

Dementia Search Narrative

1. Existing Guidelines

A search for existing evidence-based guidelines for dementia was conducted on 18th October 2002.

Resources	Medline, Pubmed, Embase, Internet (see list of websites below)
Year Range	1997 - 2002

Websites Used:

Clinical Standards Board for Scotland (CSBS)

<http://www.clinicalstandards.org/>

Health Technology Board for Scotland (HTBS)

<http://www.htbs.org.uk>

National Institute for Clinical Excellence (NICE)

<http://www.nice.org.uk/>

Clinicaltrials.gov

<http://clinicaltrials.gov>

Controlled Clinical Trials

<http://controlled-trials.com/>

NHS Centre for Reviews and Dissemination

<http://www.york.ac.uk/inst/crd/welcome.htm>

Agency for Health Care Research and Quality (AHRQ)

<http://www.ahrq.gov/>

ASERNIP-S (for surgery)

<http://www.racs.edu.au/open/asernip-s.htm>

Canadian Medical Association

<http://mdm.ca/cpgsnew/cpgs/index.asp>

Centre for Clinical Effectiveness (Australia)

<http://www.med.monash.edu.au/healthservices/cce/>

Health Technology Assessment

<http://www.hta.nhsweb.nhs.uk/>

Health Technology Board for Scotland (HTBS)

<http://www.htbs.org.uk>

National Guideline Clearinghouse

<http://www.guidelines.gov/index.asp>

New Zealand Guidelines Group

<http://www.nzgg.org.nz/>

National Health and Medical Research Council (NHMRC) - Australia

<http://www.health.gov.au/nhmrc/publications/index.htm>

Swedish Council on Technology Assessment in Health Care (SBU)

<http://www.sbu.se/admin/index.asp>

US National Institutes of Health

<http://www.nih.gov/>

National Electronic Library for Health (NeLH)

<http://www.nelh.nhs.uk/>

Google

<http://www.google.com/>

2. Systematic Literature Search

Generic Stem

A general search stem for identifying the complete evidence base for literature on dementia was formulated for the key databases. The general stem is to be used in conjunction with more specific strategies for all subgroups and at every stage of the systematic search process.

Medline

- 1 exp Dementia/
- 2 dement\$.tw.
- 3 alzheimer\$.tw.
- 4 "frontotemporal lobar degeneration".tw.
- 5 FTLD.tw.
- 6 FTD.tw.
- 7 "spongiform encephalopathy".tw.
- 8 "primary progressive aphasia".tw.
- 9 "progressive nonfluent aphasia".tw.
- 10 "mesulam\$ syndrome".tw.
- 11 "creutzfeldt-jakob".tw.
- 12 CJD.tw.
- 13 JCD.tw.
- 14 VCJD.tw.
- 15 (binswanger adj (disease or encephalopathy)).tw.
- 16 "subcortical arteriosclerotic encephalopathy".tw.
- 17 "chronic progressive subcortical encephalopathy".tw.
- 18 "klu?ver-bucy syndrome".tw.
- 19 "temporal lobectomy behavio?r syndrome".tw.
- 20 "lewy body disease".tw.
- 21 "pick\$ disease".tw.
- 22 (lobar adj brain adj2 atrophy).tw.
- 23 "diffuse cortical sclerosis".tw.
- 24 "corticobasal degeneration".tw.
- 25 exp Huntington Disease/
- 26 (huntington adj (disease or chorea)).tw.
- 27 exp Prion Diseases/
- 28 "prion disease".tw.
- 29 "gerstmann straussler scheinker disease".tw.
- 30 "circumscribed cerebral atrophy".tw.
- 31 "lobar cerebral atrophy".tw.

