> <td>CCBT</td> <td>group CBT</td> <td>Control</td> </tr> <tr> <td>BDI 19.17 (7.21)</td> <td>17.89 (9.95)</td> <td>18.13 (8.10)</td> </tr> </table>	CCBT	group CBT	Control	BDI 19.17 (7.21)	17.89 (9.95)	18.13 (8.10)	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>BDI (21 item)</p> <p>Data Not Used</p> <p>CIDI - not relevant</p> <p>NEO-FFI - not relevant</p> <p>EDS (10 item) - not relevant</p> <p>Notes: Leaving study early is no. of participants who did not complete post treatment measures.</p>	<p>Group 1 N= 102</p> <p>CCBT - self-help internet based intervention with 8 modules, consisting of text, exercises, videos & figures, covers same subjects as CWD course, no professional support offered (carried out at home)</p> <p>Group 2 N= 99</p> <p>Group CBT - Coping with Depression course: 10 weekly group sessions on psychoeducation, cognitive restructuring, behaviour change & relapse prevention, groups consisted of no more than 10 participants</p> <p>Group 3 N= 100</p> <p>Wait list - no treatment</p>	<p>Funding: grant from ZON-MW, Netherlands Organisation for Health Research & Development</p>
CCBT	group CBT	Control								
BDI 19.17 (7.21)	17.89 (9.95)	18.13 (8.10)								
<p>Results from this paper:</p> <p>SPEK2008 reports 1 year follow-up.</p> <p>SPEK2008A reports on which participant characteristics predict outcome for CCBT & group CBT.</p>										

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
BOWERS1993	Less than 10 participants in each condition
CUKROWICZ2007	Non-clinical population
DEGRAAF2008	Protocol only - no data available
ELGAMAL2007	Not CCBT - reports RCT for computer assisted cognitive retraining programme, no depression outcomes reported.
HETHERTON2004	Abandoned RCT, no data reported
OSGOOD-HYNES1998	Non-RCT
TREBO2007	Paper does not report enough information regarding intervention, BDI data illegible in table
VAN STRATEN2008	General population
WARMERDAM2008	Protocol-only available; data published but not available on UCL ejournals (only published electronically); emailed author for copy
WHITFIELD2006	Non-RCT
WRIGHT2005A	GDG did not consider the intervention provided was the same as CCBT provided in the NHS (it focused on CCBT augmentation of a therapist-delivered intervention)

References of Included Studies

ANDERSSON2005A (Published Data Only)

Berstrom, J., Hollandare, F., Carlbring, P., Kaldo-Sandstrom, V., Ekselius, L., & Andersson, G. (2003) Treatment of depression via the internet: A randomized trial of a self-help programme. Journal of Telemedicine and Telecare, 9, S2: 85.

Andersson, G., Bergstrom, J., Hollandare, F., Ekselius, L., & Carlbring, P. (2004) Delivering cognitive behavioural therapy for mild to moderate depression via the internet: Predicting outcome at 6-month follow-up. *Verhaltenstherapie*, 14, 185-189.

*Andersson, G., Bergstrom, J., Hollandare, F., Carlbring, P., Kaldø, V., & Ekselius, L. (2005) Internet-based self-help for depression: randomised controlled trial. *British Journal of Psychiatry*, 187, 456-461.

CHRISTENSEN2004A (Published Data Only)

Christensen, H., Leach, L. S., Barney, L., Mackinnon, A. J., & Griffiths, K. M. (2006) The effect of web based depression interventions on self reported help seeking: randomised controlled trial. *BMC Psychiatry*, 6, 13.

Christensen, H., Griffiths, K. M., Mackinnon, A. J., & Brittliffe, K. (2006) Online randomized controlled trial of brief and full cognitive behaviour therapy for depression. *Psychological Medicine*, 36, 1737-1746.

Mackinnon, A., Griffiths, K. M., & Christensen, H. (2008) Comparative randomised trial of online cognitive-behavioural therapy and an information website for depression: 12-Month outcomes. *British Journal of Psychiatry*, 192, 130-134.

Christensen, H., Griffiths, K., Groves, C., & Korten, A. (2006) Free range users and one hit wonders: community users of an Internet-based cognitive behaviour therapy program. *Australian & New Zealand Journal of Psychiatry*, 40, 59-62.

Griffiths, K. M., Christensen, H., Jorm, A. F., Evans, K., & Groves, C. (2004) Effect of web-based depression literacy and cognitive-behavioural therapy interventions on stigmatising attitudes to depression: randomised controlled trial. *British Journal of Psychiatry*, 185, 342-349.

Christensen, H., Griffiths, K. M., Korten, A. E., Brittliffe, K., & Groves, C. (2004) A comparison of changes in anxiety and depression symptoms of spontaneous users and trial participants of a cognitive behavior therapy website. *Journal of Medical Internet Research*, 6, e46.

*Christensen, H., Griffiths, K. M., & Jorm, A. F. (2004) Delivering interventions for depression by using the internet: randomised controlled trial. *British Medical Journal*, 328, 265.

CLARKE2002 (Published Data Only)

Clarke, G., Reid, E., Eubanks, D., O'Connor, E., DeBar, L. L., Kelleher, C. et al. (2002) Overcoming Depression on the Internet (ODIN): A randomized controlled trial of an internet depression skills intervention program. *Journal of Medical Internet Research*, 4, e14.

CLARKE2005 (Published Data Only)

Clarke, G., Eubanks, D., Reid, E., Kelleher, C., O'Connor, E., DeBar, L. L. et al. (2005) Overcoming depression on the internet (ODIN) (2): A randomized trial of a self-help depression skills program with reminders. *Journal of Medical Internet Research*, 7, e16.

PROUDFOOT2004A (Unpublished and Published Data)

Proudfoot, J., Goldberg, D., Mann, A., Everitt, B., Marks, I., & Gray, J. A. (2003) Computerized, interactive, multimedia cognitive-behavioural program for anxiety and depression in general practice. *Psychological Medicine*, 33, 217-227.

*Proudfoot, J., Ryden, C., Everitt, B., Shapiro, D. A., Goldberg, D., Mann, A. et al. (2004) Clinical efficacy of computerised cognitive-behavioural therapy for anxiety and depression in primary care: randomised controlled trial. *British Journal of Psychiatry*, 185, 46-54.

Selmi1990 (Published Data Only)

Selmi, P.M., Klein, M.H., Greist, J.H., Sorrell, S.P., Erdman, H.P. (1990) Computer-administered cognitive behavioral therapy for depression. *American Journal of Psychiatry*, 147(1), 51-56.

SPEK2007 (Published Data Only)

Spek, V., Nyklicek, I., Cuijpers, P., & Pop, V. (2008) Predictors of outcome of group and internet-based cognitive behavior therapy. *Journal of Affective Disorders*, 105, 137-145.

Spek, V., Cuijpers, P., Nyklicek, I., Smits, N., Riper, H., Keyzer, J. & Pop, V. (2008) One-year follow-up results of a randomized controlled clinical trial on internet-based cognitive behavioural therapy for subthreshold depression in people over 50 years. *Psychological Medicine*, 38, 635-639.

*Spek, V., Nyklicek, I., Smits, N., Cuijpers, P., Riper, H., Keyzer, J. et al. (2007) Internet-based cognitive behavioural therapy for subthreshold depression in people over 50 years old: A randomized controlled clinical trial. *Psychological Medicine*, 37, 1797-1806.

References of Excluded Studies**BOWERS1993** (Published Data Only)

Bowers, W., Stuart, S., MacFarlane, R. (1993) Use of computer-administered cognitive-behavior therapy with depressed patients. *Depression*, 1, 294-299.

CUKROWICZ2007 (Published Data Only)

Cukrowicz, K.C., Joiner, T.E.Jr (2007) Computer-based intervention for anxious and depressive symptoms in a non-clinical population. *Cognitive Therapy & Research*, 31, 677-693.

DEGRAAF2008 (Published Data Only)

de Graaf, L.E., Gerhards, S.A., Evers, S.M., Arntz, A., Riper, H., Severens, J.L., Widdershoven, G., Metsemakers, J.F., Huibers, M.J. (2008). Clinical and cost-effectiveness of computerised cognitive behavioural therapy for depression in primary care: Design of a randomised trial. *BMC Public Health*, 8 (224), 1-11.

ELGAMAL2007 (Published Data Only)

Elgamal, S., McKinnon, M. C., Ramakrishnan, K., Joffe, R. T., & Macqueen, G. (2007) Successful computer-assisted cognitive remediation therapy in patients with unipolar depression: a proof of principle study. *Psychological Medicine.*, 37, 1229-1238.

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HETHERTON2004 (Published Data Only)

Hetherton, J., Matheson, A., & Robson, M. (2004) Recruitment by GPs during consultations in a primary care randomized controlled trial comparing computerized psychological therapy with clinical psychology and routine GP care: Problems and possible solutions. *Primary Health Care Research and Development*, 5, 5-10.

OSGOOD-HYNES1998 (Published Data Only)

Osgood-Hynes, D. J., Greist, J. H., Marks, I. M., Baer, L., Heneman, S. W., Wenzel, K. W. et al. (1998) Self-administered psychotherapy for depression using a telephone-accessed computer system plus booklets: an open U.S.-U.K. study. *Journal of Clinical Psychiatry*, 59, 358-365.

TREBO2007 (Published Data Only)

Trebo, E., Holzner, B., Pircher, M., Prunnelechner, R., Gunther, V. (2007) The effects of a computer assisted cognitive training on neuropsychological parameters, mood and dysfunctional cognitions in depressive patients. *Neuropsychiatrie*, 21, 207-215.

VAN STRATEN2008 (Published Data Only)

Van Straten, A., Cuijpers, P., Smits, N. (2008) Effectiveness of a web-based self-help intervention for symptoms of depression, anxiety, and stress: Randomized controlled trial. *Journal of Medical Internet Research*, 10,1.

WARMERDAM2008 (Published Data Only)

Warmerdam, L., van Straten, A., Twisk, J., Riper, H., Cuijpers, P. (2008) Internet-based treatment for adults with depressive symptoms: randomized controlled trial. *Journal of Medical Internet Research*. 10(4), e.44

Warmerdam, L., van Straten, A., & Cuijpers, P. (2007) Internet-based treatment for adults with depressive symptoms: The protocol of a randomized controlled trial. *BMC Psychiatry*, 7, 72.

WHITFIELD2006 (Published Data Only)

Whitfield, G., Hinshalwood, R., Pashely, A., Campsie, L. & Williams, C. (2006) The impact of a novel computerised CBT CD rom (Overcoming Depression) offered to patients referred to clinical psychology. *Behavioural and Cognitive Psychotherapy*, 34, 1-11.

WRIGHT2005A (Published Data Only)

Wright, J. H., Wright, A. S., Albano, A. M., Basco, M. R., Goldsmith, L. J., Raffield, T. et al. (2005) Computer-assisted cognitive therapy for depression: maintaining efficacy while reducing therapist time. *American Journal of Psychiatry*, 162, 1158-1164.

Guided self-help - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
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Beutler1991	Allocation: random (no details) Duration: 20 weeks +3-month follow-up. Analysis: Patients who remained in treatment for at least 4 sessions (LOCF)	Outpatients with moderate depression, recruited via press, word of mouth & professional recommendation who were willing to discontinue all other pharmacological or psychological treatments. N=76, 5 patients were excluded after it was found they had not withdrawn from other mental health treatments therefore study analysis was based on 71 patients, mean age = 46.76. 67%	<ol style="list-style-type: none"> 1. Group CBT - following Yost et al (1986) and Beck et al (1979) 2. Focused expressive psychotherapy - a Gestalt-based group psychotherapy supplemented by homework assignments 3. Supportive self-directed therapy - weekly telephone contacts of 30 minutes each and reading prescribed books. Group size - 5 - 10 members 	<ol style="list-style-type: none"> 1. BDI mean scores at endpoint 2. BDI mean scores at 3-month follow-up 3. HRSD mean scores at endpoint 4. HRSD mean scores at 3-month follow-up 	Therapists were 4 experienced psychologists trained in CT and focused expressive psychotherapy. Five advanced graduate students conducted supportive self-directed therapy.	B
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		female. Diagnosis: DSM-III major depressive disorder and HRSD>=16				
Bowman1995	Allocation: random Duration of study: 4 weeks + 2-month follow-up assessment. Analysis: completer	Included community-dwelling individuals who scored >=10 on HRSD-21, were not in psychotherapy at the time of the study, not receiving pharmacotherapy and not evidencing or reporting psychosis, suicidal risk or mania N = 32; mean age 36.2 years, 62.5% female Diagnosis: HRSD>=10	1. Cognitive bibliotherapy: Participants received "Feeling Good" (Burns, 1980). Participant received weekly calls from a researcher to evaluate progress and to offer help in interpreting anything about the book which was unclear. 2. Self-examination therapy: Participants received a 39-page booklet which encouraged participants to isolate themselves at home for at least 30 minutes each week to decide what was relevant to their lives and record this on a sheet. The book suggested using a flow-chart format to attempt to address their difficulties. The book encouraged discarding problems that did not matter to them and to brainstorm for solutions for problems that did matter to them. 3. Wait list control: Participants received weekly calls from researchers assuring them that treatment would become available. Following 4 weeks waiting-period, were randomised to either of the first two treatments (data extracted for 4 week study period only).	1. HRSD mean scores at endpoint 2. HRSD mean scores at 2 month follow-up (interventions 1 and 2 only) 3. BDI mean scores at endpoint 4. BDI mean scores at 2-month follow-up (interventions 1 & 2 only) 5. Leaving the study early	Country of study: US Two participants who dropped out before post-treatment assessment were replaced.	B
Brown1984	Allocation: Random Duration: 8 weeks + 1 month & 6-month follow-ups. Analysis: ITT	Individuals responding to an announcement for "Coping with Depression". N = 80; Study analyses were based on a subsample of 63 participants who met RDC criteria for unipolar depression, mean age 36.5 years (range 16-65 years); 70% female Diagnosis: SADS-RDC diagnosis: major depressive (44% patients) disorder, minor depressive disorder (11% patients), intermittent depressive disorder (44% patients)	1. Class psychoeducation (or group bibliotherapy): Two classes of nine in the first cohort and 2 classes of 7 in the second cohort. Classes were co-taught by 2 instructors. Lecturing supplemented course readings and homework assignments were reviewed. Participants were asked to share experiences in doing homework. Cohesiveness among participants was promoted. Duration of session: 2 hours. 2. Individuals psychoeducation (or individual bibliotherapy): Similar to class condition, but consisted of individual tutoring sessions. Duration of sessions: 50 minutes or less. 3. Telephone contact: Instructors met with participants for one session at beginning of course during which rationale of course was elaborated upon and assignments and monitoring forms explained. All subsequent sessions were conducted via telephone	1. BDI mean scores at endpoint 2. BDI mean scores at 1 month and 6-month follow-up (interventions 1, 2 & 3 only) 3. Non-remitters (patients still meeting SADS-RDC criteria for depression) at 6-month follow-up (interventions 1, 2 & 3 only)	Country of study: US. Of 63 participants with unipolar depression, 22 were involved in concurrent treatment for depression at the time of initial assessment. Four advanced doctoral students in Clinical Psychology served as instructors. Following the intake interview, participants met with their instructor	B

			<p>contacts during which participants were encouraged and assisted in completing course assignments. Calls lasted 15 minutes.</p> <p>4. Wait list control: Following 8-week waiting period, participants received class psychoeducation (data extracted for 8 week study period only)</p> <p>The course employed "Control your depression" (Lewinsohn et al, 1978). A participant workbook (Brown & Lewinsohn, 1984) was developed that contained goal statements and assignments for each unit. Three weeks per session were held during first 4 weeks and one per session during second 4 weeks. Skill areas taught in the course were learning how to relax, increasing pleasant activities, changing aspects of one's thinking, and improving social skills and increasing positive social interactions</p>		during which instructors became acquainted with participant and presented overview and rationale of the course.	
Jamison1995	<p>Allocation: Random (no details)</p> <p>Duration of study: 4 weeks treatment phase plus 3-month follow-up</p> <p>Analysis: completer</p>	<p>Outpatients N = 80; Mean age: 40 years; 84% female. Diagnosis: HRSD-21 ≥ 10; DSM for mild or moderate major depression - responses to HRSD were examined and determined whether five of nine symptoms required by DSM=III R were present, including depressed mood or loss of interest or pleasure; BDI ≥ 10 Brief screening interview conducted to find out willingness to read a book as the major treatment</p>	<p>1. Cognitive bibliotherapy: Patients were requested to read "Feeling Good" (Burns, 1980) within 4 weeks, and given, a booklet describing exercises in the book. BDI administered by weekly telephone interviews. Number of exercises were noted at successive interviews.</p> <p>2. Wait list control: During 4-week waiting period, BDI administered during 10-minute telephone interviews. Received bibliotherapy at end of 4 weeks (data extracted for 4 week study period only).</p>	<p>1. Leaving the study early</p> <p>2. HRSD mean endpoint scores</p> <p>3. BDI mean endpoint scores</p> <p>4. Non-remitters (patients not achieving HRSD≤ 12)</p> <p>5. Non-remitters (patients not achieving BDI≤ 11)</p>	<p>Country of study: US</p> <p>3-month follow-up data not extracted since control group received bibliotherapy during follow-up interval</p>	B
Landreville 1997	<p>Allocation: Random (no details)</p> <p>Duration of study: 4 weeks + 6-month follow-up</p> <p>Analysis: completer</p>	<p>Volunteers through media, practitioners, and social service professionals (a) aged ≥ 55 years; (b) Geriatric Depression Scale ≥ 11; (c) having one or more disabilities in activities of daily life; (d) living independently in the community</p> <p>N = 44; study analyses were based on a subsample of 23</p>	<p>1. Cognitive Bibliotherapy: Participants received a copy of "Feeling Good" (Burns, 1980) and asked to read entire book within 4 weeks. An average of 46.66% (range 6.66 to 100%) of the book was read.</p> <p>2. Wait list control: These participants received 4-week bibliotherapy after the study treatment phase (data extracted for 4 week study period only).</p> <p>Participants in both groups received 15-minute telephone calls once a week by a graduate psychology student in order to assess progress and answer questions about the book in the experimental group, and to</p>	<p>1. BDI mean endpoint scores</p>	<p>Country of study: Canada</p>	B

		patients who had depression diagnosis and who completed the study (number of patients with diagnosis of depression originally randomised not given) ; mean age: Bibliotherapy (N=10) 71.8 years; Control (N=13) 72.15 years; 87% female. 63.63% had physical problems Diagnosis: DSM-III-R for major depression (N = 17) or DSM-IV for minor depression (N = 6)	monitor condition and to encourage them to persevere until treatment became available in the control group.			
Schmidt 1983	Allocation: Random Duration of study: 8 weeks treatment phase + 10-week follow-up Analysis: ITT	Individuals with BDI >=10, depression as major presenting problem, with a minimum duration for the current episode of 2 weeks, no history of bipolar symptomatology or other psychotic states, absence of suicidal ideation during prior year and absence of suicidal behaviour during past 2 years, payments of a \$25 research deposit. N = 56; mean age 42 years; 84% female. Diagnosis: Study conducted shortly before publication of DSM-III and RDC for affective disorders. Retrospective analysis revealed multiple items pertinent to determination of all RDC criteria except "distinct quality of depressed mood". Based on this , 5 participants had endogenomorphic depression.	1. Bibliotherapy: Clients met in two small groups with therapist during first week of treatment. Clients received a copy of the self-help manual and were asked to return mood assessment forms every week. The self-help manual was based on "Control your depression" (Lewinsohn et al, 1986), Beck (1976), Alberti & Emmons (1970), and Lange & Jakubowski (1976). Clients received a telephone call during the 4th week aimed at encouraging and answering the client's questions. 2. Individual therapy, 3. Small group therapy, and 4. Large group therapy: Clients met with therapist weekly for 90 minutes. Treatment procedures and ways of dealing with client's difficulties were discussed. Earlier sessions concentrated on behavioural methods. Cognitive materials followed, presenting more difficult and introspective assignments. Finally assertion skills were taught by combining introspective and behavioural tasks. 5. Wait list controls: Clients were informed that they would receive therapy in about 8 weeks (data extracted for 8 week study period only).	1. Leaving the study early 2. BDI mean scores at endpoint 3. BDI mean scores at 10-week follow-up (interventions 1, 2, 3 & 4 only)	Country of Study: US	D
Scogin 1987	Allocation: Random (no details) Duration of study: 4 week	Community-dwelling individuals aged >=60 years who could read. N = 29; mean age: Cognitive bibliotherapy, 70.8 years, WLC;	1. Cognitive bibliotherapy: Participants received a copy of "Feeling Good" (Burns, 1980). 2. Wait list control: Following 1-month waiting period, participants received cognitive bibliotherapy (data extracted for 4 week study period only).	1. Leaving the study early 2. BDI mean endpoint scores 3. HRSD mean	Country of study: US 3 in cognitive bibliotherapy and 1 in WLC were receiving medication	B

	treatment + 1-month follow-up. Analysis: completer	71.8 years; control bibliotherapy, 68.5 years; 79% female Diagnosis: HDRS >= 10	All participants undergoing therapy received 10-minute weekly phone calls from researchers that were supportive and involved an informal assessment of the participant's progress. Participants were encouraged to complete the book within one month 3. Control bibliotherapy: Participants received a copy of "Man's Search for Meaning" (Frankl, 1959). This treatment group started midway through the study in an effort to improve study design. Therefore, not properly randomised. Data not extracted for this treatment.	endpoint scores	prescribed by their physicians	
Scogin 1989	Allocation: random (no details) Duration of study: 1 month + 6-month follow-up. Analysis: completer	Community-dwelling individuals aged >=60 years recruited via the media. N = 67; mean age 68.3 years; 85% female Diagnosis: HDRS >= 10; Mental Status Questionnaire >=8	1. Cognitive Bibliotherapy: Participants received a copy of "Feeling Good" (Burns, 1980) 2. Behavioural Bibliotherapy: Participants received a copy of "Control your Depression" (Lewinsohn et al, 1986) 3. Wait list control: At the end of waiting period, participants were randomised to either cognitive or behavioural bibliotherapy (data extracted for 4 week study period only) All participants receiving bibliotherapy received 5-minute weekly telephone calls to assess progress and to answer questions about the reading material. Data was extracted for 1 and 3 only.	1. Leaving the study early 2. HRSD mean scores at endpoint	Country of Study: US	B

Characteristics of excluded studies

Study	Reason for exclusion
Blenkiron 2001	Not an RCT
Donnan 1990	Patients did not have a primary diagnosis for depression
Hannay 1999	Study on General Practitioner's views on introducing therapeutic writing to patients in the practice. Not an RCT

Holdsworth 1996	Patients not diagnosed against recognised classification system
Kiely 1986	Sample did not consist of patients with depression, but consisted of those presenting with psychological problems in which stress played a part
Robinson 1997	No extractable data
Sorby 1991	Patients were diagnosed with DSM-III panic disorder. Only 12% patients diagnosed with DSM-III MD, 8% with dysthymia.

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Guided self-help - new studies in the guideline update

Comparisons Included in this Clinical Question

Bibliotherapy vs expressive writing vs journaling vs supportive group vs group CBT
STICE2007

Bibliotherapy vs individual cognitive psychotherapy vs waitlist control
FLOYD2004

Minimal contact psychotherapy vs TAU control
WILLEMSE2004

Psychoeducation Contactus programme vs TAU control
HANSSON2008

Psychoeducational workshop vs waitlist control
BROWN2004

Self-help vs control
GEISNER2006

Self-help vs TAU control
LOVELL2008
SALKOVSKIS2006
WILLIAMS2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>BROWN2004</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 1</p> <p>Followup: 3 months</p> <p>Setting: recruited through ads at health centres, leisure centres, community centres & libraries; UK</p> <p>Notes: RANDOMISATION: using computerised random numbers by a researcher not who was not part of the clinical team.</p> <p>Info on Screening Process: 134 attended introductory talk</p>	<p>n= 120</p> <p>Age:</p> <p>Sex: 23 males 111 females</p> <p>Diagnosis:</p> <p>100% No formal diagnosis</p> <p>Exclusions: no exclusion criteria.</p> <p>Notes: N sex is for 134 people who attended talk, 35% participants between 35-44 but no other age information. No formal diagnosis, but 15% BDI 0-9, 30% BDI 10-18, 36% BDI 19-29, 19% BDI 30-63. Outcome data for those with BDI > 14 (exp n=30; control n=25).</p> <p>Baseline: BDI: psychoeducation 20.67 (10.93), control 19.3 (10.1)</p>	<p>Data Used</p> <p>BDI</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>STAI - not relevant</p> <p>Rosenberg self-esteem scale - not relevant</p> <p>GHQ-12 - not relevant</p> <p>Notes: Baseline assessment at introductory talk two to three weeks prior to workshop, outcome measures reported at 3-month follow-up.</p>	<p>Group 1 N= 60</p> <p>Psychoeducational workshop - 1 day (9.30am-4.30pm) self-confidence workshop for up to 25 people, run at leisure centre by 2 clinical psychologists & 2 assistant psychologists. CBT techniques were adapted for an educational programme.</p> <p>Group 2 N= 60</p> <p>Wait list</p>	
<p>FLOYD2004</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Range 28-84</p> <p>Followup: 3 months</p> <p>Setting: recruited through newspaper ads, TV, flyers, talks at senior citizen activity centres; US</p> <p>Notes: RANDOMISATION: procedure not reported. 1 rater not blind to treatment condition but sample of their interviews reviewed by blind assessor</p> <p>Info on Screening Process: 111</p>	<p>n= 46</p> <p>Age: Mean 68</p> <p>Sex: 11 males 35 females</p> <p>Diagnosis:</p> <p>100% MDD or minor depression or dysthymia by DSM-IV</p> <p>Exclusions: <60 years, life-threatening illness, unable to read, concurrent treatment except antidepressants, thought disorders, bipolar disorder, alcoholism or substance dependence, suicide risk, cognitive impairment, score >=8 on Mental Status Questionnaire, score <10 on HRSD</p> <p>Notes: 26% participants currently on antidepressants</p> <p>Baseline: HRSD: bibliotherapy 17.12 (5.43), individual psychotherapy 16.62 (5.25), waitlist 16.36 (5.09)</p>	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>HRSD</p> <p>Data Not Used</p> <p>Brief symptom inventory - not relevant</p> <p>Geriatric depression scale - not relevant</p>	<p>Group 1 N= 16</p> <p>Bibliotherapy - participants asked to read Feeling Good (Burns 1980) book and complete all homework exercises in 1 month. Participants were telephoned weekly to monitor adherence.</p> <p>Group 2 N= 16</p> <p>Individual psychotherapy - 12-20 sessions of cognitive therapy, 2 sessions/week for 1st 4 weeks, then weekly sessions for 8-12 weeks, therapists were trained clinical psychology graduate students, therapy lasted 12 weeks.</p> <p>Group 3 N= 14</p> <p>Wait list - for 4 weeks, participants were phoned weekly, after 4 weeks were randomly assigned to one of the treatment conditions</p>	
<p>GEISNER2006</p>				

<p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: No mention</p> <p>Duration (days):</p> <p>Followup: 1month</p> <p>Setting: students recruited from university's psych departments mass testing subject pool, received course credits for participation; US</p> <p>Notes: RANDOMISATION: determined by computerised random number generator</p> <p>Info on Screening Process: 1166</p>	<p>n= 177</p> <p>Age: Mean 19</p> <p>Sex: 53 males 124 females</p> <p>Diagnosis:</p> <p>100% No formal diagnosis</p> <p>Exclusions: >18 years, score <14 BDI</p> <p>Baseline: BDI: self-help 18.81 (7.43), control 18.28 (7.09)</p>	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>BDI</p> <p>Data Not Used</p> <p>Hopelessness scale - not relevant</p> <p>Self-Help scale - not relevant</p>	<p>Group 1 N= 89</p> <p>Self-help - participants received personalised feedback & a brochure listing strategies for coping with depressive symp by mail 1 week after baseline assessment</p> <p>Group 2 N= 88</p> <p>Control - participants received brief letter thanking them for participation & a list of resources in the community after baseline assessment</p>	
<p>HANSSON2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 42</p> <p>Setting: recruited from 46 primary health care centres across Sweden</p> <p>Notes: RANDOMISATION: cluster randomisation - each primary health care centre randomised to intervention or control</p>	<p>n= 319</p> <p>Age: Mean 44</p> <p>Sex: 87 males 232 females</p> <p>Diagnosis:</p> <p>100% Depression by GP</p> <p>Exclusions: <18, >69 years, no diagnosis of depression, unsuitable for group participation</p> <p>Notes: Data reported only for 122 participants with HAD-D >10 at baseline, 81% participants on antidepressants, 9% concurrent psychotherapy</p> <p>Baseline: HAD-D: psychoeducation 9.2 (4.4), control 9.2 (4.4)</p>	<p>Data Used</p> <p>HADS</p> <p>Data Not Used</p> <p>GAF-self - not relevant</p>	<p>Group 1 N= 205</p> <p>Psychoeducation - Contactus programme - lectures once a week & discussions after in groups 8-10 participants led by social worker or nurse characterised by support & sharing experiences</p> <p>Group 2 N= 114</p> <p>TAU</p>	
<p>LOVELL2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 84</p> <p>Setting: Primary care (GP and primary care mental health team referrals)</p> <p>Notes: RANDOMISATION: randomised, no details other than allocation minimised by age, gender and severity of depression</p> <p>Info on Screening Process: 148 screened; 53 did not meet inclusion criteria, 6 refused to participant, 30 not included for other reasons (not given); 59 randomised</p>	<p>n= 59</p> <p>Age: Mean 38</p> <p>Sex: 16 males 43 females</p> <p>Diagnosis:</p> <p>100% Depression by GP</p> <p>Exclusions: BDI-II < 14 or BDI-II > 28 (raised to 45 following recruitment problems); current psychological treatment, suicidal intent, postnatal depression, bereavement reaction, primary drug/alcohol dependence.</p> <p>Baseline: BDI-II 28.97 (8.3)</p>	<p>Data Used</p> <p>BDI-II endpoint</p> <p>Leaving study early for any reason</p> <p>Notes: BDI-II endpoint = mean endpoint data; outcomes at 3 months</p>	<p>Group 1 N= 29</p> <p>Self-help - Guided self-help using Lovell K., Richards, D.A. A Recovery Programme for Depression (2007) Rethink. Based on CBT; designed to be delivered in 3-10 sessions over 5-12 weeks; (mean N sessions 3.5 (range 1-10)), 79.3% took antidepressants</p> <p>Group 2 N= 30</p> <p>TAU - Usual GP care; 58.6% took antidepressants</p>	<p>SIGN 1+; funded by MRC</p>
<p>SALKOVSKIS2006</p>				

Study Type: RCT
Type of Analysis: ITT
Blindness: Open
Duration (days):
Followup: 4 weeks, 12 weeks & 6 months
Setting: recruited from 46 GPs; UK
Notes: RANDOMISATION: carried out independently using sealed envelopes prepared using random number tables, groups stratified

n= 96
Age: Mean 40
Sex: 19 males 77 females
Diagnosis:
100% Major depression by DSM-IV SCID
Exclusions: participants without depressive disorder, participants not prescribed antidepressants, informed consent not given, <17, >70 years, difficulty reading English, severe medical illness, psychosis, bipolar disorder, current

Data Used
BDI
Leaving study early for any reason
Data Not Used
Satisfaction ratings - not relevant
CarePartners scale - not relevant
PGI - not relevant

Group 1 N= 50
Self-help - computer algorithm used to design sequence of individually tailored workbooks using information from questionnaire & subsequent assessments, most received about 6 modules & could request up to 3 additional standard booklets on diet, exercise etc
TAU - as provided by GP, all participants prescribed antidepressants which were taken for a mean of 32.3 weeks

<p>according to gender</p> <p>Info on Screening Process: 112</p>	<p>longer than 4 weeks, BDI score <10</p> <p>Baseline: BDI: self-help 27.5 (9.8), TAU 27.1 (10.5)</p>	<p>Notes: Production & day-to-day running of programme undertaken by CarePartners project.</p>	<p>Group 2 N= 46</p> <p>TAU - as provided by GP, all participants prescribed antidepressants which were taken for a mean of 28.8 weeks</p>															
<p>STICE2007</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 30</p> <p>Followup: 6 months</p> <p>Setting: high school & college students recruited through mass mailings, emails & flyers; US</p> <p>Notes: RANDOMISATION: within blocks created by gender & school, group CBT & waitlist have more participants because other conditions added later</p>	<p>n= 225</p> <p>Age: Mean 18 Range 15-22</p> <p>Sex: 67 males 158 females</p> <p>Diagnosis:</p> <p>100% No formal diagnosis</p> <p>Exclusions: CES-D score <20, BDI score >30</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td style="text-align: center;">BDI</td> </tr> <tr> <td>group CBT</td> <td>20.58 (6.55)</td> </tr> <tr> <td>supportive group</td> <td>19.95 (5.99)</td> </tr> <tr> <td>bibliotherapy</td> <td>20.28 (5.78)</td> </tr> <tr> <td>expressive writing</td> <td>18.15 (5.91)</td> </tr> <tr> <td>journaling</td> <td>19.76 (6.80)</td> </tr> <tr> <td>waitlist</td> <td>19.38 (5.98)</td> </tr> </table>		BDI	group CBT	20.58 (6.55)	supportive group	19.95 (5.99)	bibliotherapy	20.28 (5.78)	expressive writing	18.15 (5.91)	journaling	19.76 (6.80)	waitlist	19.38 (5.98)	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>BDI</p>	<p>Group 1 N= 50</p> <p>Group CBT - brief programme of 4 weekly 1 hour sessions facilitated by a trained clinical graduate student & undergraduate, groups of 6-10 participants, brief individual catch-up session given if participant missed a session, detailed manual used</p> <p>Group 2 N= 19</p> <p>Supportive-expressive group - provides forum to discuss feelings, 4 weekly 1 hour sessions facilitated by a trained clinical graduate student & undergraduate, groups of 6-10 participants, brief individual catch-up session given if participant missed a session, detailed manual used</p> <p>Group 3 N= 28</p> <p>Bibliotherapy - asked to read Feeling Good (Burns 1980) CBT approach to depression</p> <p>Group 4 N= 27</p> <p>Expressive writing - asked to write about very deepest thoughts & feelings about an extremely important emotional issue that has affected them for 45 minutes 3 times over 3 weeks, writing sessions took place in a lab in a quiet private space</p> <p>Group 5 N= 34</p> <p>Journaling - participants given a journal and asked to write during their free time and/or at least once a week, no further instructions given about writing</p> <p>Group 6 N= 67</p> <p>Wait list - no treatment, offered group CBT at end of study</p>	<p>Supported by grants from the Hogg Foundation at the University of Texas and National Research Service Awards, and the National Institute of Health.</p>
	BDI																	
group CBT	20.58 (6.55)																	
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<p>WILLEMSE2004</p>																		

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 60</p> <p>Followup: 1 year</p> <p>Setting: recruited from 19 GPs across Netherlands</p> <p>Notes: RANDOMISATION: carried out centrally using blocked scheme stratified by GP with patient as unit of randomisation, with blocks of 4 patients</p> <p>Info on Screening Process: 3825</p>	<p>n= 216</p> <p>Age: Mean 41</p> <p>Sex: 73 males 143 females</p> <p>Diagnosis: 100% Subthreshold depression</p> <p>Exclusions: <18 or >65 years, hearing or language difficulties, received treatment by mental health professional in last year or being on waiting list, life-threatening illness, learning disability, suicidal risk, psychotic symptoms, schizophrenia, dementia, meeting DSM-IV criteria for depressive disorder, dysthymia, bipolar disorder, social phobia, agoraphobia, panic disorder in last year</p>	<p>Data Used</p> <p>CES-D</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>RAND-36 - not relevant</p> <p>CIDI - not relevant</p>	<p>Group 1 N= 107</p> <p>Minimal contact psychotherapy - based on CWD course, main component CBT self-help manual with exercises & homework assignments. Face-to face interview with clinician before reading manual & 6 short supportive phone calls (max 15 minutes) 1st 5 every 2 weeks & 6th call 2 months later</p> <p>Group 2 N= 109</p> <p>TAU - as provided by GP & other health service providers</p>	<p>15</p>
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	1 core symptom + 1-3 current depressive symptoms according to Instel screening instrument Baseline: CES-D: minimal contact therapy 12.5 (8.4), TAU control 13.0 (8.5)			
WILLIAMS2008				
Study Type: RCT Type of Analysis: completers & ITT Blindness: No mention Duration (days): Mean 120 Followup: 1 year Setting: referred from 7 GPs, Scotland Notes: RANDOMISATION: using automated remote telephone system Info on Screening Process: 541	n= 281 Age: Mean 42 Sex: 89 males 192 females Diagnosis: 100% No formal diagnosis Exclusions: <18, BDI score <14, inability to use written materials, suicidal intent, impaired concentration or motivation, Notes: 58% participants currently/recently on medication Baseline: BDI-II: self-help 28.48 (8.75), TAU control 29.00 (9.34)	Data Used Improvement: change in BDI-II (clinical) BDI Leaving study early for any reason Data Not Used Satisfaction ratings - not relevant Euroquol - not relevant CORE - not relevant	Group 1 N= 141 Self-help - CBT 'Overcoming Depression: A 5 Areas Approach' 10 short workbooks which can be used in modular way so participant only works through books relevant to them, 3 40 minute sessions with psychology graduate, 4th session could be provided Group 2 N= 140 TAU - as provided by GP including medication, referral etc	

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
ALLARTVANDAM2003	In CBT review
ANDERSON1986	Only 57% with primary diagnosis of depression (other participants depressed with psychotic features, bipolar, BPD, schizoaffective etc)
BOWMAN1995	Dropouts replaced
COCKRAM2002	Not RCT
CRAVEN2005	Not RCT
CUIJPERS2005C	Not RCT
DALGARD2006	In CBT review
DEN BOER2007A	Not self-help
FLETCHER2005	Only 19% of participants depressed (53% mixed anxiety & depression, 19% anxiety)
HANSER1994	Dropouts replaced
HARINGSMA2006A	In CBT review
JACOB2002	No diagnosis, not self-help
JORM2003	No diagnosis, not self-help
KENDRICK2005	Not self-help
LANG2006	No relevant outcome measures
LARA2003D	Not RCT
LYNCH2004A	Not self-help
RICHARDS2003	No diagnosis
SEIVEWRIGHT1998	Only 31% participants diagnosed with dysthymia, 69% GAD or panic
TYRER1988	No extractable data
WOLLERSHEIM1991	Less than 10 participants in each condition

References of Included Studies

BROWN2004 (Unpublished and Published Data)

Brown, J. S., Elliott, S. A., Boardman, J., Ferns, J., & Morrison, J. (2004) Meeting the unmet need for depression services with psycho-educational self-confidence workshops: preliminary report. *British Journal of Psychiatry*, 185, 511-515.

