

Best Evidence Summaries of Topics in Mental Healthcare

BEST *in* **MH** *clinical question-answering service*

Question

How effective is the MMSE, compared to any other diagnostic tool, in managing memory in adults with cognitive impairment being treated with Cholinesterase Inhibitors?

Clarification of question using PICO structure (PICTRO for diagnostic questions)

Patients: Adults with cognitive impairment being treated with Cholinesterase Inhibitors.

Index test: Mini-Mental State Examination (MMSE).

Comparator tests: Any other diagnostic tool.

Target condition: Cognitive impairment.

Reference standard: Unknown.

Outcome: Sensitivity, Specificity.

Clinical and research implications

No relevant evidence was identified.

What does the evidence say?

Number of included studies/reviews (number of participants)

No relevant evidence was identified.

Main Findings

N/A

Authors Conclusions

N/A

Reliability of conclusions/Strength of evidence

N/A

What do guidelines say?

No guidelines were found that directly consider the use of MMSE alongside Cholinesterase Inhibitors.

Date question received: 26/02/13

Date searches conducted: 28/02/13

Date answer completed: 04/03/13

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
Guidelines			
NICE	MMSE Mini Mental State Examination Cholinesterase Inhibitors	65	0
SRs and Primary studies			
CENTRAL			
PsycINFO	<ol style="list-style-type: none"> 1. PsycINFO; MMSE.ti,ab; 3599 results. 2. PsycINFO; "mini mental state examination".ti,ab; 5055 results. 3. PsycINFO; MINI MENTAL STATE EXAMINATION/; 510 results. 4. PsycINFO; 1 OR 2 OR 3; 6280 results. 5. PsycINFO; (sensitivity OR specificity).ti,ab; 71980 results. 6. PsycINFO; (pretest ADJ probability).ti,ab; 24 results. 7. PsycINFO; (pre-test ADJ probability).ti,ab; 14 results. 8. PsycINFO; (post-test ADJ probability).ti,ab; 16 results. 9. PsycINFO; "predictive value*".ti,ab; 5099 results. 10. PsycINFO; "likelihood ratio*".ti,ab; 1163 results. 11. PsycINFO; TEST VALIDITY/; 48133 results. 12. PsycINFO; 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11; 120833 results. 13. PsycINFO; 4 AND 12; 974 results. 14. PsycINFO; dementia.ti,ab; 38655 results. 15. PsycINFO; exp DEMENTIA/; 47041 results. 16. PsycINFO; alzheimer*.ti,ab; 35248 results. 17. PsycINFO; ALZHEIMER'S DISEASE/; 28329 results. 18. PsycINFO; COGNITIVE IMPAIRMENT/; 18936 results. 19. PsycINFO; "cognitive* impair*".ti,ab; 18836 results. 20. PsycINFO; "memory clinic".ti,ab; 513 results. 21. PsycINFO; "memory service".ti,ab; 7 results. 	8	

	<p>22. PsycINFO; (memory adj2 assess*).ti,ab; 2600 results. 23. PsycINFO; 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22; 80780 results. 24. PsycINFO; 13 AND 23; 812 results. 25. PsycINFO; CHOLINESTERASE INHIBITORS/; 1390 results. 26. PsycINFO; donepezil.ti,ab; 1052 results. 27. PsycINFO; rivastigmine.ti,ab; 484 results. 28. PsycINFO; galantamine.ti,ab; 443 results. 29. PsycINFO; (Acetylcholinesterase AND inhibit*).ti,ab; 1059 results. 30. PsycINFO; (cholinesterase AND inhibit*).ti,ab; 1500 results. 31. PsycINFO; (AChE OR AChEI).ti,ab; 915 results. 32. PsycINFO; 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31; 3903 results. 33. PsycINFO; 24 AND 32; 8 results.</p>		
EMBASE	<p>34. EMBASE; MMSE.ti,ab; 9839 results. 35. EMBASE; "mini mental state examination".ti,ab; 8958 results. 36. EMBASE; MINI MENTAL STATE EXAMINATION/; 13449 results. 37. EMBASE; 34 OR 35 OR 36; 19007 results. 38. EMBASE; (sensitivity OR specificity).ti,ab; 762103 results. 39. EMBASE; (pretest ADJ probability).ti,ab; 1046 results. 40. EMBASE; (pre-test ADJ probability).ti,ab; 591 results. 41. EMBASE; (post-test ADJ probability).ti,ab; 402 results. 42. EMBASE; "predictive value*".ti,ab; 80216 results. 43. EMBASE; "likelihood ratio*".ti,ab; 9500 results. 44. EMBASE; SENSITIVITY AND SPECIFICITY/; 184511 results. 45. EMBASE; DIAGNOSTIC ACCURACY/; 168053 results. 46. EMBASE; 38 OR 39 OR 40 OR 41 OR 42 OR 43 OR 44 OR 45; 998377 results. 47. EMBASE; 37 AND 46; 2096 results. 48. EMBASE; dementia.ti,ab; 79426 results. 49. EMBASE; exp DEMENTIA/; 204396 results. 50. EMBASE; alzheimer*.ti,ab; 105250 results.</p>	126	

