Dementia and Antipsychotic Treatment: Literature Search Strategies

Use of second generation antipsychotic agents for off-label uses including dementia

These searches were conducted on 02/03/13 and were an extension of the search strategy used for the AHRQ review of Maglione et al. (2011).

**MEDLINE (PubMed)**

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### PsycInfo

| S1          | olanzapine OR quetiapine OR risperidone OR ziprasidone OR aripiprazole OR paliperidone OR iloperidone OR asenapine | 10,413 |
| S2          | (atypical antipsychotic* OR atypical anti-psychotic*)                                                  | 5,773  |
| S3          | (depression OR depressive OR anxiety OR anti-anxiety OR antianxiety OR insomnia OR sleep* OR anorexi* OR bulimi* OR tourett* OR attention deficit disorder OR adhd OR substance abuse* OR drug abuse* OR alcohol abuse OR addict* OR drug dependen* OR cocaine OR heroin OR personality disorder* OR posttraumatic stress disorder OR post-traumatic stress OR ptsd OR dementia OR "major depressive" OR obsessive-compulsive OR obsessive compulsive OR dementia OR ((geriatric OR elderly) AND (agitation OR agitated))) | 552,744 |
| S4          | KW (off-label OR "off label" OR offlabel OR pharmacoepidemiolog*) OR Ti (off-label OR "off label" OR offlabel OR pharmacoepidemiolog*) | 168    |
| S5          | S1 OR S2                                                                                             | 12,864 |
| S6          | S3 OR S4                                                                                             | 548,086|
| S7          | S5 AND S6                                                                                            | 4,131  |
| S8          | LA English                                                                                            | 3,126,642|
| S9          | S7 AND S8                                                                                            | 3,849  |
| S10         | S9 Limiters - Published Date from: 20100901-20130231                                                  | 657    |

### Cochrane Library

| #1          | olanzapine: ti,ab, kw or quetiapine: ti,ab, kw or risperidone: ti,ab, kw or ziprasidone: ti,ab, kw or aripiprazole: ti,ab, kw | 3631   |
| #2          | asenapine: ti,ab, kw or iloperidone: ti,ab, kw or paliperidone: ti,ab, kw                                   | 107    |
| #3          | #1 or #2                                                                                               | 3697   |
| #4          | "schizophrenia": ti,ab, kw or "bipolar disorder": ti,ab, kw                                            | 6459   |
| #5          | #3 and #4                                                                                               | 1496   |
|             | Limited to Systematic Reviews and Controlled Trials                                                     | 1457   |
Use of antipsychotic agents for patients with dementia

These searches were conducted on in January 2015 and were designed to encompass all possible literature that addressed the use of antipsychotic agents in individuals with dementia, including literature already covered by the prior search and the searches used in the AHRQ review on use of atypical antipsychotic agents for off-label indications.