32 exp Wernicke Encephalopathy/
 33 (wernicke adj (encephalopathy or encephalomyelopathy or disease)).tw.
 34 (gayet-wernicke adj (encephalopathy or encephalitis)).tw.
 35 "acute haemorrhagic polioencephalis".tw.
 36 "acute hemorrhagic polioencephalis".tw.
 37 (encephalopathia adj (haemorrhagica or hemorrhagica or wernicke)).tw.
 38 (polioencephalopath\$ adj (hemorrhagi\$ or haemorrhagi\$) adj superior).tw.
 39 "wernicke syndrome".tw.
 40 (wernicke adj2 polioencephalitis).tw.
 41 exp Korsakoff Syndrome/
 42 (korsako\$ adj (psychosis or syndrome or disease)).tw.
 43 (wernicke-korsakoff adj (syndrome or psychosis)).tw.
 44 exp Alcohol Amnestic Disorder/
 45 (alcohol adj2 amnestic adj2 (disorder or psychosis or syndrome)).tw.
 46 (alcohol adj2 dysmnesic adj (disorder or psychosis or syndrome)).tw.
 47 exp Hydrocephalus, Normal Pressure/
 48 "normal pressure hydrocephalus".tw.
 49 exp Supranuclear Palsy, Progressive/
 50 "progressive supranuclear palsy".tw.
 51 "steele richardson olszewski syndrome".tw.
 52 "benign senescent forgetfulness".tw.
 53 or/1-52
 54 53

Patient-focused research

A search was conducted in December 2002 for patient-focused research relating to dementia.

Search strategy	Dementia generic stem + patient strategy + UK strategy
Databases	Medline, Embase, CINAHL, Psychinfo, Caredata
Year Range	1996 - 2002

Systematic reviews

A search was undertaken in December 2002 for systematic reviews relating to dementia.

Search strategy	Dementia generic stem + systematic review filter
Databases	Medline, Embase, CINAHL, Psychinfo, Cochrane Library
Year Range	1995 - 2002

Dementia Search Narrative

Subgroup 1 – Diagnosis and Information to Patients and Carers

Separate stems have been written for each key question, or group of key questions, according to the year ranges required in the RCT, observational and diagnostic searches (key question 1 was not searched for explicitly).

KQ3

Medline

- 1 exp Magnetic Resonance Imaging/ (112449)
- 2 "magnetic resonance imaging".tw. (43216)
- 3 mri.tw. (43854)
- 4 (mr adj (imaging or exam\$)).tw. (17187)
- 5 diagnostic imaging/ (10487)
- 6 exp TOMOGRAPHY, X-RAY COMPUTED/ (142720)
- 7 "comput\$ tomograph\$".tw. (77927)
- 8 (comput\$ adj (axial or assisted) adj tomograph\$).tw. (2051)
- 9 ((ct or cat) adj scan\$).tw. (31467)
- 10 exp TOMOGRAPHY, EMISSION-COMPUTED, SINGLE-PHOTON/ (13318)
- 11 spect.tw. (9885)
- 12 "single photon emission computed tomography".tw. (4575)
- 13 or/1-12 (289569)

KQ4

Medline

- 1 Cerebrospinal Fluid/ (2043)
- 2 cerebrospinal fluid\$.tw. (11086)
- 3 cerebro spinal fluid\$.tw. (127)
- 4 csf.tw. (18045)
- 5 exp Electroencephalography/ (16581)
- 6 electroencephalogra\$.tw. (5328)
- 7 eeg.tw. (9057)
- 8 or/1-7 (43261)

KQ7

Medline

- 1 autopsy/ (4202)
- 2 autops\$.tw. (11214)
- 3 postmortem\$.tw. (5487)
- 4 post mortem\$.tw. (2659)
- 5 necrops\$.tw. (3382)
- 6 cadaver exam\$.tw. (10)
- 7 corpse exam\$.tw. (1)
- 8 or/1-7 (22827)

