

# NKR53\_ Demens og adfærd\_PICO9\_SSRI

## Review information

### Authors

Sundhedsstyrelsen<sup>1</sup>

<sup>1</sup>[Empty affiliation]

Citation example: S. NKR53\_ Demens og adfærd\_PICO9\_SSRI. Cochrane Database of Systematic Reviews [Year], Issue [Issue].

## Characteristics of studies

### Characteristics of included studies

#### *Banerjee 2011*

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Orgeta, Vasiliki, et al. "Efficacy of Antidepressants for Depression in Alzheimer's Disease: Systematic Review and Meta-Analysis." <i>Journal of Alzheimer's Disease</i> 58.3 (2017): 725-733.

### Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	
Allocation concealment (selection bias)	Unclear risk	
Blinding of participants and personnel (performance bias)	Unclear risk	
Blinding of outcome assessment (detection bias)	Unclear risk	
Incomplete outcome data (attrition bias)	Unclear risk	
Selective reporting (reporting bias)	Unclear risk	
Other bias	Unclear risk	

### Finkel 2004

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	<p>For more information see:            Jones, Helen E., et al. "The effect of treatment with selective serotonin reuptake inhibitors in comparison to placebo in the progression of dementia: a systematic review and meta-analysis."  <i>Age and ageing</i> 45.4 (2016): 448-456.</p>

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Incomplete outcome data (attrition bias)	Unclear risk	
Selective reporting (reporting bias)	Unclear risk	
Other bias	Unclear risk	

### Leonpacher 2016

<b>Methods</b>	<p><b>Study design:</b> Randomized controlled trial</p> <p><b>Study grouping:</b> Parallel group</p>
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention 1</p> <ul style="list-style-type: none"> <li>● <i>Age. Mean, SD:</i> 78 (9)</li> <li>● <i>MMSE. Mean, SD:</i> 17.0 (6.2)</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Age. Mean, SD:</i> 79 (8)</li> <li>● <i>MMSE. Mean, SD:</i> 14.4 (6.9)</li> </ul> <p><b>Included criteria:</b> To summarize, 186 study participants were diagnosed with probable Alzheimer's disease as defined by the National Institute of Neurological and Communicative Disorders and Stroke-Alzheimer's Disease and Related Disorders Association criteria (26) and had Mini-Mental State Examination (27) scores ranging from 5 to 28. Additional inclusion criteria included "clinically significant agitation" for which a physician determined that medication was appropriate and which was rated as occurring "very frequently" or "frequently" with "moderate" or "marked" severity, as assessed by the agitation/aggression item of the NPI.</p> <p><b>Excluded criteria:</b> Exclusion criteria included a current major depressive episode or psychosis requiring antipsychotic treatment. A readily available caregiver was required, to provide information for outcome measures and to supervise medication use.</p> <p><b>Pretreatment:</b> The baseline characteristics were similar between the citalopram and placebo groups, except that the placebo group had a lower mean score on the Mini-Mental State Examination</p>

<b>Interventions</b>	<b>Intervention Characteristics</b> Intervention 1 <ul style="list-style-type: none"> <li>● <i>Description</i>: Citalopram 30mg/day</li> <li>● <i>Length of treatment</i>: 9 weeks</li> <li>● <i>Longest follow-up after end of treatment</i>: none</li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Description</i>: placebo</li> <li>● <i>Length of treatment</i>: 9 weeks</li> <li>● <i>Longest follow-up after end of treatment</i>: none</li> </ul>
<b>Outcomes</b>	<i>BPSD (NPI, non-mood subscale)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul>
<b>Identification</b>	<b>Sponsorship source</b> : Supported by National Institute on Aging (NIA) and NIMH grantR01AG031348, and in part by NIH grant P50-AG05142 (to University of Southern California and Dr. Schneider). <b>Country</b> : USA <b>Setting</b> : Multicenter <b>Comments</b> : ClinicalTrials.gov identifier: NCT00898807 <b>Authors name</b> : Leonpacher <b>Institution</b> : Department of Psychiatry <b>Email</b> : anton_porsteinsson@urmc.rochester.edu
<b>Notes</b>	