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FLOYD2004 (Published Data Only)

Floyd, M., Rohen, N., Shackelford, J. A., Hubbard, K. L., Parnell, M. B., Scogin, F. et al. (2006) Two-year follow-up of bibliotherapy and individual cognitive therapy for depressed older adults. *Behavior Modification*, 30, 281-294.

Floyd, M., Scogin, F., McKendree-Smith, N. L., Floyd, D. L. & Rokke, P. D. (2004) Cognitive Therapy for depression: A comparison of individual psychotherapy and bibliotherapy for depressed older adults. *Behavior Modification*, 28, 297-318.

GEISNER2006 (Published Data Only)

Geisner, I. M., Neighbors, C., & Larimer, M. E. (2006) A randomized clinical trial of a brief, mailed intervention for symptoms of depression. *Journal of Consulting & Clinical Psychology*, 74, 393-399.

HANSSON2008 (Published Data Only)

Hansson, M., Bodlund, O., Chotai, J. (2008) Patient education and group counselling to improve the treatment of depression in primary care: a randomized controlled trial. *Journal of Affective Disorders*, 105, 235-240.

LOVELL2008 (Published Data Only)

Lovell, K., Bower, P., Richards, D., Barkham, M., Sibbald, B., Roberts, C., Davies, L., Rogers, A., Gellatly, J., Hennessy, S. (2008) Developing guided self-help for depression using the Medical Research Council complex interventions framework: a description of the modelling phase and results of an exploratory randomised controlled trial. *BMC Psychiatry*, 8, 91-110.

SALKOVSKIS2006 (Published Data Only)

Salkovskis, P., Rimes, K., Stephenson, D., Sacks, G., & Scott, J. (2006) A randomized controlled trial of the use of self-help materials in addition to standard general practice treatment of depression compared to standard treatment alone. *Psychological Medicine*, 36, 325-333.

STICE2007 (Published Data Only)

Stice, E., Burton, E., Bearman, S.K., Rohde, P. (2007) Randomized trial of a brief depression prevention program: an elusive search for a psychosocial placebo control condition. *Behaviour Research & Therapy*, 45, 863-876.

WILLEMSE2004 (Published Data Only)

Willemse, G. R., Smit, F., Cuijpers, P., & Tiemens, B. G. (2004) Minimal-contact psychotherapy for sub-threshold depression in primary care. Randomised trial. *British Journal of Psychiatry*, 185, 416-421.

WILLIAMS2008 (Published Data Only)

Williams, C., Wilson, P., Walker, A., Wallace, I., Morrison, J., Whitfield, G. et al. (2008) An evaluation of the effectiveness of structured cognitive behaviour therapy self-help materials delivered by a self-help support worker within primary care.

References of Excluded Studies

ALLARTVANDAM2003 (Published Data Only)

Allart-Van Dam, E., Hosman, C. M., Hoogduin, C. A., & Schaap, C. P. (2007) Prevention of depression in subclinically depressed adults: follow-up effects on the 'Coping with Depression' course. *Journal of Affective Disorders*, 97, 219-228.

Allart-Van Dam, E., Hosman, C. M. H., Hoogduin, C. A. L., & Schaap, C. P. D. R. (2003) The Coping with Depression course: Short-term outcomes and mediating effects of a randomized controlled trial in the treatment of subclinical depression. *Behavior Therapy*, 34, 381-396.

ANDERSON1986 (Published Data Only)

Anderson, C. M., Griffin, S., Rossi, A., Pagonis, I., Holder, D. P., & Treiber, R. (1986) A comparative study of the impact of education vs. process groups for families of patients with affective disorders. *Family Process*, 25, 185-205.

BOWMAN1995 (Published Data Only)

Bowman, D., Scogin, F., & Lyrene, B. (1995) The efficacy of self-examination therapy and cognitive bibliotherapy in the treatment of mild to moderate depression. *Psychotherapy Research*, 5, 95-140.

COCKRAM2002 (Published Data Only)

Cockram, A., McCall, L., Judd, F., Piterman, L., Weissman, M., Gronn, P. et al. (2002) The development and pilot testing of a Focused Education and Psychotherapy Program (FEPP) for treatment of depression in general practice. *Australasian Psychiatry*, 10, 268-274.

CRAVEN2005 (Published Data Only)

Craven, M. A., Nikolaou, L., Allen, C. J., Crustolo, A. M., & Kates, N. (2005) Patient education materials for mental health problems in family practice: does location matter? *Patient Education and Counseling*, 56, 192-196.

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- CUIJPERS2005C** (Published Data Only)
Cuijpers, P., Smit, F., Voordouw, I., & Kramer, J. (2005) Outcome of cognitive behaviour therapy for minor depression in routine practice. *Psychology & Psychotherapy: Theory, Research & Practice*, 78, 179-188.
- DALGARD2006** (Published Data Only)
Dalgard, O. S. (2002) An educational programme for coping with depression: a randomised controlled trial. *Tidsskrift for den Norske Laegeforening*, 124, 3043-3046.
Dalgard, O. S. (2004) An educational programme for coping with depression: A randomised controlled trial. *Tidsskrift for den Norske Laegeforening*, 124, 3043-3046.
*Dalgard, O. S. (2006) A randomised controlled trial of a psychoeducational group program for unipolar depression in adults in Norway (NCT00319540). *Clinical Practice and Epidemiology in Mental Health*, 2, 15.
- DEN BOER2007A** (Published Data Only)
Stant,A.D.; Ten,VergertEM; den,BoerPC; Wiersma,D. (2008) Cost-effectiveness of cognitive self-therapy in patients with depression and anxiety disorders. *Acta Psychiatrica Scandinavica*, 117, 57-66.
den Boer, P.C., Wiersma, D., Ten Vaarwerk, I., Span, M. M., Stant, A. D., & van den Bosch, R.J. (2007) Cognitive self-therapy for chronic depression and anxiety: a multi-centre randomized controlled study. *Psychological Medicine*, 37, 329-339.
- FLETCHER2005** (Published Data Only)
Fletcher, J., Lovell, K., Bower, P. & Campbell, M. (2005) Process and outcome of a non-guided self-help manual for anxiety and depression in primary care: a pilot study. *Behavioural & Cognitive Psychotherapy*, 33, 319-331
- HANSER1994** (Published Data Only)
Hanser, S. B. & Thompson, L. W. (1994) Effects of a music therapy strategy on depressed older adults. *Journal of Gerontology*, 49, 265-269.
- HARINGSMA2006A** (Published Data Only)
Haringsma, R., Engels, G. I., Cuijpers, P., & Spinhoven, P. (2006) Effectiveness of the Coping With Depression (CWD) course for older adults provided by the community-based mental health care system in the Netherlands: a randomized controlled field trial. *International Psychogeriatrics*, 18, 307-325.
- JACOB2002** (Published Data Only)
Jacob, K. S., Bhugra, D., & Mann, A. H. (2002) A randomised controlled trial of an educational intervention for depression among Asian women in primary care in the United Kingdom. *International Journal of Social Psychiatry*, 48, 139-148.
- JORM2003** (Published Data Only)
Jorm, A. F., Griffiths, K. M., Christensen, H., Korten, A. E., Parslow, R. A., & Rodgers, B. (2003) Providing information about the effectiveness of treatment options to depressed people in the community: a randomized controlled trial of effects on mental health literacy, help-seeking and symptoms. *Psychological Medicine*, 33, 1071-1079.
- KENDRICK2005** (Published Data Only)
Kendrick, T., Simons, L., Mynors-Wallis, L., Gray, A., Lathlean, J., Pickering, R. et al. (2005). A trial of problem-solving by community mental health nurses for anxiety, depression and life difficulties among general practice patients. The CPN-GP study. *Health Technology Assessment*, 9, 1-104.
- LANG2006** (Published Data Only)
Lang, A. J., Norman, G. J., & Casmar, P. V. (2006) A randomized trial of a brief mental health intervention for primary care patients. *Journal of Consulting & Clinical Psychology*, 74, 1173-1179.
- LARA2003D** (Published Data Only)
Lara, M. A., Navarro, C., Rubi, N. A., & Mondragon, L. (2003) Outcome results of two levels of intervention in low-income women with depressive symptoms. *American Journal of Orthopsychiatry*, 73, 35-43.
- LYNCH2004A** (Published Data Only)
Lynch, D., Tamburrino, M., Nagel, R., & Smith, M. K. (2004) Telephone-based treatment for family practice patients with mild depression. *Psychological Reports*, 94, 785-792.
- RICHARDS2003** (Published Data Only)
Richards, A., Barkham, M., Cahill, J., Richards, D., Williams, C., & Heywood, P. (2003) PHASE: A randomised, controlled trial of supervised self-help cognitive behavioural therapy in primary care.

British Journal of General Practice, 53, 764-770.

SEIVEWRIGHT1998 (Published Data Only)

Seivewright, N., Tyrer, P., Ferguson, B., Murphy, S., & Johnson, T. (2000) Longitudinal study of the influence of life events and personality status on diagnostic change in three neurotic disorders. *Depression & Anxiety*, 11, 105-113.

Seivewright, H., Tyrer, P., & Johnson, T. (1998) Prediction of outcome in neurotic disorder: a 5-year prospective study. *Psychological Medicine*, 28, 1149-1157.

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TYRER1988 (Published Data Only)

Tyrer, P., Seivewright, N., Ferguson, B., Murphy, S., & Johnson, A. L. (1993) The Nottingham study of neurotic disorder. Effect of personality status on response to drug treatment, cognitive therapy and self-help over two years. *British Journal of Psychiatry*, 162, 219-226.

Tyrer, P., Seivewright, N., Ferguson, B., Murphy, S., Darling, C., Brothwell, J. et al. (1990) The Nottingham Study of Neurotic Disorder: relationship between personality status and symptoms. *Psychological Medicine*, 20, 423-431.

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WOLLERSHEIM1991 (Published Data Only)

Wollersheim, J. & Wilson, G. (1991). Group treatment of unipolar depression: A comparison of coping, supportive, bibliotherapy, and delayed treatment groups. *Professional Psychology: Research and Practice*, 22, 496-502.

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Physical activity programmes - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
Bosscher 1993	Allocation: Random (no details) Duration: 8 weeks. Analysis: completer	Inpatients. N = 24; mean age: 34 years (range 18-52 years), 50% female Diagnosis: RDC for major or minor depression plus ≥ 40 on Zung Self-rating Depression Scale	1.Short-term running therapy: Sessions were conducted 3 times a week, each lasting 45 minutes and consisted of a 10-minute warm-up phase of stretching exercises, a 30-minute running phase and a 5-minute cooling-down phase, which consisted of walking and repeated stretching exercises. Intensity of running was kept between 70 and 85% of maximum heart rate. There was	1. Leaving the study early 2. Self-rating Depression Scale mean endpoint scores 3. Hopkins Symptom Checklist mean	Country of Study: Netherlands	B

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			<p>an emphasis on non-competitive running. After first 3 sessions, running was performed in small groups.</p> <p>2. Mixed exercise treatment: Sessions conducted 2 times per week each lasting 50 minutes and consisted of 10-minute warm-up phase, followed by 2 or 3 forms of physical exercise. A relaxed, low-intensity physical activity was emphasised. An extra weekly 45-minute session with relaxation and breathing exercises was conducted to equal the number of sessions per week with the other condition.</p>	endpoint scores		
Fremont 1987	<p>Allocation: Random</p> <p>Duration: 10 weeks + 2 months post-treatment assessment + 4 months follow-up assessment.</p> <p>Analysis: completer</p>	<p>Individuals experiencing problems with negative moods, not currently in therapy or taking antidepressant medication, not participating in regular aerobic exercise in the last 3 months.</p> <p>N = 61; based on 49 completers, age range 19 - 62, 73.5% female; 12 were college students and 37 community residents</p> <p>Diagnosis: BDI between 9 and 30</p>	<p>1. Running: participants met 3 times a week for 10 weeks with a running coach in groups of 6-8 at an indoor university track. Each session began with recording resting heart rate and a period of stretching exercises. Following programme guidelines by Cooper (1970), participants exercised for 20 continuous minutes. Coaching was provided by four experienced runners who supervised stretching exercises, gave instruction on running technique, provided encouragement and helped participants enjoy the experience.</p> <p>2. Cognitive therapy: 10 weekly 1-hour sessions provided by 17 therapists based on "Feeling Good" (Burns, 1980). Counsellor's role was to help client become aware of negative thought patterns and to change them to more positive ones.</p> <p>3. Combination: Participants received 10 cognitive therapy sessions plus 3-times-a-week running sessions.</p>	<p>1. Leaving the study early</p> <p>2. BDI mean scores at endpoint, 2 months follow-up and 4 months follow-up</p>	<p>Country of Study: US</p> <p>Since screening took place over 5 weeks, participants who left the study early were replaced with the next available participant</p>	B
Greist 1979	<p>Allocation: Random (no details)</p> <p>Duration: 10 weeks. Analysis: completer</p>	<p>Inpatients and outpatients between 18 and 30 years. N = 28, 53.6% female.</p> <p>Diagnosis: RDC for minor depression and SCL-90 depression cluster score at 50th percentile or above</p>	<p>1. Running therapy: Initially, running leader met with patients 3-4 times per week for 1 hour. Running was done in small groups. During 5th week of treatment, only 2 sessions, and during 7th and 8th weeks, only one session. Patients were encouraged to run at least 3 times a week. During each session, leader ensured that patients ran and walked comfortably and taught them to use their breathing rate and ability to converse while running as feedback and guides to a comfortable pace. Pace and distance covered increased gradually and steadily as treatment progressed.</p> <p>2. Time-limited psychotherapy (no details)</p> <p>3. Time-unlimited psychotherapy (no details)</p>	<p>1. Leaving the study early</p>	<p>Country of study: US. Some of the therapists doing time-limited psychotherapy had failed to set clear time-limited contracts. Some of the psychotherapy was not as closely supervised as planned.</p>	B

Herman 2002	Allocation: Random (no detail), stratified by mild/moderate-severe symptoms. Raters were blind to participant's treatment allocation Duration: 16 weeks + 24 week follow-up. Analysis: ITT	Inpatients and outpatients; recruited through flyers, media advertisements and letters sent to local physicians and mental health facilities. N = 156; mean age: Exercise - 57 years +-5.8, Sertraline - 57 years +-7, Combination: 57 years +- 6.7; 73% female Diagnosis: DSM-IV for major depressive disorder and HRSD >= 13. Comorbid physical conditions included endocrine, cardiac, pulmonary and orthopaedic conditions	1. Exercise: 3 supervised sessions per week. Participants were assigned individual training ranges equivalent to 70% to 85% of heart rate reserve. Each session began with a 10-minute warm-up period followed by 30 minutes of continuous walking or jogging at an intensity that would maintain heart rate within the assigned training range. The session concluded with 5 minutes of cool-down exercises. 2. Sertraline: Staff psychiatrist met with patient at study onset and weeks 2, 6, 10,14 and 16. At meeting, psychiatrist evaluated treatment response and side effects and titrated dosage accordingly. Treatment was initiated at 50 mg and titrated upto 200 mg. Median dosage 100 mg. 48% of participants initiated an exercise program during the 6-month follow-up. 3. Combination: Patients received treatments 1 and 2.	1. Leaving the study early 2. Leaving the study due to side effects 3. HRSD-17 mean endpoint scores 4. BDI-21 mean endpoint scores 5. Non-remitters (patients who met criteria for DSM-IV for MDD + HDRS >= 7 at endpoint)	Country of study: US. Follow-up data not extracted: some participants entered psychotherapy at the end of the study (Exercise: N = 7; sertraline: N = 7; combination: N= 8)	B
Klein1985	Allocation: Random (no details) Duration: 12 weeks treatment + 1-, 3- and 9-month follow-up. Analysis: completer	Symptomatically depressed people from a Midwestern city who responded to a newspaper advertisement N = 74; mean age : running, 30.33 years (+-6.52), meditation, 29.96 (+- 6.29), group therapy, 29.75 (+-6.07); 72% female Diagnosis: RDC major or minor depression	1. Running: Participants met individually with therapists in 2 45-minute sessions each week. Physical activity was divided into 2 segments, with 10-15 minutes of warm-up, followed by 30 minutes of aerobic walking/running. Participants were encouraged to run on their own between sessions and to complete weekly logs of physical activity. 2. Meditation-relaxation therapy: A range of breathing & yoga-based stretching exercises was used to help participant focus and control their breathing while achieving a deep state of relaxation. Periodic readings from meditation texts were interspersed with periods of silent sitting, yoga stretching exercises, and instructions on breathing. Homework assignments required participants to carry out exercises 2-3 times daily. 3. Group therapy: Included components of interpersonal and cognitive therapy. 2-hour weekly group meetings were held.	1. Leaving the study early. 2. SCL-R (depression items only) mean scores at endpoint and 9 months follow-up.	Country of study: US	B
McCann 1984	Allocation: random (no details) Duration: 10 weeks. Analysis: completer	Undergraduate women who enrolled in a general psychology course and had BDI>=11 N = 47	1. Aerobic exercise: Class met for 1 hour twice a week and also exercised outside the sessions. Aerobics involved dancing, jogging and running 2. Placebo: Subjects were given verbal and written instructions for the use of progressive muscle relaxation and were instructed to practise this 15-20 minutes a day 4	1. BDI mean endpoint scores 2. Leaving the study early	Country of study: US	B

			days per week preceded by a 5-minute leisurely walk. 3. No treatment (data not extracted).			
McNeil 1991	Allocation: random (no details) Duration: 6 weeks. Analysis: ITT	Community-dwelling depressed elderly individuals referred by community and religious organisations with no cognitive impairment (MMSE \geq 25), who were not currently receiving treatment for emotional problems and passed the Cooper 12-minute walk test. N = 30, mean age 72.5 years \pm 6.9. Diagnosis: BDI \geq 12 and \leq 24.	1. Exercise: Participants walked outside their residence initially for 20 minutes per session and gradually for 40 minutes per session accompanied by the experimenter 2. Social contact: Consisted of two home visits per week by an undergraduate psychology student. Each visit consisted of casual conversation similar to that in exercise condition 3. Wait list condition	1. BDI mean endpoint scores	Country of study: Canada	B
Singh 1997	Allocation: Random (no details); raters of outcome measures were blind to participant's treatment allocation Duration: 10 weeks phase I + 10 weeks phase II + 6 weeks' follow-up. Analysis: ITT	Outpatients, participants aged \geq 60 years recruited from community through volunteer databases N = 32; mean age: exercise 70 years (\pm 1.5), control 72 years (\pm 2); 62.5% female Diagnosis: DSM-IV for major (41% patients) or minor (53%) depression or dysthymia (6%) and BDI > 12	1. Progressive resistance treatment: Phase I: Exercises included chest press, latissimus dorsi pulldowns, leg press, knee extension and knee flexion. To maintain the intensity of the stimulus, load was increased at each session as tolerated by the subjects. Strength testing was repeated at 4 weeks to establish a new baseline value. Participants performed 3 sets of 8 repetitions on each machine. Each session lasted 45 minutes followed by 5 minutes of stretching. Frequency of sessions: 3 days per week for 10 weeks. Phase II: The group was offered 3 alternatives to continue training, (a) continue training at the facility on the resistance-training machines, (b) home- based training with free weights, (c) training at community health facility that provided resistance- training equipment. 2. Control: Phase I: Participants engaged in an interactive health education programme of lectures and videos followed by discussion. Frequency of sessions: 2 days a week for 1 hour. Phase II: There were no educational sessions, and subjects were given no exercise or other recommendations.	1. BDI mean scores at endpoint, 20 weeks and 26 months 2. HRSD mean endpoint scores 3. Non-responders (patients not achieving \geq 50% reduction in HRSD) 4. Non-remitters (patients still meeting DSM-IV criteria for depression or dysthymia) at endpoint 5. Non-remitters (BDI $<$ 9) at 20 weeks	Country of study: US	B

Veale 1992	Allocation: Random in the ratio of 3:2	Participants meeting inclusion criteria on Clinical Interview Schedule (CIS) and aged 18- 60	1. Aerobic exercise: 3 supervised sessions per weeks for 12 weeks in groups. Each session consisted of a warm-up routine and stretching exercises, followed by a running	1. Leaving the study early 2. BDI mean endpoint	Country of study: Netherlands	B
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	Duration: 12 weeks. Analysis: completer	years. N = 83. 45% in exercise group and 34% in control group were prescribed antidepressants. Diagnosis: A total weighted score of ≥ 17 and a depression severity score of ≥ 2 on CIS	programme. 2. No treatment control	scores		
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Characteristics of excluded studies

Study	Reason for exclusion
Blair1998	Participants did not have depression, sample comprised community-dwelling adults who were patients of a primary healthcare setting
Doyne1987	22% of patients with RDC minor depression; number of participants randomised to each group not given

Dunn2002	Unable to extract any data.
Kritz-Silverstein 20	Not a RCT; patients had heart disease
Labbe1988	Patients not diagnosed with depression
Martinsen1989	Fourteen patients in each group were administered tricyclic antidepressants during the study
Martinsen1993	Not an RCT

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Physical activity programmes - new studies in the guideline update

Comparisons Included in this Clinical Question

Aerobic exercise versus aerobic exercise + cognitive technique versus control
BERLIN2003

Aerobic exercise versus aerobic exercise + resistance exercise
PASSMORE2006

Different energy expenditure (low to 'public health') versus control
DUNN2005

High intensity weight training versus low intensity weight training versus GP care
SINGH2005D

Home-based physical activity versus supervised physical activity versus antidepressant therapy versus placebo
BLUMENTHAL2007

Pharmacological therapy versus psychotherapy + physical activity
PILU2007

Physical activity + increased natural light exposure + vitamins vs placebo
BROWN2001

Physical activity versus control
KNUBBEN2007
MATHER2002
SIMS2006
SINGH1997A
TSANG2006

Physical activity versus waitlist
HABOUSH2006

Supervised aerobic versus home-based aerobic versus sertraline versus placebo
HOFFMAN2008

Yoga versus health education
BUTLER2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes								
<p>BERLIN2003</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Open</p> <p>Duration (days): Mean 504</p> <p>Setting: Referred by unit physician at adult psychiatric hospital; USA</p> <p>Notes: Participants completed the BDI themselves. Three intervention groups were rotated by the toss of a coin. No details of randomisation.</p> <p>Info on Screening Process: 94 referred. 44 were excluded. Reasons; declined participation in the study, discharged after the initial BDI but before completing the programme, changed their minds about participation, or removed from analysis due to excessively long length of stay.</p>	<p>n= 55</p> <p>Age: Mean 40</p> <p>Sex: 25 males 30 females</p> <p>Diagnosis:</p> <p>100% No formal diagnosis</p> <p>Exclusions: Declined participation in the study, discharged after the initial BDI, but before completing the program, changed their minds about participation, or removed from analysis due to excessively long length of stay.</p> <p>Notes: Patients displayed depressive symptoms. Patients were included in the analyses if they had initial BDI scores of 14 or greater.</p> <p>Baseline:</p> <table border="1"> <tr> <td></td> <td>Aquatic</td> <td>Dual</td> <td>Control</td> </tr> <tr> <td>BDI</td> <td>23.79 (7.0)</td> <td>25.37 (8.3)</td> <td>25.95 (12.0)</td> </tr> </table>		Aquatic	Dual	Control	BDI	23.79 (7.0)	25.37 (8.3)	25.95 (12.0)	<p>Data Used</p> <p>BDI change score</p>	<p>Group 1 N= 19</p> <p>Physical activity - Once a week for 4 weeks. 10 minutes of unstructured warm up. 30 minutes of instructor-led pool exercise (water walking, upper body exercises, neck exercises, shoulder movements, lower body exercises, stretching and breathing moves & 5 minutes cool down)</p> <p>Group 2 N= 16</p> <p>Physical activity with cognitive techniques - Once a week for 4 weeks. 10 minutes of cognitive techniques. 30 minutes of instructor-led pool exercise. 5 minutes of cognitive techniques. Content of cognitive sessions changed every week.</p> <p>Group 3 N= 20</p> <p>Control - No intervention.</p>	<p>SIGN 1-; funding details not stated.</p>
	Aquatic	Dual	Control									
BDI	23.79 (7.0)	25.37 (8.3)	25.95 (12.0)									

Results from this paper:			
	Aquatic (N=19)	Dual (N=16)	Control (N=20)
BDI			
Change	-11.15 (11.2)	-13.37 (2.3)	-5.25 (7.3)

BLUMENTHAL2007				
Study Type: RCT	n= 202	Data Used	Group 1 N= 51	SIGN 1+; funded by Grant MH 49679 (JAB) from the National Institutes of Health and National Institutes of Health Grant MO1-RR-30 from the National Center for
Study Description: Double-blind where pharmacological treatment used, otherwise single-blind.	Age: Mean 52	HAM-D	Physical activity (supervised) - 3 times a week for 16 weeks - Aerobic exercise. 10 minute warm-up. 30 minutes of walking or jogging at ranges equivalent to 70-85% maximum heart rate reserve. 5 minutes	
Type of Analysis: ITT; LOCF method	Sex: 49 males 153 females			
	Diagnosis:			25

<p>Blindness: Double blind Duration (days): Mean 112</p> <p>Setting: Television, radio and newspaper advertisements; USA</p> <p>Notes: Parallel groups. Prescribed zolpidem for insomniac participants. Identifies early and late responders. Computer generated, conditional randomisation.</p> <p>Info on Screening Process: 457 patients screened. 255 excluded; 135 did not meet the criteria for MDD, 47 withdrew consent, 40 had an excluding psychiatric comorbidity, and 33 were ruled out for other reasons.</p>	<p>100% MDD or minor depression or dysthymia by DSM-IV SCID</p> <p>Exclusions: Presence of another primary psychiatric diagnosis, under 40 years of age, currently involved in regular exercise, currently involved in psychiatric treatment, medical comorbidities, current use of antidepressants or other psychotropic medications, dietary supplements or herbal therapies with purported psychoactive indications, current active alcohol or drug misuse or dependence, or active suicidal intent.</p> <p>Notes: Participants obtaining a BDI score either equal to or greater than 12 met the DSM-IV criteria for MDD and were recruited. MDD severity was assessed using the HAM-D.</p> <p>Baseline: BDI (21 item): 30.0 (8.0); Home = 31.0 (9.0); Sertraline = 30.0 (8.0); Placebo = 31.0 (8.0) HAM-D (17 item): Supervised = 16.0 (4.0); Home = 17.0 (5.0); Sertraline = 16.0 (4.0); Placebo = 17.0 (4.0)</p>		<p>cool-down.</p> <p>Group 2 N= 53</p> <p>Physical activity (non-supervised) - 3 times a week for 16 weeks - Aerobic. Received initial home visit to establish training routine. 10 minute warm-up. 30 min walking or jogging at 70-85% maximum heart rate reserve. 5 minute cool-down.</p> <p>Group 3 N= 49</p> <p>Pharmacological therapy - 50-200mg daily - Sertraline provided by Pfizer, Inc. Dosage depended on clinical response. Usually each patient received a starting dose at 50mg and received increasing dosages to 200mg contingent on therapeutic response and presence of side effects.</p> <p>Group 4 N= 49</p> <p>Placebo - 50-200mg daily - Placebo provided by Pfizer, Inc. Received a starting dosage of 50mg and received increasing dosages to 200mg contingent on therapeutic response and presence of side effects.</p>	<p>Research Resources, Clinical Research Centers Program.</p>															
<p>Results from this paper:</p> <table border="1"> <thead> <tr> <th></th> <th>Supervised (N=51)</th> <th>Home (N=53)</th> <th>Sertraline (N=49)</th> <th>Placebo (N=49)</th> </tr> </thead> <tbody> <tr> <td>HAM-D Change</td> <td>-7.2 (6.9)</td> <td>-7.1 (6.9)</td> <td>-6.1 (6.7)</td> <td>-6.1 (7.3)</td> </tr> <tr> <td>Remission (N)</td> <td>23 (45%)</td> <td>21 (40%)</td> <td>23 (47%)</td> <td>15 (31%)</td> </tr> </tbody> </table>						Supervised (N=51)	Home (N=53)	Sertraline (N=49)	Placebo (N=49)	HAM-D Change	-7.2 (6.9)	-7.1 (6.9)	-6.1 (6.7)	-6.1 (7.3)	Remission (N)	23 (45%)	21 (40%)	23 (47%)	15 (31%)
	Supervised (N=51)	Home (N=53)	Sertraline (N=49)	Placebo (N=49)															
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<p>BROWN2001</p>																			

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Setting: Mass media (particularly focussing on recruiting black communities); USA</p> <p>Notes: Randomised by independent consulting statistician. May not have been depressed.</p> <p>Info on Screening Process: No details given.</p>	<p>n= 112</p> <p>Age: Mean 43 Range 19-78</p> <p>Sex: 100 females</p> <p>Diagnosis: 100% No formal diagnosis</p> <p>Exclusions: Under the age of 18, significant chronic illness, taking medications which alter mood, mood scores below 11 or above 29 on the CES-D, current daily use of high doses of specified vitamins, aerobic exercise three or more times per week, physical disability that does not allow daily brisk walking, and regular participation in life activities which occur outdoors and exceed one hour a day.</p> <p>Notes: Used CES-D, POMS, General Well-Being, Rosenberg Self-Esteem and Depression Happiness scales.</p> <table border="1"> <thead> <tr> <th>Baseline:</th> <th>Intervention</th> <th>Control</th> </tr> </thead> <tbody> <tr> <td>CES-D</td> <td>19.0 (7.8)</td> <td>22.2 (8.3)</td> </tr> <tr> <td>Depression</td> <td>46.3 (12.5)</td> <td>40.7 (12.5)</td> </tr> <tr> <td>POMS</td> <td>64.0 (23.4)</td> <td>79.1 (26.3)</td> </tr> </tbody> </table>	Baseline:	Intervention	Control	CES-D	19.0 (7.8)	22.2 (8.3)	Depression	46.3 (12.5)	40.7 (12.5)	POMS	64.0 (23.4)	79.1 (26.3)	<p>Data Used</p> <p>Profile of mood states</p> <p>Rosenberg self-esteem scale</p> <p>CES-D</p> <p>Notes: Also used General Well-Being Schedule and Depression-Happiness Scale.</p>	<p>Group 1 N= 56</p> <p>Pharmacological therapy + physical activity - 5 days a week for 8 weeks - Brisk 20 minute outdoor walk during daylight hours at target heart rate of 60% of maximum heart rate. Also increased light exposure throughout the day and took a specific vitamin regimen. Also had one hour education session.</p> <p>Group 2 N= 56</p> <p>Control - Daily for 8 weeks - Received educational session about the mood-enhancing effects of vitamins. Given an 8 week supply of placebo vitamins to take daily.</p>	<p>SIGN 1-; funded in part by grants from The Center for Women's Research at the University of Washington (supported by National Institute for Nursing Research) and Psi Chapter of Sigma Theta Tau, Seattle, WA, a chapter of Sigma Theta Tau International, IN.</p>
Baseline:	Intervention	Control														
CES-D	19.0 (7.8)	22.2 (8.3)														
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	Intervention	Control														
CES-D	10.4 (7.3)	16.7 (10.4)														
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<p>BUTLER2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: No mention</p> <p>Duration (days):</p> <p>Setting: US</p> <p>Notes: RANDOMISATION: computer-generated random sequence</p>	<p>n= 46</p> <p>Age: Mean 50</p> <p>Sex: 12 males 34 females</p> <p>Diagnosis:</p> <p>50% Dysthymia by DSM-IV</p> <p>28% Double depression by DSM-IV</p> <p>15% MDD in partial remission by DSM-IV</p> <p>7% Chronic major depression by DSM-IV</p> <p>Exclusions: Symptoms lasting <2 years; remission of 2 months or more in past 2 years; <18 years of age; not sufficiently proficient in English; unable to attend meetings; current bipolar disorder or psychotic features; psychosis; panic disorder; drug or alcohol dependence (past 3 months); suicidality; significant medical condition; current participation in individual or group psychotherapy or group meditation; started or recently changed prescribed antidepressant or ST John's Wort (past 3 months)</p> <p>Baseline: Meditation Hypnosis Control</p> <p>HRSD 15.87 (7.29) 12.33 (5.41) 15.81 (8.01)</p>	<p>Data Used</p> <p>Remission on HDRS</p> <p>HRSD 3 month follow-up</p> <p>HRSD endpoint</p> <p>Data Not Used</p> <p>CDRS-SR - not relevant</p>	<p>Group 1 N= 15</p> <p>Meditation - Meditation and hatha yoga following Inner Resources (IR) programme (Waelde, 1999)</p> <p>Eight weekly group sessions lasting 2 hours each, one 4 hour retreat and one booster session in week 12</p> <p>Group 2 N= 15</p> <p>Hypnosis - Group led by psychiatrist or clinical psychologist</p> <p>Ten weekly sessions lasting 1 1/2 hours each and one 2 hour booster session in week 12</p> <p>Group 3 N= 16</p> <p>Control</p>	<p>Funding: Mental Insight Foundation and the Stanford Centre on Stress and Health</p>
<p>DUNN2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT; LOCF method.</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 84</p> <p>Setting: Mass media; USA</p> <p>Notes: Randomisation was implemented with sequentially numbered, opaque, sealed envelopes.</p> <p>Info on Screening Process: 765 screened. 685 excluded; 430 didn't meet inclusion criteria, 192 refused to participate and 51 excluded for other reasons.</p>	<p>n= 80</p> <p>Age: Mean 36 Range 20-45</p> <p>Sex: 20 males 60 females</p> <p>Diagnosis:</p> <p>100% MDD or minor depression or dysthymia by DSM-IV SCID</p> <p>Exclusions: 160% over ideal weight, consumption of over 21 alcoholic drinks per week, attempt of suicide in the last 2 years or at suicidal risk assessed by SCID interview, hospitalisation for a psychiatric disorder in the last 5 years, current participation in other clinical trials, plans to move from the Dallas area in the next 6 months, current substance abuse or recreational drug use ascertained by SCID diagnosis and urinalysis testing, inability to exercise due to a medical condition, or for women, planned pregnancy or current pregnancy.</p> <p>Baseline: HRSD (17 item) LD3 = 19.3 (2.6); LD5 = 19.2 (2.3); PHD3 = 19.1 (1.8); PHD5 = 19.1 (2.2); Control = 20.5 (2.4)</p>	<p>Data Used</p> <p>BDI</p>	<p>Group 1 N= 16</p> <p>Physical activity - 3 times a week for 12 weeks - LD3. Weekly energy expenditure; 7kcal/kg/week.</p> <p>Group 2 N= 18</p> <p>Physical activity - 5 times a week for 12 weeks - LD5. Weekly energy expenditure; 7kcal/kg/week.</p> <p>Group 3 N= 17</p> <p>Physical activity - 3 times a week for 12 weeks - PHD3. Weekly energy expenditure; 17.5kcal/kg/week.</p> <p>Group 4 N= 16</p> <p>Physical activity - 5 times a week for 12 weeks - PHD5. Weekly energy expenditure; 17.5kcal/kg/week.</p> <p>Group 5 N= 13</p> <p>Control - 3 times a week for 12 weeks - 3 days a week of stretching flexibility exercise for 15-20 minutes per session.</p>	<p>SIGN 1+; funded in part by NIMH 57031 and Technogym.</p>

