

## Online supplement

### Search strategy: MEDLINE, EMBASE, CINAHL, PsycINFO (OVID)

- 1 (depression or depressive disorder or depression, major or dysthymic disorder or seasonal affective disorder).sh,id.
- 2 (depression or depression, reactive or dysthymic disorder or seasonal affective disorder).sh,id.
- 3 (depression or agitated depression or atypical depression or depressive psychosis or dysphoria or dysthymia or endogenous depression or involutional depression or major depression or masked depression or melancholia or mourning syndrome or organic depression or postoperative depression or premenstrual dysphoric disorder or pseudodementia or reactive depression or recurrent brief depression or seasonal affective disorder).sh,id. or "mixed anxiety and depression"/ or "mixed depression and dementia"/
- 4 (major depression or anaclitic depression or dysthymic disorder or endogenous depression or reactive depression or recurrent depression or treatment resistant depression or atypical depression or pseudodementia or sadness or seasonal affective disorder).sh,id. or "depression (emotion)"/
- 5 (depress\$ or dysphori\$ or dysthym\$ or seasonal affective disorder\$).tw. or melanchol\$.ti,ab,sh,id.
- 6 (affective disorder or affective disorders or mood disorder or mood disorders).sh,id.
- 7 or/1-6
- 8 exp clinical trials/ or exp clinical trial/ or exp controlled clinical trials/
- 9 exp crossover procedure/ or exp cross over studies/ or exp crossover design/
- 10 exp double blind procedure/ or exp double blind method/ or exp double blind studies/ or exp single blind procedure/ or exp single blind method/ or exp single blind studies/
- 11 exp random allocation/ or exp randomization/ or exp random assignment/ or exp random sample/ or exp random sampling/
- 12 exp randomized controlled trials/ or exp randomized controlled trial/ or randomized controlled trials as topic/
- 13 (clinical adj2 trial\$).tw.
- 14 (crossover or cross over).tw.
- 15 (((single\$ or doubl\$ or trebl\$ or tripl\$) adj5 (blind\$ or mask\$ or dummy)) or (singleblind\$ or doubleblind\$ or trebleblind\$)).tw.
- 16 (placebo\$ or random\$).mp.
- 17 (clinical trial\$ or random\$).pt.
- 18 animals/ not (animals/ and human\$.mp.)
- 19 animal\$/ not (animal\$/ and human\$/)
- 20 (animal not (animal and human)).po.
- 21 (or/8-17) not (or/18-20)
- 22 and/7,21