### Risk of bias table

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Low risk	Judgement Comment: From Drye 2012: Participants are randomized in a 1:1 ratio to receive citalopram or matching placebo. The treatment assignment schedule was created by the coordinating center using a documented, auditable SAS program (SAS/STAT® software, Version 9.1 of the SAS System for Windows; Copyright © 2000–2004 SAS Institute Inc, Cary NC, USA) and was generated in blocks of permuted length and stratified by clinical center. Clinical centers request treatment assignments using an online program

		accessible via the CitAD data system.
Allocation concealment (selection bias)	Low risk	Judgement Comment: From Drye 2012: The corresponding medication kits are packaged by the Johns Hopkins Bayview Medical Center Pharmacy to contain either citalopram or placebo according to the treatment assignment schedule and are labeled by medication kit ID only. Masking is accomplished by over-encapsulating citalopram tablets and creating matching placebos both backfilled with microcrystalline cellulose into opaque capsules.
Blinding of participants and personnel (performance bias)	Low risk	Judgement Comment: Treatments are administered in a double-masked fashion; participants, their caregivers and clinical center personnel are all masked to treatment assignment.
Blinding of outcome assessment (detection bias)	Unclear risk	Judgement Comment: Nothing mentioned on outcome assessors
Incomplete outcome data (attrition bias)	Low risk	Judgement Comment: Porsteinsson et al (ref 20) provide a flowchart including dropouts. Reasons for missing data are provided and balanced between groups
Selective reporting (reporting bias)	Low risk	Judgement Comment: Matches study protocol.
Other bias	Low risk	Judgement Comment: No other apparent sources of bias

### Lyketsos 2003

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Orgeta, Vasiliki, et al. "Efficacy of Antidepressants for Depression in Alzheimer's Disease: Systematic Review and Meta-Analysis." <i>Journal of Alzheimer's Disease</i> 58.3 (2017): 725-733.

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Incomplete outcome data (attrition bias)	Unclear risk	
Selective reporting (reporting bias)	Unclear risk	
Other bias	Unclear risk	

### Magai 2000

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Orgeta, Vasiliki, et al. "Efficacy of Antidepressants for Depression in Alzheimer's Disease: Systematic Review and Meta-Analysis." <i>Journal of Alzheimer's Disease</i> 58.3 (2017): 725-733.

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Selective reporting (reporting bias)	Unclear risk	
Other bias	Unclear risk	

**Petracca 2001**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Orgeta, Vasiliki, et al. "Efficacy of Antidepressants for Depression in Alzheimer's Disease: Systematic Review and Meta-Analysis." <i>Journal of Alzheimer's Disease</i> 58.3 (2017): 725-733.

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Other bias	Unclear risk	

**Pollock 2002**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Jones, Helen E., et al. "The effect of treatment with selective serotonin reuptake inhibitors in comparison to placebo in the progression of dementia: a systematic review and meta-analysis." <i>Age and ageing</i> 45.4 (2016): 448-456.

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**Porsteinsson 2014**



<b>Methods</b>	
<b>Participants</b>	
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Other bias	Unclear risk	

### *Rosenberg 2010*

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	

<b>Identification</b>	
<b>Notes</b>	For more information see: Orgeta, Vasiliki, et al. "Efficacy of Antidepressants for Depression in Alzheimer's Disease: Systematic Review and Meta-Analysis." <i>Journal of Alzheimer's Disease</i> 58.3 (2017): 725-733.

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### Weintraub 2010

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information see: Jones, Helen E., et al. "The effect of treatment with selective serotonin reuptake inhibitors in comparison to placebo in the progression of dementia: a systematic review and meta-analysis." <i>Age and ageing</i> 45.4 (2016): 448-456.