Results from this paper:

	LD3 (N=16)	LD5 (N=18)	PHD3 (N=17)	PHD5 (N=16)	Control (N=13)
HRSD	11.7 (5.8)	12.8 (5.0)	9.0 (3.6)	10.0 (5.5)	14.0 (4.9)
Rem.	4 (25%)	2 (11%)	7 (41%)	5 (31%)	2 (15%)
Res.	6 (38%)	1 (6%)	7 (41%)	7 (44%)	3 (23%)

HABOUSH2006

Study Type: RCT

Type of Analysis: Completers

n= 20

Age: Mean 69

Sex: 7 males 13 females

Data Used

Beck Hopelessness scale
 SCL-90-R (global symptoms)
 Geriatric depression scale

Group 1 N= 12

Physical activity - Once per week for 8 weeks - 8 private ballroom dancing lessons based on 6 dances (foxtrot, waltz,

SIGN 1+; details of funding not stated. 27

<p>Blindness: Single blind Duration (days): Mean 56</p> <p>Followup: 3 months (84 days)</p> <p>Setting: Newspaper advertisements, information flyers and presentations; USA</p> <p>Notes: No details of randomisation.</p> <p>Info on Screening Process: No data on no. of participants screened. 25 participants recruited.</p>	<p>Diagnosis: 100% No formal diagnosis</p> <p>Exclusions: Younger than 60 years of age, presence of terminal illnesses, presence of physical handicaps that would make dancing difficult, concurrent psychological or psychiatric treatment, presence of self-reported or evident thought disorders, bipolar disorder, alcoholism/substance dependence, or immediate suicide risk, a score of lower than 10 on the HRSD, and presence of apparent cognitive impairment as evidenced by a score of lower than 8 on the MSQ.</p> <p>Notes: Score of 10 or above on the HRSD used to diagnose depression. Also used the Geriatric Depression Scale and SCL-90R.</p> <p>Baseline: Exercise Wait-List HRSD 17.33 (4.27) 18.92 (5.01)</p>	<p>HRSD</p> <p>Notes: Also used the Therapeutic Reactance Scale and a self-efficacy measure.</p>	<p>rumba, cha-cha, swing, and tango). 45 minutes each.</p> <p>Group 2 N= 12</p> <p>Wait list - Group was told that their ballroom dancing lessons were delayed by 8 weeks.</p>										
<p>Results from this paper:</p> <table border="1"> <thead> <tr> <th></th> <th>Exercise</th> <th>Wait-List</th> </tr> </thead> <tbody> <tr> <td>HRSD 8 weeks</td> <td>12.80 (5.69)</td> <td>16.00 (6.67)</td> </tr> <tr> <td>HRSD 12 weeks</td> <td>8.90 (6.61)</td> <td>11.00 (5.15)</td> </tr> </tbody> </table>						Exercise	Wait-List	HRSD 8 weeks	12.80 (5.69)	16.00 (6.67)	HRSD 12 weeks	8.90 (6.61)	11.00 (5.15)
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<p>HOFFMAN2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT: LOCF</p> <p>Blindness: Double blind in case of drug/placebo</p> <p>Duration (days): Mean 112</p> <p>Notes: RANDOMISATION: no details</p>	<p>n= 202</p> <p>Age: Mean 52</p> <p>Sex: 49 males 153 females</p> <p>Diagnosis: 100% Major depression by DSM-IV</p> <p>Exclusions: Presence of another primary psychiatric diagnosis, under 40 years of age, currently involved in regular exercise, currently involved in psychiatric treatment, medical comorbidities, current use of antidepressants or other psychotropic medications, dietary supplements or herbal therapies with purported psychoactive indications, current active alcohol or drug abuse or dependence, or active suicidal intent.</p> <p>Baseline: HAMD: Supervised = 16.4 (3.7); Home-based = 17.3 (4.6); Sertraline = 16.1 (4.4); Placebo = 17.2 (4.3)</p>	<p>Data Used Remission on HAM-D HAM-D</p> <p>Data Not Used Battery of neurocognitive assessments - not relevant</p>	<p>Group 1 N= 51 Physical activity (supervised) - Three times per week for 16 weeks</p> <p>Group 2 N= 53 Physical activity (non-supervised) - Initial training session with exercise physiologist; exercise programme; two follow-up sessions</p> <p>Group 3 N= 49 Sertraline - Double blind</p> <p>Group 4 N= 49 Placebo - Double blind</p>	<p>Funding: National Institutes of Health grant and General Clinical Research Centre Program grant; medication and placebo pills provided by grant from Pfizer Pharmaceuticals, Inc.</p>									
<p>KNUBBEN2007</p>													

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 10 Range 10-10</p> <p>Setting: Patients admitted to university hospital for treatment of a major depressive episode; Germany</p> <p>Notes: No outcome data provided due to measures used. Participants were taking different antidepressants. Randomisation stratified based on antidepressant.</p> <p>Info on Screening Process: 45 screened. 7 were excluded because they did not meet the inclusion criteria.</p>	<p>n= 38</p> <p>Age: Mean 50</p> <p>Sex: 17 males 21 females</p> <p>Diagnosis:</p> <p>34% Moderate depressive episode by DSM-IV</p> <p>3% Dysthymia by DSM-IV</p> <p>42% Intermittent depressive disorder by DSM-IV</p> <p>Exclusions: Score equal to or less than 12 on the Bech-Rafaelsen Melancholy Scale (BRMS), aged below 20 and above 70 years, unable to walk, unable to understand written German, associated organic disease, schizophrenic</p>	<p>Data Used</p> <p>CES-D</p> <p>Notes: Also used BRMS (Bech-Rafaelsen Melancholy Scale).</p>	<p>Group 1 N= 20</p> <p>Physical activity - 30 minutes daily for 10 days - Walking on treadmill daily for 30 minutes. Regimen designed according to an interval-training pattern.</p> <p>Group 2 N= 18</p> <p>Control - 30 minutes daily for 10 days - 30 minutes of light stretching.</p>	<p>SIGN +1; no details of funding stated.</p>
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	Notes: 1 participant was diagnosed with a persistent affective disorder, whilst 7 participants were diagnosed with moderate to severe bipolar disorder. Baseline: Intervention Control BRMS 17.6 (3.7) 18.7 (4.2) CES-D 37.6 (12.9) 39.2 (8.5).																												
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<p>Study Type: RCT</p> <p>Type of Analysis: Completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 70</p> <p>Followup: 34 weeks (238 days)</p> <p>Setting: Recruited by research nurse over 15 months from primary care; UK</p> <p>Notes: Computer generated randomisation. Used sealed envelopes.</p> <p>Info on Screening Process: 170 people screened. 84 excluded; 7 had no ongoing symptoms, 27 refused to participate, 45 had an absence of depressive symptoms, and 5 had medical contraindications.</p>	<p>n= 86</p> <p>Age: Mean 65 Range 53-91</p> <p>Sex: 27 males 59 females</p> <p>Diagnosis: 100% No formal diagnosis</p> <p>Exclusions: No symptoms of depression, current alcohol or substance misuse, ongoing structured psychotherapy, participation in regular exercise more than twice weekly, specific medical contraindication to exercise, cognitive impairment (<26 on the MMSE), under 53 years of age, and GDS scores of under 10.</p> <p>Notes: All patients had to have been in receipt of a therapeutic dose of antidepressant therapy for at least 6 weeks without evidence of a sustained response prior to study entry.</p> <p>Baseline: Exercise (N=43) Control (N=43) HRSD (17 item) 16.7 (-2.1 to 3.4) 17.4 (-2.1 to 3.4)</p>	<p>Data Used</p> <p>PGI</p> <p>Geriatric depression scale</p> <p>HRSD</p> <p>Notes: Also used Clinical Global Impression (CGI).</p>	<p>Group 1 N= 43</p> <p>Physical activity - Twice a week for 10 weeks - 45 minutes (5-10 minute warm-up period at start and a cool-down period at the end of each session). Predominantly weight-bearing exercise performed to music led by an instructress.</p> <p>Group 2 N= 43</p> <p>Control - Twice a week for 10 weeks - Health education talks at Ninewells Hospital and Medical School, Dundee. Talks lasted for 30-40 minutes and were delivered by medical and nursing staff and staff from professions allied to medicine.</p>	<p>SIGN 1+; funded by the Biomedical and Therapeutics Committee of the Chief Scientist's Office, Department of Health.</p>																									
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<table style="width:100%; border:none;"> <tr> <td style="width:10%;"></td> <td style="width:20%; text-align:center;">Exercise (N=43)</td> <td style="width:20%; text-align:center;">Control (N=43)</td> <td style="width:20%;"></td> <td style="width:20%;"></td> </tr> <tr> <td>HRSD</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10 weeks (CI)</td> <td>12.6 (-1.6 to 3.9)</td> <td>13.7 (-1.6 to 3.9)</td> <td></td> <td></td> </tr> <tr> <td>HRSD</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>34 weeks (CI)</td> <td>11.5 (-0.6 to 4.9)</td> <td>13.7 (-0.6 to 4.9)</td> <td></td> <td></td> </tr> </table>						Exercise (N=43)	Control (N=43)			HRSD					10 weeks (CI)	12.6 (-1.6 to 3.9)	13.7 (-1.6 to 3.9)			HRSD					34 weeks (CI)	11.5 (-0.6 to 4.9)	13.7 (-0.6 to 4.9)		
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<p>Study Type: RCT</p> <p>Type of Analysis: Not known</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 21</p> <p>Followup: 12 weeks</p> <p>Setting: Acute care psychiatric treatment facility; USA/Canada?</p> <p>Notes: No details about randomisation. May need to exclude due to N.</p> <p>Info on Screening Process: Doesn't mention.</p>	<p>n= 21</p> <p>Age: Mean 35 Range 19-60</p> <p>Sex: 7 males 14 females</p> <p>Diagnosis: 100% Dysthymia</p> <p>Exclusions: History of drug abuse, history of eating disorders, history of psychotic episodes, and not physically capable of performing aerobic and resistance exercises.</p> <p>Notes: No details given of how they were diagnosed.</p> <p>Baseline: Aerobic (N=11) Combined (N=10) BDI 31.00 (9.03) 34.00 (10.79)</p>	<p>Data Used</p> <p>BDI</p>	<p>Group 1 N= 10</p> <p>Physical activity - 3 times a week for 3 weeks - Exercised at 60-70% of target heart rate for 15 minutes on treadmill or stationary exercise bike. Also engaged in resistance exercise using free weights or exercise machines for 30 minutes. 10 min warm-up and 5 min cool.</p> <p>Group 2 N= 11</p> <p>Physical activity - 3 times a week for 3 weeks - Aerobic. Using a treadmill or stationary exercise bike for 45 minutes (including 10 minute warm-up period and 5 minute cool-down). Exercised at or near 60-70% of the participant's target heart rate for 30 minutes.</p>	<p>SIGN 1-; funding details not stated.</p>						
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	Aerobic (N=11)	Comb. (N=10)								
BDI(21 item) at discharge	7.82 (3.22)	10.80 (4.78)								

at 6 weeks 12.82 (12.50) 11.50 (7.95) at 12 weeks 17.09 (14.15) 12.90 (9.59) Rem. (N) 11 (100%) 8 (80%)										
PILU2007										
Study Type: RCT Type of Analysis: Completers Blindness: No mention Duration (days): Mean 224 Setting: Clinical registries of psychiatric unit; Italy Notes: Randomised after stratification for comorbidity with anxiety disorders. 13 participants had anxiety disorders also. Info on Screening Process: 42 were eligible. 12 excluded; refused to participate.	n= 30 Age: Range 40-60 Sex: 100 females Diagnosis: 100% MDD or minor depression or dysthymia by DSM-IV SCID Exclusions: Male gender, aged under 40 or above 60 years, responsiveness to at least 1 antidepressant at adequate doses, diagnosis of psychotic disorders, comorbidity with psychiatric disorders other than generalised anxiety disorder, social phobia, panic disorder with or without agoraphobia, any contraindications to physical activity, and diagnosis of neurological and othopaedic disorders at time of study. Notes: Specifically treatment resistant MDD. Baseline: Cases Controls HAM-D 20.5 (7.1) 19.3 (5.7)	Data Used HAM-D Notes: Also used CGI and GAF (not GAF-self).	Group 1 N= 10 Pharmacological therapy + physical activity - Twice a week for 56 weeks - No details given. Group 2 N= 20 Control - Twice a week for 56 weeks - 60 minutes. Led by skilled instructor. 5 min warm-up, 50 min physiological strengthening (cardio-fitness machines), and 5 min cool-down.	SIGN 1-; no funding details given.						
Results from this paper: <table border="0"> <tr> <td></td> <td>Cases (N=10)</td> <td>Controls (N=20)</td> </tr> <tr> <td>HAM-D</td> <td>8.1 (5.2)</td> <td>16.7 (9.1)</td> </tr> </table>						Cases (N=10)	Controls (N=20)	HAM-D	8.1 (5.2)	16.7 (9.1)
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HAM-D	8.1 (5.2)	16.7 (9.1)								
SIMS2006										
Study Type: RCT Type of Analysis: ITT Blindness: Open Duration (days): Mean 70 Followup: 6 months (168 days) Setting: Recruited via general practices; Australia Notes: Self-assessed. Randomisation conducted centrally by independent person who ascertained person's allocation from previously block randomised list. Info on Screening Process: 73 people screened. 35 excluded; 14 on antidepressants, 10 medically ineligible and 11 couldn't participate for other reasons.	n= 38 Age: Mean 74 Sex: 17 males 21 females Diagnosis: 100% No formal diagnosis Exclusions: Under 65 years of age, unsuitable to exercise (as assessed by PARQ score), alcohol or drug related depression, depression with psychotic features, schizophrenia, bipolar disorder, other psychiatric diagnoses, suicidal ideation, dementia, terminally ill, uncontrolled hypertension, unstable insulin dependent diabetes, unstable angina and those currently receiving antidepressants. Notes: Depressive symptoms measured using the GDS. Baseline: Intervention Control GDS 12.6 (3.6) 12.2 (3.5) CES-D 19.7 (6.4) 16.6 (6.2)	Data Used CES-D Geriatric depression scale Notes: HAP, PGMS, WHOQOL-BREF, PASE and Self Efficacy and the Decisional Balance Scale also used.	Group 1 N= 14 Physical activity - 3 times a week for 10 weeks - Progressive resistance training. 3 sets of 8/10 repetitions at a resistance of 80% of one repetition maximum strengthening exercises using weights for the major upper and lower limb muscle groups. Increased as tolerated. Group 2 N= 18 Control - Advice group. No details given.	SIGN 1-; funded by beyondblue (national Depression initiative), the Victorian Centre for Excellence in Depression and Related Disorders.						

Results from this paper:

	Intervention	Control
GDS	12.2 (5.2)	12.0 (4.3)
CES-D	18.3 (7.5)	15.3 (6.5)

SINGH1997A				
Study Type: RCT	n= 32	Data Used	Group 1 N= 15	SIGN 1+; funded in part by the United States Department of Agriculture and Agricultural Research Service, the Claude Pepper ³⁰ Older Americans Independence Center, and
Type of Analysis: Completers	Age: Mean 71	HRSD	Physical activity - 3 times a week for 10 weeks - High progressive resistance training. Supervised. 1 hour followed by 5 minutes of stretching.	
Blindness: Single blind	Sex: 15 males 17 females	Geriatric depression scale		
Duration (days): Mean 70	Diagnosis:	BDI		
Setting: Recruited from the community through	53% MDD or minor depression or dysthymia by DSM-IV			

Study Type: RCT	n= 82
Type of Analysis: Not known	Age: Mean 82
Blindness: Single blind	Sex: 16 males 66 females
Duration (days): Mean 112	Diagnosis:
Followup: 8 weeks (56 days)	45% Depression
Setting: Care homes; Hong Kong.	52% No formal diagnosis
Notes: Details of randomisation not known.	

Data Used
Geriatric depression scale

Group 1 N= 48
Physical activity - 3 times a week for 16 weeks - Practised Baduajin under the supervision of a trained qigong practitioner. Each session lasted 30-45 minutes. Asked to practice on their own daily for 15 minutes.

SIGN 1-; funded by Area of Strategic Development Grant A102 of the Department of Rehabilitation Services, The Hong Kong Polytechnic University.

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	<p>2% Dysthymia</p> <p>Exclusions: Below 65 years of age, change of medication or its dosage within 4 weeks prior to intervention and throughout intervention period of the study, or cognitive and language impairments.</p> <p>Baseline: Intervention Control GDS 5.17 (2.8) 6.5 (1.4)</p>	<p>Notes: Also used Personal Well Being Index, General Health Questionnaire-12, Self-Concept Scale, Chinese General Self-Efficacy Scale and Perceived Benefit Questionnaire.</p>	<p>Group 2 N= 34</p> <p>Control - 3 times a week for 16 weeks - Newspaper reading group was run by a qualified therapist. 30-45 minutes</p>	
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Results from this paper:			
GDS	Intervention 3.2 (2.1)	Control 6.2 (1.5)	

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
AHMADI2002	Cohort study (60 experienced body builders before and after exercising, 100 women new to body building vs. 100 experienced body builders, 40 women who had swum for less than 1 month vs. professional swimmers, looked at BDI scores).
BARTHOLOMEW2005	Only 1 hour long.
BODIN2004	Sample size too small (N=12, looked at high and stable self-efficacy exercise vs. low but increasing self efficacy exercise).
BONNET2006	Dissertation synopsis (cognitive therapy alone versus cognitive therapy + exercise combination). Single subject design.
CHOU2004	Total N=14.
DAI1999	Pilot study unrelated to exercise (CBT of minor depressive symptoms in elderly Chinese Americans).
DOYNE1987	Don't provide no. of participants per treatment group. Cannot extract data (aerobic vs. non-aerobic exercise).
GUSI2008	<50% met the criteria for depression.
KERR2008	No relevant comparisons, no relevant outcomes
KIM2004	75.8% not depressed. Outcome measures used were State Anxiety Inventory (SAI), Depression Status Inventory (DSI) and Self-Esteem Inventory (SER) (meridian exercise vs. control).
KRISHNAMURTHY2007	No formal diagnosis.
LEGRAND2007	N too small (low frequency exercise vs. high frequency exercise vs. group based intervention with high frequency exercise).
LENZE2002	Used SAS as outcome measure. Only used randomised participants who had completed one year of therapy. Not exercise (nortriptyline + IPT vs. nortriptyline + clinic visits vs. placebo + psychotherapy vs. placebo + clinic visits).
LEPPAMAKI2002A	Not depressed.
MOTL2005	No formal diagnosis (walking vs. low intensity resistance/flexibility training).
NORTH1990	Review not RCT.
PENNINX2002	Not depressed.
SHERWOOD2008	No relevant outcomes, no relevant comparisons.
SINGH2001	No N per intervention

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Cognitive behavioural therapies - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes
Beach1992 (US)	Allocation: random (no details). Duration: 15 weeks; 15-20 sessions	Couples with marital difficulties recruited via press advertisements N = 45 couples Diagnosis: women only - DSM-III for major depression or dysthymia	1. Cognitive therapy (CT) for female partner - following Beck et al (1979) 2. Behavioural marital therapy (BMT) 3. Waiting list - treatment on demand (3 hours' crisis intervention if required) - no couples requested this	BDI mean endpoint scores	CT and BMT - four therapists - were doctoral level psychologists and 2 advanced graduate students in clinical psychology. All had at least 4 years' full-time graduate training in clinical psychology. Also had 30 hours in each of the 2 treatments by nationally recognised experts before start of study. In Gloaguen.
Beutler1991 (US)	Allocation: random (no details). Duration: 20 weeks; 3-month follow-up	Outpatients, moderately depressed, recruited via press, word of mouth and professional recommendation. N=71, mean age = 46.76 years. Diagnosis: DSM-III depression	1. Group CBT - following Yost et al (1986) and Beck et al (1979) 2. Focused expressive psychotherapy - a Gestalt-based group psychotherapy supplemented by homework assignments 3. Supportive self-directed therapy - weekly telephone contacts of 30 minutes each and reading prescribed books (data not extracted) Group size - 5 - 10 members	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. HRSD mean scores at 3-month follow-up 4. BDI mean scores at 3-month follow-up	Therapists were 4 experienced psychologists trained in CT and focused expressive psychotherapy. Five advanced graduate students conducted supportive self-directed therapy. In Gloaguen.

Blackburn 1981 (UK)	Allocation: random (no details). Duration: 20 weeks CT - twice a week for 3 weeks, then once a week. Follow-up study (Blackburn 1986) Duration: 24 months - 6-month continuation treatment (6-weekly appointments), 18 months' naturalistic follow-up	Hospital outpatients (n=49) and GP patients (n=39). Diagnosis: RDC for major depression, BDI ≥ 14 . Follow-up: responders (50% increase in BDI scores) to Blackburn 1981. N = 41, 32 female, mean age 39.2 (+12.2) to 47.9 (+10.0) (reported by group)	1. CT - following Beck et al (1979) 2. ADs (mixed: GPs and psychiatrists discussed range of ADs and dosages to be offered) 3. 1 + 2 Follow-up: 1. CT - 'booster' sessions every 6 weeks 2. AD -maintained on same drug as in original study 3. 1 and 2	1. Leaving the study early 2. Non-responders (<50% decrease in BDI) 3. Relapse (BDI > 9 and HRSD > 8) at 6, 12, 18 and 24 months 4. HRSD mean scores after 6 months' maintenance 5. BDI mean scores after 6 months' maintenance	CT therapists - 2 of the authors AD - GPs and psychiatrists. In Gloaguen.
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Blackburn 1997 (UK)	Allocation: random (according to stratified model (endogenous/non-endogenous, gender, age, number of episodes, severity). Evaluators blind to treatment allocation. Duration: 16 week acute phase, 24 month continuation phase. CT - once per week during acute phase, maintenance phase - 3 times in first month, twice in second, monthly thereafter. AD - seen as outpatients roughly every 3 weeks for 30 minutes.	Outpatient referrals to consultants and from 2 general practices. N = 75*, 48 women, mean age between 37.8-40.1 (reported by treatment group) Diagnosis: RDC primary major unipolar depression, HRSD >= 16, current episode was at least 2nd major episode *Total number in study, but only 2 of 3 treatment groups used (n=53).	Acute phase and maintenance phase treatments: 1. AD to AD - consultant or GP free to prescribe any AD provided equivalent to 100mg daily of amitriptyline for TCAs, 45 mg daily of phenelzine for MAOIs, or 20 mg daily of fluoxetine for SSRIs. During maintenance phase, had to be at least at recognised maintenance dose 2. CT to CT - no details 3. AD to CT - as above, but not clear if started CT at 'maintenance dose' (data not extracted for this comparison)	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Non-remitters (HRSD -17>6 or HRSD -24 >8 at endpoint) 4. Leaving the study early 5. HRSD mean scores at 12 and 24 month follow-up 6. BDI mean scores at 12 and 24 month follow-up	Authors acted as CT therapists and had been 'extensively trained'
Bright1999 (US)	Allocation: random (blocked for gender and BDI, and then randomly assigned). Duration: 10 weeks, weekly 90-minute sessions	Outpatients recruited via the press N = 98, 70 female, mean age 45.8. Diagnosis: DSM-III-R for major depression, dysthymia or depression not otherwise specified, HSRD>=10	1. Group CBT following Burns (1989) 2. Mutual support group therapy - focused on goals, like interpersonal insight, acquisition of disclosure skills, sharing of advice and feedback Group size - 7 members	1. BDI mean endpoint scores 2. HSRD mean endpoint scores 3. Leaving the study early 4. BDI > 9 5. HRSD > 11	Therapists were 8 professionals and 6 paraprofessionals (data not extracted for paraprofessionals)
Covi1987 (US)	Allocation: random (no details) Duration: 14 weeks, 15 2-hour group sessions	Responders to press ads. N = 70 +90 dropouts, 42 (out of 70) female, mean age (of 70 subjects) 43.8 Diagnosis: RDC diagnosis of major depression of at least 1-month duration, BDI >= 20, HRSD >= 14.	1. Group CBT: followed Beck et al (1979) and Covi et al (1982). Prior to group, 2 1-hour individual CBT sessions were conducted and a third after first two group sessions. At end of 14 weeks, non-improved patients received 4 additional individual CBT sessions 2. Group CBT + imipramine 3. Traditional group psychotherapy: Based on interpersonal psychodynamic theories Group size: 6-8 members	1. BDI > 9 2. Leaving the study early	Therapists were a psychiatrist and psychologist who had received 2 years training in CBT. Each therapist served as either main or co- therapist

Elkin1989 (US)	Allocation: random (no details) Duration: 16 weeks - CBT 12 sessions in 1st 8 weeks, then 8	Outpatients. N = 239, age 21-60 years. Diagnosis: RDC criteria for definite major depression,	1. CBT - following Beck et al (1979) 2. IPT - aims to help patients achieve a better understanding of their	1. BDI mean endpoint scores 2. HRSD mean	Therapists were different group of experienced therapists for each condition,
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	sessions once a week (20 sessions in total), IPT - 16 weekly sessions with optional 4 additional sessions at therapist discretion (all psychotherapy sessions 50 minutes); imipramine-CM and P-CM groups 16 weekly sessions with one or two additional tapering-off sessions, initial pharmacotherapy session 45-60 minutes, remaining sessions 20-30 mins.	HRSD \geq 14 Early onset group defined as an episode of major depression beginning before age 21 and lasting $>$ 2 years.	interpersonal problems and to improve social functioning. 3. Imipramine-CM - flexible dosage schedule with general goal of achieving 200mg/day by 3rd week, may be increased to 300mg/day. Administered within context of clinical management sessions, to provide supportive atmosphere and for psychiatrist to assess clinical status 4. P-CM - as 3 but with pill placebo	endpoint scores .3 Leaving the study early 4. Non-remitters (HRSD $-17 > 6$ at endpoint) 5. BDI $>$ 9 at endpoint	except for CM groups which were carried out double blind by same therapists. 28 therapists (10 psychologists, 18 psychiatrists) all trained in pilot stage of project
Fava1994 (Italy)	Allocation: random (no details) Duration: 10 40-minute sessions every other week, plus follow-up at 2, 4 and 6 years	Outpatients. N = 43, 26 female, mean age 43.7. Diagnosis: residual symptoms following major depression according to RDC with no evidence of depressed mood after successful treatment of between 3 and 5 months on ADs	1. CT - following Beck et al (1979) 2. Clinical management - monitoring medication tapering, reviewing clinical status, providing support and advice	1. Relapse rates at follow-up	Same psychiatrist who was also experienced therapist saw all patients. Integrity of treatment checked by random audio taping of 4 sessions in each group. Relapse = occurrence of RCD-defined episode of major depression
Freeman 2002 (UK)	Allocation: random (no details) Duration: 16 sessions	Primary care. Diagnosis: major depression or depression with comorbid anxiety. N =100, mean age 36 (+-11.2), 79 women	1. IPT (no details) 2. CBT (no details) 3. TAU (no details) (1 vs 2 extracted for this review; 1 vs 3 in IPT review)	1. HRSD mean scores at endpoint and 5-month follow-up 2. BDI mean scores at endpoint and 5-month follow-up 3. Leaving the study early	19 therapists (12 CBT and 7 IPT - none did both), 4 clinical psychologists, 5 research psychologists, 3 psychiatrists, 2 nurse therapists, 1 OT, 4 CPNs. Data sub-set of larger study including wider range of depressive and anxiety disorders.

Gallagher 1982 (US)	Allocation: random (no details, but stratified by age and severity of current episode) Duration: 12 weeks, 16 sessions in all.	Outpatients, referred from regional health centres and private physicians, or self-referred. N = 30 + replacements for dropouts (see Outcomes) 23 female, mean age reported by group: CT 68.3 (+-7.7), BT 66 (+-5.7), Brief Relational 69 (+-4.8) Diagnosis: RDC diagnosis of current definite episode or non-	1. CT - following Beck et al (1979) 2. BT - following Lewinsohn 3. Brief relational/insight psychotherapy (data not extracted)	1. Leaving the study early	4 therapists used in CT and brief relational and 5 in BT. Most advanced PhD candidates in clinical psychology or post-doctoral clinical fellows All had training for therapy which they administered and were supervised by experts.
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		psychotic major depression, BDI > 17 and HRSD > 14			
Gallagher-Th94 (US)	Allocation: random (no details) Duration: 16-20 sessions, twice a week for first 4 weeks, then once a week for remainder of therapy (c20 weeks)	Outpatients - caregivers recruited through referrals from healthcare professionals approached by letter. N = 66, 61 female, mean age 62 (+9.7) Diagnosis: RDC definite or probable major depression (n=45), RDC minor depression (n=20) or intermittent depressive disorder (n=1) (mean baseline BDI 19.2) Cared for elderly relatives.	1. CT following Beck et al (1979) and Lewinsohn et al (1985) 2. Brief psychodynamic therapy (Mann, 1973)	1. Still meeting RDC criteria for major/minor/intermittent depression) at endpoint and 3-month follow-up 2. Leaving the study early	13 therapists, each saw at least one client. Four were skilled in both therapies, so treated clients in both conditions. 2 had terminal master's degrees in social work, rest were PhD-level psychologists. All had at least 1 year of supervised experience doing psychotherapy with depressed elderly people.
Hautzinger (in-pats)	See Hautzinger 1996 This is data from inpatients - data for both groups not reported together				
Hautzinger 1996 (Ge)	Allocation: random (no details, but done independently of researchers). Duration: 8 weeks + 1-year follow-up CBT - 24 sessions, 50-60 minutes long. AD - Clinical management for 20 minutes a week	Inpatients (in a psychiatric clinic) and outpatients. N = 191, 120 women, mean age 38.8 (+9.9). Diagnosis: ICD9/DSM-III-R for major depression HRSD >= 20 BDI >= 20. 80.4% had major depression (DSM-III-R), 19.6% dysthymia	1. CBT - following Lewinsohn (1974) and Beck (1974) 2. Amitriptyline - Week 1: 50-100mg/day Weeks 2-7: 150mg/day Week 8: stopped or continued depending on patient status + clinical management 3. 1 and 2 (without clinical management)	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Leaving the study early 4. HRSD mean scores at 12-month follow-up 5. BDI mean scores at 12-month follow-up	Clinical psychologists and psychiatrists with at least 1 year clinical psychiatric experience
Jarrett1999 (US)	Allocation: random, blind to research personnel, supervised by statistician, stratified by length of current episode and marital status. Acute phase + continuation phase. Acute phase: duration: 10 weeks. CT = 20 sessions twice weekly Pharmacological	Outpatients, recruited through media, printed announcements, self or practitioner referrals. Acute phase: N = 108, 73 women, mean age 39.6. Diagnosis: DSM-III-R for major depression, HRSD >= 14, definite atypical depression Continuation phase: responders only, defined as	Acute phase: 1. CT following Beck et al (1979) 2. CM* + phenelzine - gradually increased over 10 weeks to 0.85mg/kg or 1mg/kg in patients not responding to lower dose. 3. CM* + placebo * 2 and 3 - used treatment manual modelled on NIMH Treatment of Depression Collaborative Research Program - sessions involved adjusting medication, recording symptoms, side effects, weight, blood	1. BDI mean endpoint scores 2. HRSD-21 mean endpoint scores 3. Leaving the study early 4. Relapse at endpoint, 12-month and 24-month follow-up	Therapists - 2 were doctoral-level clinical psychologists, 1 was a psychiatrist. Offsite consultant used Cognitive Therapy Scale to evaluate competence and provide feedback. Therapists participated in weekly group supervision.

treatments: 11 sessions
over 10 weeks

HRSD ≤ 9 , not meeting
DSM-II-R for MDD at post-

pressure. Not clear if included same support
element as in Elkin1989. When symptom

	Continuation phase: 8 months more treatment plus 16-month follow-up. CT - 10 sessions over 8 months. Pharmacotherapy: 10 sessions over 8 months WLC - 10 sessions with evaluator over 8 months	acute phase blind evaluation, completed acute phase treatment. N = 31, 26 female, mean age 41.2 (+10.5)	reduction and monoamine oxidase inhibition of 80% or more were achieved, patient continued to receive that dose. Compliance assessed by pill counts and patient diaries. Continuation phase: 1. Acute phase CT + continuation CT 2. Acute phase CT + no continuation treatment 3. Acute phase phenelzine + continuation phenelzine (maintained on acute phase dose) 4. Acute phase phenelzine + no continuation treatment 5. Acute phase placebo + continuation placebo 6. Acute phase placebo + no continuation treatment		
Jarrett2001 (US)	Allocation: random, using statistical software, double blind. Duration: 20 sessions over 12-14 weeks	Outpatients recruited through media, announcements and referrals. N=84, 61 female, mean age 42.74 (+1.14). Diagnosis: responders (no MDD, HRSD ≤ 9) to acute phase where were diagnosed according to DSM-IV.	1. CBT - following Jarrett unpublished manual designed to teach responders to prevent relapse 2. Evaluation only	1. Leaving the study early	5 experienced therapists provided CBT. Each had at least 1 year of training. Competence evaluated by off-site consultant. Therapists received weekly supervision.
Keller2000 (US)	Allocation: random, central computerised randomisation schedule. Assessors blind to treatment group. Duration: 12 weeks. Therapy group - twice-weekly sessions in weeks 1 to 4 (could be extended to week 8 if necessary), weekly weeks 5 to 12. AD group - 15-20 minutes per visit. Psychopharmacologists	Outpatients recruited from 12 academic centres. N = 681, 65.3% female, mean age 43 (+10.7) Diagnosis: DSM-IV for chronic major depressive disorder, current major depressive disorder superimposed on pre-existing dysthymic disorder, recurrent major depressive disorder with incomplete remission between episodes in a patient with a current	1. Cognitive behavioural-analysis system of psychotherapy (draws on behavioural, cognitive, and interpersonal techniques of other therapies. Teaches patient to focus on consequences of behaviour and to use social problem-solving algorithm to address interpersonal difficulties. Differs from CBT by focusing primarily on interpersonal interactions.) 2. Nefazodone + CM (following NIMH manual) - initially 200mg/day, then 300 mg/day in 2nd week. Increased weekly in increments of 100mg/day to maximum of	1. Non-remitters (HRSD -17>6 or HRSD -24 >8) 2. Leaving the study early 3. HRSD-24 mean endpoint scores	Psychotherapists: minimum 2 years' experience after MD or PhD or minimum 5 years' experience after MSW. Also attended 2-day training workshop, with competence being evaluated during pilot cases. Dropout and remission data extracted on full ITT basis. HRSD at end of treatment reported as 'modified ITT' - i.e. only those who received at least one treatment session.

	not allowed to make formal psychotherapeutic interventions HRSD >=20	major depressive disorder. HRSD-24 >=20.	600mg/day. To remain in study patients had to be on at least 300mg/day by week 3. 3 1 and 2		
Klein1984 (US)	Allocation: random (no details). Duration: 12, 2-hour, weekly sessions	Recruited via local newspaper. Diagnosis: Met RDC criteria for major or minor depression, not receiving any other treatment for depression, not displaying psychotic or bipolar disorder or imminent suicide risk. N = 74, 53 female, mean age 30	1. Group therapy (CBT/IPT) 2. Group meditation-relaxation therapy 3. Running therapy (not extracted)	1. Leaving the study early	Dropout rates were the only extractable data. 4 therapists - all conducted running therapy, 2 conducted meditation therapy as well, 1 of those and 1 other conducted group CT. All were mental health professionals.
Miller1989 (US)	Allocation: random (no details). Duration: 3 weeks in hospital + 20 weeks post-hospital. Standard treatment: 20-minutes once per day in hospital, 6-8 times during outpatient period. Cognitive therapy: 50 minutes once per day in hospital (from 3rd week), once per week as outpatient. Therapists could increase frequency if required. Social skills training: 50 minutes once per day in hospital (from 3rd week), once per week as outpatient. Therapists could increase frequency if required.	Inpatients - recent admissions to private psychiatric hospital in US. N = 46, 34 female, age 18-65, 30 married. Diagnosis: Major depression according to Diagnostic Interview Schedule BDI > 17 HRSD > 17 History of depression - mean no. of previous episodes 6.7; 44% also had dysthymia	1. Standard treatment: usual hospital milieu, medication (amitriptyline or desipramine) + other medication as considered appropriate, and management sessions with psychiatrist 2. Cognitive therapy: standard treatment (as above) + CT as per Beck et al manual (1976) 3. Social skills training: based on Bellack et al (1981) and Monti et al (1982) (data not extracted)	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Leaving the study early 4. BDI > 9 at endpoint 5. Non-remitters (HRSD -17>6 or HRSD -24 >8) 6. HRSD > 6 at endpoint	Pharmacotherapy and maintenance conducted by 7 board-certified psychiatrists Cognitive therapy conducted by a PhD clinical psychologist with 6 years' experience of CT with depressed patients. Social skills training administered by post-internship clinical psychology PhD candidate with 12 years' experience, supervised by PhD clinical psychologist with 10 years' experience.