	<p>51. EMBASE; ALZHEIMER'S DISEASE/; 112076 results. 52. EMBASE; COGNITIVE IMPAIRMENT/; 84503 results. 53. EMBASE; "cognitive* impair*".ti,ab; 38779 results. 54. EMBASE; "memory clinic".ti,ab; 976 results. 55. EMBASE; "memory service".ti,ab; 9 results. 56. EMBASE; (memory adj2 assess*).ti,ab; 2960 results. 57. EMBASE; 48 OR 49 OR 50 OR 51 OR 52 OR 53 OR 54 OR 55 OR 56; 295447 results. 58. EMBASE; 47 AND 57; 1819 results. 59. EMBASE; donepezil.ti,ab; 2908 results. 60. EMBASE; rivastigmine.ti,ab; 1543 results. 61. EMBASE; galantamine.ti,ab; 1329 results. 62. EMBASE; (Acetylcholinesterase AND inhibit*).ti,ab; 10340 results. 63. EMBASE; (cholinesterase AND inhibit*).ti,ab; 8062 results. 64. EMBASE; (AChE OR AChEI).ti,ab; 11954 results. 65. EMBASE; CHOLINESTERASE INHIBITOR/; 16487 results. 66. EMBASE; DONEPEZIL/; 7867 results. 67. EMBASE; RIVASTIGMINE/; 4779 results. 68. EMBASE; GALANTAMINE/; 4911 results. 69. EMBASE; 59 OR 60 OR 61 OR 62 OR 63 OR 64 OR 65 OR 66 OR 67 OR 68; 38963 results. 70. EMBASE; 58 AND 69; 126 results.</p>		
MEDLINE	<p>71. MEDLINE; MMSE.ti,ab; 5551 results. 72. MEDLINE; "mini mental state examination".ti,ab; 6646 results. 73. MEDLINE; MINI MENTAL STATE EXAMINATION/; 0 results. 74. MEDLINE; 71 OR 72 OR 73; 8724 results. 75. MEDLINE; (sensitivity OR specificity).ti,ab; 657299 results. 76. MEDLINE; (pretest ADJ probability).ti,ab; 784 results. 77. MEDLINE; (pre-test ADJ probability).ti,ab; 349</p>	22	

<p>results.</p> <p>78. MEDLINE; (post-test ADJ probability).ti,ab; 310 results.</p> <p>79. MEDLINE; "predictive value*".ti,ab; 61059 results.</p> <p>80. MEDLINE; "likelihood ratio*".ti,ab; 7691 results.</p> <p>81. MEDLINE; SENSITIVITY AND SPECIFICITY/; 257105 results.</p> <p>82. MEDLINE; 75 OR 76 OR 77 OR 78 OR 79 OR 80 OR 81; 844325 results.</p> <p>83. MEDLINE; 74 AND 82; 1151 results.</p> <p>84. MEDLINE; dementia.ti,ab; 58929 results.</p> <p>85. MEDLINE; exp DEMENTIA/; 108763 results.</p> <p>86. MEDLINE; alzheimer*.ti,ab; 80433 results.</p> <p>87. MEDLINE; "cognitive* impair*".ti,ab; 27405 results.</p> <p>88. MEDLINE; "memory clinic".ti,ab; 622 results.</p> <p>89. MEDLINE; "memory service".ti,ab; 6 results.</p> <p>90. MEDLINE; (memory adj2 assess*).ti,ab; 2277 results.</p> <p>91. MEDLINE; ALZHEIMER DISEASE/; 60754 results.</p> <p>92. MEDLINE; MILD COGNITIVE IMPAIRMENT/; 849 results.</p> <p>93. MEDLINE; 84 OR 85 OR 86 OR 87 OR 88 OR 89 OR 90 OR 91 OR 92; 164792 results.</p> <p>94. MEDLINE; 83 AND 93; 953 results.</p> <p>95. MEDLINE; donepezil.ti,ab; 1972 results.</p> <p>96. MEDLINE; rivastigmine.ti,ab; 1006 results.</p> <p>97. MEDLINE; galantamine.ti,ab; 888 results.</p> <p>98. MEDLINE; (Acetylcholinesterase AND inhibit*).ti,ab; 8959 results.</p> <p>99. MEDLINE; (cholinesterase AND inhibit*).ti,ab; 6716 results.</p>		
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	100. MEDLINE; (AChE OR AChEI).ti,ab; 10232 results. 101. MEDLINE; CHOLINESTERASE INHIBITORS/; 15772 results. 102. MEDLINE; 95 OR 96 OR 97 OR 98 OR 99 OR 100 OR 101; 28839 results. 103. MEDLINE; 94 AND 102; 22 results.		
Summary	NA	NA	

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