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Incomplete outcome data (attrition bias)	Unclear risk	
Selective reporting (reporting bias)	Unclear risk	
Other bias	Unclear risk	

## Footnotes

## Characteristics of excluded studies

**An 2017**

Reason for exclusion	Wrong intervention
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**Auer 1996**

Reason for exclusion	Wrong outcomes
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**Banerjee 2013**

Reason for exclusion	Wrong patient population
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**Callegari 2016**

Reason for exclusion	Wrong intervention
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**Lyketsos 2016**

Reason for exclusion	Abstract only
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**Mowla 2007**

Reason for exclusion	Wrong patient population
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**Nyth 1992**

Reason for exclusion	Wrong patient population
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**Olafsson 1992**

Reason for exclusion	Wrong patient population
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**Schneider 2016**

Reason for exclusion	Wrong study design
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**Viscogliosi 2017**

Reason for exclusion	Wrong comparator
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*Footnotes*

## References to studies

### Included studies

#### ***Banerjee 2011***

Banerjee, S.; Hellier, J.; Dewey, M.; Romeo, R.; Ballard, C.; Baldwin, R.; Bentham, P.; Fox, C.; Holmes, C.; Katona, C.; Knapp, M.; Lawton, C.; Lindsay, J.; Livingston, G.; McCrae, N.; Moniz-Cook, E.; Murray, J.; Nurock, S.; Orrell, M.; O'Brien, J.; Poppe, M.; Thomas, A.; Walwyn, R.; Wilson, K.; Burns, A.. Sertraline or mirtazapine for depression in dementia (HTA-SADD): a randomised, multicentre, double-blind, placebo-controlled trial. *Lancet* (London, England) 2011;378(9789):403-411. [DOI: 10.1016/S0140-6736(11)60830-1 [doi]]

#### ***Finkel 2004***

Finkel, S. I.; Mintzer, J. E.; Dysken, M.; Krishnan, K. R.; Burt, T.; McRae, T.. A randomized, placebo-controlled study of the efficacy and safety of sertraline in the treatment of the behavioral manifestations of Alzheimer's disease in outpatients treated with donepezil. *International journal of geriatric psychiatry* 2004;19(1):9-18. [DOI: 10.1002/gps.998 [doi]]

#### ***Leonpacher 2016***

Leonpacher, Anne K.; Peters, Matthew E.; Drye, Lea T.; Makino, Kelly M.; Newell, Jeffery A.; Devanand, D. P.; Frangakis, Constantine; Munro, Cynthia A.; Mintzer, Jacobo E.; Pollock, Bruce G.; Rosenberg, Paul B.; Schneider, Lon S.; Shade, David M.; Weintraub, Daniel; Yesavage, Jerome; Lyketsos, Constantine G.; Porsteinsson, Anton P.; CitAD, Research Group. Effects of Citalopram on Neuropsychiatric Symptoms in Alzheimer's Dementia: Evidence From the CitAD Study. *The American Journal of Psychiatry* 2016;173(5):473-80. [DOI: <https://dx.doi.org/10.1176/appi.ajp.2016.15020248>]

#### ***Lyketsos 2003***

Lyketsos, C. G.; DelCampo, L.; Steinberg, M.; Miles, Q.; Steele, C. D.; Munro, C.; Baker, A. S.; Sheppard, J. M.; Frangakis, C.; Brandt, J.; Rabins, P. V.. Treating depression in Alzheimer disease: efficacy and safety of sertraline therapy, and the benefits of depression reduction: the DIADS. *Archives of General Psychiatry* 2003;60(7):737-746. [DOI: 10.1001/archpsyc.60.7.737 [doi]]

#### ***Magai 2000***

Magai, C.; Kennedy, G.; Cohen, C. I.; Gomberg, D.. A controlled clinical trial of sertraline in the treatment of depression in nursing home patients with late-stage Alzheimer's disease. *The American Journal of Geriatric Psychiatry : Official Journal of the American Association for Geriatric Psychiatry* 2000;8(1):66-74. [DOI: S1064-7481(12)61000-8 [pii]]

***Petracca 2001***

Petracca, G. M.; Chemerinski, E.; Starkstein, S. E.. A double-blind, placebo-controlled study of fluoxetine in depressed patients with Alzheimer's disease. *International psychogeriatrics* 2001;13(2):233-240. [DOI: ]

***Pollock 2002***

Pollock, B. G.; Mulsant, B. H.; Rosen, J.; Sweet, R. A.; Mazumdar, S.; Bharucha, A.; Marin, R.; Jacob, N. J.; Huber, K. A.; Kastango, K. B.; Chew, M. L.. Comparison of citalopram, perphenazine, and placebo for the acute treatment of psychosis and behavioral disturbances in hospitalized, demented patients. *The American Journal of Psychiatry* 2002;159(3):460-465. [DOI: 10.1176/appi.ajp.159.3.460 [doi]]