Miranda 2003 (US)	Allocation: random (computer generated); assessors blind to allocation. Duration: 6 months. CT = 8 sessions	Women screened in Women, Infants and Children food su- bsidy programmes targeting low-income pregnant and post-partum women or Title	1. CBT (8 weekly sessions + 8 more if needed, n=15) - manual-guided treatment adapted from 12-session patient and therapist manuals developed for low- income English and Spanish speaking	1. Mean HRSD endpoint scores 2. Non-remitters (HRSD > 7)	Medication - treated by primary care nurse practitioners supervised by a board-certified psychiatrist; weekly telephone calls to assess
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	(+8 more if needed)	X family planning clinics for young and low-income women; all from 3 cultural groups (Black women born in US n=117, Latinas born in Latin America n=134 and white women born in US n=16. N = 267, all female, mean age 29.3 (+-7.9). Diagnosis: Major depressive disorder (diagnosed by telephone interview)	medication patients. Shortened to 8 sessions by including more topics per session and modified to be more sensitive to the issues of young women and those with histories of interpersonal trauma. Therapists also trained in PTSD and trauma. 2. Medication - paroxetine 10mg-50mg (mean 30 mg) (n=18 switched to bupropion because of side effects) for 6 months 3. Referral to community care - education about mental health treatments available in the community and about depression. Clinician offered to make an appointment for the women at the end of the clinical interview. Referred patients were contacted to encourage them to attend the intake appointment for care. All participants assigned to CBT or antidepressants invited to up to 4 education meetings with clinician overseeing their treatment.		adverse effects, adherence and treatment effects. CBT - treated by experienced psychotherapists supervised by licensed clinical psychologist with CBT expertise. Bilingual providers treated Spanish-speaking women and all written material was available in Spanish.
Murphy 1984 (US)	Allocation: random (according to pre-arranged system based on their unique and permanent clinic registration number). Only principal investigator knew assignment, and had no contact with patients except to draw occasional blood sample. Duration: 12 weeks, plus 1-month follow-up. CT - 50-minute sessions, twice weekly for first 8 weeks, then weekly for final 4 weeks. 1-, 6- and 12-month follow-up.	Outpatients N = 87 (1 treatment group not extracted, therefore n=70). Characteristics available for completers only - 52 female, mean age 33.8 (10.4) Diagnosis: primary, unipolar affective disorder (DSM-III), BDI >= 20, HRSD >=14	1. CT - following Beck et al (1979) 2. Nortriptyline hydrochloride (equivalent to 25 mg nortriptyline base) 3. CT + placebo (not extracted) 4. CT and TCA	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Relapse at 6 and 12 months 4. Leaving the study early 5. Non-remitters (HRSD -17>6 or HRSD -24 >8) 6. BDI > 9 at endpoint and 12 months 7. HRSD mean scores at 1 month follow up 8. BDI mean scores at 1 month follow up 9. HRSD > 6 at endpoint	Therapists were 3 psychologists and 9 psychiatrists Pharmacotherapy administered by the psychiatrists. Psychiatrists training ranged from 2nd year residency to post residency. Psychologists had completed doctoral requirements except for dissertation. Therapists received pre-study training.
Murphy 1995 (US)	Allocation: random using table of random numbers,	Outpatients recruited via the press N= 37 (1 treatment	1. CBT - following Beck et al (1979) 2. Relaxation training (not extracted)	1. BDI > 9 at endpoint	CBT therapists - 3 psychologists with at least 3

	concealed from patient until after randomisation Duration: 16 weeks. Therapy sessions: 50 minutes, 1 or 2 times a week for first 4 weeks, then once per week, to max of 20. AD group - 20 minutes weekly for 4 weeks, then weekly or bi-weekly as appropriate.	group not extracted, therefore, n=23), 26 female, mean age 39.4 (+-10.9) Diagnosis: DSM-III-R for unipolar affective disorder, depressed, BDI >= 14, HRSD > = 10	3 Desipramine - 150-300 mg daily		years' supervised clinical experience, given pre-treatment supervision and training, consisting of weekly supervision over period of several months Relaxation therapists: 3 psychologists and social worker ADs administered by psychiatrist
Paykel1999 (UK)	Allocation: random, consecutively numbered sealed envelopes prepared by statistician and stratified by centre, previous major depressive episodes (>=2 or <2), length of present illness (>=1 year and < 1 year), and severity of depression Duration: 16 sessions over 20 weeks, booster sessions 6 and 13 weeks into 1-year follow-up. Drug continuation and clinical management continued for follow-up year	Psychiatric outpatients with residual symptoms; N=158, 78 female, mean age 43.2(+11.2) control group, 43.5(+9.8) CT group. Diagnosis: DSM-III-R for major depression within last 18 months with residual symptoms for at least 8 weeks at randomisation (HRSD >= 8, BDI >=9), and had to have been taking ADs for at least previous 8 weeks, with 4 weeks at equivalent to 125mg amitriptyline. Excluded if had CT of > 5 sessions previously.	1. Drug continuation and clinical management: 30-minute session every 4 weeks with study psychiatrist for 20 weeks, then every 8 weeks. AD dosage allowed to increase by 30% 2. Drug continuation and clinical management + CT: as above, plus 16 CT sessions over 20 weeks, plus 2 booster sessions at approximately week 26 and 32. Based on Beck et al (1979) with a manual	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Leaving the study early 4. Relapse at endpoint 5. Relapse at follow-up 6. HRSD mean scores at follow-up 7. BDI mean scores at follow-up	CT therapist trained and experienced in CT, regular joint supervision during study by principal author, plus independent rating of audiotapes.
Rosner1999 (Ge)	Allocation: random (no details). Duration: 20 weeks, 1 session per week.	Outpatients n = 76 (1 treatment group not extracted, therefore n=43) Diagnosis: DMS-III for major depression HRSD >= 16	1. CBT - following Beck et al (1979) 2. Gestalt therapy 3. Bibliotherapy (data not extracted)	1. BDI mean endpoint scores	Psychologists or psychiatrists with 10 years' experience.
Scott1992 (UK)	Allocation: random using pre-prepared sealed envelopes Duration: 16 weeks; CBT	Outpatients referred by 63 GPs in Edinburgh; N = 121 (data for 2 treatment groups not used, therefore n=61), 91	1. Usual GP care (19/29 included ADs, but only 14 at dose equivalent to therapeutic dose of amitriptyline) 2. Amitriptyline prescribed by research	1. HRSD mean endpoint scores 2. Leaving the study early	CBT therapists - research clinical psychologists, trained in Beck et al (1979) techniques. Social work - 2 qualified social

50-minute sessions,
weekly at start and then

women, mean age between
28.8 (+-8.1) and 36.2 (+-14.2)

psychiatrist - 50-75mg daily, gradually
increasing to 150mg daily. Patients seen

workers, with experience of
medical and psychiatric

	variable intervals	(reported by treatment group). Diagnosis: DSM-III for major depressive episode	weekly for 2 weeks, then fortnightly/monthly as required. 3. CBT - based on Beck et al 4. Social work - detailed social assessment leading to construction of a problem list and thereafter an intervention programme. Initial sessions weekly but thereafter sessions were flexible. Strategies included support by encouragement and listening, help to understand feelings, practical advice, rehearsing events, support by the exercise of authority, advocacy on patient's behalf, arranging social support or holidays, marital/family meetings if appropriate.		hospital patients. Assessments by independent trained raters who were initially blind to treatment group, but likely that patients made them aware of allocation at later meetings.
Scott1997 (UK)	Allocation: random (no details). Duration: 6 weeks, 30-minute weekly sessions. 12-month follow-up (data not extracted as > 50% dropout/lost to follow-up)	GP referrals N = 48, 32 female, mean age 41(10.4) Diagnosis: DSM-III-R for major depression, BDI>=20 and depressive episode of < 2 years 29 had previous episode	1. Usual GP care (all but 1 patient in each group prescribed ADs) 2. GP care + brief cognitive therapy - including homework and schema-based therapy.	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Leaving the study early	No therapist details
Selmi1990 (US)	Allocation: random (no details). Duration: 6 weeks, 6 sessions	Recruited via the press N = 36, 23 female, mean age 28.2(4.58). Diagnosis: SCL-90-R >= 65th percentile for psychiatric outpatients (on 13-item depression scale), BDI >= 16 and current Research Diagnostic Criteria diagnoses of major/ minor/ intermittent depressive disorder based on modified version of Schedule for Affective Disorders and Schizophrenia	1. CCBT - written by one of the authors in MIIS-CONVERSE who was trained in CBT (data not extracted) 2. CBT - used treatment manual following same procedures as CCBT 3. Wait list control - participants could call for an appointment if needed, but none did.	1. BDI mean endpoint scores 2. BDI > 9 at endpoint 3. HRSD > 6 at endpoint	Therapist - advanced graduate student in clinical psychology with same training in CBT as author of computer programme

Shapiro (Mild)	Shapiro 1994.	Mild defined as BDI scores 16-20		See Shapiro 1994.	Data from mild, moderate and severe cases reported separately.
Shapiro	Shapiro 1994	Moderate defined as BDI		See Shapiro 1994.	Data from mild, moderate and

(Mod)		scores 21-26			severe cases reported separately.
Shapiro 1994 (UK)	Allocation: random (no details). Duration: 8- and 16-week versions of therapies (16-week extracted for main comparisons). 1-hour weekly sessions. Follow-up at 45 weeks after pre-screening - for 16-week therapy, equivalent to 15 weeks after end of treatment.	Outpatients, recruited from self-referrers responding to recommendations by occupational health personnel or responding to publicity materials distributed at the workplace or by GPs, or referred directly by GPs or mental health services. N = 117, 61 female, mean age 40.5 (+9.5) Diagnosis: DSM-III for MDD	1. CBT - a multimodal method somewhat more behavioural in emphasis than Beck et al, 1979) 2. Psychodynamic-interpersonal psychotherapy - based on Hobson's conversational model	1. BDI mean endpoint scores 2. BDI mean scores at 6 and 12 months' follow-up	Five therapists - UK-trained clinical psychologists, 2 had post qualification training in PI methods and trained the others. All had at least 2 training cases in each treatment x duration conditions. Data for 8-week therapy conditions extracted for short term therapy comparison only. 25 participants on medication at beginning of study - not clear if still the case at the end.
Teasdale 2000 (UK)	Allocation: random using central independent allocator. Duration: 60 weeks. Individual orientation session plus 8 weekly 2-hour group sessions, plus 52-week follow-up phase.	Outpatients in remission, recruited via community health care facilities and media announcements at 3 sites (2 in the UK: Bangor, and Cambridge; 1 in Canada: Ontario) n = 145, 110 female, mean age TAU group: 46.2 (+9.6); MBCT group: 40.7 (+10.3). Diagnosis: DSM-III-R for recurrent major depression, with at least 2 previous episodes in past 5 years, with one in last 2 years. History of treatment with ADs and in recovery/remission. Baseline HRSD < 10.	1. Treatment as usual (TAU) - participants instructed to seek help from family doctor or other sources as they normally would. 40% of TAU group and 45% of MBCT group on ADs for mean of 32.7 (+21.2) and 23.3 (+17.9) weeks respectively. 2. TAU and MBCT - mindfulness-based CBT. Group intervention based on CBT (Beck et al, 1979) with components of MBSR programme developed by Kabat-Zinn (e.g. Kabat-Zinn et al, 1990). Includes with daily homework exercises.	1. Relapse (or recurrence) meeting DSM-III-R criteria for major depressive episode, assessed by the Structured Clinical Interview for DSM-III-R administered at bi-monthly assessments throughout follow-up. Data extracted is relapse over whole study period. 2. Leaving the study early	Instructors were experienced cognitive therapists who developed the MBCT programme.

Teasdale 2003 (UK)	Allocation: random using central independent allocator. Duration: 60 weeks. Individual orientation session plus 8 weekly 2-hour group	Patients in remission, recruited via GPs and local newspaper advertisements. N = 75, 57 female, mean age TAU group: 46.1 (+9.3); MBCT group: 42.9 (+8.4)	1. Treatment as usual (TAU) - participants instructed to seek help from family doctor or other sources as they normally would. Split by up to 2 episodes/>2 episodes: 36%/33% of TAU group and 13%/21% of MBCT group on ADs for mean of 32.7 (+	1. Relapse (or recurrence) meeting DSM-III-R criteria for major depressive episode, assessed by the Structured Clinical	Instructors were experienced cognitive therapists who had led at least 2 groups through the MBCT programme.
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	sessions, plus 52-week follow-up phase.	Diagnosis: enhanced DSM-IV for recurrent major depression, with at least 2 previous episodes in past 5 years, with one in last 2 years. History of treatment with ADs and in recovery/remission. Baseline HRSD TAU group: 5.68 (+-2.97); MBCT group: 5.7 (+-3.02)	21.2) and 23.3 (+-17.9) weeks respectively. 2. TAU and MBCT - mindfulness-based CBT. Group intervention based on CBT (Beck et al, 1979) with components of MBSR program developed by Kabat-Zinn (eg Kabat-Zinn et al, 1990). Includes with daily homework exercises.	Interview for DSM-IV administered at completion of 8 training sessions and every 3 months afterwards. Data extracted is relapse over whole study period.	
Thompson 2001 (US)	Allocation: random (no details) Duration: 3-4 months, 16-20 sessions in all treatment groups. 1st 4 weeks - 2 sessions per week, then 1 session per week. AD group: 30-minute sessions	Outpatients who responded to media advertisements or referred by community physicians, mental health organisations, and social service agencies N = 100, 67 women, mean age: 66.8 (+-5.9). Diagnosis: major depression according to RDC on initial screening, HRSD >=14, BDI >= 16	1. CT - following Beck (1979), with modifications for older patients to facilitate learning - e.g. slower rates of presentation 2. Desipramine - starting at 10mg, increased according to tolerance. Mean stable daily dose 90 +- 63 mg. Plus CM adapted from NIMH-TDCRP manual for older people 3. 1 + 2 combined - AD and CT sessions usually conducted back-to-back	1. BDI mean endpoint scores 2. HRSD mean endpoint scores 3. Leaving the study early	AD group: psychiatrists following NIHM-TDCRP protocol. CT group: 8 clinical psychologists with at least 1 year's experience with geriatric patients with psychiatric symptoms
Ward 2000 (UK)	Allocation: random. Numbered sealed opaque envelopes, blocked and stratified by severity on BDI. Patients with strong preference could choose treatment or be randomised only between treatment groups (i.e. not GP care), but analysis undertaken for preference group, 3-way randomisation and 2-way randomisation separately. Duration: 6-12 weekly 50-minute sessions - no control over when ended	GP referrals N = 464, mean age 34.8 (12.2), 75% female Diagnosis: BDI >=14, 62% depression main diagnosis, others 'no overall psychiatric diagnosis' or 'behavioural difficulties'.	1. Usual GP care (30% in counselling group, 27% of CBT group on ADs) 2. CBT - complied with manualised problem formulation and staged intervention approach (Greenberger & Padesky, 1995a, 1995b) 3. Non-directive counselling - used non-directive approach outlined in a manual developed by authors based on Rogers. 2 used in review of CBT	1. BDI mean scores at endpoint and 12 month follow-up 2. Leaving the study early	Published version of HTA by King et al. Counsellors - accredited by BAC CBT therapists were psychologists accredited by BABCP and registered with UK Council for Psychotherapy. Several problems with this trial: a) 27% of CBT group were also prescribed ADs by their GP (despite GPs being asked not to) and data not reported separately b) no control over when sessions were finished (minimum of 6, but up to 12 on offer if necessary). BDI etc scores taken at baseline, 4 months and 12 months, but

					only managed to get date of therapy completion from 87% in CBT group and of these, only 80 had finished at 4 months. No other information reported on when sessions finished (presumably all within 12 months). c) although inclusion criteria included BDI \geq 14, only 62% had main diagnosis of depression.
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Characteristics of excluded studies

Study	Reason for exclusion
Barkham1996 (UK)	(CBT vs ?IPT) No usable data.
Beck1985 (US)	(CBT vs CBT + AD) Included patients with personality disorder.
Beutler1987 (US)	Benzodiazepine (BZD) vs placebo (PBO) vs G-CBT + PBO vs G-CBT + BZD) Not an RCT
Bolton2001 (Aust)	(CBT vs GP care) No extractable data - reports HADS not BDI or HRSD
Bowers1990 (US)	(CBT + AD vs relaxation therapy + AD vs AD) Inadequate randomisation
Chaudhry1998 (Pak)	(CBT + AD vs CBT + PBO) Not an RCT
Comas-Diaz1981 (US)	(CBT vs WLC) No evidence that depression diagnosis made according to recognised criteria
Dunn1979 (Can)	('CBT' vs AD + support) Not CBT
Dunner1996 (US)	(CBT vs AD) All patients were diagnosed with dysthymia.
Fava1998B	(CBT vs well-being therapy) Mixture of primary diagnoses, including panic disorder and OCD
Fleming1980 (US)	(G-CBT vs G-BT v G-non-directive therapy) Inadequate randomisation
Free1991 (Aus)	(G-CBT) Not an RCT
Gendron1996 (Can)	(G-CBT vs support group) Patients not specifically depressed
Gordon1987 (US)	(G-CBT vs no treatment control) Participants not diagnosed according to recognised criteria.
Green1985 (US)	(Structured multimodal group therapy) Not an RCT
Hellerstein2001(US)	(CBT +AD vs AD) All patients were diagnosed with dysthymia.
Hirschfeld2002 (US)	('CBT' vs AD) Not CBT and no relevant outcomes
Hogg1988 (US)	(G-CBT vs G-IPT) 27% of participants had adjustment disorder

Hollon1992 (US)	(CBT vs AD vs CBT + AD) Randomised, but dropouts replaced
Jarrett1998	(CBT) Not an RCT

Jong-Meyer1996 (Ge)	(CBT + AD vs supportive therapy + AD) Irrelevant comparison in this review
Lapointe1980 (US)	(G-CBT vs G-assertive therapy v G-insight therapy) No extractable data
Lenz2000 (Austria)	(CBT) Not an RCT
Lewinsohn1990 (US)	Adolescents, therefore outside scope
Neimeyer1984	Unpublished, could not get trial report
Macaskill1996 (UK)	(AD vs AD + rational emotive therapy) Participants includes those with co-existing psychiatric disorder
Manning1994 (Aus)	(G-CBT + AD) Not an RCT. Patients not exclusively depressed
Maynard1993 (US)	(G-CBT vs 'support' group v control) Inclusion criteria did not include a formal diagnosis of depression
McNamara1986 (US)	(CT vs BT vs CT + BT v counselling) No evidence that depression diagnosis made according to recognised criteria
Meresman1995 (US)	(AD vs G-CBT) Not an RCT
Miller1999 (US)	Sub-set of participants in Miller1989. Inadequate randomisation.
Moore1997 (UK)	(CT vs AD for residual depression) Study arms < 10 each and only study in comparison
O'Leary1990 (US)	Means only given in graph, but cannot be accurately read. No standard deviations although could impute these from F ratios.
Pace1993 (US)	(CT vs no treatment control) Diagnosis of depression not made according to recognised diagnostic system
Peden2000 (US)	(G-CBT vs no treatment control) Patients not exclusively depressed at start of study
Persons1999 (US)	(CT vs CT + AD) Not an RCT
Reynolds1986 (US)	Adolescents, therefore outside scope
Ross1985 (UK)	(CBT vs G-CBT vs WLC/GP care) No usable data. No clear description of treatment. Randomisation procedure not clear
Rotzer1985	Unpublished, could not get trial report
Rush1977 (US)	(CBT vs AD) Medication tapered and discontinued in last 2 weeks of study unlike in other studies
Rush1981 (US)	(G-CBT vs individual CBT vs individual CBT + AD) Not fully randomised
Scogin1987	Not CBT
Shapiro1982 (UK)	(G-CBT vs individual CBT) Most participants had adjustment disorder
Shapiro1987 (UK)	(CBT vs relationship-oriented therapy) Not fully randomised; cross-over design
Shaw1977 (Can)	(CBT vs WLC) Diagnosis of depression not made according to recognised diagnostic system
Steffen1998 (US)	(CBT vs psychodynamic) Data pooled from 2 studies which have not been published. No within-study data presented only between study, therefore cannot use because randomisation not undertaken between studies
Steuer1984	(G-CBT vs G-psychodynamic) Patients not randomised to treatment groups
Stravynski 1994 (Ca)	(G-CBT vs G-CBT + AD) Does not give Ns of each treatment group or numbers leaving the study early. Not clear what Ns are for mean HRSD/BDI scores at each time point.
Taylor1977 (Aust)	(CT vs BT vs CBT) Diagnosis of depression not made according to formal criteria

Teasdale1984 (UK)	(GP care vs CBT) No usable data
Thomas1987(US)	(G-CBT vs G-self-control therapy) Diagnosis of depression not made according to formal criteria

Thompson1987 (US)	(CBT vs psychodynamic) Not clear what patient numbers are used in table reporting outcome measures. Dropout data not fully reported
Tschuschke2000	(G-'analytic' vs G-psychodynamic) Not an RCT; irrelevant comparison for this review
Warren1988 (US)	(G-CBT vs WLC) Participants not diagnosed with depression according to accepted criteria at start of study
Wierbicki1987 (US)	(G-CBT vs individual CBT) Participants have atypical depression.

Wilson1983 (Aust)	(CT vs BT) Randomised, but dropouts replaced
Wilson1990 (US)	(G-CBT vs individual supportive therapy) Compares group CBT with individual support therapy - comparison not usable in this review
Wollersheim1992 (US)	(G-CBT vs supportive therapy vs bibliotherapy vs WLC) Therapeutic intervention not CBT
Zettle1989 (US)	(G-CBT vs partial G-CBT) Participants not diagnosed according to recognised criteria.
Zimmer1987	Unpublished, could not get trial report

Cognitive behavioural therapies - new studies in the guideline update

Comparisons Included in this Clinical Question

CBT vs ADs
BAGBY2008

CBT vs ADs vs Placebo
DERUBEIS2005

CBT vs control therapy (quasi-desensitization procedure)
MANBER2008

CBT vs IPT vs Clinical management
MARSHALL2008

CBT vs Non-Directive Psychotherapy (IPT)
LUTY2007

CBT vs REBT vs Ads
DAVID2008

Cognitive therapy vs Behaviour Activation vs ADs vs Placebo
DIMIDJIAN2006

Cognitive therapy vs Behavioural Activation component vs Automatic Thoughts condition
JACOBSON1996

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>BAGBY2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: Unclear</p> <p>Blindness: No mention</p> <p>Duration (days): Range 112-140</p> <p>Setting: Participants solicited through advertisements in local media.</p> <p>Notes: Randomisation: No details of procedure.</p> <p>Info on Screening Process: In trial A, n=307 were screened and n=131 were excluded as they did not meet the criteria for entry. N=171 were randomised. In trial B, n=301 were screened, n=141 were excluded as they did not meet the criteria for entry. N=160 were randomised.</p>	<p>n= 280</p> <p>Age: Mean 42 Range 18-70</p> <p>Sex: 105 males 175 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>Exclusions: <18 and >70 years old, less than 8 years of education, non-fluent in English, unable to give informed consent, not meeting DSM-IV criteria for major depressive episode. Further criteria: presence/history of bipolar disorder, psychotic disorders, or substance use disorders, presence of borderline or antisocial personality disorder as assessed by the SCID-II, current treatment with antidepressant medication or previous treatment with ECT, or concurrent active medical illness.</p> <p>Baseline: HDRS: CBT = 18.9 (3.53), ADs = 18.4 (4.01).</p>	<p>Data Used</p> <p>HDRS (17 item)</p> <p>Leaving study early for any reason</p> <p>Notes: HDRS taken at baseline and endpoint.</p>	<p>Group 1 N= 146</p> <p>CBT - participants received between 16-20 sessions of CBT weekly.</p> <p>Group 2 N= 129</p> <p>Pharmacological therapy - Antidepressant therapy for 16-20 weeks. Medications were: bupropion, citalopram, fluoxetine, paroxetine, phenelzine and venlafaxine.</p>	<p>Supported by grants from the Ontario Mental Health Foundation, The Canadian Institute of Health Research, and in part by the National Institution Aging/National Institute of Health (US) Intramural Research Program.</p>
<p>DAVID2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: 'ITT' (but not at follow-up)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 98</p> <p>Followup: 6 months</p> <p>Notes: Randomisation: stratified for previous episodes of depression, presence of dysthymia, sex and marital status.</p> <p>Info on Screening Process: n=323 assessed for eligibility, n=153 excluded (n=133 did not meet the inclusion criteria, and n=20 refused to participate).</p>	<p>n= 170</p> <p>Age: Mean 37</p> <p>Sex: 57 males 113 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>15% Dysthymia by DSM-IV SCID</p> <p>Exclusions: No DSM-IV diagnosis of major depression, psychiatric disorders (i.e. bipolar, or psychotic subtypes of depression, panic disorder, current substance misuse, past or present schizophrenia or schizophreniform disorder, organic brain syndrome, or mental retardation). Additionally excluded individuals in some concurrent psychotherapy, receiving psychotic medication, or needed to be hospitalised due to imminent suicide potential or psychosis.</p> <p>Notes: BDI-II score >19 and HRSD-17 score >13 also required.</p> <p>Baseline: CBT REBT Pharmacotherapy</p>	<p>Data Used</p> <p>BDI-II</p> <p>HRSD</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>Notes: Scores taken at baseline, 7 weeks, endpoint and 6-month follow-up.</p>	<p>Group 1 N= 57</p> <p>REBT - maximum of 20 sessions over 14 weeks. Sessions were 50 minutes long, held on an individual basis.</p> <p>Group 2 N= 56</p> <p>CBT - same schedule and session frequency as REBT intervention.</p> <p>Group 3 N= 57</p> <p>Pharmacological therapy. Mean dose 50mg/day - Fluoxetine. Starting dose was 10mg/day raising to a maximum 60-80mg/day. Dosage reduced to 20mg/day in weeks 12-14 in 53% of participants who fitted improvement criteria (HRSD<12). Pharmacotherapy sessions lasted around 30 minutes.</p>	<p>Funding support was provided by the Albert Ellis Institute, the National Council for Research and the Romanian Center for Cognitive and Behavioural Psychotherapies.</p>

<p>DERUBEIS2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT (with LOCF)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 112</p> <p>Followup: no follow-up</p> <p>Setting: recruited from referrals and from media announcements.</p> <p>Notes: Randomisation: stratified for sex and number of previous episodes.</p> <p>Info on Screening Process: 437 individuals screened, n=197 excluded as they failed to meet inclusion criteria.</p>	<p>n= 240</p> <p>Age: Mean 40 Range 18-70</p> <p>Sex: 99 males 141 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>53% Anxiety disorder by DSM-IV SCID</p> <p>25% Dysthymia by DSM-IV SCID</p> <p>Exclusions: <18 or >70 years old, no DSM-IV diagnosis of MDD, non-English speaking. Additional exclusion criteria: history of bipolar disorder, substance misuse/dependence judged to require treatment, current or past psychosis, another Axis I disorder requiring treatment in preference to depression, borderline, antisocial or schizotypal personality disorder, suicide risk, medical condition that contraindicated study medications and nonresponse to an adequate trial of paroxetine in the preceding year.</p> <p>Notes: Additional: HDRS score of >19 at screen and a baseline visit (7 days apart), required for inclusion.</p> <p>Baseline: whole sample: HDRS = 23.4 (2.9).</p>	<p>Data Used</p> <p>Remission on HDRS</p> <p>Response on HDRS</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>HDRS (17 item)</p> <p>Notes: HDRS scores reported for 8 weeks (all conditions compared) and 16 weeks (placebo group excluded).</p> <p>Response = HDRS score of <13. Remission = HDRS score of <8</p>	<p>Group 1 N= 60</p> <p>CBT - Delivered by one of 6 therapists (3 on each site). 50-minute sessions held twice weekly for first 4 weeks of treatment, once or twice for the middle 8 weeks and once weekly for the final 4 weeks.</p> <p>Group 2 N= 120</p> <p>Pharmacological therapy. Mean dose 38mg/day - Paroxetine, starting dose 10-20mg/day, increasing to 50mg/day if required for 16 weeks. If poor response after 8 weeks, augmentation with lithium or desipramine was initiated.</p> <p>Group 3 N= 60</p> <p>Placebo - Placebo pills. Given for first 8 weeks of treatment, after this participants were offered another form of treatment.</p>	<p>Supported by grants from the National Institute of Mental Health. Medication and placebo pills supplied by GlaxoSmithKline.</p>
<p>DIMIDJIAN2006</p>				

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 112</p> <p>Followup: Not reported</p> <p>Setting: Recruitment from media advertisements (n=150, 62%), referral from local agencies (n=64, 27%) and word of mouth/other referral (n=27, 11%).</p> <p>Notes: randomisation: computer generated list. Severity of depression was used as a stratification variable.</p> <p>Info on Screening Process: initial intake n=388, n=147 declined or did not meet research criteria.</p>	<p>n= 241</p> <p>Age: Mean 40 Range 18-60</p> <p>Sex: 82 males 159 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>Exclusions: <18 or >65, lifetime diagnosis of psychosis or bipolar disorder, organic brain syndrome, or mental retardation. Substantial or imminent suicide risk; a current (within 6 months) or primary diagnosis of alcohol/drug misuse/dependence or a positive toxicology screen; primary diagnosis of panic disorder, OCD, pain disorder, anorexia, or bulimia, presence of antisocial, borderline or schizotypal PD. In addition, participants who had not responded favourably within the last year to CT or paroxetine. Participants were excluded if they had an unstable medical condition, were pregnant, lactating or not using suitable contraception.</p> <p>Notes: Diagnosis: score >19 on BDI-II and >13 on the HAMD-17 additional to DSM diagnosis. Low severity = score of 14-19 on HAMD-17 High severity = scored >19 on HAMD-17</p> <p>Baseline: Low severity: HAMD-17; CT = 16.65 (1.84), BA = 17.28 (1.45), AntiD = 16.98 (1.60), PLB = 16.68 (1.86); BDI-II; CT = 27.30 (6.89), BA = 28.72 (4.59), AntiD = 23.79 (2.60), PLB = 24.32 (3.69) High severity: HAMD-17; CT = 22.72 (2.61), BA = 23.16 (2.53), AntiD = 23.79 (2.60), PLB = 24.32 (3.69) BDI-II: CT = 34.12 (5.67), BA = 36.68 (5.91), AntiD = 35.61 (7.13), PLB = 34.55 (8.36)</p>	<p>Data Used</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>BDI-II</p> <p>HDRS (17 item)</p> <p>Data Not Used</p> <p>Cognitive Therapy Scale - not relevant</p> <p>Notes: Response defined as at least 50% reduction from baseline on BDI and HRSD. Remission defined as <8 on BDI and <11 on the HRSD.</p> <p>Available at pre-treatment, 8 weeks, and 16 weeks (endpoint).</p> <p>*relapses also reported in DOBSON2008</p>	<p>Group 1 N= 45</p> <p>CBT - CBT delivered by one of three trained psychologists. Maximum of 24, 50 minute sessions over 16 weeks per participant. Sessions generally held twice weekly for the first 8 weeks and once weekly for the next 8 weeks.</p> <p>Group 2 N= 43</p> <p>Behavioural Activation - Same frequency, schedule and allotment of treatment sessions as in CBT.</p> <p>Group 3 N= 100</p> <p>Pharmacological therapy. Mean dose 35.17mg/day - Paroxetine with 30-minute clinical management sessions (weekly for first 4 weeks, then biweekly thereafter). Dose started at 10mg/day rising to 50mg/day if required.</p> <p>Group 4 N= 53</p> <p>Placebo - Placebo given blind with clinical management. Stopped after 8 weeks then participant offered treatment of their choice.</p>	<p>Grant from the National Institute of Mental Health.</p>
<p>JACOBSON1996</p>				<p>51</p>