KQ2,6+8

Medline

1. Diagnostic Tests, Routine/
2. Mass Screening/
3. diagnos\$ test\$.tw.

4. screen\$ test\$.tw.
5. (cognitive adj (assess\$ or test\$ or screen\$)).tw.
6. Psychological Tests/
7. (psychological adj (test\$ or screen\$ or assess\$)).tw.
8. exp Neuropsychological Tests/
9. (neuropsychological adj (test\$ or screen\$ or assess\$)).tw.
10. u&es.tw.
11. "urea and electrolytes".tw.
12. (urea adj2 electrolytes adj2 glucose).tw.
13. medical history taking/
14. ((medical or patient\$) adj history).tw.
15. exp medical records/
16. hospital records/
17. exp physical examination/
18. physical exam\$.tw.
19. exp blood cell count/
20. ((full or complete) adj "blood count").tw.
21. ("erythrocyte sedimentation rate" or esr).tw.
22. blood sedimentation/
23. liver function tests/
24. liver function test\$.tw.
25. thyroid function tests/
26. thyroid function test\$.tw.
27. ("venereal disease research laboratory" or vdrl).tw.
28. (x-rays/ or x-ray\$.tw.) and chest.tw.
29. vitamin b12/ or vitamin b12 deficiency/
30. folic acid/ or folic acid deficiency/
31. (b12 or folate\$ or "folic acid").tw.
32. genetic screening/
33. (genetic adj (screen\$ or test\$)).tw.
34. apolipoproteins e/
35. (apo-e or "apolipoprotein\$ e").tw.
36. electrocardiography/
37. (ecg or electrocardiogra\$).tw.
38. depression/
39. depression.tw.
40. iqcode.tw.
41. or/1-40
42. exp intelligence tests/
43. "wechsler adult intelligence scale\$.tw.
44. wais.tw.
45. "wechsler memory scale\$.tw.
46. wms.tw.
47. "rey complex figure test\$.tw.
48. ((hopkins or (rey adj auditory) or california) adj "verbal learning test\$").tw.
49. "doors & people".tw.
50. "rivermead behavior?ral memory test\$.tw.
51. ((boston or graded) adj naming adj test\$).tw.
52. "pyramid\$ and palm tree\$.tw.
53. verbal fluency.tw.
54. "hayling and brixton test\$.tw.
55. ("dysexecutive syndrome" and "behavior?ral assessment").tw.
56. trails test\$.tw.
57. "wisconsin card sorting test\$.tw.
58. stroop test\$.tw.
59. or/42-58
60. exp patient education/
61. patient information.tw.
62. exp attitude to health/
63. health education/

64. communication barriers/
65. exp teaching/
66. reading/
67. audiovisual aids/
68. visual aid\$.tw.
69. computer assisted instruction/
70. computer-aided learning.tw.
71. computer-assisted learning.tw.
72. self instruction.tw.
73. exp health promotion/
74. (advice or advisory).tw.
75. exp information services/
76. (co?operation adj3 patient\$).tw.
77. exp patient acceptance of health care/
78. patient dropouts/
79. professional-patient relations/
80. physician-patient relations/
81. nurse-patient relations/
82. doctor-patient relations/
83. patient co?operation.tw.
84. exp truth disclosure/
85. patient participation/
86. "breaking bad news".tw.
87. information needs.tw.
88. information resources.tw.
89. patient literature.tw.
90. (leaflet\$ or sheet\$ or booklet\$).tw.
91. tape recording/
92. (tape\$ or video\$).tw.
93. or/60-92
94. 41 or 59 or 93