***Porsteinsson 2014***

Porsteinsson, A. P.; Drye, L. T.; Pollock, B. G.; Devanand, D. P.; Frangakis, C.; Ismail, Z.; Marano, C.; Meinert, C. L.; Mintzer, J. E.; Munro, C. A.; Pelton, G.; Rabins, P. V.; Rosenberg, P. B.; Schneider, L. S.; Shade, D. M.; Weintraub, D.; Yesavage, J.; Lyketsos, C. G.; CitAD Research Group. Effect of citalopram on agitation in Alzheimer disease: the CitAD randomized clinical trial. *Jama* 2014;311(7):682-691. [DOI: 10.1001/jama.2014.93 [doi]]

***Rosenberg 2010***

Rosenberg, P. B.; Drye, L. T.; Martin, B. K.; Frangakis, C.; Mintzer, J. E.; Weintraub, D.; Porsteinsson, A. P.; Schneider, L. S.; Rabins, P. V.; Munro, C. A.; Meinert, C. L.; Lyketsos, C. G.; DIADS-2 Research Group. Sertraline for the treatment of depression in Alzheimer disease. *The American Journal of Geriatric Psychiatry : Official Journal of the American Association for Geriatric Psychiatry* 2010;18(2):136-145. [DOI: 10.1097/JGP.0b013e3181c796eb [doi]]

***Weintraub 2010***

Weintraub, D.; Rosenberg, P. B.; Drye, L. T.; Martin, B. K.; Frangakis, C.; Mintzer, J. E.; Porsteinsson, A. P.; Schneider, L. S.; Rabins, P. V.; Munro, C. A.; Meinert, C. L.; Lyketsos, C. G.; DIADS-2 Research Group. Sertraline for the treatment of depression in Alzheimer disease: week-24 outcomes. *The American Journal of Geriatric Psychiatry : Official Journal of the American Association for Geriatric Psychiatry* 2010;18(4):332-340. [DOI: 10.1097/JGP.0b013e3181cc0333 [doi]]

**Excluded studies*****An 2017***

An, Hoyoung; Choi, Booyeol; Park, Kun-Woo; Kim, Do-Hoon; Yang, Dong-Won; Hong, Chang Hyung; Kim, Seong Yoon; Han, Seol-Heui. The Effect of Escitalopram on Mood and Cognition in Depressive Alzheimer's Disease Subjects. *Journal of Alzheimer's disease : JAD* 2017;55(2):727-735. [DOI: ]

**Auer 1996**

Auer, SR; Monteiro, I.; Torossian, C.; Sinaiko, E.; Boksay, I.; Reisberg, B.. The treatment of behavioral symptoms in dementia: haloperidol, thioridazine, and fluoxetine: a double blind, placebo controlled eighth month study. In: Fifth International Conference on Alzheimer's Disease and Related Disorders, Osaka, Japan, July 24–29, 1996. 1996;(Report):S162. [DOI: ]

**Banerjee 2013**

Banerjee, S.; Hellier, J.; Romeo, R.; Dewey, M.; Knapp, M.; Ballard, C.; Baldwin, R.; Bentham, P.; Fox, C.; Holmes, C.; Katona, C.; Lawton, C.; Lindesay, J.; Livingston, G.; McCrae, N.; Moniz-Cook, E.; Murray, J.; Nurock, S.; Orrell, M.; O'Brien, J.; Poppe, M.; Thomas, A.; Walwyn, R.; Wilson, K.; Burns, A.. Study of the use of antidepressants for depression in dementia: the HTA-SADD trial--a multicentre, randomised, double-blind, placebo-controlled trial of the clinical effectiveness and cost-effectiveness of sertraline and mirtazapine. Health technology assessment (Winchester, England) 2013;17(7):1-166. [DOI: 10.3310/hta17070 [doi]]