<p>Study Type: RCT</p> <p>Type of Analysis: ITT- 'all entering treatment' (LOCF).</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 6 months</p> <p>Setting: 80% of participants referred directly from Group Health Cooperative, 20% recruited from public service announcements.</p> <p>Notes: Randomisation: stratified for number of previous episodes, presence/absence of dysthymia, severity of depression, gender and marital status.</p> <p>Info on Screening Process: Sample consisted of n=152, however n=3 left the study just after randomisation without receiving any treatment.</p>	<p>n= 152</p> <p>Age: Mean 38</p> <p>Sex: 42 males 110 females</p> <p>Diagnosis: 100% Major depression by DSM-III-R</p> <p>Exclusions: No DSM-III-R diagnosis of depression, a score of <20 on the BDI and a score of <14 on the HRSD. Further exclusion criteria: a number of concurrent psychiatric disorders (bipolar or psychotic subtypes of depression, panic disorder, current alcohol or other substance misuse, past or present schizophrenia or schizophreniform disorder, organic brain syndrome, and mental retardation), attending some concurrent form of psychotherapy, receiving psychotropic medication or needed to be hospitalised due to imminent suicide potential or psychosis.</p> <p>Notes: Additional score of >13 needed on the HRSD and >19 on the BDI also required for study inclusion.</p> <table border="0"> <tr> <td>Baseline: BA</td> <td>AT</td> <td>CT</td> </tr> <tr> <td>BDI 29.3 (6.9)</td> <td>29.2 (6.6)</td> <td>29.8 (6.3)</td> </tr> <tr> <td>HRSD 17.4 (3.8)</td> <td>19.3 (4.0)</td> <td>19.1 (4.4)</td> </tr> </table>	Baseline: BA	AT	CT	BDI 29.3 (6.9)	29.2 (6.6)	29.8 (6.3)	HRSD 17.4 (3.8)	19.3 (4.0)	19.1 (4.4)	<p>Data Used</p> <p>Improved (measured by DSM)</p> <p>Recovered (HRSD < 8)</p> <p>Recovered (BDI <9)</p> <p>HRSD</p> <p>BDI</p> <p>Data Not Used</p> <p>Expanded Attribution Style Questionnaire - No relevant</p> <p>Automatic thoughts Questionnaire - Not relevant</p> <p>Pleasant Events Schedule - Not relevant</p> <p>Longitudinal Interval Follow-up Evaluation II - Not relevant</p> <p>Notes: Scores taken at baseline, endpoint and 6 months.</p> <p>Improvement: defined as no longer qualifying for major depressive disorder according to the DSM-III-R.</p>	<p>Group 1 N= 50</p> <p>CBT - A minimum of eight sessions and a maximum of 20 for each participant. No details of time.</p> <p>Group 2 N= 57</p> <p>Behavioural Activation - Therapy including only the behavioural activation components of the CBT intervention.</p> <p>Group 3 N= 44</p> <p>Automatic thoughts - Therapy including the 'automatic thoughts' components of the CBT intervention. Focusing on the activation and the modification of dysfunctional thoughts.</p>	<p>Supported by grants from the National Institute of Mental Health.</p>
Baseline: BA	AT	CT											
BDI 29.3 (6.9)	29.2 (6.6)	29.8 (6.3)											
HRSD 17.4 (3.8)	19.3 (4.0)	19.1 (4.4)											
<p>LUTY2007</p>													

<p>Study Type: RCT</p> <p>Type of Analysis: ITT (with LOCF)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 96 Range 56-112</p> <p>Followup: Not reported</p> <p>Setting: recruited participants from out patient clinics, GPs, self-referrals and psychiatric emergency services.</p> <p>Notes: randomisation: computer randomised.</p> <p>Info on Screening Process: n=282 screened, n=105 excluded as did not meet the inclusion criteria (n=46), missed interview (n=13), preferred their antidepressant treatment (n=11) or not interested in therapy used in study (n=35)</p>	<p>n= 177</p> <p>Age: Mean 35</p> <p>Sex: 49 males 128 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>22% Alcohol dependence by DSM-IV</p> <p>15% Cannabis dependence by DSM-IV</p> <p>16% Panic disorder by DSM-IV</p> <p>24% Social phobia by DSM-IV</p> <p>45% Any Personality Disorder by SCID-PQ</p> <p>11% Paranoid Personality Disorder by SCID-PQ</p> <p>27% Avoidant personality disorder by SCID-PQ</p> <p>11% Borderline Personality Disorder by SCID-PQ</p> <p>13% Obsessive Personality disorder by SCID-PQ</p> <p>Exclusions: <18 years old, no DSM-IV primary diagnosis of major depression. Medication free for less than 2 weeks, history of mania, schizophrenia, major physical illness that could interfere with treatment or assessment, current alcohol/drug dependence of moderate or greater severity, severe antisocial personality disorder or if participant had failed to respond to one of the two interventions within the last year.</p>	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>MADRS change</p> <p>BDI-II endpoint</p> <p>HRSD endpoint</p> <p>MADRS endpoint</p> <p>Data Not Used</p> <p>Temperament and Character Inventory - Not relevant</p> <p>MSE endpoint - Not relevant</p> <p>SCL-90 endpoint - Not relevant</p> <p>Notes: Scores on relevant scales taken at baseline and 16- week endpoint.</p> <p>Response defined as 60% reduction in score on MADRS, as well as achieving scores <7 on the HRSD and 10 on the BDI-II.</p> <p>JOYCE2007: Reports MADRS improvement</p>	<p>Group 1 N= 91</p> <p>Interpersonal psychotherapy - Participant booked to see therapist on an approximately weekly basis, for 50 minute sessions for up to 16 weeks. The minimum number of sessions allowed to satisfy the research criteria was 8 and the maximum 19.</p> <p>Group 2 N= 86</p> <p>CBT - Same schedule and time allotment as within the IPT intervention.</p>	<p>Funded by grants from the Health Research Council of New Zealand.</p>
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	>29 on MADRS. Baseline: MADRS HRSD BDI-II IPT 23.3 (6.5) 16.0 (4.7) 27.7 (9.4) CBT 24.4 (6.2) 16.7 (4.6) 28.7 (10.4)			
MANBER2008				
<p>Study Type: RCT</p> <p>Type of Analysis: ITT all who gave data post-randomisation.</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 84</p> <p>Followup: no follow-up</p> <p>Setting: Participants recruited through newspaper advertisements, electronic bulletin boards, community postings and brochures in clinics.</p> <p>Notes: Randomisation: performed in blocks of 2. Separate tables were created for individuals with HRSD scores < and > 20, indicating severity.</p> <p>Info on Screening Process: n=763 screened, after a large number of assessments for mental health status and physical sleeping assessments, n=30 remained in the study.</p>	<p>n= 30</p> <p>Age: Mean 35 Range 18-75</p> <p>Sex: 12 males 18 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>100% Insomnia by DSM-IV</p> <p>Exclusions: <18 and > 75 years old, No DSM-IV diagnosis of depression and insomnia, scoring <14 on the HRSD-17, not free from psychotropic or hypnotic medication for at least 14 days (45 days for fluoxetine) prior to screening. Further criteria: current suicidal potential, seasonal pattern of MDD, history of treatment with escitalopram or failing at least 2 SSRI trials, conditions incompatible with escitalopram, current ongoing psychotherapy, pharmacotherapy, alternative therapy or any other treatment for insomnia or depression, ten or more arousals of sleep per hour of sleep related to respiratory events, 10 or more limb movements per hour during sleep, meeting ICSD-2 criteria for sleep disorder other than insomnia, uncontrolled medical conditions, abnormal thyroid function or abnormal urine drug screen, inadequate English language fluency.</p> <p>Notes: Additional: a score of >13 on the HRSD-17 was also required for study inclusion.</p> <p>Baseline: HRSD-17: CBT= 19.9 (3.8) , CNTRL = 20.7 (5.8) HRSD-17 minus sleep itmes: CBT = 15.5 (3.8), CNTRL = 16.7 (5.2)</p>	<p>Data Used</p> <p>HRSD minus sleep items</p> <p>HRSD</p> <p>Data Not Used</p> <p>Insomnia severity index - Not relevant</p> <p>Notes: HRSD scores reported at baseline and at 12 weeks (endpoint), although assessed at 2, 4, 6, and 8 weeks also.</p>	<p>Group 1 N= 15</p> <p>CBT for insomnia - 7 individual therapy sessions in CBT concentrating on insomnia and sleeping behaviour. Depression was not addressed.</p> <p>Escitalopram - Starting dose was 5mg/day, increasing to 10mg/day by the second week. Additional increases up to 20mg/day based on clinical response. Medical management included biweekly visits for the first 2 months and a final visit at the end of treatment.</p> <p>Group 2 N= 15</p> <p>Control - control therapy, including education about sleep and sleeping hygiene. Depression was not addressed</p> <p>Escitalopram - Starting dose was 5mg/day, increasing to 10mg/day by the second week. Additional increases up to 20mg/day based on clinical response. Medical management included biweekly visits for the first 2 months and a final visit at the end of treatment.</p>	<p>Supported by a grant from the National Institute of Mental Health. Forest laboratory provided medication used in the study.</p>
MARSHALL2008				
<p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 112</p> <p>Followup: no follow-up.</p> <p>Setting: participants recruited through advertisements</p> <p>Notes: Randomisation: no details.</p> <p>Info on Screening Process: n=863 were prescreened via telephone. From this, n=292 were invited for an in-depth interview, resulting in n=159 meeting inclusion criteria and were randomised; n=127 began treatment, and n=25 didn't supply full data for analysis.</p>	<p>n= 102</p> <p>Age:</p> <p>Sex: 32 males 70 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>6% Dysthymia by DSM-IV SCID</p> <p>13% Anxiety disorder by DSM-IV SCID</p> <p>Exclusions: No DSM-IV diagnosis of major depression, scoring <10 on the HRSD, concurrent active medical illness, taking antidepressants within 2 weeks prior to therapy (4 weeks for fluoxetine). Exclusions around other psychiatric history and current psychiatric symptoms are vague.</p> <p>Notes: Additional: A score of 10 or more on the HRSD was required for study entry.</p> <p>Baseline: HRSD: CBT = 17.78 (3.58), IPT = 18.57 (4.06), Pharm = 18.53 (3.58)</p>	<p>Data Used</p> <p>HRSD</p> <p>Data Not Used</p> <p>Self-Criticism assessment - Not relevant</p> <p>Depressive Experiences Questionnaire (DEQ) - Not relevant</p> <p>Notes: Assessments made at baseline and at 16 weeks (endpoint).</p>	<p>Group 1 N= 37</p> <p>CBT - 16 sessions given weekly (although number of sessions varied based on participant's level of symptomatology).</p> <p>Group 2 N= 35</p> <p>Interpersonal psychotherapy - 16 sessions given weekly (although number of sessions varied based on participant's level of symptomatology).</p> <p>Group 3 N= 30</p> <p>Pharmacotherapy + Clinical Management - Prescribed an antidepressant medication selected at treating psychiatrist's discretion.</p>	<p>Supported by an operating grant from the Ontario Mental Health Foundation (OMHF).</p>

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
ALLADIN2007	Comparison not relevant
BARKMAN1999	Dropouts were replaced
BEARDSLEE2004	Not an RCT
BHAR2008	No relevant comparison, no extractable data.
BODENMANN2008	In couples therapy review
DEN BOER2007A	No relevant comparison
FAVA2002	<7 participants in each group
FOSTER2007	No formal diagnosis of depression, no extractable data
GONZALEZ2007	No extractable data
HAUTZINGER2004	Foreign language paper
HYER2009	No relevant outcome measures
MCBRIDE2006	No extractable data
PETERSEN2004A	No relevant outcomes
SCHATZBERG2005	Crossover trial
SEGAL2005	Not an RCT
SVARTBERG2004	Less than 50% have formal diagnosis of depression
THASE2007	No blinding in randomisation
WARD2000	Not all sample was depressed. 62% depression
WARMERDAM2008	Drop-out rate =50%
WILES2008	N<10 in one arm. No extractable data.

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MARSHALL2008 (Published Data Only)

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BARKMAN1999 (Published Data Only)

Barkman, M., Shapiro, D.A., Hardy, G.E., & Rees, A. (1999) Psychotherapy in two-plus-one sessions: Outcomes of a randomized controlled trial of cognitive-behavioural and psychodynamic-interpersonal therapy for subsyndromal depression. *Journal of Consulting and Clinical Psychology*, 67 (2), 201-211.

BEARDSLEE2004

Beardslee, W.R. (2004) Outreach supported antidepressant treatment and cognitive behavioural therapy are effective for depression in low income minority women. *Evidence Based Mental Health*, 7, 21.

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Foster, R.P. (2007) Treating depression in vulnerable urban women: A feasibility study of clinical outcomes in community service settings. *American Journal of Orthopsychiatry*, 77 (3), 443-453.

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MCBRIDE2006

McBride, C., Atkinson, L., Quilty, L.C., & Bagby, R.M. (2006) Attachment as moderator of treatment outcome in major depression: A randomized control trial of interpersonal psychotherapy versus cognitive behavioural therapy. *Journal of Consulting and Clinical Psychology*, 74 (6), 1041-1054.

PETERSEN2004A

Petersen, T., Harley, R., Papakostas, G.I., Montoya, H.D., Fava, M., & Alpert, J.E. (2004) Continuation cognitive-behavioural therapy maintains attribution style improvement in depressed patients responding acutely to fluoxetine. *Psychological Medicine*, 34, 555-561.

SCHATZBERG2005

Schatzberg, A.F., Rush, A.J., Arnow, B.A., et al. (2005) Chronic depression: Medication (nefazodone) or psychotherapy (CBASP) is effective when the other is not. *Archives of General Psychiatry*, 62, 513-520.

SEGAL2005

Segal, Z.V., Bizzini, L., & Bondolfi, G. (2005) Cognitive behavioural therapy reduces long term risk of relapse in recurrent major depressive disorder. *Evidence Based Mental Health*, 8, 38.

SVARTBERG2004

Svartberg, M., Stiles, T.C., & Seltzer, M.H. (2004) Randomized, controlled trial of the effectiveness of short-term dynamic psychotherapy and cognitive therapy for cluster C personality disorders. *American Journal of Psychiatry*, 161 (5), 810-817.

THASE2007

Thase, M.E., Friedman, E.S., Biggs, M.M., et al. (2007) Cognitive therapy versus medication in augmentation and switch strategies as second-step treatments: A STAR*D report. *American Journal of Psychiatry*, 164(5), 739-752.

WARD2000 (Published Data Only)

Ward, E., King, M., Lloyd, M., et al. (2000) Randomised controlled trial of non-directive counselling, cognitive-behaviour therapy, and usual general practitioner care for patients with depression. I: Clinical effectiveness. *British Medical Journal*, 321, 1383-8.

WARMERDAM2008 (Published Data Only)

Warmerdam, L., van Straten, A., Twisk, J., Riper, H., Cuijpers, P. (2008) Internet-based treatment for adults with depressive symptoms: randomized controlled trial. *Journal of Medical Internet Research*. 10(4), e44

Warmerdam, L., van Straten, A., & Cuijpers, P. (2007) Internet-based treatment for adults with depressive symptoms: The protocol of a randomized controlled trial. *BMC Psychiatry*, 7, 72.

WILES2008 (Published Data Only)

Wiles, N.J., Hollinghurst, S., Mason, V., et al. (2008) A randomized controlled trial of cognitive behavioural therapy as an adjunct to pharmacotherapy in primary care based patients with treatment resistant depression: A pilot study. *Behavioural and Cognitive Psychotherapy*, 36, 21-33.

Cognitive behavioural therapies versus therapies designed for depression - new studies in the guideline update

Comparisons Included in this Clinical Question

Cognitive Therapy vs Integrative Cognitive Therapy
CONSTANTINO2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
CONSTANTINO2008 Study Type: RCT Type of Analysis: ITT (LOCF) Blindness: Single blind Duration (days): Range 91-112 Followup: Not reported Setting: Recruited by local advertisements and by referrals from clinics. Notes: Randomisation: no details of procedure.	n= 22 Age: Mean 47 Range 18-65 Sex: 7 males 15 females Diagnosis: 86% Single depressive episode by DSM-IV SCID 14% Recurrent Depression by DSM-IV SCID 41% Dysthymia by DSM-IV SCID Exclusions: <18 and > 65 years old, not meeting DSM-IV criteria for depression, scoring less than 20 on the BDI. Further criteria: history of bipolar or psychotic disorder, currently meeting criteria for borderline personality disorder or substance dependence, unwillingness to terminate other psychosocial treatments for depression, having previous adequate trial of CT for depression, unwillingness to maintain a stable dose of psychotropic medications, imminent suicide risk or presenting serious unstable medical condition. Notes: Additional diagnosis: Scoring at least 20 on the BDI. Baseline: BDI: ICT= 31.18 (6.79) CT= 27.00 (3.19)	Data Used BDI change score BDI Leaving study early for any reason Notes: Assessments were made at baseline and endpoint.	Group 1 N= 11 Cognitive Therapy - Programme consisted of 16 sessions over 13-16 weeks. All sessions were 50 minutes long. The first 6 sessions were conducted twice weekly, and the remaining sessions took place weekly. Group 2 N= 11 Integrative Cognitive Therapy - Grounded in same manual as CT treatment but integrated humanist and interpersonal strategies for addressing and resolving alliance ruptures. Same time scale as CT condition.	Supported by grants from the National Institutes of Health Research Service Award.

References of Included Studies

CONSTANTINO2008 (Published Data Only)

Constantino, M.J., Marnell, M.E., Haile, A.J., et al. (2008) Integrative cognitive therapy for depression: A randomized pilot comparison. *Psychotherapy: Theory, Research, Practice, Training*, 45 (2), 122-134.

Group cognitive behavioural therapies - new studies in the guideline update

Comparisons Included in this Clinical Question

Group CBT vs Wait list control
ALLARTVANDAM2003
DALGARD2006
HARINGSMA2006A
WONG2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>ALLARTVANDAM2003</p> <p>Study Type: RCT</p> <p>Type of Analysis: 'ITT': 102 who had pre/post data</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 84</p> <p>Followup: 6 months & 12 months</p> <p>Setting: newspaper & TV ads; Netherlands</p> <p>Notes: RANDOMISATION: stratified by sex</p> <p>Info on Screening Process: 324</p>	<p>n= 110</p> <p>Age: Mean 46</p> <p>Sex: 39 males 63 females</p> <p>Diagnosis: 5% Dysthymia by CIDI</p> <p>95% No formal diagnosis</p> <p>Exclusions: current diagnosis of major depression or lifetime history of bipolar disorder; current psychiatric diagnosis warranting treatment or likely to interfere with participation</p> <p>Notes: 95% had no current diagnosis of depression but BDI >=10. Demographic (except diagnosis) & efficacy data for 102 participants only.</p> <p>Baseline: BDI: CWD 15.78 (6.89), Control 14.0 (6.9)</p>	<p>Data Used</p> <p>BDI follow-up</p> <p>BDI endpoint</p> <p>Data Not Used</p> <p>General Health qu'aire - not relevant</p> <p>Automatic thoughts Questionnaire - not relevant</p> <p>Dutch Personality Qu'aire - not relevant</p> <p>Scale for Interpersonal Behaviour - not relevant</p> <p>Pleasant Events Schedule - not relevant</p> <p>Notes: Follow-up 6m & 12m author emailed 23/05/08 for dropouts in control group & clarification of control intervention</p>	<p>Group 1 N= 68</p> <p>CWD course - 12 weekly 2 hr sessions with booster session 6 wks after course, sessions consist of lectures, discussions of homework assignments & practical skill training. 8-11 participants & 2 instructors for each group who were trained psychologists or grad students</p> <p>Group 2 N= 42</p> <p>Control - treatment as usual - free to seek medical/psychological help</p>	<p>Funding: National fund of mental health</p>
<p>DALGARD2006</p> <p>Study Type: RCT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 6m</p> <p>Setting: recruited through newspaper ads; Norway</p> <p>Notes: RANDOMISATION: every 2nd person on list of names in order of recruitment assigned to intervention group, 3 random people moved between groups</p> <p>Info on Screening Process: 300</p>	<p>n= 155</p> <p>Age: Mean 47</p> <p>Sex: 37 males 118 females</p> <p>Diagnosis: 100% Unipolar depression by DSM-IV</p> <p>Exclusions: psychotic symptoms, other psychiatric diagnosis, suicidal ideation, learning disabilities</p> <p>Notes: 44% participants on concurrent medication</p> <p>Baseline: BDI: CWD 21.8 (7.9), control 22.9 (8.2)</p>	<p>Data Used</p> <p>Remission: <10 BDI at 6 months</p> <p>Response: improvement of >=6 points on BDI</p> <p>BDI change score</p> <p>Leaving study early for any reason</p>	<p>Group 1 N= 81</p> <p>CWD course - 8 weekly 2.5 hour sessions and booster sessions at 1, 2 & 4 months. Took place in primary health clinic, 8-10 participants in each group & led by 2 trained professionals (mainly nurses)</p> <p>Group 2 N= 74</p> <p>Control - treatment as usual</p>	
<p>HARINGSMA2006A</p>				

Study Type: RCT
Type of Analysis: completers
Blindness: No mention
Duration (days): Mean 70
Setting: recruited through media ads; Netherlands
Notes: RANDOMISATION: block design to ensure participants with & without current MDD

n= 137
Age: Mean 64 Range 55-85
Sex: 34 males 76 females
Diagnosis:
35% No axis I disorder by MINI
25% Anxiety disorder by MINI

Data Used
HADS-A
HADS-D
HADS-S
CES-D
Data Not Used
MOS-SF-20 - not relevant

Group 1 N= 21
CWD course - 10 weekly 2 hour sessions in groups of 6-13 participants, Dutch version of CWD course for older adults, instructors were 2 trained health care professional
Group 2 N= 22
Wait list - no psychological treatment, started course after 10 weeks

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<p>divided equally</p> <p>Info on Screening Process: 246</p>	<p>19% Major depression by MINI</p> <p>20% Mixed anxiety/depression by MINI</p> <p>Exclusions: <55 years, cognitive impairment, current bipolar disorders, schizophrenia, substance disorder, recent bereavement, hearing impairment, insufficient knowledge of Dutch, receiving other psychotherapy</p> <p>Notes: 137 participants randomly allocated, age & sex info reported for 110 completers, data extracted for 43 participants with diagnosis of MDD or MDD & anxiety</p> <p>Baseline:</p> <table border="0"> <tr> <td></td> <td>CWD</td> <td>Waitlist</td> </tr> <tr> <td>CES-D</td> <td>31.95 (8.26)</td> <td>30.91 (8.14)</td> </tr> <tr> <td>HADS-S</td> <td>23.65 (6.27)</td> <td>25.0 (6.16)</td> </tr> <tr> <td>HADS-D</td> <td>11.43 (4.25)</td> <td>12.45(4.19)</td> </tr> <tr> <td>HADS-A</td> <td>12.21 (4.27)</td> <td>12.55 (3.88)</td> </tr> </table>		CWD	Waitlist	CES-D	31.95 (8.26)	30.91 (8.14)	HADS-S	23.65 (6.27)	25.0 (6.16)	HADS-D	11.43 (4.25)	12.45(4.19)	HADS-A	12.21 (4.27)	12.55 (3.88)			
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CES-D	31.95 (8.26)	30.91 (8.14)																	
HADS-S	23.65 (6.27)	25.0 (6.16)																	
HADS-D	11.43 (4.25)	12.45(4.19)																	
HADS-A	12.21 (4.27)	12.55 (3.88)																	
<p>WONG2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT (Last observation carried forward)</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 70</p> <p>Followup: no follow-up</p> <p>Setting: Participants recruited by referrals or advertisements posted in hospital/psychiatric clinics.</p> <p>Notes: Randomisation: conducted by individual who was independent of the research team, but no further details.</p> <p>Info on Screening Process: n=101 potential participants were recruited. N=3 were not included as they had severely acute depressive symptoms and recent suicide attempts and n=2 were not interested in group therapy.</p>	<p>n= 96</p> <p>Age: Mean 37 Range 18-60</p> <p>Sex: 21 males 75 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV</p> <p>Exclusions: <18 and > 60 years old, not suffering from major depression (according to the DSM-IV), no mild to severe symptoms of depression measured on the BDI (Chinese version). Further exclusion criteria: Psychosis, severely acute depressive symptoms at the time of the interview or suicide attempt/ideation in the 3 months before the interview.</p> <p>Notes: additional: Mild to severe depressive symptoms as measured on the Chinese version of the BDI (C-BDI) was also required.</p> <p>Baseline: C-BDI: CBT group = 22.8 (10.8), wait list control: 25.0 (10.4). All participants were taking medication at the start of the time of study (mainly TCAs or SSRIs).</p>	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>C-BDI</p> <p>Data Not Used</p> <p>Dysfunctional attitude scale - Not relevant</p> <p>COPE scale - Not relevant</p> <p>Emotions Checklist - Not relevant</p> <p>Notes: Assessments made at baseline and endpoint (10 weeks).</p>	<p>Group 1 N= 48</p> <p>Group CBT - 10 sessions, each lasting 2.5 hours</p> <p>Group 2 N= 48</p> <p>Wait list - No treatment given (only received treatment after study had finished)</p>	<p>No notes on funding or support.</p>															

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
STICE2007	Approx 50% of the population are less than 18 years old

References of Included Studies

ALLARTVANDAM2003 (Published Data Only)

Allart-Van Dam, E., Hosman, C. M., Hoogduin, C. A., & Schaap, C. P. (2007) Prevention of depression in subclinically depressed adults: follow-up effects on the 'Coping with Depression' course. *Journal of Affective Disorders*, 97, 219-228.

Allart-Van Dam, E., Hosman, C. M. H., Hoogduin, C. A. L., & Schaap, C. P. D. R. (2003) The Coping with Depression course: Short-term outcomes and mediating effects of a randomized controlled

trial in the treatment of subclinical depression. Behavior Therapy, 34, 381-396.

DALGARD2006 (Published Data Only)

Dalgard, O. S. (2002) An educational programme for coping with depression: a randomised controlled trial. Tidsskrift for den Norske Laegeforening, 124, 3043-3046.

Dalgard, O. S. (2004) An educational programme for coping with depression: A randomised controlled trial. Tidsskrift for den Norske Laegeforening, 124, 3043-3046.

*Dalgard, O. S. (2006) A randomised controlled trial of a psychoeducational group program for unipolar depression in adults in Norway (NCT00319540). Clinical Practice and Epidemiology in Mental Health, 2, 15.

HARINGSMA2006A (Published Data Only)

Haringsma, R., Engels, G. I., Cuijpers, P., & Spinhoven, P. (2006) Effectiveness of the Coping With Depression (CWD) course for older adults provided by the community-based mental health care system in the Netherlands: a randomized controlled field trial. *International Psychogeriatrics*, 18, 307-325.

WONG2008 (Published Data Only)

*Secondary reference

Wong, D.F.U. (2008) Cognitive and health-related outcomes of group cognitive behavioural treatment for people with depressive symptoms in Hong Kong: Randomized wait-list control study. *Australian and New Zealand Journal of Psychiatry*, 42, 702-711.

Wong, D.F.K. (2008) Cognitive behavioural treatment groups for people with chronic depression in Hong Kong: A randomized wait-list control design. *Depression and Anxiety*, 25, 142-148.

References of Excluded Studies

STICE2007 (Published Data Only)

Stice, E., Burton, E., Bearman, S.K., Rohde, P. (2007) Randomized trial of a brief depression prevention program: an elusive search for a psychosocial placebo control condition. *Behaviour Research & Therapy*, 45, 863-876.

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Cognitive behavioural therapies - elderly - new studies in the guideline update

Comparisons Included in this Clinical Question

CBT vs TAU
LAILAW2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>LAILAW2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT (all entering treatment)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 126</p> <p>Followup: 6 months</p> <p>Setting: Participants recruited from primary care and were referred to the study by their GP. Scotland.</p> <p>Notes: Randomisation: computer generated but no stratification.</p> <p>Info on Screening Process: n=115 referred from GPs, n=28 withheld consent, n=43 did not meet criteria. N=44 randomised, n=4 withdrew before treatment commenced.</p>	<p>n= 40</p> <p>Age: Mean 76 Range 60-92</p> <p>Sex: 11 males 29 females</p> <p>Diagnosis: 100% Major depression by DSM-IV</p> <p>Exclusions: <60 years old, not DSM-IV diagnosis of depression, not scoring between 7-24 on the HDRS-17, not scoring between 13-28 on the BDI-II, not able to provide written consent and having been prescribed antidepressants within 3 months of the date of referral to the trial. Further criteria: insufficient knowledge of English, significant cognitive impairment as indicated by a score of 22 or more on the MMSE, or having received 6 or more sessions of CBT with a qualified or recognised cognitive therapist in the past and/or currently receiving psychological therapy.</p> <p>Notes: Additional criteria: scoring between 7-24 on the HRSD-17 and scoring between 13-28 on the BDI-II.</p> <p>Baseline: BDI-II HRSD-17 CBT 19.60 (5.22) 11.40 (3.08) TAU 19.50 (5.48) 11.80 (2.84)</p>	<p>Data Used</p> <p>Leaving study early for any reason</p> <p>WHOQoL</p> <p>HDRS (17 item)</p> <p>BDI-II</p> <p>Data Not Used</p> <p>Beck Hopelessness scale - not relevant</p> <p>Geriatric Depression Scale - not relevant</p> <p>Notes: Outcome measures taken at baseline, endpoint, 3-month and 6-month follow-up.</p>	<p>Group 1 N= 20</p> <p>CBT - on average, participants received 8 sessions (SD= 4.7, range 2-17 sessions),.</p> <p>Group 2 N= 20</p> <p>TAU - As close to standard care as possible. Could include involvement of GPs, community mental health teams and other mental health services, as well as including antidepressant treatment.</p>	<p>Supported by grant received by the Chief Scientist Office, Scotland.</p>

References of Included Studies

LAILAW2008 (Published Data Only)

Laidlaw, K., Davidson, K., Toner, H., et al (2008) A randomised controlled trial of cognitive behaviour therapy vs treatment as usual in the treatment of mild to moderate late life depression. International Journal of Geriatric Psychiatry, 23, 843-850.

Cognitive behavioural therapies - relapse prevention - new studies in the guideline update

Comparisons Included in this Clinical Question

Cognitive behavioural therapies vs Placebo + Clinical Management
BOCKTING2005

Cognitive Behavioural therapy vs Clinical Management
FAVA1998
PAYKEL2005

Cognitive therapy vs Ads
HOLLON2005
PERLIS2002

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>BOCKTING2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 2 years</p> <p>Setting: Recruited at psychiatric centres (31% of sample population) or media announcements (69%).</p> <p>Notes: Randomisation: performed using random permuted blocks, and was stratified by study location and type of aftercare.</p> <p>Concealment: sealed envelopes</p> <p>Info on Screening Process: n=321 assessed, excluded as did not meet entry criteria.</p>	<p>n= 187</p> <p>Age: Mean 44</p> <p>Sex: 50 males 137 females</p> <p>Diagnosis: 100% Remission from major depression by DSM-IV</p> <p>100% At least 2 major depressive episodes by DSM-IV SCID</p> <p>Exclusions: Not currently in remission for over 10 weeks, less than 2 major depressive episodes in past 5 years, mania, hypomania or history of bipolar, any psychotic disorder, organic brain damage, alcohol/drug misuse, predominant anxiety disorder, recent ECT, recent cognitive treatment or current psychotherapy more than twice a month.</p> <p>Notes: Additional criteria: current score of <10 on the HRSD.</p> <p>Baseline: CBT: HRSD-17 score = 3.8 (2.8), TAU: HRSD-17 score = 3.7 (2.9).</p>	<p>Data Used</p> <p>Relapse as measured by the SCID</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>Everyday problem checklist - not relevant</p> <p>Stressful life events checklist - not relevant</p> <p>Dysfunctional attitude scale - not relevant</p> <p>Notes: assessments made at baseline, 3, 12 and 24 months.</p>	<p>Group 1 N= 97</p> <p>Group CBT - Eight, 2 hour sessions, delivered weekly to groups of 7-12 members (mean = 8).</p> <p>Group 2 N= 90</p> <p>TAU - Naturalistic treatment (including no treatment). No restriction on use of pharmacotherapy.</p>	<p>Supported by grants from the Health Research Development Counsel.</p>
<p>FAVA1998</p> <p>Study Type: RCT</p> <p>Type of Analysis: 'ITT' but n=5 removed from analysis (see below)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 2 years</p> <p>Setting: Participants referred to and treated in the Affective Disorders programme, University of Bologna, Italy.</p> <p>Notes: Randomisation: no details of procedure. N=5 participants removed as they could not be withdrawn from antidepressant treatment.</p> <p>Info on Screening Process: n=45 randomised but n=5 could not be feasibly withdrawn from the antidepressants and were not included in the analysis.</p>	<p>n= 40</p> <p>Age: Mean 47</p> <p>Sex: 16 males 24 females</p> <p>Diagnosis: 100% Major depression by RDC</p> <p>25% GAD by RDC</p> <p>Exclusions: No RDC diagnosis of major depression, <3 episodes of depression, less than 10 weeks in remission according to the RDC (>2 symptoms for depression present), global severity score of <7 for current depressive episode, history of manic, hypomanic or cyclothymic features, active drug/alcohol misuse/dependence according to DSM-IV criteria, history of antecedent dysthymia, active medical illness, unsuccessful response to antidepressant drugs administered by 2 psychiatrists according to a standardised protocol.</p> <p>Notes: Additional: all participants were required to have responded to treatment in order to be included in this study.</p>	<p>Data Used</p> <p>Relapse according to the RDC</p> <p>Data Not Used</p> <p>Paykel Clinical Interview for Depression - Not relevant</p> <p>Notes: Assessment was made at baseline, then 3,6,9,12,15,18,21, and 24 months after treatment</p> <p>Relapse was defined as the occurrence of an RDC defined episode of major depression.</p>	<p>Group 1 N= 20</p> <p>CBT - 10, 30 minute sessions held biweekly.</p> <p>Pharmacological therapy - Participants had been previously treated for 3-5 months with antidepressants. Drug use was tapered at the rate of 25 mg/day of amitriptyline (or equivalent) until drug was withdrawn. All participants were drug free by the last two sessions.</p> <p>Group 2 N= 20</p> <p>Clinical Management - Monitoring medication tapering, reviewing clinical status and providing support/advice if needed. 10, 30 minute sessions held biweekly.</p> <p>Pharmacological therapy - Participants had been previously treated for 3-5 months with antidepressants. Drug use was tapered at the rate of 25 mg/day of amitriptyline (or equivalent) until drug was withdrawn. All participants were drug free</p>	<p>Supported by grants from the "Mental Health Project" Istituto Superiore di Sanita, and the "Ministero dell'Universita e della Ricerca Scientifica e Tecnologica"</p>

<p>HOLLON2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 365</p> <p>Followup: 1 year follow up after first 12 months</p> <p>Setting: recruited from referrals and from media announcements.</p> <p>Notes: Randomisation: stratified for sex and number of previous episodes.</p> <p>Info on Screening Process: This sample is taken from the population used in DERUBEIS2005</p>	<p>n= 104</p> <p>Age: Range 18-70</p> <p>Sex: no information</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>Exclusions: Not achieving 'response' criteria on the HDRS in the DERUBEIS2005 study. <18 or >70 years old, no DSM-IV diagnosis of MDD, non-English speaking. Additional exclusion criteria: history of bipolar disorder, substance misuse/dependence judged to require treatment, current of past psychosis, another Axis I disorder requiring treatment in preference to depression, borderline, antisocial or schizotypal personality disorder, suicide risk, medical condition that contraindicated study medications and nonresponse to an adequate trial of paroxetine in the preceding year.</p> <p>Notes: Participants in this study were in remission: defined as a score of <13 on the HDRS at the end of the DERUBEIS2005 trial.</p> <p>Baseline: No details of means. All participants scored 12 or less on the HDRS.</p>	<p>Data Used</p> <p>Sustained response</p> <p>Leaving study early for any reason</p> <p>HDRS (17 item)</p> <p>Relapse as measured by the HRSD</p> <p>Notes: Relapse: scoring >13 on the HDRS-17</p>	<p>Group 1 N= 34</p> <p>Pharmacological therapy. Mean dose 38mg/day - Participants continued their antidepressant treatment (paroxetine with augmentation if required). Also had clinical management sessions every 2 weeks for first month, and monthly thereafter.</p> <p>Group 2 N= 35</p> <p>Placebo - placebo pills given. Same schedule as with the active paroxetine intervention</p> <p>Group 3 N= 35</p> <p>CBT - 3 CBT booster session allowed to be taken up during the 12-month continuation phase.</p>	<p>This sample is taken from the population used in DERUBEIS2005. Supported by grants from the National Institute of Mental Health. Medication and placebo pills supplied by GlaxoSmithKline.</p>
<p>PAYKEL2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT- only for those with follow-up data.</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 6 years</p> <p>Notes: randomisation: assigned by consecutive sealed envelopes. Stratified by centre, previous depressive episodes, length of present illness and severity.</p> <p>Info on Screening Process: No details</p>	<p>n= 158</p> <p>Age: Mean 43 Range 21-65</p> <p>Sex: 80 males 78 females</p> <p>Diagnosis: 100% Remission but residual symptoms by DSM-III-R</p> <p>Exclusions: <21 and > 65 years of age, no previous DSM-II-R diagnosis of depression and current status of remission from depression. Bipolar disorder, cyclothymia, definite drug or alcohol dependence, persistent antisocial behaviour or repeated self-harm, dysthymia with onset before age 20 years, borderline personality disorder, IQ below 70, organic brain disorder, previous CBT, other current Axis I disorder or current psychotherapy.</p> <p>Notes: Additional: participants were also required to have a score of >7 on the HDRS, and >8 on the BDI to satisfy criteria for 'residual symptoms'.</p> <p>Baseline: HDRS: CT= 12.1 (2.7), Control: 12.2 (2.9)</p>	<p>Data Used</p> <p>Relapse (measured by DSM)</p> <p>Data Not Used</p> <p>Longitudinal Interval Follow-up Evaluation II - Not relevant</p> <p>Notes: Relapse was defined as meeting DSM-III-R criteria for MDD for a minimum of 1 month.</p>	<p>Group 1 N= 80</p> <p>CBT - participants seen for 16 sessions during 20-week treatment period, plus 2 booster sessions 6-14 weeks later. *This group also received clinical management.</p> <p>Group 2 N= 78</p> <p>Clinical Management - Participants were seen by the study psychiatrist for 30 minutes every 4 weeks during treatment phase, and every 8 weeks during follow-up (48 weeks).</p>	<p>Supported by grants from the Medical Research Council.</p>
<p>PERLIS2002</p>				

Study Type: RCT
Type of Analysis: ITT with LOCF (last observation carried forward)
Blindness: Single blind
Duration (days): Mean 196
Followup: no follow-up
Notes: Randomisation: procedure not mentioned.

n= 132
Age: Mean 40
Sex: 60 males 72 females
Diagnosis:
100% Remission from major depression by DSM-III-R SCID
Exclusions: failure to respond to fluoxetine 60mg/day during depressive episode, or treatment resistant (failure to respond to any antidepressant trial). Other criteria included: pregnancy/breast feeding, suicidal risk, serious or unstable medical illness, history of seizure disorder, organic mental

Data Used
Leaving study due to side effects
Leaving study early for any reason
Relapse as measured by the HRSD
Data Not Used
Social Adjustment Scale - Not relevant
Symptom Questionnaire - not relevant

Group 1 N= 66
CBT + Fluoxetine. Mean dose 40mg/day - CBT consisted of 12 weekly sessions, followed by 7 bi-weekly sessions. Fluoxetine was increased from 20 mg/day to 40mg/day after first continuation visit.
Group 2 N= 66
Medication management + Fluoxetine. Mean dose 40mg/day - Fluoxetine was increased from 20 mg/day to 40mg/day after first continuation visit.