Subgroup 2 – Management of Core Symptoms

MEDLINE

- 1 exp Hydroxymethylglutaryl-CoA Reductase Inhibitors/ (773)
- 2 "hydroxymethylglutaryl-coa reductase inhibitor".tw. (2)
- 3 "hydroxymethylglutaryl coenzyme a reductase inhibitor".tw. (18)
- 4 statin\$.tw. (700)
- 5 hmg-coa.tw. (251)
- 6 exp ESTROGENS/ (2331)
- 7 estrogen\$.tw. (2375)
- 8 oestrogen\$.tw. (330)
- 9 exp Anti-Inflammatory Agents, Non-Steroidal/ (2885)
- 10 nsaid.tw. (226)
- 11 (non-steroid\$ adj anti-inflammatory adj (drug\$ or agent\$)).tw. (0)
- 12 (nonsteroid\$ adj antiinflammatory adj (drug\$ or agent\$)).tw. (0)
- 13 (nonsteroid\$ adj anti-inflammatory adj (drug\$ or agent\$)).tw. (0)
- 14 (non-steroid\$ adj antiinflammatory adj (drug\$ or agent\$)).tw. (0)
- 15 exp Cholinesterase Inhibitors/ (641)
- 16 "cholinesterase inhibitor".tw. (91)
- 17 anticholinesterase\$.tw. (36)
- 18 exp MEMANTINE/ (31)
- 19 memantine.tw. (29)
- 20 exp Ginkgo biloba/ (102)
- 21 ginkgo.tw. (14)
- 22 exp Vitamin E/ (725)
- 23 vitamin e.tw. (554)
- 24 exp Hypoglycemic Agents/ (3227)

25 "hypoglycemic agent\$.tw. (36)
 26 sulphonylurea\$.tw. (50)
 27 sulfonylurea\$.tw. (119)
 28 gilbenclamide.tw. (0)
 29 glimepiride.tw. (21)
 30 gliquidone.tw. (3)
 31 "prandial glucose regulator\$.tw. (2)
 32 repaglinide.tw. (16)
 33 nateglinide.tw. (14)
 34 biguanide\$.tw. (45)
 35 thiazolidinedione\$.tw. (150)
 36 rosiglitazone.tw. (102)
 37 pioglitazone.tw. (58)
 38 or/24-37 (3406)
 39 exp Risk Factors/ (15333)
 40 vascular.tw. (8575)
 41 39 and 40 (590)
 42 "vascular risk factor\$.tw. (83)
 43 (impair\$ adj3 mobil\$.tw. (37)
 44 exp motor activity/ (2140)
 45 "physical activit\$.tw. (1017)
 46 exp diet therapy/ (608)
 47 exp diet/ (3187)
 48 diet.tw. (4132)
 49 exp Exercise Movement Techniques/ (2698)
 50 exercise.tw. (3253)
 51 exp HYPERTENSION/ (4110)
 52 hypertension.tw. (5014)
 53 (49 or 50) and (51 or 52) (233)
 54 exp SMOKING/ (2408)
 55 smoking.tw. (3145)
 56 exp Hypercholesterolemia/ (631)
 57 hypercholesterolaemia.tw. (109)
 58 exp ASPIRIN/ (705)
 59 aspirin.tw. (771)
 60 exp Atrial Fibrillation/ (705)
 61 "atrial fibrillation".tw. (811)
 62 or/1-23,38,41-48,53-61 (26021)
 63 validation.tw. (1772)
 64 "reality orientation".tw. (1)
 65 "sensory stimulation".tw. (48)
 66 exp Physical Stimulation/ (3451)
 67 "physical stimulation".tw. (5)
 68 exp Photic Stimulation/ (1021)
 69 "photic stimulation".tw. (15)
 70 "olfactory stimulation".tw. (8)
 71 "auditory stimulation".tw. (23)
 72 "taste stimulation".tw. (5)
 73 "visual stimulation".tw. (45)
 74 exp Relaxation Techniques/ (98)
 75 "relaxation techniques".tw. (11)
 76 exp Leisure Activities/ (2619)
 77 "leisure activit\$.tw. (41)
 78 exp Acoustic Stimulation/ (605)
 79 "acoustic stimulation".tw. (16)
 80 garden\$.tw. (145)
 81 exp PLANTS/ (13066)
 82 plants.tw. (3641)
 83 exp TREES/ (539)
 84 trees.tw. (588)