**Callegari 2016**

Callegari, Ilaria; Mattei, Chiara; Benassi, Francesca; Krueger, Frank; Grafman, Jordan; Yaldizli, Ozgur; Sassos, Davide; Massucco, Davide; Scialo, Carlo; Nobili, Flavio; Serrati, Carlo; Amore, Mario; Cocito, Leonardo; Emberti Gialloreti, Leonardo; Pardini, Matteo. Agomelatine Improves Apathy in Frontotemporal Dementia. Neuro-degenerative diseases 2016;16(5-6):352-6. [DOI: <https://dx.doi.org/10.1159/000445873>]

**Lyketsos 2016**

Lyketsos C.G.; Pollock B.G.; Schneider L.; Porsteinsson A.P.. Citalopram for agitation in ad (CitAD): Pharmacokinetic studies, subgroup analyses, and effect on other neuropsychiatric symptoms. American Journal of Geriatric Psychiatry 2016;24(3):S36-S37. [DOI: ]

**Mowla 2007**

Mowla, A.; Mosavinasab, M.; Haghshenas, H.; Borhani Haghghi, A.. Does serotonin augmentation have any effect on cognition and activities of daily living in Alzheimer's dementia? A double-blind, placebo-controlled clinical trial. Journal of clinical psychopharmacology 2007;27(5):484-487. [DOI: 10.1097/jcp.0b013e31814b98c1 [doi]]

**Nyth 1992**

Nyth, A. L.; Gottfries, C. G.; Lyby, K.; Smedegaard-Andersen, L.; Gylding-Sabroe, J.; Kristensen, M.; Refsum, H. -E; Öfsti, E.; Eriksson, S.; Syversen, S.. A controlled multicenter clinical study of citalopram and placebo in elderly depressed patients with and without concomitant dementia. Acta Psychiatrica Scandinavica 1992;86(2):138-145. [DOI: 10.1111/j.1600-0447.1992.tb03242.x]

**Olafsson 1992**

Olafsson, K.; Jorgensen, S.; Jensen, H. V.; Bille, A.; Arup, P.; Andersen, J.. Fluvoxamine in the treatment of demented elderly patients: a double-blind, placebo-controlled study. *Acta Psychiatrica Scandinavica* 1992;85(6):453-456. [DOI: ]

**Schneider 2016**

Schneider, Lon S.; Frangakis, Constantine; Drye, Lea T.; Devanand, D. P.; Marano, Christopher M.; Mintzer, Jacob; Mulsant, Benoit H.; Munro, Cynthia A.; Newell, Jeffery A.; Pawluczyk, Sonia; Pelton, Gregory; Pollock, Bruce G.; Porsteinsson, Anton P.; Rabins, Peter V.; Rein, Lisa; Rosenberg, Paul B.; Shade, David; Weintraub, Daniel; Yesavage, Jerome; Lyketsos, Constantine G.; CitAD, Research Group. Heterogeneity of Treatment Response to Citalopram for Patients With Alzheimer's Disease With Aggression or Agitation: The CitAD Randomized Clinical Trial. *The American Journal of Psychiatry* 2016;173(5):465-72. [DOI: <https://dx.doi.org/10.1176/appi.ajp.2015.15050648>]

**Viscogliosi 2017**

Viscogliosi G.; Chiriac I.M.; Ettorre E.. Efficacy and Safety of Citalopram Compared to Atypical Antipsychotics on Agitation in Nursing Home Residents With Alzheimer Dementia. *Journal of the American Medical Directors Association* 2017;18(9):799-802. [DOI: <http://dx.doi.org/10.1016/j.jamda.2017.06.010>]