Supported in part by a grant from Eli Lilly and Co.

	<p>disorders, substance use disorders, within last year, schizophrenia, delusional disorder, psychotic disorders, bipolar disorder, current use of psychotropic drugs, evidence of hypothyroidism.</p> <p>Notes: All participants were in remission at time of randomisation. Remission was defined as a score of <8 on the HRSD-17 for at least 3 weeks.</p> <p>Baseline: HRSD-17 prior to Fluoxetine: CT= 19.2 (3.3), MM= 18.3 (2.4). HRSD-17 at randomisation: CT= 4.7 (2.2), MM= 4.5 (2.1).</p>	<p>Notes: Relapse: defined as a score of >14 on the HRSD at two consecutive visits. This was confirmed by a follow-up visit by a 'blind' clinician.</p>		
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Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
SCOTT2003A	No relevant new outcomes
VITTENGL2009	No relevant outcomes

References of Included Studies

BOCKTING2005 (Published Data Only)

Bockting, C.L.H., Schene, A.H., et al. (2005) Preventing relapse/recurrence in recurrent depression with cognitive therapy: A randomized controlled trial. *Journal of Consulting and Clinical Psychology*, 73 (4), 647-657.

FAVA1998 (Published Data Only)

Fava, G.A., Ruini, C., Rafanelli, C., Finos, L., Conti, S., Grandi, S. (2004) Six-year outcome of cognitive behaviour therapy for prevention of recurrent depression. *American Journal of Psychiatry*, 161, 1872-1876.

*Fava, G.A., Rafanelli, C., Grandi, S., Conti, S., & Belluardo, P. (1998) Prevention of recurrent depression with cognitive behavioural therapy. *Archives of General Psychiatry*, 55, 816-820.

HOLLON2005 (Published Data Only)

Hollon, S.D., DeRubeis, R.J., Shelton, R.C., et al. (2005) Prevention of relapse following cognitive therapy vs medications in moderate to severe depression. *Archives of General Psychiatry*, 62, 417-422

PAYKEL2005 (Published Data Only)

Paykel, E.S., Scott, J., Cornwall, P.L., et al. (2005) Duration of relapse prevention after cognitive therapy in residual depression: follow-up of controlled trial. *Psychological Medicine*, 35, 59-68.

PERLIS2002 (Published Data Only)

Perlis, R.H., Nierenberg, A.A., Alpert, J.E., et al. (2002) Effects of adding cognitive therapy to fluoxetine dose increase on risk of relapse and residual depressive symptoms in continuation treatment of major depressive disorder. *Journal of Clinical Psychopharmacology*, 22 (5), 474-480.

References of Excluded Studies

SCOTT2003A (Published Data Only)

Scott, J., Palmer, S., Paykel, E., Teasdale, J., & Hayhurst, H. (2003) Use of cognitive therapy for relapse prevention in chronic depression: Cost effectiveness study. *British Journal of Psychiatry*, 182, 221-227.

VITTENGL2009 (Published Data Only)

Vittengl, J.R., Clark, L.A., & Jarrett, R.B. (2009) Deterioration in psychosocial functioning predicts relapse/recurrence after cognitive therapy for depression. *Journal of Affective Disorders*, 112, 135-143.

Cognitive behavioural therapies - mindfulness - relapse prevention - new studies in the guideline update

Comparisons Included in this Clinical Question

M-BCBT vs Waitlist
CRANE2008

MBCT vs antidepressants
KUYKEN2008

MBCT+TAU vs TAU
MA2004

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>CRANE2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: Completer data on BDI</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 2-3 months</p> <p>Setting: Recruited through poster in family practices and other treatment centres.</p> <p>Notes: Randomisation: stratified according to previous episodes and history of suicidality. Randomisation envelopes sealed and conducted by outsider.</p> <p>Info on Screening Process: n=125 expressed and interest in the study, but n=42 were excluded at telephone screen due to exclusion criteria. N=83 invited to further interview, n=68 included and randomised.</p>	<p>n= 68</p> <p>Age: Mean 45 Range 18-65</p> <p>Sex: no information</p> <p>Diagnosis: 100% Remission from major depression by MINI</p> <p>Exclusions: <18 and >65 years old, no previous episodes of MDD and no history of an active suicide ideation or a suicide attempt. Not in recovery (more than 1 week of minimal symptoms of MDD in past 8 weeks). Further exclusion criteria: substance misuse, difficulties in reading, speaking or writing fluent English, presence of manic episode in last 6 months, and participants receiving past CBT.</p> <p>Baseline: BDI-II: M-BCBT = 16.58 (14.23) Wait list = 12.78 (9.83).</p>	<p>Data Used</p> <p>BDI-II</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>Self-Description Questionnaire - Not relevant</p>	<p>Group 1 N= 33</p> <p>Mindfulness-Based CBT - Programme consisted of an individual pre-class interview followed by eight weekly, 2-hour classes, plus an all-day class between weeks 6 and 7.</p> <p>Group 2 N= 35</p> <p>Wait list - Wait list control</p>	<p>Supported by a grant from the Wellcome Trust.</p>
<p>KUYKEN2008</p>				

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 15 months</p> <p>Setting: Primary care settings across Devon, England.</p> <p>Notes: Randomisation: computer generated, stratified by patients' symptomatic status at intake assessment on HRSD(asymptomatic = <8 on HRSD, symptomatic = 8+)</p> <p>Info on Screening Process: n=1469 assessed for eligibility, n=533 declined, n=362 not suitable, n=449 did not return contact and n=2 unreachable. N=123 randomised.</p>	<p>n= 123</p> <p>Age: Mean 49 Range 18-80</p> <p>Sex: 29 males 94 females</p> <p>Diagnosis:</p> <p>100% History of 3+ previous episodes of depression by DSM-IV SCID</p> <p>100% Remission from major depression by DSM-IV SCID</p> <p>Exclusions: <18 years old, less than 3 previous episodes of depression (DSM-IV criteria), not currently on a therapeutic dose on antidepressants and been so for 6 months, not in remission from previous episode of depression. Further criteria: Comorbid diagnosis of current substance dependence, organic brain damage, current/past psychosis, bipolar disorder, persistent antisocial behaviour, persistent self-injury requiring clinical management, unable to engage with MBCT for physical or practical reasons (physical problems, language difficulties), and formal concurrent psychotherapy.</p> <p>Baseline: MBCT ADs</p> <p>HRSD: 5.62 (4.3) 5.76 (4.69)</p> <p>BDI-II: 18.51 (10.91) 20.15 (12.86)</p>	<p>Data Used</p> <p>WHOQoL</p> <p>Leaving study early for any reason</p> <p>BDI-II</p> <p>HDRS (17 item)</p> <p>Service Use and Costs</p> <p>Severity of relapse</p> <p>Time until relapse</p> <p>Notes: Relapse= meeting DSM-SCID criteria for a depressive episode.</p>	<p>Group 1 N= 61</p> <p>MBCT - Mindfulness-based cognitive therapy. Groups of 9-15 participants. 2-hour sessions over 8 consecutive weeks, followed up by four follow-up sessions in the following year. This intervention also included antidepressant tapering/discontinuation.</p> <p>Group 2 N= 62</p> <p>Pharmacological therapy - Continued antidepressant therapy for duration of the trial. Participants were monitored and treated by their primary care physicians.</p>	<p>Funded by the UK Medical Research Council.</p>
<p>MA2004</p>				<p>03</p>

<p>Study Type: RCT</p> <p>Type of Analysis: ITT - 'attending sufficient treatment sessions'</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 1 year</p> <p>Setting: Recruited through GPs and advertisements.</p> <p>Notes: Randomisation: by independent statistician. Stratified by severity of last relapse and number of previous episodes.</p> <p>Info on Screening Process: n=76 met inclusion criteria, but n=1 declined. n=75 were randomised.</p>	<p>n= 75</p> <p>Age: Mean 44</p> <p>Sex: 18 males 57 females</p> <p>Diagnosis: 100% Remission from major depression by DSM-IV</p> <p>Exclusions: <18 and >65 years of age, no DSM diagnosis of a history of recurrent MDD (2 or more episodes), no depressive episodes in past 2 years, no history of treatment with antidepressant medication, being on antidepressant medication, scoring more than 10 on the HAM-D. Further criteria: History of schizophrenia or schizoaffective disorder, current substance misuse, borderline personality disorder, organic mental disorder or developmental delay, dysthymia before age of 20, current eating disorder, OCD, more than 4 sessions of CBT in lifetime and current psychotherapy/counselling.</p> <p>Notes: Additional: a score of less than 10 on the HAM-D was also required for entry.</p> <p>Baseline: HAM-D: TAU = 5.68 (2.97), MBCT = 5.70 (3.02); BDI: TAU = 15.13 (9.51), MBCT = 13.49 (7.16)</p>	<p>Data Used</p> <p>Relapse as measured by the SCID</p> <p>Leaving study early for any reason</p> <p>Notes: Relapse: defined as meeting DSM-IV-SCID criteria for major depressive episode by a blind interviewer (psychologist).</p>	<p>Group 1 N= 37</p> <p>MBCT - 8 weekly sessions lasting 2 hours. Up to 12 participants per group. Two follow-up sessions were scheduled for intervals of 1 and 6 months.</p> <p>TAU - Participants told to seek help from family doctor or other sources. Monitored at 3 month assessment sessions.</p> <p>Group 2 N= 38</p> <p>TAU - Participants told to seek help from family doctor or other sources. Monitored at 3 month assessment sessions.</p>	<p>No details on funding.</p>
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References of Included Studies

CRANE2008 (Published Data Only)

Crane, C., Barnhofer, T., Duggan, D.S., Hepburn, S., Fennell, M.V., & Williams, J.M.G. (2008) Mindfulness-based cognitive therapy and self-discrepancy in recovered depressed patients with a history of depression and suicidality. *Cognitive Therapy Research*, 32, 775-787.

KUYKEN2008 (Published Data Only)

Kuyken, W., Byford, S., Taylor, R.S., et al. (2008) Mindfulness-based cognitive therapy to prevent relapse in recurrent depression. *Journal of Consulting and Clinical Psychology*, 76 (6), 966-978.

MA2004 (Published Data Only)

Ma, S.H., & Teasdale, J.D. (2004) Mindfulness-based cognitive therapy for depression: Replication and exploration of differential relapse prevention effects. *Journal of Consulting and Clinical Psychology*, 72 (1), 31-40.

Group cognitive behavioural therapies - relapse prevention - elderly - new studies in the guideline update

Comparisons Included in this Clinical Question

Group CBT + TAU vs TAU
WILKINSON2009

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>WILKINSON2009</p> <p>Study Type: RCT</p> <p>Type of Analysis: completers</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: 12 months</p> <p>Setting: recruited from GP surgeries and psychiatric services in Oxford and Southampton, UK.</p> <p>Notes: Randomisation: Computer generated, balanced according to age, sex, length of illness, care level and centre of recruitment.</p> <p>Info on Screening Process: n=79 assessed, n=34 excluded as did not meet the criteria or refused to participate. n=45 randomised, n=5 did not start treatment.</p>	<p>n= 45</p> <p>Age: Mean 74 Range 60-88</p> <p>Sex: 17 males 28 females</p> <p>Diagnosis: 100% Remission from major depression by ICD-10</p> <p>Exclusions: <60 years of age, had not experienced previous episode of depression, had not remitted in last 2 months after taking antidepressant medication. Scoring >10 on the MADRS. Further exclusion criteria: scoring less than 24 on the MMSE, current severe alcohol problems and a diagnosis of bipolar disorder.</p> <p>Notes: Additional criteria: scoring less than 10 on the MADRS also required for inclusion.</p> <p>Baseline: MADRS: CBT-G = 4 (5.4), Control= 6 (5.8)</p>	<p>Data Used</p> <p>Recurrence on MADRS</p> <p>Recurrence on BDI</p> <p>BDI change score</p> <p>MADRS change</p> <p>Notes: recurrence of depression: score of 10 or more on the MADRS and 12 or more on the BDI. Scores taken at 6 and 12 month follow-up.</p>	<p>Group 1 N= 23</p> <p>Group CBT + TAU - CBT= eight, 90 minute sessions. Treatment as usual (e.g. follow-up by GP or community mental health team).</p> <p>Group 2 N= 22</p> <p>TAU - Treatment as usual (e.g. follow-up by GP or community mental health team).</p>	<p>Supported by grants from the health foundation.</p>

References of Included Studies

WILKINSON2009 (Published Data Only)

Wilkinson, P., Alder, N., Juszczak, E., et al. (2009) A pilot randomised controlled trial of a brief cognitive behavioural group intervention to reduce recurrence rates in late life depression. *International Journal of Geriatric Psychiatry*, 24, 68-75.

Behaviour therapy (BT) - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes
McLean 1979 (Can)	Allocation: random (no details). Duration: 10 weeks (8-12 sessions)	Outpatients. N=196, 72% women, mean age 39.2 years (+10.9) Diagnosis: Feighner criteria for clinical depression	1. Short-term psychotherapy 2. Relaxation therapy 3. Behaviour therapy 4. Drug therapy (amitriptyline 75g up to 150mg (Data not extracted))	1. Leaving the study early	No description of therapists - all received pre-treatment training. NB: partners encouraged to attend treatment. Dropouts were replaced, and not clear if replacements were randomised.

Characteristics of excluded studies

Study	Reason for exclusion
Antonuccio1984 (US)	No control group

Lichtenberg1996 US	Not randomised - participants assigned in cohorts
McNamara1986	No evidence that depression diagnosis made according to recognised criteria
Schulz1999 (Ger)	Not randomised
Teri1986 (US)	27% in concurrent treatment for depression

Behaviour therapy/ behavioural activation - new studies in the guideline update

Comparisons Included in this Clinical Question

Behaviour Activation vs Supportive Therapy
HOPKO2003

Cognitive therapy vs Behaviour Activation vs ADs vs Placebo
DIMIDJIAN2006

Cognitive therapy vs Behavioural Activation component vs Automatic Thoughts condition
JACOBSON1996

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
DIMIDJIAN2006				
<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 112</p> <p>Followup: Not reported</p> <p>Setting: Recruitment from media advertisements (n=150, 62%), referral from local agencies (n=64, 27%) and word of mouth/other referral (n=27, 11%).</p> <p>Notes: randomisation: computer generated list. Severity of depression was used as a stratification variable.</p> <p>Info on Screening Process: initial intake n=388, n=147 declined or did not meet research criteria.</p>	<p>n= 241</p> <p>Age: Mean 40 Range 18-60</p> <p>Sex: 82 males 159 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>Exclusions: <18 or >65, lifetime diagnosis of psychosis or bipolar disorder, organic brain syndrome, or mental retardation. Substantial or imminent suicide risk; a current (within 6 months) or primary diagnosis of alcohol/drug misuse/dependence or a positive toxicology screen; primary diagnosis of panic disorder, OCD, pain disorder, anorexia, or bulimia, presence of antisocial, borderline or schizotypal PD. In addition, participants who had not responded favourably within the last year to CT or paroxetine. Participants were excluded if they had an unstable medical condition, were pregnant, lactating or not using suitable contraception.</p> <p>Notes: Diagnosis: score >19 on BDI-II and >13 on the HAMD-17 additional to DSM diagnosis. Low severity = score of 14-19 on HAMD-17 High severity = scored >19 on HAMD-17</p> <p>Baseline: Low severity: HAMD-17; CT = 16.65 (1.84), BA = 17.28 (1.45), AntiD = 16.98 (1.60), PLB = 16.68 (1.86); BDI-II; CT = 27.30 (6.89), BA = 28.72 (4.59), AntiD = 23.79 (2.60), PLB = 24.32 (3.69) High severity: HAMD-17; CT = 22.72 (2.61), BA = 23.16 (2.53), AntiD = 23.79 (2.60), PLB = 24.32 (3.69) BDI-II: CT = 34.12 (5.67), BA = 36.68 (5.91), AntiD = 35.61 (7.13), PLB = 34.55 (8.36)</p>	<p>Data Used</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>BDI-II</p> <p>HDRS (17 item)</p> <p>Data Not Used</p> <p>Cognitive Therapy Scale - not relevant</p> <p>Notes: Response defined as at least 50% reduction from baseline on BDI and HRSD. Remission defined as <8 on BDI and <11 on the HRSD.</p> <p>Available at pre-treatment, 8 weeks, and 16 weeks (endpoint).</p> <p>*relapses also reported in DOBSON2008</p>	<p>Group 1 N= 45</p> <p>CBT - CBT delivered by one of three trained psychologists. Maximum of 24, 50 minute sessions over 16 weeks per participant. Sessions generally held twice weekly for the first 8 weeks and once weekly for the next 8 weeks.</p> <p>Group 2 N= 43</p> <p>Behavioural Activation - Same frequency, schedule and allotment of treatment sessions as in CBT.</p> <p>Group 3 N= 100</p> <p>Pharmacological therapy. Mean dose 35.17mg/day - Paroxetine with 30-minute clinical management sessions (weekly for first 4 weeks, then biweekly thereafter). Dose started at 10mg/day rising to 50mg/day if required.</p> <p>Group 4 N= 53</p> <p>Placebo - Placebo given blind with clinical management. Stopped after 8 weeks then participant offered treatment of their choice.</p>	<p>Grant from the National Institute of Mental Health.</p>
HOPKO2003				

<p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: No mention</p> <p>Duration (days): Mean 14</p> <p>Setting: Hospitalised patients in West Virginia hospital.</p> <p>Notes: Randomisation: No details</p>	<p>n= 25</p> <p>Age: Mean 30</p> <p>Sex: 16 males 9 females</p> <p>Diagnosis:</p> <p>100% Major depression by Unstructured Diagnostic Interview by Psychiatrist</p> <p>40% Anxiety disorder by Unstructured Diagnostic Interview by Psychiatrist</p> <p>44% Substance misuse/dependence by Unstructured Diagnostic Interview by Psychiatrist</p> <p>Exclusions: Not having a principal diagnosis of depression, having a history of or current psychosis</p>	<p>Data Used</p> <p>BDI</p>	<p>Group 1 N= 10</p> <p>Behavioural Activation - Participants were seen 3 times per week for approximately 20 minutes by the clinician.</p> <p>Group 2 N= 15</p> <p>Supportive Psychotherapy - Participants met with a clinician 3 times per week, for approximately 20 minutes. This involved a nondirective discussion with the clinician, encouraging the sharing of experiences.</p>	<p>No details on funding.</p>
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	Baseline: BDI: BA= 35.1 (7.4) SP= 37.1 (15.4)												
JACOBSON1996													
<p>Study Type: RCT</p> <p>Type of Analysis: ITT- 'all entering treatment' (LOCF).</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 6 months</p> <p>Setting: 80% of participants referred directly from Group Health Cooperative, 20% recruited from public service announcements.</p> <p>Notes: Randomisation: stratified for number of previous episodes, presence/absence of dysthymia, severity of depression, gender and marital status.</p> <p>Info on Screening Process: Sample consisted of n=152, however n=3 left the study just after randomisation without receiving any treatment.</p>	<p>n= 152</p> <p>Age: Mean 38</p> <p>Sex: 42 males 110 females</p> <p>Diagnosis: 100% Major depression by DSM-III-R</p> <p>Exclusions: No DSM-III-R diagnosis of depression, a score of <20 on the BDI and a score of <14 on the HRSD. Further exclusion criteria: a number of concurrent psychiatric disorders (bipolar or psychotic subtypes of depression, panic disorder, current alcohol or other substance misuse, past or present schizophrenia or schizophreniform disorder, organic brain syndrome, and mental retardation), attending some concurrent form of psychotherapy, receiving psychotropic medication or needed to be hospitalised due to imminent suicide potential or psychosis.</p> <p>Notes: Additional score of >13 needed on the HRSD and >19 on the BDI also required for study inclusion.</p> <table border="1"> <tr> <td>Baseline: BA</td> <td>AT</td> <td>CT</td> </tr> <tr> <td>BDI 29.3 (6.9)</td> <td>29.2 (6.6)</td> <td>29.8 (6.3)</td> </tr> <tr> <td>HRSD 17.4 (3.8)</td> <td>19.3 (4.0)</td> <td>19.1 (4.4)</td> </tr> </table>	Baseline: BA	AT	CT	BDI 29.3 (6.9)	29.2 (6.6)	29.8 (6.3)	HRSD 17.4 (3.8)	19.3 (4.0)	19.1 (4.4)	<p>Data Used</p> <p>Improved (measured by DSM)</p> <p>Recovered (HRSD < 8)</p> <p>Recovered (BDI <9)</p> <p>HRSD</p> <p>BDI</p> <p>Data Not Used</p> <p>Expanded Attribution Style Questionnaire - No relevant</p> <p>Automatic thoughts Questionnaire - Not relevant</p> <p>Pleasant Events Schedule - Not relevant</p> <p>Longitudinal Interval Follow-up Evaluation II - Not relevant</p> <p>Notes: Scores taken at baseline, endpoint and 6 months.</p> <p>Improvement: defined as no longer qualifying for major depressive disorder according to the DSM-III-R.</p>	<p>Group 1 N= 50</p> <p>CBT - A minimum of eight sessions and a maximum of 20 for each participant. No details of time.</p> <p>Group 2 N= 57</p> <p>Behavioural Activation - Therapy including only the behavioural activation components of the CBT intervention.</p> <p>Group 3 N= 44</p> <p>Automatic thoughts - Therapy including the 'automatic thoughts' components of the CBT intervention. Focusing on the activation and the modification of dysfunctional thoughts.</p>	<p>Supported by grants from the National Institute of Mental Health.</p>
Baseline: BA	AT	CT											
BDI 29.3 (6.9)	29.2 (6.6)	29.8 (6.3)											
HRSD 17.4 (3.8)	19.3 (4.0)	19.1 (4.4)											

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
CULLEN2006	No extractable data

References of Included Studies

DIMIDJIAN2006 (Published Data Only)

Dobson, K.S., Hollon, S.D., Dimidjian, S., et al. (2008) Randomized trial of behavioural activation, cognitive therapy, and antidepressant medication in the prevention of relapse and recurrence in major depression. *Journal of Consulting and Clinical Psychology*, 76 (3), 468-477.

*Dimidjian, S., Hollon, S.D., Dobson, K.S., Schmalting, K.B., et al. (2006) Randomized trial of behavioural activation, cognitive therapy, and antidepressant medication in the acute treatment of adults with major depression. *Journal of Consulting and Clinical Psychology*, 74 (4), 658-670.

HOPKO2003 (Published Data Only)

Hopko, D.R., Lejuez, C.W., LePage, J.P., Hopko, S.D., & McNeil, D.W. (2003) A brief behavioural activation treatment for depression. *Behaviour Modification*, 27 (4), 458-469.

JACOBSON1996 (Published Data Only)

Jacobson, N.S., Dobson, K.S., Truax, P.A., et al. (1996) A component analysis of cognitive-behavioural treatment for depression. *Journal of Consulting and Clinical Psychology*, 64 (2), 295-304.

References of Excluded Studies

CULLEN2006 (Published Data Only)

Cullen, J.M., Spates, C.R., & Doran, N. (2006) Behavioural activation treatment for major depressive disorder: A pilot investigation. *The Behaviour Analyst Today*, 7(1), 151-166.

Problem solving - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
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Mynors-Wallis 1995	<p>Allocation: Random using sealed envelopes, stratified by severity of disorder.</p> <p>Duration: six 30-minute sessions over 3 months.</p>	<p>Recruited from GPs. N=91, 70 female, mean age 37 years.</p> <p>Diagnosis: RDC criteria for major depression, HRSD > 13.</p>	<ol style="list-style-type: none"> 1. Problem solving 2. Amitriptyline 150 mg/day 3. Placebo 	<ol style="list-style-type: none"> 1. Leaving the study early for any reason (based on number of participants not achieving 6 sessions) 2. HRSD mean endpoint scores 3. BDI mean endpoint scores 4. Leaving the study early due to side effects 5. BDI > 8 6. HRSD > 7 	<p>Therapists were 1 psychiatrist experienced in PS and 2 GPs who received training. Continuous data extracted for all patients completing at least 4 sessions</p>	A
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Mynors-Wallis 2000	Allocation: Random using sealed envelopes, generated using list of random numbers, stratified for severity. Duration: 6 fortnightly sessions, plus 1-year follow up (from start of study)	Referrals from GPs. N=151, 116 female, mean age 35. Diagnosis: Probable or definite major depression on research diagnostic criteria. HRSD > 13. Minimum 4 weeks' illness.	1. Problem solving / GP 2. Problem solving / practice nurse 3. AD: Fluvoxamine (n=7*, 100-150 mg) or paroxetine (n=64*, 10-40mg (most at 20mg). 4. PS sessions with nurse + AD (1 and 2 added together for dichotomous outcomes; 1 entered for continuous outcomes) * N for AD alone and in combination	1. HRSD mean scores at endpoint and 1-year follow-up 2. BDI mean endpoint scores at endpoint and 1-year follow-up 3. Leaving the study early for any reason 4. Leaving the study early due to side effects 5. HRSD > 7 at endpoint and 1-year follow-up	Therapists were 3 research GPs and 2 research practice nurses. All followed treatment manual and had supervision from an experienced PS therapist who was also the author.	A
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Characteristics of excluded studies

Study	Reason for exclusion
Alexopoulos2003	Participants with executive dysfunction
Catalan1991 (UK)	Patients not necessarily depressed
Dowrick2000	Patients not all depressed. Some patients with adjustment disorder
Garland2000 (UK)	Not an RCT
Lynch1997 (US)	Not clear what treatment was received by comparison group; dropout figures for comparison group not clear; BDI data from < 50% treatment group; SDs for HRSD scores not calculable
Shiple1973 (US)	Not randomised
Simons2001(UK)	Preliminary report - no results given
Unutzer2001	Not all participants in treatment group received problem-solving therapy; also, no extractable outcomes

Williams2000	Participants have diagnosis of dysthymia or minor depression
Wood1997 (UK)	Participants do not have primary diagnosis of depression

Problem solving - studies excluded in the guideline update

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
AREAN2008	No relevant outcomes, no extractable data
NEZU1986	n<10 in one arm

References of Excluded Studies

AREAN2008

Arean, P., Hegel, M., Vannoy, S., Fan, M., & Unutzer, J. (2008) Effectiveness of problem-solving therapy for older, primary care patients with depression: Results from the IMPACT project. *The Gerontologist*, 48 (3), 311-323.

NEZU1986 (Published Data Only)

Nezu, A.M. (1986) Efficacy of a social problem-solving therapy approach for unipolar depression. *Journal of Consulting and Clinical Psychology*, 54 (2), 196-202.

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Couples therapy - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
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Beach 1992 (US)	Allocation: random (no details) Duration: 15 weeks. CT = 15-20 sessions	Couples with marital difficulties recruited via press advertisements. N = 45 couples Diagnosis: women only - DSM- III for major depression or dysthymia .	1 CT for wife - following Beck et al (1979) 2. Behavioural marital therapy (BMT) 3. Waiting list - treatment on demand (3 hours' crisis intervention if required) - no couples requested this	1.BDI mean endpoint scores	CT & BMT: 4 therapists were doctoral level psychologists and 2 advanced graduate students in clinical psychology. All had > 4 years' full-time graduate training in clinical psychology & 30 hours in each of the 2 treatments by nationally recognised experts.	B
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Emanuel - Zuurveen 1996	Allocation: random (no further details) Duration: 16 weeks, weekly 1-hour sessions	Outpatients recruited via the press (except 3 - not clear if only in pre-randomised group) N = 36. Age (after dropouts, n=9): Patients: mean 38.4 (SD =9.6) Spouses/partners: mean 38.2 (SD = 8.6). Mean duration of marriage/relationship: 13.8 years (SD = 8.5). Diagnosis: depression DSM-III-R Marital distress, MMQ >=40	1. Individual CBT-based on Lewishohn's behavioural approach & Beck's CBT.1 st session: link between activity level & mood explained, identified pleasant events. Sessions 2-8: Principle of scheduling & graded task assignments explained. Pleasant activities /mastery-related events scheduled. Session 5 onwards shift to social skills e.g. assertion & communication skills, including relevant homework. Sessions 9-16: cognitive therapy - influence of thoughts on mood & behaviour, including challenging assumptions. N=14 2. Behavioural marital therapy: based on Beach et al (1990), Emmelkamp et al (1984) and Emmelkamp (1988). N=13.	1. Leaving the study early 2. BDI mean endpoint scores	Therapists: advanced clinical psychology students, who had completed advanced courses in CBT. Also, a marital therapist who had completed a course in behavioural marital therapy. Before study all had extensive training in relevant treatment manuals. All sessions were recorded on audiotape and overheard by member of research team. Supervisions were held twice a week with groups of 2-5 therapists.	B
Foley 1989 (US)	Allocation: random (no details) Duration: 16 weekly sessions.	Allocation: random (no details) Duration: 16 weekly sessions. Disputes as a major problem included.	1. Conjoint marital IPT 2. Individual IPT Both following treatment manuals developed for the study	1. HRSD mean endpoint scores 2. Leaving the study early	IPT - CM: 3 therapists all social workers. Individual IPT: 3 therapists; a psychiatrist, a psychologist and a social worker. All therapists were trained using treatment manuals.	B
O'Leary 1990 (US)	Allocation: random (no details). Duration: 16 weekly sessions + unspecified follow-up period.	Married couples with depressed wife describing themselves as maritally discordant. N=36; average age of wives 39.3 years. Wife diagnosed using DSM-III for major depression or dysthymia (n=4) and BDI > 13.	1. Behavioural marital therapy 2. Individual CBT 3. Waitlist control (WLC)	1. BDI mean scores (SDs calculated from F ratios; not available for marital vs CBT at end of treatment, or marital vs WLC, or CBT vs WLC at follow-up). 2. Leaving the study early.	Therapists: 2 doctoral level psychologists & 1 5th-year graduate student in clinical psychology. All had >4 years full-time graduate training in clinical psychology, +1-semester behavioural marital therapy seminar and 1-year practicum. Also, had 30 hours' training in each of the two treatments, specifically for this study.	B

Characteristics of excluded studies

Study	Reason for exclusion
Beach1986 (US)	Very small study (n=8); not clear to which groups dropouts allocated; 4/6 end-point BDI scores given (i.e. IPD) = 0 - hard to believe
Crowe1978	Patients not identified as being depressed
Friedman1975	Irrelevant outcomes reported; dropouts only given for 4 weeks (study length 12 weeks)
Jacobson1991 (US)	Data reported by maritally distressed vs maritally non-distressed, with no combined data available.
O'Leary1981 (US)	Patients not exclusively depressed; no useable data

Snyder1989	No primary diagnosis of depression
Teichman1995 (Is)	>20% of participants diagnosed with dysthymia (21/45)
Waring1988 (Can)	Not clear if participants were randomised; 4-arm trial (2 levels of psychotherapy & 2 of pharmacotherapy), outcome data given by psychotherapy only
Waring1990 (Can)	Patients treated for marital distress not depression
Waring1991 (Can)	Patients treated for marital distress not depression

Couples therapy - new studies in the guideline update

Comparisons Included in this Clinical Question

Couples therapy vs CBT vs Couples therapy + CBT	Couples therapy vs CBT vs IPT
JACOBSON1993	BODENMANN2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes									
<p>BODENMANN2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: Not clear</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 140</p> <p>Followup: 18 months</p> <p>Setting: Recruited through media and medical practices.</p> <p>Notes: Randomisation: block randomisation to ensure an equal allocation of 10 couples to each group.</p> <p>Info on Screening Process: n=428 screened, 27% did not reach inclusion criteria with regard to symptomatology, 39% were single with no close relationship, 18% had partners unwilling to participate, 13% were older than 60 years old, 3% could not speak sufficient German.</p>	<p>n= 60</p> <p>Age: Mean 45</p> <p>Sex: 25 males 35 females</p> <p>Diagnosis:</p> <p>75% Major depression by DSM-IV SCID</p> <p>25% Dysthymia by DSM-IV SCID</p> <p>Exclusions: Excluded from study if they were older than 60 years, had bipolar disorder, psychotic or manic symptoms, or secondary depression or if they were highly suicidal. Also being single/no close relationship and not speaking German to sufficient level were grounds for exclusion.</p> <p>Notes: Additional: Participants had to score >17 on the BDI for inclusion.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Baseline: CBT</td> <td style="text-align: center;">IPT</td> <td style="text-align: center;">Couples</td> </tr> <tr> <td style="text-align: center;">BDI 26.05 (8.18)</td> <td style="text-align: center;">24.75 (6.03)</td> <td style="text-align: center;">24.70 (7.18)</td> </tr> <tr> <td style="text-align: center;">HRSD 14.15 (6.39)</td> <td style="text-align: center;">13.95 (3.36)</td> <td style="text-align: center;">16.2 (6.88)</td> </tr> </table>	Baseline: CBT	IPT	Couples	BDI 26.05 (8.18)	24.75 (6.03)	24.70 (7.18)	HRSD 14.15 (6.39)	13.95 (3.36)	16.2 (6.88)	<p>Data Used</p> <p>HRSD change score</p> <p>BDI change score</p> <p>Data Not Used</p> <p>Dyadic Coping Inventory (DCI) - Not relevant</p> <p>Partnership Questionnaire - No relevant</p> <p>Notes: Measurements on BDI taken at pretest, post-test (2 weeks after treatment), 6 months, 1 year and 1.5 years. Measurement on HRSD taken at pretest and post-test.</p>	<p>Group 1 N= 20</p> <p>Couples therapy - 10 two-hour sessions, every 2 weeks.</p> <p>Group 2 N= 20</p> <p>Interpersonal psychotherapy - 20 1-hour sessions, on a weekly basis.</p> <p>Group 3 N= 20</p> <p>CBT - 20 1-hour sessions, on a weekly basis.</p>	<p>Supported by Swiss National Science Foundation Research Grants.</p>
Baseline: CBT	IPT	Couples											
BDI 26.05 (8.18)	24.75 (6.03)	24.70 (7.18)											
HRSD 14.15 (6.39)	13.95 (3.36)	16.2 (6.88)											
<p>JACOBSON1993</p> <p>Study Type:</p> <p>Study Description: SEE JACOBSON1991 (previous guideline) FOR STUDY DETAILS</p> <p>Blindness:</p> <p>Duration (days):</p>													

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
LEFF2000	>50% drop out in one arm

References of Included Studies

BODENMANN2008 (Published Data Only)

Bodenmann, G., Plancherel, B., Beach, S.R., et al. (2008) Effects of coping-oriented couples therapy on depression: A randomized clinical trial. *Journal of Consulting and Clinical Psychology*, 76, (6),

944-954.