**Table DS1** Included studies on pharmacological interventions for depression and chronic physical health problems

Study	Sample size	Age, mean	Setting	Country	Chronic physical health condition	Comparison groups	Duration	Double blinded
Bird 2000 <sup>81</sup>	191	54	Not reported	UK, Ireland, Belgium, Germany, Italy	Arthritis	SSRI v. TCA	8 weeks	Yes
Brown 2005 <sup>47</sup>	90	41	Asthma clinic	USA	Asthma	SSRI v. placebo	12 weeks	Yes
Costa 1985 <sup>73</sup>	73	52	Hospital	USA	Cancer	Mianserin v. placebo	4 weeks	Yes
Razavi 1996 <sup>27</sup>	91	53	Not reported	Various countries	Cancer	SSRI v. placebo	4 weeks	Yes
van Heeringen 1996 <sup>74</sup>	55	52	University hospital	Belgium	Cancer	Mianserin v. placebo	6 weeks	Yes
Holland 1998 <sup>77</sup>	38	50	Not reported	USA	Cancer	SSRI v. TCA	6 weeks	Yes
Pezzella 2001 <sup>78</sup>	179	51	Out-patients	Austria, Belgium, Canada, Germany, The Netherlands	Cancer	SSRI v. TCA	8 weeks	Yes
Fisch 2003 <sup>55</sup>	163	60	Oncology departments	USA	Cancer	SSRI v. placebo	12 weeks	Yes
Morrow 2003 <sup>57</sup>	549	56	Oncology clinic	USA	Cancer	SSRI v. placebo	Not reported	Yes
Musselman 2006 <sup>26</sup>	35	54	Not reported	USA	Cancer	SSRI v. TCA v. placebo	6 weeks	Yes
Nelson 1999 <sup>80</sup>	81	58	Not reported	USA	Cardiovascular disease	SSRI v. TCA	6 weeks	Yes
Pollock 2000 <sup>84</sup>	20	59	Not reported	USA	Cardiovascular disease	SSRI v. TCA	6 weeks	Yes
McFarlane 2001 <sup>60</sup>	38	62	Coronary care unit	Canada	Cardiovascular disease	SSRI v. placebo	25 weeks	Yes
Huang 2005 <sup>82</sup>	60	Not reported	Cardiology unit	China	Cardiovascular disease	SSRI v. TCA	10 weeks	Unclear
Gottlieb 2007 <sup>54</sup>	28	62	Heart failure clinic	USA	Cardiovascular disease	SSRI v. placebo	12 weeks	Yes
Lesperance 2007 <sup>35</sup>	284	58	Academic centres	Canada	Cardiovascular disease	SSRI v. placebo	12 weeks	Yes
Borson 1992 <sup>63</sup>	36	61	Veteran Affairs Medical Centers	USA	Chronic obstructive pulmonary disease	TCA v. placebo	12 weeks	Yes
Lacasse 2004 <sup>56</sup>	23	70	Respiratory care home service	Canada	Chronic obstructive pulmonary disease	SSRI v. placebo	12 weeks	Yes
Eiser 2005 <sup>46</sup>	28	66	Hospital	UK	Chronic obstructive pulmonary disease	SSRI v. placebo	6 weeks	Yes
Lustman 1997 <sup>67</sup>	28	45	Not reported	USA	Diabetes	TCA v. placebo	8 weeks	Yes
Lustman 2000 <sup>44</sup>	60	46	Not reported	USA	Diabetes	SSRI v. placebo	8 weeks	Yes
Paile-Hyvarinen 2003 <sup>45</sup>	15	61	Not reported	Finland	Diabetes	SSRI v. placebo	10 weeks	No
Gulseren 2005 <sup>86</sup>	23	57	Endocrinology unit	Turkey	Diabetes	Fluoxetine v. paroxetine	12 weeks	No
Lustman 2006 <sup>59</sup>	152	53	Out-patient clinic	USA	Diabetes	SSRI v. placebo	52 weeks	Yes
Paile-Hyvarinen 2007 <sup>58</sup>	49	59	Out-patients	Finland	Diabetes	SSRI v. placebo	25 weeks	Yes
Forest Research Institute 2007 <sup>43</sup>	168	54	Out-patients	USA	Diabetes	SSRI v. placebo	12 weeks	Yes
Robertson 1985 <sup>87</sup>	42	36	Hospital	UK	Epilepsy	TCA v. nomifensine	5 weeks	Yes
Li 2005 <sup>76</sup>	67	34	Neurology unit	China	Epilepsy	SSRI v. TCA	8 weeks	Unclear
Lakshmanan 1986 <sup>65</sup>	29	76	General medical ward	USA	General medical	TCA v. placebo	12 weeks	Yes
Schifano 1990 <sup>88</sup>	48	76	Not reported	Italy	General medical	Mianserin v. maprotiline	4 weeks	Uncertain
Tollefson 1993 <sup>42</sup>	596	Not reported	General medical	USA	General medical	SSRI v. placebo	6 weeks	Yes
Tan 1994 <sup>69</sup>	63	80	General medical	UK	General medical	TCA v. placebo	5 weeks	Yes
Evans 1997 <sup>49</sup>	82	82	General hospital	UK	General medical	SSRI v. placebo	8 weeks	Yes

(continued)

**Table DS1** Included studies on pharmacological interventions for depression and chronic physical health problems (*continued*)