**Data and analyses****2 SSRI vs Control**

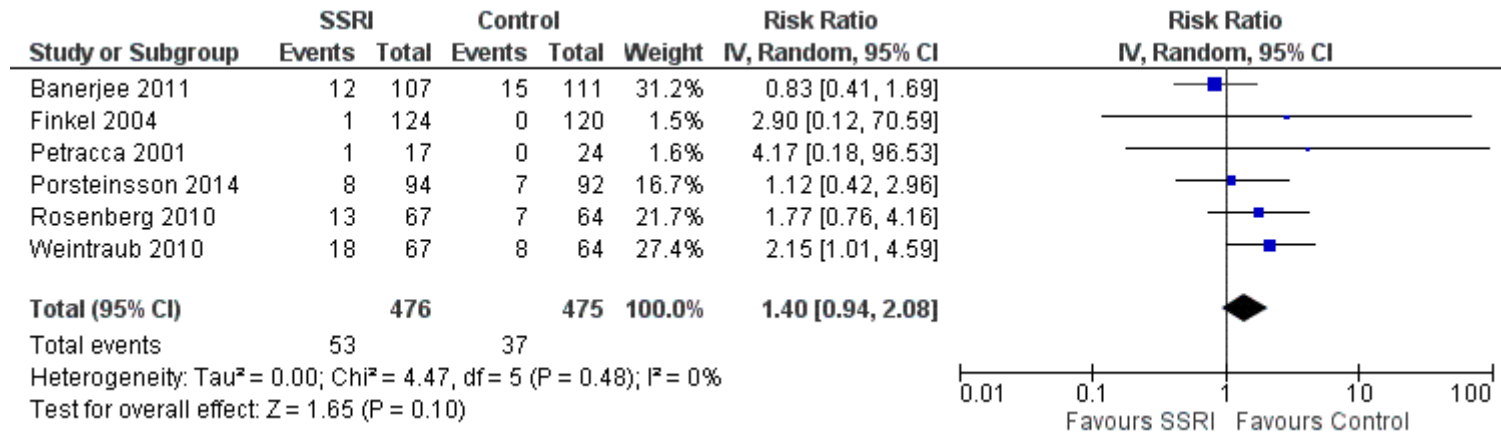
Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
2.1 Serious adverse events	6	951	Risk Ratio (IV, Random, 95% CI)	1.40 [0.94, 2.08]
2.2 Usage of antipsychotics	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
2.3 Mortality	3	535	Risk Ratio (IV, Random, 95% CI)	0.80 [0.27, 2.32]
2.4 BPSD (NPI+Neurobehavioural rating scale+nonmood.) End of treatment	7		Std. Mean Difference (IV, Random, 95% CI)	-0.19 [-0.48, 0.10]
2.11 BPSD (NPI) Longest follow-up	1		Mean Difference (IV, Fixed, 95% CI)	2.02 [-2.94, 6.98]
2.13 Kognition	7	786	Std. Mean Difference (IV, Random, 95% CI)	-0.09 [-0.39, 0.20]



2.14 ADL (ADCS-ADL + PGDRS+ functional impairment+ BADL)	5		Std. Mean Difference (IV, Random, 95% CI)	0.02 [-0.20, 0.24]
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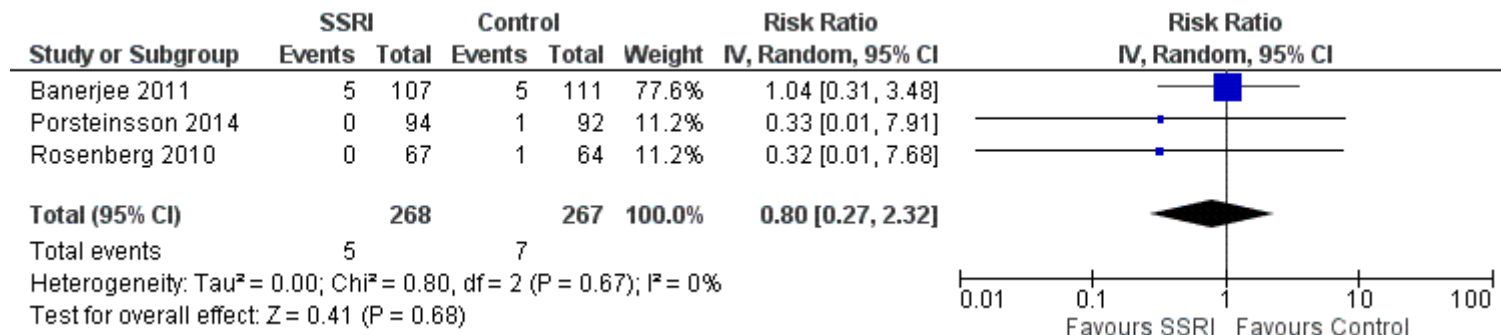
## Figures

Figure 1 (Analysis 2.1)