JACOBSON1993 (Published Data Only)

Jacobson, N.S., Fruzzetti, A.E., Dobson, K., Whisman, M., & Hops, H. (1993) Couple therapy as a treatment for depression: II. The effects of relationship quality and therapy on depressive relapse. *Journal of Consulting and Clinical Psychology*, 61 (3), 516-519.

References of Excluded Studies

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LEFF2000

Leff, J., Vearnals, S., Brewin, C.R., et al. (2000). The London Depression Intervention trial: randomised controlled trial of antidepressants v. couple therapy in the treatment and maintenance of people

with depression living with a partner: Clinical outcomes and costs. *British Journal of Psychiatry*, 177, 95-100.

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Interpersonal therapy (IPT) - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
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de Mello 2001 (Braz)	Allocation: random (stratified by gender and early or late onset) Duration: 48-weeks: IPT: 16 weekly sessions + 6 monthly booster sessions; AD: 8 months	Participants referred to psychiatric outpatient clinics and a teaching hospital N = 35, female 28, age range 20-60. Diagnosis: ICD-10 for dysthymia (N=32 had double depression)	1. IPT + Moclobemide - IPT adapted to dysthymia; focus on grief, role dispute, role transition, or interpersonal deficits 2. Moclobemide + routine care - for 8 months; 150 mg during first week & 300 mg thereafter. During clinical consultations, patients received unstructured psychoeducation and clinical assessments	1. HRSD mean endpoint scores at 12 and 48 weeks 2. Leaving the study early for any reason (NB during whole study period) 3. Leaving the study early due to side effects ('medication intolerance')	Therapist was a psychiatrist with psychotherapy experience, training acquired by reading IPT material, attending an IPT course and contacts with IPT therapist	A
Elkin 1989 (US)	Allocation: random (no details) Duration: 16 weeks - CBT 12	Outpatients N = 239, age 21-60 years. Diagnosis: RDC	1. CBT-following Beck et al (1979) 2. IPT - aims to help patients	1. BDI mean endpoint scores	Therapists were different group of experienced therapists for each	B

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	<p>sessions in 1st 8 weeks, then 8 sessions once a week (20 sessions in total), IPT - 16 weekly sessions with optional 4 additional sessions at therapist discretion (all psychotherapy sessions 50 minutes); imipramine-CM and P-CM groups 16 weekly sessions with one or two additional tapering-off sessions, initial pharmacotherapy session 45-60 minutes long, remaining sessions 20-30 minutes.</p>	<p>criteria for definite major depression, HRSD \geq 14.</p>	<p>achieve a better understanding of their interpersonal problems & improve social functioning. 3. Imipramine-CM -flexible dose schedule with general goal of achieving 200mg/day by 3rd week, may be increased to 300 mg/day. Administered within context of clinical management sessions, to provide supportive atmosphere and for psychiatrist to assess clinical status 4. P-CM- as 3 but with pill placebo</p>	<p>2. HRSD mean endpoint scores 3. Leaving the study early 4. HRSD$>$7 5. BDI $>$ 9</p>	<p>condition, except for CM groups which were carried out double blind by same therapists. 28 therapists (10 psychologists, 18 psychiatrists) all trained in pilot stage of project</p>	
Frank 1990 (US)	<p>Allocation: random (patients and members of their treatment team blind to medication or placebo) Duration: approximately 20-week acute phase; 17-week continuation phase, then patients randomised to 3-year maintenance phase</p>	<p>Patients in their third or more depression episode, with previous episode no more than 2.5 years before onset of present episode and minimum 10-week remission between two episodes. N = 128, mean age 40.2 (+ 10.9) Diagnosis: RDC for unipolar depression, HRSD $>$ 14, Raskin Severity of Depression $>$ 6. Patients entering the maintenance phase had major depression, though 14.3% of patients entering the first-phase of treatment diagnosed with bipolar disorder</p>	<p>All patients had received acute phase imipramine (150-300mg) and IPT (weekly for 12 weeks, then bi-weekly for 8 weeks, then monthly for additional 4 months; not clear how many sessions in maintenance phase). Entered maintenance trial if HRSD $<$ 8 and Raskin score $<$ 6 for 3 consecutive weeks 1. IPT - following Klerman et al (1984). Goal was to maintain the well-state by improving the quality of social and interpersonal functioning 2. IPT-M + placebo 3. IPT-M + active imipramine 4. Medication clinic + placebo 5. Medication clinic +imipramine</p>	<p>1. Relapse (HRSD $>$ 14 + Raskin $>$ 6) at end of 3-year maintenance phase 2. Leaving the study early (at end of 3-year maintenance phase)</p>	<p>Therapists were social workers, psychologists or nurse clinicians with Master's or PhD degrees who were trained in IPT by 2 members who developed IPT and a certified IPT trainer. Data extracted for the following comparisons of interventions: 1 vs 3 and 1 vs 4.</p>	B

Freeman 2002 (UK)	Allocation: random (no details). Duration: 16 sessions over 5 months, plus 5-month follow-up.	Primary care Diagnosis: DSM-IV major depression or depression with comorbid anxiety. N =124 (depressed or depressed with anxiety), mean age 36 (+-11.2), 79 women	1. IPT (no details) 2. CBT (no details) 3. TAU (GP care, not controlled but GPs instructed not to refer to psychological therapy or counselling; all on ADs) (1 vs 3 extracted for this review; 1 vs 2 in CBT review)	1. BDI mean scores at endpoint and at 5- month follow-up	19 therapists (12 CBT and 7 IPT - none did both) 4 clinical psychologists, 5 research psychologists, 3 psychiatrists, 2 nurse therapists, 1 OT, 4 CPNs Data sub-set of larger study including wider range of depressive and anxiety disorders	B
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Reynolds 1999 (US)	Allocation: Random (stratified: by single/recurrent episodes of major depression); AD/placebo administered double blind. Patients originally randomised to 2-arm trial, but later addition of 2 further arms - results presented for 4-arm trial, including patients originally randomised to 2 arms. Duration: Acute phase until patients remitted within an 8-week period. Patients who remitted entered into a 16-week continuation phase and followed-up after 2 years; IPT - weekly 50-minute sessions.	Participants who responded to advertisements or letters sent from the investigators to surviving spouses identified in obituaries N = 80, 68 female, mean age = 66.4. Diagnosis: SDAS-L and RDC for major depressive episode	1. Medication clinic + nortriptyline 2. Medication clinic + placebo 3. IPT + nortriptyline 4. IPT + placebo	1. Leaving the study early (acute phase) 2. Non-remitters (by end of acute phase; HRSD not <7 for 3 consecutive weeks) 3. Relapse (patients in continuation phase only) 4. Leaving the study early due to side effects (acute phase)	Therapists were experienced clinicians trained to and maintained at research levels of proficiency in IPT, same clinicians also provided the medication clinic	C
Reynolds 1999B (US)	Allocation: random (schedule generated by project statistician, individual randomisation stratified by therapist and blocked in units of 4 subjects, patients and therapists blind to AD or placebo assignment) Duration: Initial acute treatment phase - received nortriptyline + weekly IPT to achieve remission, 16-week continuation treatment phase - nortriptyline + fortnightly IPT. Patients showing stable remission then randomised to 1 of 4 3-year maintenance therapy conditions; IPT - monthly 50-minute sessions, medication clinic - monthly 30-minute visits	Older adults in at least their second lifetime episode and previous episode no more than 3 years before present episode. N = 107; age - 69 between 60 & 69 years, 38 > 69 years. Diagnosis: RDC for unipolar major depression, HRSD >16	1. Nortriptyline + IPT 2. Nortriptyline + medication clinic 3. IPT + placebo 4. Medication clinic + placebo	1. Leaving the study early (at end of 3-year maintenance phase - included patients who refused treatment and medical dropouts) 2. Relapse (at end of maintenance phase)	Therapists were experienced clinicians trained to research level of proficiency by 4 of the investigators. Same clinicians also provided medication-clinical management to medication clinic group. Recurrence of major depressive episode based on structured psychiatric interview	A
Schulberg 1996 (US)	Allocation: random (no details) Duration: 8 months (IPT: acute phase 4 months (16 weekly sessions), continuation phase 4 months (4 monthly sessions); Antidepressant: acute phase 6 weeks, 6-month continuation phase	Primary care patients presenting at study site waiting rooms in 4 ambulatory health centres. N = 276, 229 female, mean age 38.1. Diagnosis: for entry to acute phase: DSM-III-R for major depression, HRSD >	1. IPT - Klerman (1984) 2. Nortriptyline + CM (using NIMH manual, Fawcett, 1987) 3. TAU - usual family physician care; 45% prescribed ADs within 2 months of randomisation	1. HRSD mean scores at endpoint (month 4 data) and after 4 months' continuation treatment (month 8 data) 2. Leaving the study early	Therapists were psychiatrists and clinical psychologists skilled in psychotherapeutic procedures trained in standardised IPT	B

		12; for continuation phase (AD group only): BDI < 20 and judged to be non-responder by independent psychiatrist		3. HRSD >7 after 4 months' continuation treatment (month 8 data)		
Weissman 1992 (US)	Allocation: random (double-blind to ADs or placebo). Duration: 6 weeks, weekly 30-50 minute IPT sessions	Outpatients, ambulatory. N = 35, 25 female, mean age 70 (range 60-83 years) Diagnosis: DSM-III major depression	1. IPT + alprazolam (mean maximum dose 2.2mg) 2. IPT + imipramine (mean maximum dose 97.5mg) 3. IPT + placebo 1 not extracted	1. Leaving the study early for any reason 2. Leaving the study early due to side effects	IPT was offered for ethical reasons in light of the placebo and to enhance compliance in general. Evaluating the efficacy of IPT as such was not the objective. IPT based on Klerman et al (1979)	B

Characteristics of excluded studies

Study	Reason for exclusion
DiMascio1979 (US)	> 50% dropout rate (53/96); also, efficacy data not extractable because no SDs
Frank1989 (US)	No extractable data
Jacobson1977 (US)	Raskin Depression Scale used for depression diagnosis

Klerman1974	No extractable data
Martin2001 (UK)	4 out of 15 patients in venlafaxine group and 1 out of 13 patients in the IPT group was assigned in a non-randomised manner
Mossey1996	Patients with 'subdysthymia'- a sub-threshold level for major depression or dysthymia. Excluded patients with major depression or dysthymia.
Szapocznik1982 (US)	Not an RCT; formal diagnosis of depression not conducted
Zeiss1979	Patients recruited based on Minnesota Multi-phasic Inventory

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Interpersonal therapy - new studies in the guideline update

Comparisons Included in this Clinical Question

IPT + ADs vs Ads
BLOM2007
SCHRAMM2007

IPT vs CBT
LUTY2007

IPT vs CBT vs Clinical management
MARSHALL2008

IPT vs TAU (psychoeducational materials & referrals)
SWARTZ2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
BLOM2007 Study Type: RCT Type of Analysis: Completers Blindness: Blinded assessments Duration (days): Mean 98 Setting: Community mental health clinics and outpatients; Netherlands Notes: RANDOMISATION: no details	n= 193 Age: Mean 40 Sex: 69 males 124 females Diagnosis: 100% Major depression by DSM-IV Exclusions: <18 years old; HAMD score <14; substance misuse; serious medical condition; organic psychiatric disorder; severe suicidality; history of psychotic disorder or schizophrenia; bipolar disorder; current use of psychotropic medication; ongoing psychotherapy Baseline: HRSD: NEF 20.5 (4.8); NEF/IPT 21.9 (4.3); IPT/PLA 21.4 (5.3); IPT 21.6 (4.1) MADRS: NEF 28.3 (6.7); NEF/IPT 31.0 (5.5); IPT/PLA 29.8 (6.3); IPT 29.5 (5.3)	Data Used Leaving study early for any reason Remission on HAM-D MADRS endpoint HAM-D	Group 1 N= 49 Nefazodone - Started at 100mg/d and gradually increased to minimum of 400mg/d or maximum of 600mg/d Interpersonal psychotherapy - 12 sessions Group 2 N= 47 Interpersonal psychotherapy - 12 sessions Placebo Group 3 N= 50 Interpersonal psychotherapy - 12 sessions Group 4 N= 47 Nefazodone - Started at 100mg/d and gradually increased to minimum of 400mg/d or maximum of 600mg/d	Unrestricted grant from Bristol-Myers Squibb and partially supported by the Netherlands Organisation for Scientific Research
LUTY2007				

<p>Study Type: RCT</p> <p>Type of Analysis: ITT (with LOCF)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 96 Range 56-112</p> <p>Followup: Not reported</p> <p>Setting: recruited participants from out patient clinics, GPs, self-referrals and psychiatric emergency services.</p> <p>Notes: randomisation: computer randomised.</p> <p>Info on Screening Process: n=282 screened, n=105 excluded as did not meet the inclusion criteria (n=46), missed interview (n=13), preferred their antidepressant treatment (n=11) or not interested in therapy used in study (n=35)</p>	<p>n= 177</p> <p>Age: Mean 35</p> <p>Sex: 49 males 128 females</p> <p>Diagnosis:</p> <ul style="list-style-type: none"> 100% Major depression by DSM-IV SCID 22% Alcohol dependence by DSM-IV 15% Cannabis dependence by DSM-IV 16% Panic disorder by DSM-IV 24% Social phobia by DSM-IV 45% Any Personality Disorder by SCID-PQ 11% Paranoid Personality Disorder by SCID-PQ 27% Avoidant personality disorder by SCID-PQ 11% Borderline Personality Disorder by SCID-PQ 13% Obsessive Personality disorder by SCID-PQ <p>Exclusions: <18 years old, no DSM-IV primary diagnosis of major depression. Medication free for less than 2 weeks,</p>	<p>Data Used</p> <ul style="list-style-type: none"> Leaving study early for any reason MADRS change BDI-II endpoint HRSD endpoint MADRS endpoint <p>Data Not Used</p> <ul style="list-style-type: none"> Temperament and Character Inventory - Not relevant MSE endpoint - Not relevant SCL-90 endpoint - Not relevant <p>Notes: Scores on relevant scales taken at baseline and 16- week endpoint.</p> <p>Response defined as 60% reduction in score on MADRS, as well as achieving scores <7 on the HRSD and 10 on the BDI-II.</p> <p>JOYCE2007: Reports MADRS improvement</p>	<p>Group 1 N= 91</p> <p>Interpersonal psychotherapy - Participant booked to see therapist on an approximately weekly basis, for 50 minute sessions for up to 16 weeks. The minimum number of sessions allowed to satisfy the research criteria was 8 and the maximum 19.</p> <p>Group 2 N= 86</p> <p>CBT - Same schedule and time allotment as within the IPT intervention.</p>	<p>Funded by grants from the Health Research Council of New Zealand.</p>
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	<p>history of mania, schizophrenia, major physical illness that could interfere with treatment or assessment, current alcohol/drug dependence of moderate or greater severity, severe antisocial personality disorder or if participant had failed to respond to one of the two interventions within the last year.</p> <p>Notes: Severe depression also measured and defined as >29 on MADRS.</p> <p>Baseline: MADRS HRSD BDI-II IPT 23.3 (6.5) 16.0 (4.7) 27.7 (9.4) CBT 24.4 (6.2) 16.7 (4.6) 28.7 (10.4)</p>			
MARSHALL2008	<p>n= 102</p> <p>Age:</p> <p>Sex: 32 males 70 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>6% Dysthymia by DSM-IV SCID</p> <p>13% Anxiety disorder by DSM-IV SCID</p> <p>Exclusions: No DSM-IV diagnosis of major depression, scoring <10 on the HRSD, concurrent active medical illness, taking antidepressants within 2 weeks prior to therapy (4 weeks for fluoxetine). Exclusions around other psychiatric history and current psychiatric symptoms are vague.</p> <p>Notes: Additional: A score of 10 or more on the HRSD was required for study entry.</p> <p>Baseline: HRSD: CBT = 17.78 (3.58), IPT = 18.57 (4.06), Pharm = 18.53 (3.58)</p>	<p>Data Used</p> <p>HRSD</p> <p>Data Not Used</p> <p>Self-Criticism assessment - Not relevant</p> <p>Depressive Experiences Questionnaire (DEQ) - Not relevant</p> <p>Notes: Assessments made at baseline and at 16 weeks (endpoint).</p>	<p>Group 1 N= 37</p> <p>CBT - 16 sessions given weekly (although number of sessions varied based on participant's level of symptomatology).</p> <p>Group 2 N= 35</p> <p>Interpersonal psychotherapy - 16 sessions given weekly (although number of sessions varied based on participant's level of symptomatology).</p> <p>Group 3 N= 30</p> <p>Pharmacotherapy + Clinical Management - Prescribed an antidepressant selected at treating psychiatrist's discretion.</p>	<p>Supported by an operating grant from the Ontario Mental Health Foundation (OMHF).</p>
SCHRAMM2007				

<p>Study Type: RCT</p> <p>Type of Analysis: ITT "all who received allocated intervention"</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 35</p> <p>Followup: 1 year</p> <p>Setting: Participants referred to the department for acute psychiatric hospitalisation.</p> <p>Notes: Randomisation: stratified for age, gender, unipolar vs bipolar II disorder, comorbidity on axis I, duration of index episode and number of episodes.</p> <p>Info on Screening Process: n=300 prescreened, n=147 screened for eligibility, n=17 excluded as they didn't meet the inclusion criteria or they refused to participate. N=130 randomised, n=6 not analysed.</p>	<p>n= 124</p> <p>Age: Mean 41</p> <p>Sex: 43 males 81 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>42% Axis I comorbidity by DSM-IV SCID</p> <p>Exclusions: No DSM-IV diagnosis of major depression, <18 or >65 years old, concurrent diagnosis of bipolar I disorder, primary substance misuse/dependency, other primary axis I disorders, mental disorder because of organic factors, and borderline or antisocial personality disorder, psychotic symptoms, severe cognitive impairment, contraindications to the study medication and being actively suicidal.</p> <p>Notes: Additional score of >15 on the Ham-D-17 required for inclusion in this study.</p> <p>Baseline: IPT Clinical management</p> <table border="0"> <tr> <td>HAM-D</td> <td>25.1 (5.1)</td> <td>21.9 (4.1)</td> </tr> <tr> <td>BDI</td> <td>29.5 (7.9)</td> <td>30.1 (10.2)</td> </tr> </table>	HAM-D	25.1 (5.1)	21.9 (4.1)	BDI	29.5 (7.9)	30.1 (10.2)	<p>Data Used</p> <p>Response on HAM-D</p> <p>Remission on HAM-D</p> <p>Relapse on HAM-D</p> <p>BDI</p> <p>HAM-D</p> <p>Data Not Used</p> <p>Social Adjustment Scale - Not relevant</p> <p>Notes: Scores taken at baseline, week 5 (endpoint), 3 months and 12 months.</p> <p>Response= reduction in symptom severity of 50% or higher on HAM-D.</p> <p>Remission= score of <8 on HAM-D</p> <p>Relapse= score >14 on HAM-D, with psychiatric status rating of >4 for 2 weeks.</p>	<p>Group 1 N= 63</p> <p>IPT + Pharmacotherapy. Mean dose 90.2mg/day - 15 individual sessions (+ 8 group sessions) approximately 50 minutes long, administered 3 times a week over 5 weeks. The average number of sessions attended was 12.8. First-line pharmacotherapy was sertraline, followed by amitriptyline.</p> <p>Group 2 N= 61</p> <p>Clinical Management + Pharmacotherapy. Mean dose 90.2mg/day - Participants received a psychoeducational, supportive and empathic intervention of 20 - 25 minutes, 3 times a week. First-line pharmacotherapy was sertraline, followed by amitriptyline.</p>	<p>Funded by grants from the German Research Society, Bonn, Germany.</p>
HAM-D	25.1 (5.1)	21.9 (4.1)								
BDI	29.5 (7.9)	30.1 (10.2)								
SWARTZ2008				84						

<p>Study Type: RCT</p> <p>Type of Analysis: ITT - 'individuals entering treatment.'</p> <p>Blindness: Single blind</p> <p>Duration (days):</p> <p>Followup: 9 months</p> <p>Notes: Randomisation: no details of procedure.</p> <p>Info on Screening Process: n=72 screened, n=65 randomly assigned. Final screening after randomisation removed n=9, and n=9 dropped out leaving n=47 entering interventions.</p>	<p>n= 47</p> <p>Age: Mean 42 Range 18-65</p> <p>Sex: all females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV</p> <p>79% Axis I comorbidity by DSM-IV</p> <p>Exclusions: <18 and > 65 years old, no DSM-IV diagnosis of depression, HAMD-D score <15 and not the biological or adoptive mother and custodial parent of a child age 6-18 receiving psychiatric treatment. Further exclusion criteria: not living with a child, at serious risk of child abuse/neglect, substance misuse within preceding 6 months, actively suicidal, suffering from psychotic disorder, unstable medical condition that may affect mood ratings or currently receiving individual psychotherapy (group or family therapy was acceptable).</p> <p>Notes: Additional: Score of >15 on the HAM-D-17 also required for study entry.</p> <table border="1"> <tr> <td>Baseline:</td> <td>IPT</td> <td>TAU</td> </tr> <tr> <td>BDI</td> <td>24.5 (8.3)</td> <td>27.1 (8.3)</td> </tr> <tr> <td>HAM-D-17</td> <td>20.7 (4.4)</td> <td>22.4 (4.2)</td> </tr> </table>	Baseline:	IPT	TAU	BDI	24.5 (8.3)	27.1 (8.3)	HAM-D-17	20.7 (4.4)	22.4 (4.2)	<p>Data Used</p> <p>BDI</p> <p>HAM-D</p> <p>Data Not Used</p> <p>Child Behaviour Checklist - Not relevant</p> <p>Columbia Impairment Scale - Not relevant</p> <p>Children's Depressive Inventory - Not relevant</p> <p>CGI-S - Not relevant</p> <p>Beck Anxiety Inventory - Not relevant</p> <p>Global Assessment of Functioning scale - Not relevant</p> <p>Notes: Scores taken at baseline, 3 months and 9 months</p>	<p>Group 1 N= 26</p> <p>Interpersonal psychotherapy - One engagement session, followed by eight sessions. Therapy took place in same clinic at the same time the child is receiving treatment. No details on time scale. N=7 were taking antidepressants at baseline, and continued through the study.</p> <p>Group 2 N= 21</p> <p>TAU - Participants in this group were informed of diagnoses, given psychoeducational materials and told to seek treatment, using GP care. They were also given referrals to mental health clinics and (n=11) recorded receiving antidepressants by 3-month follow-up.</p>	<p>Supported by grants from National Institute of Mental Health.</p>
Baseline:	IPT	TAU											
BDI	24.5 (8.3)	27.1 (8.3)											
HAM-D-17	20.7 (4.4)	22.4 (4.2)											

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
BODENMANN2008	In couples therapy review
BOLTON2003	Control intervention not clear. Non-depressed population have an unclear diagnosis.
FRANK2007	Data not extractable
MCBRIDE2006	No extractable data
VAN SCHAIAK2007	Data not extractable

References of Included Studies

BLOM2007 (Published Data Only)

Blom, M.B.J., Jonker, K., Dusseldorp, E. et al., (2007) Combination treatment for acute depression is superior only when psychotherapy is added to medication. *Psychotherapy and Psychosomatics*, 76, 289-297.

LUTY2007 (Published Data Only)

Joyce, P.R., McKenzie, J.M., Carter, J.D., et al. (2007) Temperament, character and personality disorders as predictors of response to interpersonal psychotherapy and cognitive-behavioural therapy for depression. *British Journal of Psychiatry*, 190, 503-508.

*Luty, S.E., Carter, J.D., McKenzie, J.M., et al. (2007) Randomised controlled trial of interpersonal psychotherapy and cognitive-behavioural therapy for depression. *British Journal of Psychiatry*, 190, 496-502.

MARSHALL2008 (Published Data Only)

Marshall, M.B., Zuroff, D.C., McBride, C., & Bagby, R.M. (2008) Self-criticism predicts differential response to treatment for major depression. *Journal of Clinical Psychology*, 64 (3), 231-244.

SCHRAMM2007 (Published Data Only)

Schramm, E., Schneider, D., Zobel, I., et al. (2008) Efficacy of interpersonal psychotherapy plus pharmacotherapy in chronically depressed inpatients. *Journal of Affective Disorders*, 109, 65-73. Schramm, E., Van Calker, D., Dykier, P., Lieb, K., et al. (2007) An intensive treatment program of interpersonal psychotherapy plus pharmacotherapy for depressed inpatients: Acute and long-term results. *American Journal of Psychiatry*, 164 (5), 768-777.

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SWARTZ2008 (Published Data Only)

Swartz, H.A., Frank, E., Zuckoff, A., et al. (2008) Brief interpersonal psychotherapy for depressed mothers whose children are receiving psychiatric treatment. *American Journal of Psychiatry*, 165 (90), 1155-1162.

References of Excluded Studies

BODENMANN2008 (Published Data Only)

Bodenmann, G., Plancherel, B., Beach, S.R., et al. (2008) Effects of coping-oriented couples therapy on depression: A randomized clinical trial. *Journal of Consulting and Clinical Psychology*, 76, (6), 944-954.

BOLTON2003 (Published Data Only)

Bolton, P., Bass, J., Neugebauer, R., et al. (2003) Group interpersonal psychotherapy for depression in rural Uganda: A randomized controlled trial. *Journal of the American Medical Association*, 289 (23), 3117-3124.

FRANK2007 (Published Data Only)

Frank, E., Kupfer, D.J., Buysse, D.J., et al. (2007) Randomized trial of weekly, twice-monthly, and monthly interpersonal psychotherapy as maintenance treatment for women with recurrent depression. *American Journal of Psychiatry*, 164, 761-767.

MCBRIDE2006

McBride, C., Atkinson, L., Quilty, L.C., & Bagby, R.M. (2006) Attachment as moderator of treatment outcome in major depression: A randomized control trial of interpersonal psychotherapy versus cognitive behavioural therapy. *Journal of Consulting and Clinical Psychology*, 74 (6), 1041-1054.

VAN SCHAİK2007

Van Schaik, D.J.F, van Marwijk, H.W.J., Beekman, A.T.F., de Hann, M., & van Dyck, R. (2007) Interpersonal psychotherapy (IPT) for late-life depression in general practice: Update and satisfaction by patients, therapists and physicians. *BMC Family Practice*, 8, 52.

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Interpersonal therapy - relapse prevention - studies excluded from the guideline update

Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
CARREIRA2008	No relevant data; no relevant outcomes
DOMBROVSKI2007B	No extractable data
DOMBROVSKI2007C	No relevant outcome measures

References of Excluded Studies

CARREIRA2008 (Published Data Only)

Carreira, K., Miller, M.D., Frank, E., et al. (2008) A controlled evaluation of monthly maintenance interpersonal psychotherapy in late-life depression with varying levels of cognitive function. *International Journal of Geriatric Psychiatry*, 23, 1110-1113.

DOMBROVSKI2007B (Published Data Only)

Dombrovski, A.Y., Mulsant, B.H., Houck, P.R., et al. (2007) Residual symptoms and recurrence during maintenance treatment of late-life depression. *Journal of Affective Disorders*, 103, 77-82.

DOMBROVSKI2007C (Published Data Only)

Dombrovski, A.Y., Lenze, E.J., Dew, M.A., et al. (2007) Maintenance treatment for old-age depression preserves health-related quality of life: A randomized, controlled trial of paroxetine and interpersonal psychotherapy. *Journal of the American Geriatric Society*, 55, 1325-1332.

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Interpersonal therapy - elderly - maintenance - new studies in the guideline update

Comparisons Included in this Clinical Question

IPT + ADs vs IPT + Placebo
REYNOLDS2006

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>REYNOLDS2006</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Double blind</p> <p>Duration (days): Mean 730</p> <p>Followup: Not reported</p> <p>Notes: Randomisation: Stratified according to number of episodes, use of augmented pharmacotherapy, and level of cognitive impairment.</p> <p>Info on Screening Process: n=363, n=153 excluded and n=210 agreed to participate. n=195 started short-term therapy (weekly IPT + ADs) and n=116 responded to treatment and were randomised to maintenance treatment.</p>	<p>n= 116</p> <p>Age: Mean 77</p> <p>Sex: 41 males 75 females</p> <p>Diagnosis: 100% Major depression by DSM-IV SCID</p> <p>Exclusions: <70 years of age, had not responded to short-term treatment, and a HRSD score >10. Individuals diagnosed with bipolar disorder or psychotic depression.</p> <p>Notes: Additional: All participants had to score between 0 - 10 on the HRSD for 3 consecutive weeks to show clinical response to short-term treatment.</p> <p>Baseline: HRSD: ADs + IPT= 6.0 (2.9), ADs + Clin Man = 4.9 (2.7), PBO + IPT = 5.5 (2.7), PBO + Clin Man = 5.8 (2.2).</p>	<p>Data Used</p> <p>Recurrence on HRSD</p> <p>Leaving study early for any reason</p> <p>Notes: Recurrence of depression: HRSD score >14 & DSM-IV</p>	<p>Group 1 N= 28</p> <p>IPT + Paroxetine - IPT was delivered monthly in 45-minute sessions.</p> <p>Group 2 N= 35</p> <p>Clinical Management + Paroxetine - Clinical management was delivered in monthly 30-minute sessions.</p> <p>Group 3 N= 35</p> <p>IPT + Placebo - IPT was delivered monthly in 45-minute sessions.</p> <p>Group 4 N= 18</p> <p>Clinical Management + Placebo - Clinical management was delivered in monthly 30-minute sessions.</p>	<p>GlaxoSmithKline supplied the paroxetine tablets. Supported by grants from the National Institute of Mental Health and the National Center for Minority Health and Health Disparities.</p>

References of Included Studies

REYNOLDS2006 (Published Data Only)

Reynolds, C.F., Dew, M.A., Pollock, B.G., et al. (2006) Maintenance treatment of major depression in old age. The New England Journal of Medicine, 354, 1130-1138.

Interpersonal therapy - elderly - new studies in the guideline update

Comparisons Included in this Clinical Question

IPT vs TAU (usual GP care)
VAN SCHAIK2006

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
VAN SCHAIK2006 Study Type: RCT Type of Analysis: ITT Blindness: Single blind Duration (days): Mean 140 Followup: 6 months Setting: conducted in 12 general practices in Amsterdam and surrounding area. Notes: Randomisation: random number table conducted for each site. No further details. Info on Screening Process: n=6719 screened with GDS-15, only n=834 returned and had score relevant from inclusion (>4). N=143 were randomised for interventions as n=691 did not have positive PRIME-MD score, refused or met other exclusion criteria.	n= 143 Age: Mean 68 Range 55-82 Sex: 44 males 99 females Diagnosis: 100% Depression by PRIME-MD Exclusions: <55 years old, scoring <5 of the GDS-15, no diagnosis of depressive disorder as measured by the PRIME-MD. Further criteria: Already receiving treatment for depression, non-Dutch speaking, severe cognitive impairment (measured by the Mini-Mental State Examination as a score of <18). Notes: Additional: a score of >4 on the Geriatric Depression Scale (GDS-15) is also required for study entry. Baseline: MADRS score: IPT group = 19.4 (7.9), CAU = 19.3 (8.6)	Data Used Response on MADRS Remission on MADRS Change in Diagnosis (PRIME-MD) MADRS change MADRS Data Not Used Short-form Health survey (SF-36) - Not relevant Geriatric Depression Scale - Not relevant Notes: Assessments made at baseline, 2 months and 6 months. Remission = MADRS score of <10 Response = MADRS reduction of 50%	Group 1 N= 69 Interpersonal psychotherapy - 10 sessions to be completed within 5 months, provided by 15 therapists. Once allocated to IPT, GPs were informed not to prescribe any antidepressants or refer the participant to any psychotherapy or counselling. Average of 8 sessions received. Group 2 N= 74 Care as usual - Usual care. GPs were not informed about participants unless they became suicidal.	Funded by The Netherlands Organization for Health Research and Development (ZONmw).

References of Included Studies

VAN SCHAIK2006 (Published Data Only)

Van Schaik, A., van Marwijk, H., Ader, H., et al. (2006) Interpersonal psychotherapy for elderly patients in primary care. American Journal of Geriatric Psychiatry, 14 (9), 777-786.