MEDLINE (PubMed) search, conducted on 1/21/15

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S3 MR "Meta Analysis" OR DE "Meta Analysis" OR TI "metaanalyses" OR TI "meta-analyses" OR TI "meta-analysis" OR TI "metaanalytic" OR TI "meta-analytic" OR TI "systematic review" OR TI "systematic reviews" OR SU "metaanalyses" OR SU "meta-analyses" OR SU "meta-analysis" OR SU "metaanalytic" OR SU "meta-analytic" OR SU "systematic review" OR SU "systematic reviews" OR AB "metaanalyses" OR AB "meta-analyses" OR AB "meta-analysis" OR AB "metaanalytic" OR AB "meta-analytic" OR AB "systematic review" OR AB "systematic reviews" OR KW "metaanalyses" OR KW "meta-analyses" OR KW "meta-analysis" OR KW "metaanalytic" OR KW "meta-analytic" OR KW "systematic review" OR KW "systematic reviews" OR SU "metaanalyses" OR SU "meta-analyses" OR SU "meta-analysis" OR SU "metaanalytic" OR SU "meta-analytic" OR SU "systematic review" OR SU "systematic reviews" OR AB "metaanalyses" OR AB "meta-analyses" OR AB "meta-analysis" OR AB "metaanalytic" OR AB "meta-analytic" OR AB "systematic review" OR AB "systematic reviews" OR KW "metaanalyses" OR KW "meta-analyses" OR KW "meta-analysis" OR KW "metaanalytic" OR KW "meta-analytic" OR KW "systematic review" OR KW "systematic reviews" OR DE "Between Groups Design" OR TI "random allocation" OR TI "Random Allocation" OR TI "random assignment" OR TI "randomised assignment" OR TI "randomised controlled" OR TI "randomized controlled" OR TI "randomly allocated" OR TI "randomly assigned" OR TI "multicenter trial" OR TI "multicenter trials" OR TI "placebo control" OR TI "placebo group" OR TI "sham control" OR TI "sham group" OR SU "random allocation" OR SU "Random Allocation" OR SU "random assignment" OR SU "randomised assignment" OR SU "randomised controlled" OR SU "randomized controlled" OR SU "randomly allocated" OR SU "randomly assigned" OR SU "multicenter trial" OR SU "multicenter trials" OR SU "placebo control" OR SU "placebo group" OR SU "sham control" OR SU "sham group" OR AB "random allocation" OR AB "Random Allocation" OR AB "random assignment" OR AB "randomised assignment" OR AB "randomised controlled" OR AB "randomized assignment" OR AB "randomized controlled" OR AB "randomly allocated" OR AB "randomly assigned" OR AB "multicenter trial" OR AB "multicenter trials" OR AB "placebo control" OR AB "placebo group" OR AB "sham control" OR AB "sham group" OR KW "random allocation" OR KW "Random Allocation" OR KW "random assignment" OR KW "randomised assignment" OR KW "randomised controlled" OR KW "randomized assignment" OR KW "randomized controlled" OR KW "randomly allocated" OR KW "randomly assigned" OR KW "multicenter trial" OR KW "multicenter trials" OR KW "placebo control" OR KW "placebo group" OR KW "sham control" OR KW "sham group" OR MR "Treatment Outcome/Clinical Trial" OR MR "longitudinal study" OR MR "retrospective study" OR MR "followup study" OR DE "Prospective Studies" OR DE "Followup Studies" OR DE "Retrospective Studies" OR DE "Longitudinal Studies" OR DE "Clinical Trials" OR DE "Cohort Analysis" OR TI "case control" OR TI "case-control" OR TI "clinical
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PO "human" OR TI "humans" OR TI "human" OR AB "humans" OR AB "human" OR SU "humans" OR SU "human" OR KW "humans" OR KW "human" 3,189,527

LA "English" Limiters - Publication Year: 1900-2014 3,393,847

S7 S1 AND S6 Limiters - Publication Year: 1900-2014 69,715
Cochrane library, conducted on 01/20/15

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#2 dementia:ti,ab,kw or dementias:ti,ab,kw or "cognitive disorder":ti,ab,kw or "cognitive disorders":ti,ab,kw Publication Year from 1900 to 2014 5682

#3 #1 and #2 Publication Year from 1900 to 2014 335

Of these 9 were Cochrane reviews, 20 were other reviews and 302 were clinical trials.
Results of literature screening

- MEDLINE (PubMed): 1,483 articles
- PsycINFO: 470 articles
- Cochrane: 335 articles

Removal of duplicates: 1,719 articles

Included in evidence tables:
- 45 RCTs
- 52 Observational Studies

Not included in evidence tables:
- 4 RCTs not found
- 13 RCTs on FGAs only
- 46 post-hoc pooled data or meta-analyses

Additional articles not meeting inclusion criteria:
- 324 on dementia and antipsychotics
- 359 on antipsychotics but not dementia
- 317 on dementia but not antipsychotics
- 560 on neither dementia nor antipsychotics
**Randomized controlled trials**


Randomized controlled trials that could not be located


Randomized controlled trials that relate only to first generation antipsychotic agents


**Observational studies that met inclusion criteria**


**Meta-analyses and post-hoc pooled data analyses from randomized trials**


Articles on antipsychotic medication and dementia other than listed above


Brecher M, Okamoto A, Napolitano J, Kane JM: Low frequency of tardive dyskinesia in elderly patients with dementia exposed to risperidone for up to one year. in American journal of geriatric psychiatry1999. pp. 53-54.