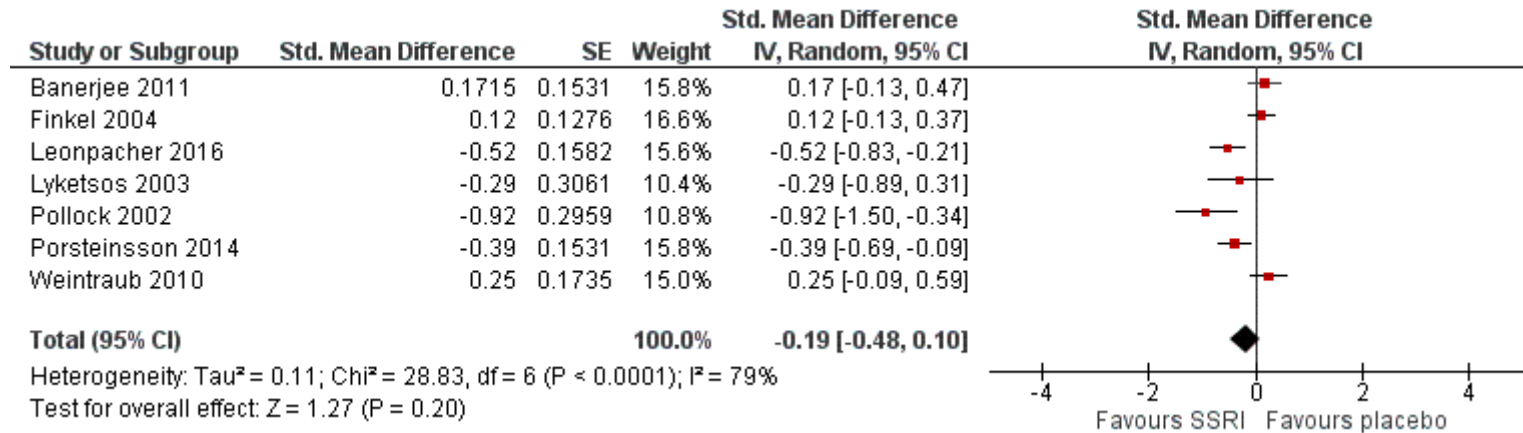
Forest plot of comparison: 2 SSRI vs Control, outcome: 2.1 Serious adverse events.

Figure 2 (Analysis 2.3)



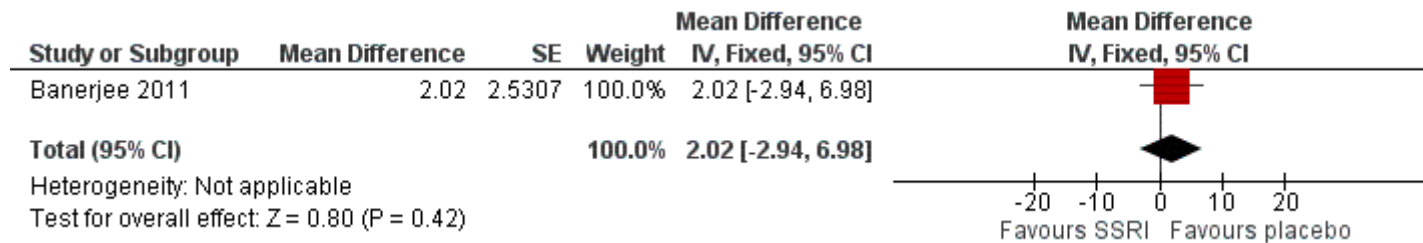
Forest plot of comparison: 2 SSRI vs Control, outcome: 2.3 Mortality.