Counselling - studies in previous guideline

Characteristics of included studies

	and 12 months	Concurrent psychotropic medication: 32% therapy & 24% GP group were taking it at beginning of trial 31% & 40% respectively took it between start of trial & 6-month assessment, 40% & 38% respectively prescribed it between 6- & 12-month assessment	2. Usual GP care	and 12 months 3. Leaving the study early (by 6 months)	11
Ward	Allocation: random	GP referrals N = 464, mean age 34.8	1. Usual GP care (30% in	1. BDI mean	Published version of HTA by King et al. Counsellors -

2000 (UK)	(numbered sealed opaque envelopes, blocked and stratified by severity on BDI Patients with strong preference could choose treatment or be randomised only between treatment groups (i.e. not GP care), but analysis undertaken for preference group, 3-way randomisation and 2-way randomisation separately). Duration: 6-12 weekly 50-minute sessions - no control over when ended	(12.2), 75% female. Diagnosis: BDI ≥ 14 , 62% depression main diagnosis, others 'no overall psychiatric diagnosis' or 'behavioural difficulties'.	counselling group, 27% of CBT group on ADs) 2. CBT - complied with manualised problem formulation and staged intervention approach (Greenberger and Padesky, 1995a, 1995b) 3. Non-directive counselling - used non-directive approach outlined in a manual developed by authors based on Rogers. 2 used in review of CBT	scores at endpoint and 12 month follow-up 2. Leaving the study early by 4 months and by 12 months	accredited by BAC. CBT therapists were psychologists accredited by BABCP and registered with UK Council for Psychotherapy. Several problems with this trial: a) 27% of CBT group were also prescribed ADs by their GP (despite GPs being asked not to) and data not reported separately; b) no control over when sessions were finished (minimum of 6, but up to 12 on offer if necessary). BDI etc scores taken at baseline, 4 months and 12 months, but only managed to get date of therapy completion from 87% in CBT group; of these, only 80 had finished at 4 months. No other information reported on when sessions finished (presumably all within 12 months); c) although inclusion criteria included BDI ≥ 14 , only 62% had main diagnosis of depression.
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Characteristics of excluded studies

Study	Reason for exclusion
Bellamy2000 (UK)	Participants suffering from 'psychological problems' and not diagnosed as depressed
Friedli1997 (UK)	Participants suffering from 'emotional difficulty' and not diagnosed as depressed

Gordon1998	Not an RCT
Hemmings1997 (UK)	Includes participants with diagnoses other than depression
Mittelman1995 (US)	Only 40% of participants depressed; also, not randomised
Vonk1999 (US)	Participants suffering from 'psychiatric disorder' but not diagnosed as depressed

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Counselling - new studies in the guideline update

Comparisons Included in this Clinical Question

Counselling vs CBT	Counselling vs counselling
WATSON2003	GOLDMAN2006 GREENBERG1998

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
GOLDMAN2006				
<p>Study Type: RCT</p> <p>Type of Analysis: Completers (at least 8 sessions)</p> <p>Blindness: No mention</p> <p>Duration (days):</p> <p>Setting: US (advertisements)</p> <p>Notes: RANDOMISATION: no details</p>	<p>n= 38</p> <p>Age: Mean 40</p> <p>Sex: 14 males 24 females</p> <p>Diagnosis: 100% Major depression by DSM-IV</p> <p>Exclusions: Currently in treatment or on medication for depression; bipolar I, panic disorder; substance dependence; eating disorders; psychotic disorder; two or more schizotypal features; paranoid, borderline or antisocial personality disorders; in need of treatment focusing on other problems; in need of immediate crisis intervention; loss of a significant other in past year; victim of incest or sexual abuse; currently in physically abusive relationship</p> <p>Baseline: BDI: CCT 26.26 (7.35); EFT 26.21 (7.10)</p>	<p>Data Used</p> <p>SCL-90-R</p> <p>BDI endpoint</p> <p>Data Not Used</p> <p>Task-Specific Intervention Adherence Measure - not relevant</p> <p>Truax Accurate Empathy Scale - not relevant</p> <p>BLRI - not relevant</p> <p>Inventory of Interpersonal Problems (64 items) - not relevant</p> <p>Rosenberg Self-Esteem Scale - not relevant</p>	<p>Group 1 N= 19</p> <p>Client-centred treatment - 9-20 sessions (mean 16.84 [1.74])</p> <p>Group 2 N= 19</p> <p>Emotion-focused therapy - 9-20 sessions (mean 17.5 [3.25])</p>	<p>Funding: Ontario Mental Health Foundation grant and two National Institute of Mental Health grants</p>
GREENBERG1998				
<p>Study Type: RCT</p> <p>Type of Analysis: Completers (minimum 15 sessions completed)</p> <p>Blindness: No mention</p> <p>Duration (days):</p> <p>Setting: Canada (advertisements)</p> <p>Notes: RANDOMISATION: matched on SCL-90 depression score</p>	<p>n= 34</p> <p>Age: Mean 40</p> <p>Sex: 9 males 25 females</p> <p>Diagnosis: 100% Major depression by DSM-III-R</p> <p>Exclusions: GAS score <50; >3 prior episodes of MDD; currently in treatment for depression; severe difficulty with social and occupational functioning; judged better suited for psychopharmacological treatment; victims of incest; attempted suicide; lost significant other in past year; in physically violent relationship; misusing drugs or alcohol; eating disorder; antisocial or borderline personality disorder; bipolar or psychotic disorder</p> <p>Baseline: SCL-90-R depression subscale: CCT 2.45 (0.46); PE 2.72 (0.45)</p>	<p>Data Used</p> <p>SCL-90 endpoint</p> <p>BDI endpoint</p> <p>Data Not Used</p> <p>Truax Accurate Empathy Scale - not relevant</p> <p>BLRI - not relevant</p> <p>Working Alliance Inventory - not relevant</p> <p>Longitudinal Interval Follow-up Evaluation II - not relevant</p> <p>Taget complaints (TCBS) - not relevant</p> <p>Inventory of Interpersonal Problems (64 items) - not relevant</p> <p>Rosenberg Self-Esteem Scale - not relevant</p>	<p>Group 1 N= 17</p> <p>Client-centred treatment - 15 to 20 sessions</p> <p>Group 2 N= 17</p> <p>Process-experiential treatment - 15 to 20 sessions</p>	<p>Funding: grant from National Institute of Mental Health</p>
WATSON2003				
<p>Study Type: RCT</p> <p>Type of Analysis: 'ITT' (at least one session)</p> <p>Blindness:</p> <p>Duration (days): Mean 112</p> <p>Setting: Outpatient clinic (advertisements);</p>	<p>n= 93</p> <p>Age: Mean 42</p> <p>Sex: 31 males 62 females</p> <p>Diagnosis: 100% Major depression by DSM-IV</p>	<p>Data Used</p> <p>SCL-90 endpoint</p> <p>BDI endpoint</p> <p>Data Not Used</p> <p>PF-SOC - not relevant</p> <p>Dysfunctional Attitude Scale - not relevant</p> <p>Rosenberg Self-Esteem Scale - not relevant</p>	<p>Group 1 N= 45</p> <p>CBT - *ITT n randomised to each arm is unclear 16 sessions</p> <p>Group 2 N= 40</p> <p>Process-experiential treatment - *ITT n randomised to each arm is unclear</p>	<p>Funding: Grant from Social Sciences and Humanities Research Council of Canada</p>

	manic-depression, eating disorder, borderline, antisocial or schizotypal; high risk of suicide Baseline: BDI: CBT 25.09 (9.10); PE 24.50 (8.39)			
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Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
WARD2000	Not all sample was depressed. 62% depression.

References of Included Studies

GOLDMAN2006 (Published Data Only)

Goldman, R.N., Greenberg, L.S. & Angus, L. (2006) The effects of adding emotion-focused interventions to the client-centered relationship conditions in the treatment of depression. *Psychotherapy Research*, 16, 537-549.

GREENBERG1998 (Published Data Only)

Greenberg, L.S. (1998) Experiential therapy of depression: differential effects of client-centred relationship conditions and process experiential interventions. *Psychotherapy Research*, 8, 210-224.

WATSON2003 (Published Data Only)

Watson, J.C., Gordon, L.B., Stermac, L., Kalogerakos, F., & Steckley, P. (2003) Comparing the effectiveness of process-experiential with cognitive-behavioural psychotherapy in the treatment of depression. *Journal of Consulting and Clinical Psychology*, 71 (4), 773-781.

References of Excluded Studies

WARD2000 (Published Data Only)

Ward, E., King, M., Lloyd, M., et al. (2000) Randomised controlled trial of non-directive counselling, cognitive-behaviour therapy, and usual general practitioner care for patients with depression. I: Clinical effectiveness. *British Medical Journal*, 321, 1383-8.

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Psychological interventions in older adults – studies in previous guideline

Study	Source review
Reynolds1999 (US)	IPT
Reynolds199B (US)	IPT
Weissman1992 (US)	IPT
Thompson2001 (US)	CBT

Short-term psychological treatments – studies in previous guideline

Study	Source review
Bedi2000 (UK)	Counselling
Miranda2003 (US)	CBT
Mynors-Wallis1995	Problem solving
Mynors-Wallis2000	Problem solving
Scott1997 (UK)	CBT
Selmi1990 (US)	CBT
Shapiro1994 (Mild)	CBT
Shapiro1994 (Mod)	CBT
Shapiro1994 (UK)	CBT
Simpson2003 (UK)	Counselling
Ward20000 (UK)	Counselling

Short-term psychodynamic psychotherapy - studies in previous guideline

Characteristics of included studies

Study	Methods	Participants	Interventions	Outcomes	Notes	AC
Burnand 2002	Allocation: random (no details except stratified by presence of personality disorder, previous episodes, gender) Duration: 10 weeks	Outpatients referred for acute outpatient treatment at a community mental health centre N = 95; 45 female, mean age 36 Diagnosis: DSM-IV MDD and HRSD \geq 20 (mean baseline: combination 24.3 (+3.2); AD only 24 (+2.9))	1. Psychodynamic psychotherapy + clomipramine (dose as below) 2. Clomipramine 125 mg by day 6 (switched to 20-40mg citalopram in cases of bad side effects n=6) + supportive therapy (individual sessions aimed at providing empathetic listening, guidance, support and facilitation of an alliance by one carefully designated caregiver)	1. Leaving the study early for any reason 2. HRSD at endpoint (completers only) 3. Non-remitters (HRSD > 7) (from personal communication with authors)	Nursing teams were trained for 6 months in the use of specific manuals - those providing psychotherapy (n=4) had experience in crisis intervention practice under psychodynamic supervisions (>2 years) and received weekly supervisions with a psychoanalyst	B
Gallagher-Th94 (US)	Allocation: random (no details) Duration: 16-20 sessions, twice a week for first 4 weeks, then once a week for remainder of therapy (c20 weeks)	Outpatients - caregivers recruited through referrals from health care professionals approached by letter. N = 66, 61 female, mean age 62 (+9.7) Diagnosis: RDC definite or probable major depression (n=45), RDC minor depression (n=20) or intermittent depressive disorder (n=1) (mean baseline BDI 19.2 (+)). Cared for elderly relatives.	1. CT following Beck et al (1979) and Lewinsohn et al (1985) 2. Brief psychodynamic therapy (Mann, 1973)	1. Still meeting RDC criteria for major/minor/intermittent depression at endpoint and at 3-month follow-up 2. Leaving the study early	13 therapists, each saw at least 1 client. 4 were skilled in both therapies, so treated clients in both conditions. 2 had terminal master's degrees in social work, rest were PhD-level psychologists. All had at least 1 year of supervised experience doing psychotherapy with depressed elderly people. 1 and 2 not extracted: means/SDs presented by short-term or long-term carer, but not possible to discover 'n' used.	B

McLean 1979 (Can)	Allocation: random (no details) Duration: 10 weeks, weekly 1- hour sessions	Outpatients recruited through a 3-stage screening process: telephone, clinical interview and psychometric evaluation N = 154; out of initial 196 recruited, 141 female, mean age, 39.2 (+10.9) Diagnosis: Feighner et al (1972), MMPI >=25 for men, >=29.5 for women; BDI >=23; Lubin's Depression Adjective Check List >=14	1. Short-term psychotherapy - following Marmor (1973, 1975), Wolberg (1967), goals were development of insight through psychodynamic forces that initiated the current depression 2. Behaviour therapy - helped clients to avoid their negative and introspective cognitive habits 3. Amitriptyline started at 75 mg, raised to 150mg, weaned at the rate of 25mg/day 4. Relaxation therapy - goals were to appreciate the relation between muscle	1. Leaving the study early	7 female and 7 male therapists - licensed psychologists, physicians, or psychiatrists. Efficacy data not extracted since post-treatment sample included replacers.	B
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			tension and depression and to return to his or her level of pre-episode physical functioning by developing a significantly increased ability to relax tension in all muscle groups (data not extracted)			
Shapiro (Mild)	See Shapiro 1994.	Mild defined as BDI scores 16-20		See Shapiro 1994.	Data from mild, moderate and severe cases reported separately.	B
Shapiro (Mod)	See Shapiro 1994	Moderate defined as BDI scores 21-26		See Shapiro 1994.	Data from mild, moderate and severe cases reported separately.	
Shapiro 1994 (UK)	Allocation: random Duration: 8- &16-week versions of therapies (only 16 week extracted). 1-hour weekly sessions. Follow-up at 45 weeks after pre-screening - for 16-week therapy, equivalent to 15 weeks after end of treatment.	Outpatients, recruited from self-referrers responding to recommendations by occupational health personnel or responding to publicity materials distributed at the workplace or by GPs, or referred directly by GPs or mental health services. N = 117, 61 female, mean age 40.5 (+9.5) Diagnosis: DSM-III for MDD	1. CBT - a multimodal method somewhat more behavioural in emphasis than Beck et al, 1979. 2. Psychodynamic-interpersonal psychotherapy - based on Hobson's conversational model	BDI mean scores endpoint, 6-month and 12-month follow-up	Five therapists - UK-trained clinical psychologists, 2 had post-qualification training in PI methods and trained the others. All had at least 2 training cases in each treatment x duration conditions. Only data for 16-week therapy conditions extracted as most comparable with other studies. 25 participants on medication at beginning of study - not clear if still the case at the end.	

Characteristics of excluded studies

Study	Reason for exclusion
Barkham1996 (UK)	No extractable data
Kornblith1983 (US)	Participants not randomised to treatment groups
Lipman1976 (US)	Used brief supportive contact therapy; open-ended groups - depressed non-study patients used to maintain size of groups
Luborsky1996 (US)	Not an RCT
McLean1990 (Can)	No extractable data
McLean1992 (Can)	Dropouts replaced, not clear if randomly assigned
Solomon1995 (US)	Not an RCT
Thompson1987 (US)	(CBT vs psychodynamic) Not clear what N's are used in table reporting outcome measures; dropout data not fully reported

Short-term psychodynamic psychotherapy - new studies in the guideline update

Comparisons Included in this Clinical Question

Psychodynamic Psychotherapy + ADs vs Ads
KOOL2003

Psychodynamic Supportive Psychotherapy vs Psychodynamic Supportive Psychotherapy + Ads
DEJONGHE2004

Short-Term Psychodynamic Psychotherapy vs Ads
DEKKER2008
SALMINEN2008

Short-term Psychodynamic Psychotherapy vs Supportive Psychotherapy vs Waitlist control
MAINA2005

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
DEJONGHE2004				
<p>Study Type: RCT</p> <p>Type of Analysis: ITT (all entering treatment+ LOCF)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 182</p> <p>Setting: two outpatients clinics in Amsterdam, Holland.</p> <p>Notes: Randomisation: stratified by age and gender.</p> <p>Info on Screening Process: n=372 met criteria for depression, n=25 refused to participate, n=139 excluded as they scored <12 or >24 on the HRSD. N=208 randomised, but n=17 refused to participate after randomisation.</p>	<p>n= 191</p> <p>Age: Range 19-65</p> <p>Sex: 63 males 128 females</p> <p>Diagnosis: 100% Mild or Moderate major depression by DSM-IV</p> <p>Exclusions: <18 and >65 years old, not DSM-IV diagnosis of mild/moderate major depressive disorder, HRSD score of <12 or >24. Further criteria: psycho-organic disorder, drug misuse, a psychotic or dissociative disorder, considered too unreliable to participate (potential "doctor-shopping"), communicate problems, physical restrictions (holidays/leaving country), if participant was already adequately responding with antidepressants during the depressive episode, if they used psychotropic medication and if the participant wished to become pregnant. Participants were also excluded if they were considered "too ill" or "too suicidal" by the psychiatrist.</p> <p>Notes: Additional criteria: Participants were also required to score between 12-24 on the HRSD.</p> <p>Baseline: HRSD: Psychotherapy= 18.14 (3.37) Combined= 17.99 (3.57).</p>	<p>Data Used</p> <p>HRSD change score</p> <p>Remission on HDRS</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>Data Not Used</p> <p>SCL-D - Not relevant</p> <p>CGI-S/I - Not relevant</p> <p>Notes: Assessments made at baseline and week 24. Remission= final HRSD score of 7 or less</p>	<p>Group 1 N= 106</p> <p>Psychodynamic supportive psychotherapy - Consisted of up to 16 sessions delivered within a 6-month period.</p> <p>Group 2 N= 85</p> <p>Psychodynamic supportive psychotherapy - Consisted of up to 16 sessions delivered with a 6-month period.</p> <p>Pharmacological therapy - Participants started pharmacological treatment within 2 weeks of trial commencing. All participants started on venlafaxine, if unresponsive then switched to SSRI, TCA or lithium augmentation. Psychiatrist also made 8 follow-up appointments.</p>	<p>Supported by unrestricted educational grant from Wyeth Nederland.</p>
DEKKER2008				

<p>Study Type: RCT</p> <p>Type of Analysis: Completer</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 56</p> <p>Followup: Not reported</p> <p>Setting: Consecutive patients newly registered at two outpatient clinics in Amsterdam.</p> <p>Notes: Randomisation: no details of procedure.</p> <p>Info on Screening Process: of the n=204 suitable for this study, n=63 refused randomisation as wanted to choose their own treatment. Of those randomised (n=141), n=11 immediately left the Psychotherapy group, & n=19 left the Pharmacotherapy group. These were not included in analysis</p>	<p>n= 103</p> <p>Age: Range 20-65</p> <p>Sex: 27 males 76 females</p> <p>Diagnosis: 100% Moderate depressive episode by CIDI</p> <p>Exclusions: <18 and >65 years old, no DSM-IV diagnosis of depressive episode, HAM-D baseline score of <14 and >26. Further exclusion criteria: drug misuse, psychotic symptoms, communication problems affecting the trial, contraindication for antidepressants, using psychotropic medication other than prescribed in the pharmacotherapy protocol and pregnancy.</p> <p>Notes: Additional diagnosis: baseline HAM-D score between 14 and 26.</p> <p>Baseline: HAM-D score (per protocol sample): Psychotherapy = 20.4 (3.8); Pharmacotherapy = 19.8 (3.7).</p>	<p>Data Used</p> <p>Leaving study early for any reason HAM-D</p> <p>Data Not Used</p> <p>CGI-S/I - Not relevant SCL-90-R (depression) - Not relevant</p> <p>Notes: Scores taken at baseline and at 8 weeks.</p>	<p>Group 1 N= 59</p> <p>Psychodynamic Psychotherapy - Short-term psychodynamic supportive psychotherapy, 16 sessions, weekly for first 8 weeks, then given biweekly thereafter.</p> <p>Group 2 N= 44</p> <p>Pharmacological therapy - Venlafaxine. Starting dose of 75mg/day, increasing a maximum of 225mg/day. Clinical management also provided, 4 appointments biweekly, maximum duration of each was 20 minutes.</p>	<p>Supported by an unrestricted educational grant from Wyeth Nederland.</p>
<p>KOOL2003</p>				<p>97</p>

<p>Study Type: RCT</p> <p>Type of Analysis: 'ITT' all participants starting treatment (LOCF)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 168</p> <p>Setting: Outpatient clinic of Mentrum Mental Health Organisation, Amsterdam</p> <p>Notes: Randomisation: 4 blocks were formed, defined by sex and age.</p> <p>Info on Screening Process: n=525 were diagnosed with depression, but were not included in the study as 6% were under 18, 16% had a HAM-D-17 score <14, 6% refused to participate and 40% did not meet the inclusion criteria. N=167 randomised, n=38 refused proposed treatment.</p>	<p>n= 128</p> <p>Age: Mean 34 Range 20-60</p> <p>Sex: 49 males 79 females</p> <p>Diagnosis: 100% Major depression by DSM-III-R</p> <p>Exclusions: <18 and >60 years old, no DSM-II-R diagnosis of major depression, HAM-D-17 score <14. Further criteria included: considered 'too ill' or 'too suicidal' to participate, presentation of drug misuse or a psycho-organic, psychotic or dissociative disorder, and the participant not considered reliable enough to participate in the clinical trial (risk of "shopping" for other therapies was high).</p> <p>Notes: Additional: a score of at least 14 on the HAM-D-17 was also required.</p> <p>Baseline: HAM-D-17: a) with personality disorder; Pharm = 20.75 (4.31), Combined = 20.12 (4.97) b) without personality disorder; Pharm = 21.20 (5.64), Combined = 19.70 (4.80)</p>	<p>Data Used HAM-D Remission on HAM-D</p> <p>Data Not Used Quality of Life Depression Scale - Not relevant SCL-90-R (depression) - Not relevant CGI-S/I - Not relevant</p> <p>Notes: Scores taken at baseline and endpoint (week 24 mean). Remission = HAM-D-17 end score of 7 or less.</p>	<p>Group 1 N= 57 Pharmacological therapy - Intention was to continue medication for 6 months. Initially, participants were given fluoxetine 20mg/day, but this was switched to amitriptyline 100mg/day rising to 150mg/day or moclobemide 300mg/day in case of intolerance to fluoxetine</p> <p>Group 2 N= 72 Pharmacological therapy - Intention was to continue medication for 6 months. Initially, participants were given fluoxetine 20mg/day, but this was switched to amitriptyline 100mg/day rising to 150mg/day or moclobemide 300mg/day in case of intolerance to fluoxetine Psychodynamic supportive psychotherapy - 16 sessions of 45 minutes. The first 8 were weekly, the second 8 were biweekly. This started within two weeks of pharmacotherapy.</p>	<p>Supported by an unrestricted educational grant from Eli Lilly Nederland.</p>
<p>MAINA2005</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT (no participants dropped-out)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 161 Range 105-210</p> <p>Followup: 6 months</p> <p>Setting: Participants were recruited from the outpatient waiting list for BDT at the department of Neuroscience, University of Turin, Italy.</p> <p>Notes: Randomisation: Participants matched by diagnosis and level of education and randomised in three blocks of 10 subjects.</p> <p>Info on Screening Process: n=93 were screened, n=58 considered as they met inclusion criteria. N=3 refused consent and n=25 removed from study as they could not be matched.</p>	<p>n= 30</p> <p>Age: Mean 37 Range 18-60</p> <p>Sex: 11 males 19 females</p> <p>Diagnosis: 100% Minor depression or dysthymia by DSM-IV SCID</p> <p>Exclusions: <18 and >60 years old, no main diagnosis of dysthymia or minor depressive disorder according to the DSM-IV SCID, evidence of mental retardation, lifetime history or organic mental disorders, psychotic disorders, bipolar disorders or substance misuse, severe axis II psychopathology, current suicide ideation, current pharmacological treatment, evidence of severe or unstable or active neurological or physical diseases and having been on waiting list for no longer than 1 month. Further exclusion criteria: HAM-D score <8 and >15, CGI-S score <3.</p> <p>Notes: Additional: a score of between 8-15 on the HAM-D and a score of >2 on the CGI-S were also required for study inclusion.</p> <p>Baseline: BDT BSP WL HAM-D: 12.6 (2.7) 11.5 (2.7) 11.8 (2.3)</p>	<p>Data Used HAM-D</p> <p>Data Not Used HAM-A (anxiety) - Not relevant CGI-S/I - Not relevant</p> <p>Notes: Scores taken at baseline, endpoint and 6 months.</p>	<p>Group 1 N= 10 Brief Dynamic Therapy - brief form of psychotherapy. Sessions were weekly, lasting 45 minutes, individually administered. The number of sessions ranged from 15-30, the mean was 19.6.</p> <p>Group 2 N= 10 Brief Supportive Psychotherapy - Sessions were weekly, lasting 45 minutes, individually administered. The number of sessions ranged from 20-30, the mean was 18.6.</p> <p>Group 3 N= 10 Wait list - Contacted weekly by telephone in order to prevent their disappearance.</p>	<p>No details on funding.</p>
<p>SALMINEN2008</p>				

Study Type: RCT
Type of Analysis: ITT
Blindness: No mention
Duration (days): Mean 112
Followup: 4 months
Setting: Recruited participants through 5 occupational health services. Carried out in psychiatric clinics in Finland.
Notes: Randomisation: no details of procedure
Info on Screening Process: n=85 screened, n=34 failed to meet the inclusion criteria.

n= 51
Age: Mean 42 Range 20-60
Sex: 16 males 35 females
Diagnosis:
100% Mild or Moderate major depression by DSM-IV SCID
Exclusions: No DSM-IV diagnosis of a mild to moderate depressive episode, HDRS score <15, <20 and >60 years old, taken part in psychotherapeutic or psychopharmacological treatment in preceding 4 months, DSM-VI axis I or II comorbidity, severe somatic illness, contraindication to fluoxetine treatment.

Data Used
Remission measured by DSM-IV
Remission on HDRS
Leaving study due to side effects
Leaving study early for any reason
BDI (21 item)
HDRS (17 item)
Data Not Used
SOFAS - Not relevant

Group 1 N= 25
Pharmacological therapy - Fluoxetine for 16 weeks. Initial dose was 20mg/day, maximum increased up to 40mg/day if no response by weeks 3-4. Medication supervised by GP, met patient once or twice a month. No details of mean dose.
Group 2 N= 26
Psychodynamic Psychotherapy - consisted of 16 weekly sessions.

Financially supported by the Social Insurance Institution of Finland, and the Signe and Ane Gyllenberg Foundation, Helsinki.

	HDRS to be included in this study Baseline: HDRS BDI FLU 18.9 (3.4) 24.8 (7.5) PSY 18.3 (3.1) 22.8 (5.5)	Notes: Scores taken at baseline and 4 months. Remission on HDRS= scoring <8.		
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Characteristics of Excluded Studies

Reference ID	Reason for Exclusion
BARKMAN1999	Dropouts were replaced
BOND2006	Not an RCT
HOGLEND2008	Less than 50% had formal diagnosis of depression.
KNEKT2008	Not all participants met diagnosis for depression
PIPER1998	No relevant comparisons, not all sample depressed
SVARTBERG2004	Less than 50% have formal diagnosis of depression
THYME2007A	No relevant comparisons

References of Included Studies

DEJONGHE2004 (Published Data Only)

De Jonghe, F., Hendriksen, M., van Aalst, G., et al. (2004) Psychotherapy alone and combined with pharmacotherapy in the treatment of depression. *British Journal of Psychiatry*, 185, 37-45.

DEKKER2008 (Published Data Only)

Dekker, J.J.M., Koelen, J.A., Van, H.L., et al. (2008) Speed of action: The relative efficacy of short psychodynamic supportive psychotherapy and pharmacotherapy in the first 8 weeks of a treatment algorithm for depression. *Journal of Affective Disorders*, 109, 183-188.

KOOL2003 (Published Data Only)

Kool, S., Dekker, J., Duijsens, I.J., de Jonghe, F., & Puite, B. (2003) Efficacy of combined therapy and pharmacotherapy for depressed patients with or without personality disorders. *Harvard Review of Psychiatry*, 11(3), 133-141.

MAINA2005 (Published Data Only)

Mania, G., Forner, F., Bogetto, F. (2005) Randomized controlled trial comparing brief dynamic and supportive therapy with waiting list condition in minor depressive disorders. *Psychotherapy and Psychosomatics*, 74, 43-50.

SALMINEN2008 (Published Data Only)

Salminen, J.K., Karlsson, H., Hietala, J., et al. (2008) Short-term psychodynamic psychotherapy and fluoxetine in major depressive disorder: A randomized comparative study. *Psychotherapy and Psychosomatics*, 77, 351-357.

References of Excluded Studies

BARKMAN1999 (Published Data Only)

Barkman, M., Shapiro, D.A., Hardy, G.E., & Rees, A. (1999) Psychotherapy in two-plus-one sessions: Outcomes of a randomized controlled trial of cognitive-behavioural and psychodynamic-interpersonal therapy for subsyndromal depression. *Journal of Consulting and Clinical Psychology*, 67 (2), 201-211.

BOND2006

Bond, M. (2006) Psychodynamic psychotherapy in the treatment of mood disorders. *Current Opinion in Psychiatry*, 19, 40-43.

HOGLEND2008

Hoglend, P., Bogwald, K.P., Amlø, S., et al. (2008) Transference interpretations in dynamic psychotherapy: Do they really yield sustained effects? *American Journal of Psychiatry*, 165 (6), 763-771.

KNEKT2008

Knekt, P., Lindfors, O., Harkanen, T. et al. (2008) Randomized trial on the effectiveness of long- and short-term psychodynamic psychotherapy and solution-focused therapy on psychiatric symptoms during a 3-year follow-up. *Psychological Medicine*, 38, 689-703.

PIPER1998

(Published Data Only)

Piper, W.E., Joyce, A.S., McCallum, M., & Azim, H.F. (1998) Interpretive and supportive forms of psychotherapy and patient personality variables. *Journal Consulting and Clinical Psychology*, 66 (3), 558-567.

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SVARTBERG2004

Svartberg, M., Stiles, T.C., & Seltzer, M.H. (2004) Randomized, controlled trial of the effectiveness of short-term dynamic psychotherapy and cognitive therapy for cluster C personality disorders. *American Journal of Psychiatry*, 161 (5), 810-817.

THYME2007A

Thyme, K.E., Sundin, E.C., Stahlberg, G., Lindstrom, B., Eklof, H., & Wiberg, B. (2007) The outcome of short-term psychodynamic art therapy compared to short-term psychodynamic verbal therapy for depressed women. *Psychoanalytic Psychotherapy*, 21 (3), 250-264.

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Short-term psychodynamic psychotherapy - relapse prevention - new studies in the guideline update

Comparisons Included in this Clinical Question

Psychodynamic Psychotherapy + ADs vs ADs
MAINA2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes
<p>MAINA2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: ITT</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 180</p> <p>Followup: 48 month</p> <p>Setting: Mood and anxiety disorders unit, Department of Neuroscience, University of Turin (Italy)</p> <p>Notes: Randomisation: coloured balls withdrawn from a bag.</p> <p>Info on Screening Process: n=171 met inclusion criteria, n=20 excluded had no focal problem or precipitant life event, n=3 refused consent. N=148 entered acute phase, n=92 remitted and entered continuation treatment.</p>	<p>n= 92</p> <p>Age: Mean 36 Range 18-65</p> <p>Sex: 36 males 56 females</p> <p>Diagnosis: 100% Remission from major depression by DSM-IV SCID</p> <p>Exclusions: No primary diagnosis of MDD, single episode by the DSM-IV, baseline HAM-D >14, non-presence of a focal problem and/or of a recent precipitant life event, <18 and >65 years of age. Further criteria: evidence of mental retardation, lifetime history of organic mental disorders, severe axis II psychopathology, concomitant severe or unstable or active neurological or physical distress, substance and drug misuse, any contraindication for an antidepressant prescribed in the pharmacotherapy protocol, pregnancy or risk of pregnancy during the medication treatment phase of the study and suicidal risk.</p> <p>Notes: Additional: score of <15 on the HAM-D also required.</p> <p>Baseline: HAM-D: PP+ADs= 5.5 (1.2) ADs= 5.6 (1.3)</p>	<p>Data Used</p> <p>Recurrence (on HAM-D)</p> <p>HAM-D</p> <p>Data Not Used</p> <p>GAF-self - Not relevant</p> <p>CGI-S/I - Not relevant</p> <p>Notes: Assessments were taken at endpoint, 24 months and 48 months after treatment end.</p> <p>Recurrence: HAM-D score >12 for 2 consecutive visits</p>	<p>Group 1 N= 41</p> <p>Brief dynamic therapy + Pharmacotherapy. Mean dose 34mg/day - Individual sessions were weekly, lasting 45 minutes. Number of sessions ranged from 15-30 per participant. Pharmacotherapy protocol was same as that for the pharmacotherapy alone intervention.</p> <p>Group 2 N= 51</p> <p>Pharmacological therapy. Mean dose 34mg/day - Paroxetine or Citalopram provided at a minimum dose of 20mg/day, rising to 60mg/day. Clinical management was also provided by a psychiatrist.</p>	<p>No details</p>

References of Included Studies

MAINA2008 (Unpublished Data Only)

Maina, G., Rosso, G., & Bogetto, F. (2008) Brief dynamic therapy combined with pharmacotherapy in the treatment of major depressive disorder: Long-term results. Journal of Affective Disorders (in press).

Rational emotive behavioural therapy - new studies in the guideline update

Comparisons Included in this Clinical Question

Rational Emotive Behavioural therapy vs ADs vs Cognitive therapy
DAVID2008

Characteristics of Included Studies

Methods	Participants	Outcomes	Interventions	Notes									
<p>DAVID2008</p> <p>Study Type: RCT</p> <p>Type of Analysis: 'ITT' (but not at follow-up)</p> <p>Blindness: Single blind</p> <p>Duration (days): Mean 98</p> <p>Followup: 6 months</p> <p>Notes: Randomisation: stratified for previous episodes of depression, presence of dysthymia, sex and marital status.</p> <p>Info on Screening Process: n=323 assessed for eligibility, n=153 excluded (n=133 did not meet the inclusion criteria, and n=20 refused to participate).</p>	<p>n= 170</p> <p>Age: Mean 37</p> <p>Sex: 57 males 113 females</p> <p>Diagnosis:</p> <p>100% Major depression by DSM-IV SCID</p> <p>15% Dysthymia by DSM-IV SCID</p> <p>Exclusions: No DSM-IV diagnosis of major depression, psychiatric disorders (i.e. bipolar, or psychotic subtypes of depression, panic disorder, current substance misuse, past or present schizophrenia or schizophreniform disorder, organic brain syndrome, or mental retardation). Additionally excluded individuals in some concurrent psychotherapy, receiving psychotic medication, or needed to be hospitalised due to imminent suicide potential or psychosis.</p> <p>Notes: BDI-II score >19 and HRSD-17 score >13 also required.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Baseline: CBT</td> <td style="width: 33%;">REBT</td> <td style="width: 33%;">Pharmacotherapy</td> </tr> <tr> <td>HRSD 22.9 (7.02)</td> <td>23.1 (7.6)</td> <td>21.4 (8.03)</td> </tr> <tr> <td>BDI 29.9 (9.47)</td> <td>32.1 (11)</td> <td>30.6 (11.3)</td> </tr> </table>	Baseline: CBT	REBT	Pharmacotherapy	HRSD 22.9 (7.02)	23.1 (7.6)	21.4 (8.03)	BDI 29.9 (9.47)	32.1 (11)	30.6 (11.3)	<p>Data Used</p> <p>BDI-II</p> <p>HRSD</p> <p>Leaving study due to side effects</p> <p>Leaving study early for any reason</p> <p>Notes: Scores taken at baseline, 7 weeks, endpoint and 6-month follow-up.</p>	<p>Group 1 N= 57</p> <p>REBT - maximum of 20 sessions over 14 weeks. Sessions were 50 minutes long, held on an individual basis.</p> <p>Group 2 N= 56</p> <p>CBT - same schedule and session frequency as REBT intervention.</p> <p>Group 3 N= 57</p> <p>Pharmacological therapy. Mean dose 50mg/day - Fluoxetine. Starting dose was 10mg/day raising to a maximum 60-80mg/day. Dosage reduced to 20mg/day in weeks 12-14 in 53% of participants who fitted improvement criteria (HRSD<12). Pharmacotherapy sessions lasted around 30 minutes.</p>	<p>Funding support was provided by the Albert Ellis Institute, the National Council for Research and the Romanian Center for Cognitive and Behavioural Psychotherapies.</p>
Baseline: CBT	REBT	Pharmacotherapy											
HRSD 22.9 (7.02)	23.1 (7.6)	21.4 (8.03)											
BDI 29.9 (9.47)	32.1 (11)	30.6 (11.3)											

References of Included Studies

DAVID2008 (Published Data Only)

Sava, F.A., Yates, B.T., Lupu, V., Szentagotai, A., & David, D. (2009) Cost-effectiveness and cost-utility of cognitive therapy, rational emotive behavioural therapy, and fluoxetine (Prozac) in treating depression: A randomized clinical trial. *Journal of Clinical Psychology*, 65, 36-52.

*David, D., Szentagoti, A., Lupu, V., & Cosman, D. (2008) Rational emotive behaviour therapy, cognitive therapy, and medication in the treatment of major depressive disorder: A randomised clinical trial, posttreatment outcomes, and six-month follow-up. *Journal of Clinical Psychology*, 64, 728-746.

Studies included in previous guideline and excluded in the guideline update

Study ID	Previous guideline review	Reason for exclusion
BOWMAN1995	Self-help	Dropouts were replaced
WOLLERSHEIM1991	Self-help	n<10 in each arm
DOWRICK2000	Problem-solving therapy	<80% met criteria for diagnosis of depression
LEFF2000	Couples therapy	>50% dropout in one study arm
WARD2000	Counselling	<80% met criteria for diagnosis of depression; trial not completely randomised

