

# Best Evidence Summaries of Topics in Mental Healthcare

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

## Question

“In adults with frontotemporal dementia, how effective is memantine in reducing symptoms of agitation and aggressive behaviour compared to no medication?”

## Clarification of question using PICO structure

*Patients:* Adults with frontotemporal dementia

*Intervention:* Memantine

*Comparator:* No medication

*Outcome:* A reduction in agitated and/or aggressive behaviour

## **Clinical and research implications**

No relevant, high quality research was identified.

## **What does the evidence say?**

*Number of included studies/reviews (number of participants)*

N/A

*Main Findings*

N/A

*Authors Conclusions*

N/A

*Reliability of conclusions/Strength of evidence*

N/A

## **What do guidelines say?**

Neither NICE nor SIGN guidelines discuss the use of memantine for reducing agitation or aggressive behaviour in individuals with frontotemporal dementia.

**Date question received:** 25/11/2013

**Date searches conducted:** 27/11/2013

**Date answer completed:** 11/12/2013

## Search Details

| Source                           | Search Strategy   | Number of hits | Relevant evidence identified |
|----------------------------------|---|----------------|------------------------------|
| <b><i>SRs and Guidelines</i></b> |   |                |                              |
| NICE                             | memantine AND dementia AND (agress* OR agitat*)   | 11             | 0                            |
| DARE                             | (memantine) IN DARE 37 Delete<br>2 (ebixa) IN DARE 0 Delete<br>3 (dement*) IN DARE 523 Delete<br>4 MeSH DESCRIPTOR Memantine EXPLODE ALL TREES<br>43 Delete<br>5 MeSH DESCRIPTOR Dementia EXPLODE ALL TREES<br>531 Delete<br>6 MeSH DESCRIPTOR Frontotemporal Dementia<br>EXPLODE ALL TREES 3 Delete<br>7 #1 OR #2 OR #4 62 Delete<br>8 #3 OR #5 OR #6 808 Delete<br>9 #7 AND #8  | 51             | 0                            |
| <b><i>Primary studies</i></b>    |   |                |                              |
| CENTRAL                          | #1 MeSH descriptor: [Frontotemporal Lobar Degeneration] explode all trees 10<br>#2 Enter terms for search<br>"semantic dementia""semantic dementia" 17<br>#3 Enter terms for search<br>"frontotemporal dementia""frontotemporal dementia"<br>78<br>#4 Enter terms for search #1 or #2 or #3#1 or #2 or #3<br>92<br>#5 Enter terms for search memantinememantine 448<br>#6 MeSH descriptor: [Memantine] explode all trees<br>184 | 5              |                              |

|          |  |    |  |
|----------|--|----|--|
|          | <p>#7Enter terms for search namenda or Ebixa or Abixa or memox or AXura or Akatinol25</p> <p>#8Enter terms for search #5 or #6 or #7450</p> <p>#9Enter terms for search #4 and #8 14</p> <p>Central only 5</p>   |    |  |
| PsycINFO | <p>1. PsycINFO; "frontotemporal dementia".ti,ab; 1902 results.</p> <p>2. PsycINFO; SEMANTIC DEMENTIA/; 794 results.</p> <p>3. PsycINFO; 1 OR 2; 2297 results.</p> <p>4. PsycINFO; memantine.ti,ab; 894 results.</p> <p>5. PsycINFO; namenda*.ti,ab; 10 results.</p> <p>6. PsycINFO; 4 OR 5; 895 results.</p> <p>7. PsycINFO; 3 AND 6; 21 results.</p>  | 21 |  |
| Embase   | <p>22. EMBASE; "frontotemporal dementia".ti,ab; 4316 results.</p> <p>23. EMBASE; SEMANTIC DEMENTIA/; 655 results.</p> <p>24. EMBASE; 22 OR 23; 4724 results.</p> <p>25. EMBASE; memantine.ti,ab; 3028 results.</p> <p>26. EMBASE; namenda*.ti,ab; 36 results.</p> <p>27. EMBASE; 25 OR 26; 3035 results.</p> <p>28. EMBASE; 24 AND 27; 33 results.</p> <p>29. EMBASE; (ebixa OR abixa OR memox OR axura OR akatinol).ti,ab; 54 results.</p> <p>30. EMBASE; 27 OR 29; 3037 results.</p> <p>31. EMBASE; 24 AND 30; 33 results.</p> <p>32. EMBASE; exp FRONTOTEMPORAL DEMENTIA/; 7236 results.</p> <p>33. EMBASE; 24 OR 32; 8093 results.</p> <p>34. EMBASE; 30 AND 33; 57 results.</p> <p>35. EMBASE; random*.ti,ab; 861425 results.</p> | 17 |  |