Figure 3 (Analysis 2.4)



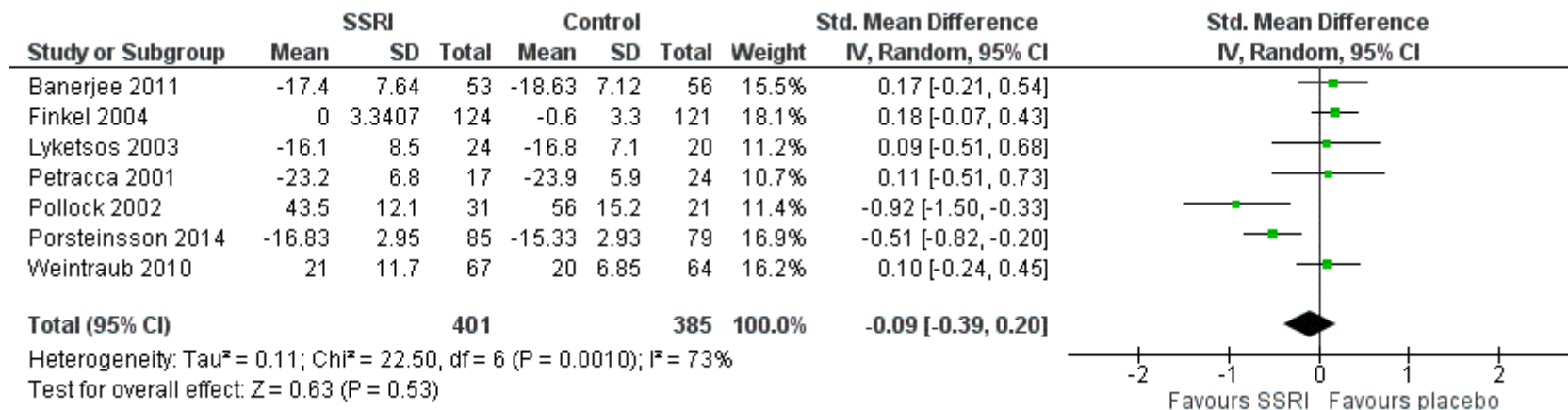
Forest plot of comparison: 2 SSRI vs Control, outcome: 2.4 BPSD (NPI+Neurobehavioural rating scale+nonmood.) End of treatment.

Figure 4 (Analysis 2.11)



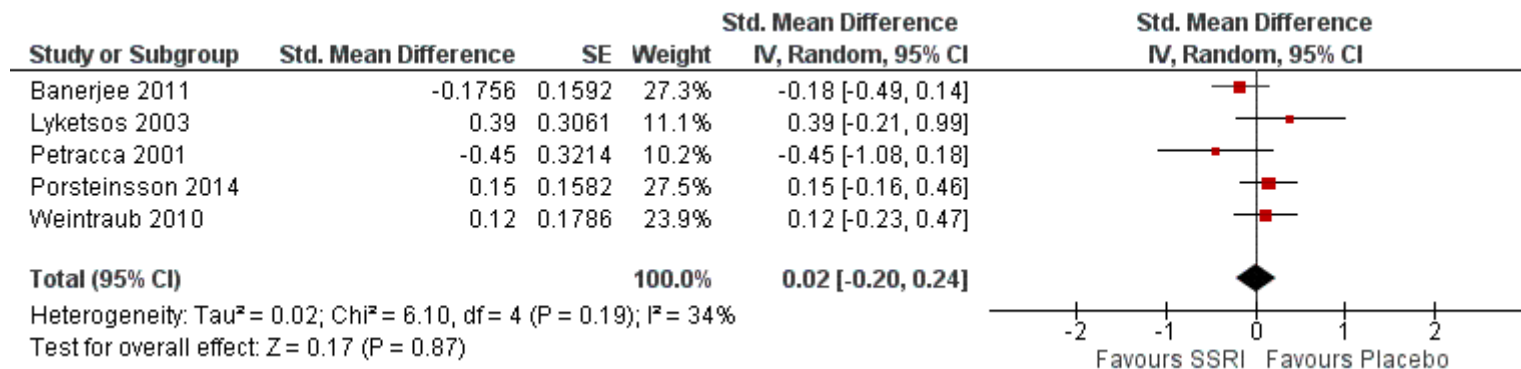
Forest plot of comparison: 2 SSRI vs Control, outcome: 2.11 BPSD (NPI) Longest follow-up.

Figure 5 (Analysis 2.13)



Forest plot of comparison: 2 SSRI vs Control, outcome: 2.13 Kognition.

Figure 6 (Analysis 2.14)



Forest plot of comparison: 2 SSRI vs Control, outcome: 2.14 ADL (ADCS-ADL + PGDRS+ functional impairment+ BADL).