**Appendix 1**

SIGN: <https://www.sign.ac.uk/search-filters.html>

HIRU: <https://hiru.mcmaster.ca/hiru/HIRU_Hedges_MEDLINE_Strategies.aspx#Reviews>

Database: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® <1946-Present>

Date of Search: April 10, 2019

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1 exp Dementia/

2 exp Neurocognitive Disorders/

3 dementia.mp.

4 ((cogniti\* or neurocogniti\* or neuro-cogniti\*) adj2 (disorder\* or dysfunction\* or impairment\* or declin\* or deteriorat\*)).mp.

5 mild cognitive disorder.mp.

6 mild cognitive impairment.mp.

7 alzheimer\*.mp.

8 fronto temporal dementia.mp.

9 or/1-8 [cognitive impairment]

10 exp Aged/

11 exp Middle Aged/

12 exp Geriatrics/

13 Geriatric Psychiatry/

14 (elder\* or senior\*).mp.

15 ((aged or older or geriatric) adj (person or people or adult\*)).mp.

16 or/10-15 [elderly]

17 exp psychotropic drugs/

18 (neuroleptic\* or antipsychotic\* or tranquiliz\*).mp.

19 (lithium or valproate or carbamazepine or topiramate or lamotrigine).mp.

20 exp Benzodiazepines/

21 exp "Hypnotics and Sedatives"/

22 (Amitrypilline or Imipramine or Clomipramine).mp.

23 (Fluoxetine or Fluvoxamine or Sertraline or Duloxetine or Paroxetine or Citalopram or Escitalopram or Buproprion or Venlaflaxine or Mirtazapine or Trazodone).mp.

24 (amisulpride or aripiprazole or chlorpromazine or clozapine or haloperidol or lurasidone hydrochloride or olanzapine or paliperidone palmitate or quetiapine fumarate or risperidone or trifluoperazine).mp.

25 benzodiazepin\*.mp.

26 or/17-25 [psychotropic medication]

27 9 and 16 and 26

28 meta analysis.pt.

29 meta analysis.ti,ab.

30 meta-analysis/

31 review.pt.

32 search\*.ti,ab.

33 or/28-32 [HIRU review filter]

34 27 and 33

35 Epidemiologic studies/

36 exp case control studies/

37 exp cohort studies/

38 Case control.tw.

39 (cohort adj (study or studies)).tw.

40 Cohort analy$.tw.

41 (Follow up adj (study or studies)).tw.

42 (observational adj (study or studies)).tw.

43 Longitudinal.tw.

44 Retrospective.tw.

45 Cross sectional.tw.

46 Cross-sectional studies/

47 or/35-46 [SIGN observational studies filter]

48 33 or 47

49 27 and 48

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