Articles on antipsychotic medication but not dementia


John MECfcCD, Communications S: AHRQ Comparative Effectiveness Reviews


Robinson DB. Evaluation of certain drugs in geriatric patients: effects of chlorpromazine, reserpine, pentylenetetrazol U. S. P., and placebo on eighty-four female geriatric patients in a state hospital. AMA Arch Gen Psychiatry 1:41-46, 1959.


Schubert MH, Young KA, Hicks PB. Galantamine improves cognition in schizophrenic patients stabilized on risperidone. Biol Psychiatry 60:530-533, 2006.


Volavka J, Citrome L. All antipsychotics are equal, but some are more equal than others. J Clin Psychiatry 70:429-430, 2009.


**Articles on dementia but not antipsychotic treatment**


Bains J, Birks J, Dening T: Antidepressants for treating depression in dementia. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2002.


Birks J, Grimley Evans J: Ginkgo biloba for cognitive impairment and dementia. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2009.


Cadigan RO, Grabowski DC, Givens JL, Mitchell SL. The quality of advanced dementia care in the nursing home: The role of special care units. Medical Care 50:856-862, 2012.


Forbes D, Blake Catherine M, Thiessen Emily J, Peacock S, Hawranik P: Light therapy for improving cognition, activities of daily living, sleep, challenging behaviour, and psychiatric disturbances in dementia. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2014.


Lai Claudia KY, Yeung Jonas HM, Mok V, Chi I: Special care units for dementia individuals with behavioural problems. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2009.


Lonergan E, Luxenberg J: Valproate preparations for agitation in dementia. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2009.


Loy C, Schneider L: Galantamine for Alzheimer’s disease and mild cognitive impairment. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2006.


Orgeta V, Qazi A, Spector Aimee E, Orrell M: Psychological treatments for depression and anxiety in dementia and mild cognitive impairment. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2014.


Wild R, Pettit Tor ACL, Burns A: Cholinesterase inhibitors for dementia with Lewy bodies. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2003.


**Articles on neither dementia nor antipsychotic treatment**


Crook JM, Tomaskovic-Crook E, Copolov DL, Dean B. Low muscarinic receptor binding in prefrontal cortex from subjects with schizophrenia: a study of Brodmann's areas 8, 9, 10, and 46 and the effects of neuroleptic drug treatment. Am J Psychiatry 158:918-925, 2001.


Friedman JI. Cholinergic targets for cognitive enhancement in schizophrenia: focus on cholinesterase inhibitors and muscarinic agonists. Psychopharmacology (Berl) 174:45-53, 2004.


Glantz LA, Lewis DA. Decreased dendritic spine density on prefrontal cortical pyramidal neurons in schizophrenia. Arch Gen Psychiatry 57:65-73, 2000.


Harvey PD, McClure MM. Pharmacological approaches to the management of cognitive dysfunction in schizophrenia. Drugs 66:1465-1473, 2006.


Mestre T, Ferreira J, Coelho Miguel M, Rosa M, Sampaio C: Therapeutic interventions for symptomatic treatment in Huntington's disease. in Cochrane Database of Systematic Reviews, John Wiley & Sons, Ltd; 2009.


Ritsner MS. The clinical and therapeutic potentials of dehydroepiandrosterone and pregnenolone in schizophrenia. Neuroscience 191:91-100, 2011.

Ritsner MS, Strous RD. Neurocognitive deficits in schizophrenia are associated with alterations in blood levels of neurosteroids: a multiple regression analysis of findings from a double-blind, randomized, placebo-controlled, crossover trial with DHEA. J Psychiatr Res 44:75-80, 2010.


Roth BL, Hanizavareh SM, Blum AE. Serotonin receptors represent highly favorable molecular targets for cognitive enhancement in schizophrenia and other disorders. Psychopharmacology (Berl) 174:17-24, 2004.


Ushijima M, Yokoyama S, Sugiyama E, Amano N. Contribution of perospirone and risperidone to reduce delirium in senile patients. Psychogeriatrics 8:4-7, 2008.