Study	Sample size	Age, mean	Setting	Country	Chronic physical health condition	Comparison groups	Duration	Double blinded
Wermuth 1998 <sup>39</sup>	37	64	Out-patient	Denmark	General medical	SSRI v. placebo	6 weeks	Yes
Wise 2007 <sup>72</sup>	233	73	General medical	USA	General medical	Duloxetine v. placebo	1 week	Yes
Mauri 1994 <sup>40</sup>	26	35	Out-patient clinic	Italy	HIV	SSRI v. placebo	8 weeks	Yes
Rabkin 1994 <sup>68</sup>	97	38	Out-patients	USA	HIV	TCA v. placebo	6 weeks	Yes
Rabkin 1999 <sup>99</sup>	120	39	Out-patients	USA	HIV	SSRI v. placebo	8 weeks	Yes
Schwartz 1999 <sup>79</sup>	14	36	Not reported	USA	HIV	SSRI v. TCA	6 weeks	Yes
Rabkin 2004 <sup>52</sup>	123	41	Out-patients	USA	HIV	SSRI v. placebo	8 weeks	Yes
Ehde 2008 <sup>37</sup>	42	45	Out-patients	USA	Multiple sclerosis	SSRI v. placebo	12 weeks	Yes
Strik 2000 <sup>34</sup>	54	56	Departments of cardiology and psychiatry	The Netherlands	Myocardial infarction	SSRI v. placebo	9 weeks	Yes
Glassman 2002 <sup>36</sup>	369	57	Out-patient cardiology and psychiatry units	USA	Myocardial infarction	SSRI v. placebo	24 weeks	Yes
van den Brink 2002 <sup>71</sup>	94	58	Cardiology unit	USA	Myocardial infarction	Mirtazapine v. placebo	8 weeks	Yes
Andersen 1980 <sup>62</sup>	22	59	Not reported	Denmark	Parkinson's disease	TCA v. placebo	Not reported	Yes
Leentjens 2003 <sup>51</sup>	12	67	Not reported	The Netherlands	Parkinson's disease	SSRI v. placebo	9 weeks	Yes
Antonini 2006 <sup>83</sup>	31	70	Not reported	Italy	Parkinson's disease	SSRI v. TCA	12 weeks	No
Devos 2008 <sup>50</sup>	48	62	Not reported	France	Parkinson's disease	SSRI v. TCA v. placebo	4 weeks	Yes
Menza 2008 <sup>38</sup>	52	63	Not reported	USA	Parkinson's disease	SSRI v.TCA v. placebo	8 weeks	Yes
Blumenfield 1997 <sup>48</sup>	14	Not reported	Hospital	USA	Renal dialysis	SSRI v. placebo	8 weeks	Yes
Lipsey 1984 <sup>66</sup>	34	61	Rehabilitation hospital	USA	Stroke	TCA v. placebo	6 weeks	Yes
Anderson 1994 <sup>32</sup>	66	67	Hospital	Denmark	Stroke	SSRI v. placebo	6 weeks	Yes
Raffaele 1996 <sup>70</sup>	22	70	Stroke rehabilitation programme	Italy	Stroke	Trazodone v. placebo	8 weeks	Unclear
Kimura 2000 <sup>64</sup>	47	60	Hospital	USA	Stroke	TCA v. placebo	12 weeks	Yes
Robinson 2000 <sup>30</sup>	56	67	Rehabilitation centre	USA	Stroke	SSRI v. TCA v. placebo	12 weeks	Yes
Wiart 2000 <sup>33</sup>	31	68	Neurorehabilitation unit	France	Stroke	SSRI v. placebo	6 weeks	Yes
Yang 2002 <sup>53</sup>	121	64	Out-patients	China	Stroke	SSRI v. Placebo	16 weeks	Uncertain
Chen 2002 <sup>29</sup>	60	Not reported	Hospital	China	Stroke	SSRI v. TCA v. placebo	8 weeks	Unclear
Fruehwald 2003 <sup>31</sup>	54	64	Neurorehabilitation unit	France	Stroke	SSRI v. placebo	12 weeks	Yes
Murray 2005 <sup>28</sup>	123	71	Central pharmacy	Sweden	Stroke	SSRI v. placebo	25 weeks	Yes
Zhao 2005 <sup>85</sup>	102	59	Community hospital	China	Stroke	Citalopram v. venlafaxine	6 weeks	Uncertain

SSRIs, selective serotonin reuptake inhibitors; TCAs, tricyclic antidepressants.