|         |   |    |  |
|---------|---|----|--|
|         | <p>36. EMBASE; factorial*.ti,ab; 22079 results.</p> <p>37. EMBASE; (crossover* OR cross-over*).ti,ab; 68719 results.</p> <p>38. EMBASE; placebo*.ti,ab; 197950 results.</p> <p>39. EMBASE; (doubl* ADJ blind*).ti,ab; 142075 results.</p> <p>40. EMBASE; (singl* ADJ blind*).ti,ab; 14134 results.</p> <p>41. EMBASE; assign*.ti,ab; 235109 results.</p> <p>42. EMBASE; allocat*.ti,ab; 81023 results.</p> <p>43. EMBASE; volunteer*.ti,ab; 175235 results.</p> <p>44. EMBASE; CROSSOVER PROCEDURE/; 39081 results.</p> <p>45. EMBASE; DOUBLE BLIND PROCEDURE/; 118884 results.</p> <p>46. EMBASE; RANDOMIZED CONTROLLED TRIAL/; 360948 results.</p> <p>47. EMBASE; SINGLE BLIND PROCEDURE/; 18569 results.</p> <p>48. EMBASE; 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41 OR 42 OR 43 OR 44 OR 45 OR 46 OR 47; 1391167 results.</p> <p>49. EMBASE; 34 AND 48; 17 results.</p> |    |  |
| Medline | <p>8. MEDLINE; "frontotemporal dementia".ti,ab; 3447 results.</p> <p>9. MEDLINE; SEMANTIC DEMENTIA/; 791 results.</p> <p>10. MEDLINE; 8 OR 9; 4092 results.</p> <p>11. MEDLINE; memantine.ti,ab; 2207 results.</p> <p>12. MEDLINE; namenda*.ti,ab; 28 results.</p> <p>13. MEDLINE; 11 OR 12; 2212 results.</p> <p>14. MEDLINE; 10 AND 13; 33 results.</p> <p>33. MEDLINE; (ebixa OR abixa OR memox OR axura OR akatinol).ti,ab; 38 results.</p> <p>34. MEDLINE; exp FRONTOTEMPORAL DEMENTIA/; 913</p>   | 27 |  |

|                |   |           |  |
|----------------|---|-----------|--|
|                | <p>results.</p> <p>35. MEDLINE; 10 OR 34; 4276 results.</p> <p>36. MEDLINE; 13 OR 33; 2213 results.</p> <p>37. MEDLINE; 35 AND 36; 33 results.</p> <p>38. MEDLINE; "randomized controlled trial".pt; 391414 results.</p> <p>39. MEDLINE; "controlled clinical trial".pt; 90097 results.</p> <p>40. MEDLINE; randomized.ab; 307778 results.</p> <p>41. MEDLINE; placebo.ab; 164581 results.</p> <p>42. MEDLINE; "drug therapy".fs; 1772041 results.</p> <p>43. MEDLINE; randomly.ab; 217636 results.</p> <p>44. MEDLINE; trial.ab; 324132 results.</p> <p>45. MEDLINE; groups.ab; 1381601 results.</p> <p>46. MEDLINE; 38 OR 39 OR 40 OR 41 OR 42 OR 43 OR 44 OR 45; 3442937 results.</p> <p>47. MEDLINE; 37 AND 46; 27 results.</p> |           |  |
| <b>Summary</b> | <b>NA</b>   | <b>NA</b> |  |

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