85 exp Animals, Domestic/ (349)
86 (domestic adj2 animal\$.tw. (112)
87 pets.tw. (94)
88 snoezelen.tw. (2)
89 (multisensory adj2 (environment or stimulation)).tw. (6)
90 exp "Play and Playthings"/ (129)
91 "soft toy\$.tw. (1)
92 (doll or dolls).tw. (15)
93 exp child/ (24230)
94 child\$.tw. (16746)
95 exp Cognitive Therapy/ (335)
96 "cognitive behavior?r\$ therap\$.tw. (162)
97 cbt.tw. (103)
98 "cognitive remediation".tw. (9)
99 exp PSYCHOTHERAPY/ (2039)
100 psychotherapy.tw. (309)
101 exp COUNSELING/ (649)
102 counsel?ing.tw. (1234)
103 exp Physical Therapy Techniques/ (3308)
104 "physical therapy techniques".tw. (1)
105 physiotherapy.tw. (220)
106 exp MASSAGE/ (124)
107 massage.tw. (152)
108 exp Occupational Therapy/ (160)
109 "occupational therapy".tw. (102)
110 "art therapy".tw. (6)
111 "dance therapy".tw. (2)
112 "music therapy".tw. (16)
113 ((creative or reminis\$) adj2 therap\$.tw. (4)
114 "possible future selves".tw. (0)
115 "possible future self".tw. (1)
116 exp Self Concept/ (1480)
117 (behavior?r\$ adj (modification\$ or therap\$ or technique\$ or strateg\$)).tw. (357)
118 "environment\$ modification\$.tw. (11)
119 exp "Reinforcement (Psychology)"/ (641)
120 "positive reinforcement".tw. (20)
121 "prompting shaping".tw. (0)
122 "graded assistance".tw. (0)
123 "scheduled toiling".tw. (0)
124 "prompted voiding".tw. (1)
125 "bright light\$.tw. (40)
126 "participant model?ing".tw. (0)
127 "environmental factor\$.tw. (878)
128 colo?r.tw. (2126)
129 exp Color/ (363)
130 (light\$ adj3 modif\$.tw. (48)
131 (visual adj5 barrier\$ adj5 remov\$.tw. (0)
132 exp Phototherapy/ (645)
133 "light therapy".tw. (24)
134 "staff training".tw. (33)
135 or/63-134 (59970)
136 "home support".tw. (8)
137 "domestic support".tw. (1)
138 exp Home Care Services/ (761)
139 "home care".tw. (303)
140 "home help".tw. (15)
141 "meals on wheels".tw. (6)
142 "rehab\$ service\$.tw. (74)
143 "smart tech\$.tw. (0)
144 (memory adj3 aid\$.tw. (6)

145 exp "Interior Design and Furnishings"/ (77)
 146 exp Environment Design/ (72)
 147 "environment\$ design".tw. (8)
 148 or/136-147 (1129)
 149 62 or 135 or 148 (81671)

Subgroup 3 – Management of Associated Problems

The search strategy for SG3 is practically identical to that for SG2. Therefore, only an additional search relating to RIVASTIGMINE was required.

Rivastigmine Search

In each of the databases searched, the term RIVASTIGMINE was search as a free text word in the title and abstract. Only Embase has a thesaurus term for rivastigmine; this was also searched.

RCTs

Subgroup 1 – Diagnosis and Information to Patients and Carers

The search was undertaken on 26th and 27th August 2003 for RCTs relating to the diagnosis of dementia and information to patients and carers. Separate searches were conducted for each key question, or group of key questions, according to the date ranges required (key question 1 was not searched for explicitly).

KQ3

Search strategy	Dementia generic stem + KQ3 stem + RCT filter
Databases	Medline, Embase, CINAHL, Cochrane Library
Year Range	1990-2003

KQ4

Search strategy	Dementia generic stem + KQ4 stem + RCT filter
Databases	Medline, Embase, CINAHL, Cochrane Library
Year Range	2001-2003

KQ7

Search strategy	Dementia generic stem + KQ7 stem + RCT filter
Databases	Medline, Embase, CINAHL, Cochrane Library
Year Range	2000-2003

KQ2,6+8

Search strategy	Dementia generic stem + KQ268 stem + RCT filter
Databases	Medline, Embase, CINAHL, Cochrane Library
Year Range	1997-2003

Subgroup 2 – Management of Core Symptoms

The search was undertaken on 8th and 9th July 2003 for RCTs relating to the management of core symptoms of dementia.

Search strategy	Dementia generic stem + subgroup 2 stem + RCT filter
Databases	Medline, Embase, CINAHL, PsycINFO, Cochrane Library
Year Range	1997 - 2003

Subgroup 3 – Management of Associated Problems

The search strategy for SG3 is practically identical to that for SG2. Therefore, only an additional search for RCTs relating to RIVASTIGMINE was required. The additional search was undertaken on 22nd July 2003. The additional search was run against the SG2 search and only those results not picked up in the original search downloaded.

Search strategy	Dementia generic stem + subgroup 2 stem + rivastigmine search + RCT filter
Databases	Medline, Embase, CINAHL, PsycINFO, Cochrane Library
Year Range	1997 - 2003

Observational Searches

Subgroup 1 – Diagnosis and Information to Patients and Carers

The search was undertaken on 26th and 27th August 2003 for RCTs relating to the diagnosis of dementia and information to patients and carers. Separate searches were conducted for each key question, or group of key questions, according to the date ranges required (key question 1 was not searched for explicitly).

KQ2,6+8

Search strategy	Dementia generic stem + KQ268 stem + Obs filter
Databases	Medline, Embase, CINAHL
Year Range	1997-2003

The search was re-run for the KQ8 part on 3rd November 2003.

Search strategy	Dementia generic stem + KQ8 stem + Obs filter
Databases	Medline, Embase, CINAHL, PsycINFO
Year Range	1997-2003

Subgroup 2 – Management of Core Symptoms

The search was undertaken on 19th November 2003 for observations studies relating to the management of core symptoms of dementia.

Search strategy	Dementia generic stem + subgroup 2 stem + Obs filter
Databases	Medline, Embase, CINAHL, PsycINFO
Year Range	1997-2003

Subgroup 3 – Management of Associated Problems

The search strategy for SG3 is practically identical to that for SG2. Therefore only an additional search of RCTs relating to RIVASTIGMINE was required. This additional search was undertaken on 19th November 2003 and run against the SG2 search. Only those results not picked up in the original search were downloaded.

Search strategy	Dementia generic stem + subgroup 2 stem + rivastigmine search + Obs filter
Databases	Medline, Embase, CINAHL, PsycINFO
Year Range	1997-2003

Diagnostic Searches

8.1 Subgroup 1 – Diagnosis and Information to Patients and Carers

The search was undertaken on 26th and 27th August 2003 for RCTs relating to the diagnosis of dementia and information to patients and carers. Separate searches were conducted for each key question, or group of key questions, according to the date ranges required (key question 1 was not searched for explicitly).

KQ3

Search strategy	Dementia generic stem + KQ3 stem + Dia filter
Databases	Medline, Embase, CINAHL
Year Range	1990-2003

KQ4

Search strategy	Dementia generic stem + KQ4 stem + Dia filter
Databases	Medline, Embase, CINAHL
Year Range	2001-2003

KQ7

Search strategy	Dementia generic stem + KQ7 stem + Dia filter
Databases	Medline, Embase, CINAHL
Year Range	2000-2003

KQ2,6+8

Search strategy	Dementia generic stem + KQ268 stem + Dia filter
Databases	Medline, Embase, CINAHL
Year Range	1997-2003

Additional searches

An additional search was conducted for medical history taking on 12th December 2003 for 1997-2003. Both the RCT and diagnostic filters were applied.