

Best Evidence Summaries of Topics in Mental Healthcare

BEST in MH *clinical question-answering service*

Question

“In older adults with dementia, how effective is the use of vibration compared to any other intervention, in the treatment of challenging behaviours and anxiety? Has the Adult Sensory Profile been used to assess patients for this research?”

Clarification of question using PICO structure

Patients: Older adults with dementia
Intervention: Any intervention involving vibration
Comparator: Any intervention not involving vibration, or no intervention
Outcome: Challenging behaviours; anxiety

Clinical and research implications

No relevant high quality evidence 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 comment on the use of vibration as a therapeutic intervention for dementia.

Date question received: 23/07/2014

Date searches conducted: 31/07/2014

Date answer completed: 05/08/2014

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
SRs and Guidelines			
NICE	Vibration dementia Vibrate dementia	0	0
DARE	1 (vibrat*) IN DARE 67 Delete 2 MeSH DESCRIPTOR Vibration EXPLODE ALL TREES 25 Delete 3 #1 OR #2 70 Delete 4 (dement* OR alzheimer*) IN DARE 681 Delete 5 MeSH DESCRIPTOR Alzheimer Disease EXPLODE ALL TREES 294 Delete 6 MeSH DESCRIPTOR Dementia EXPLODE ALL TREES 581 Delete 7 MeSH DESCRIPTOR Dementia, Vascular EXPLODE ALL TREES 21 Delete 8 MeSH DESCRIPTOR Frontotemporal Dementia EXPLODE ALL TREES 3 Delete 9 MeSH DESCRIPTOR Lewy Body Disease EXPLODE ALL TREES 5 Delete 10 (neurodegenerat* OR neuro-degenerat*) IN DARE 31 Delete 11 MeSH DESCRIPTOR Neurodegenerative Diseases EXPLODE ALL TREES 608 Delete 12 #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 1220 Delete 13 #3 AND #12 7 Delete	7	0
Primary studies			
CENTRAL	#1 MeSH descriptor: [Dementia] explode all trees 3807 #2 MeSH descriptor: [Vibration] explode all trees 687 #3 "vibration therapy" 40 #4 "vibration treatment" 15 #5 "vibration training" 104 #6 "whole body vibration" 352 #7 #2 or #3 or #4 or #5 or #6 819	2	0

	#8 #1 and #2 2 Central only 2		
PsycINFO	37. PsycINFO; exp DEMENTIA/; 52582 results. 38. PsycINFO; VIBRATION/; 1082 results. 39. PsycINFO; "vibration treatment".ti,ab; 2 results. 40. PsycINFO; "vibration training".ti,ab; 17 results. 41. PsycINFO; (vibration adj3 treatment).ti,ab; 5 results. 42. PsycINFO; (vibration adj3 therapy).ti,ab; 14 results. 43. PsycINFO; 38 OR 39 OR 40 OR 41 OR 42; 1090 results. 44. PsycINFO; 37 AND 43; 6 results. 45. PsycINFO; "whole body vibration".ti,ab; 175 results. 46. PsycINFO; 43 OR 45; 1120 results. 47. PsycINFO; 37 AND 46; 6 results. 48. PsycINFO; dementia.ti,ab; 42944 results. 49. PsycINFO; 37 OR 48; 63353 results. 50. PsycINFO; 46 AND 49; 7 results.	7	
Embase	9. EMBASE; exp DEMENTIA/; 226000 results. 10. EMBASE; VIBRATION/; 22663 results. 11. EMBASE; "vibration treatment".ti,ab; 41 results. 12. EMBASE; "vibration training".ti,ab; 214 results. 13. EMBASE; (vibration adj3 treatment).ti,ab; 124 results. 14. EMBASE; (vibration adj3 therapy).ti,ab; 125 results. 15. EMBASE; 10 OR 11 OR 12 OR 13 OR 14; 22844 results. 16. EMBASE; 9 AND 15; 32 results. 17. EMBASE; "whole body vibration".ti,ab; 1276 results. 18. EMBASE; 15 OR 17; 23393 results. 19. EMBASE; 9 AND 18; 33 results. 20. EMBASE; dementia.ti,ab; 88836 results. 21. EMBASE; 9 OR 20; 237394 results.	36	

	22. EMBASE; 18 AND 21; 36 results.		
Medline	23. MEDLINE; exp DEMENTIA/; 121517 results. 24. MEDLINE; VIBRATION/; 19975 results. 25. MEDLINE; "vibration treatment".ti,ab; 38 results. 26. MEDLINE; "vibration training".ti,ab; 177 results. 27. MEDLINE; (vibration adj3 treatment).ti,ab; 114 results. 28. MEDLINE; (vibration adj3 therapy).ti,ab; 96 results. 29. MEDLINE; 24 OR 25 OR 26 OR 27 OR 28; 20052 results. 30. MEDLINE; 23 AND 29; 11 results. 31. MEDLINE; "whole body vibration".ti,ab; 1118 results. 32. MEDLINE; 29 OR 31; 20217 results. 33. MEDLINE; 23 AND 32; 11 results. 34. MEDLINE; dementia.ti,ab; 67813 results. 35. MEDLINE; 23 OR 34; 142785 results. 36. MEDLINE; 32 AND 35; 14 results.	14	
Cinahl	37. CINAHL; exp DEMENTIA/; 34456 results. 38. CINAHL; VIBRATION/; 1625 results. 39. CINAHL; "vibration treatment".ti,ab; 12 results. 40. CINAHL; "vibration training".ti,ab; 101 results. 41. CINAHL; (vibration adj3 treatment).ti,ab; 36 results. 42. CINAHL; (vibration adj3 therapy).ti,ab; 61 results. 43. CINAHL; 38 OR 39 OR 40 OR 41 OR 42; 1636 results. 44. CINAHL; 37 AND 43; 1 results. 45. CINAHL; "whole body vibration".ti,ab; 374 results. 46. CINAHL; 43 OR 45; 1661 results. 47. CINAHL; 37 AND 46; 1 results. 48. CINAHL; dementia.ti,ab; 19986 results. 49. CINAHL; 37 OR 48; 37756 results. 50. CINAHL; 46 AND 49; 3 results.	3	
Amed	51. AMED; exp DEMENTIA/; 2104 results. 52. AMED; VIBRATION/; 543 results.	1	

	<p>53. AMED; "vibration treatment".ti,ab; 11 results.</p> <p>54. AMED; "vibration training".ti,ab; 41 results.</p> <p>55. AMED; (vibration adj3 treatment).ti,ab; 25 results.</p> <p>56. AMED; (vibration adj3 therapy).ti,ab; 34 results.</p> <p>57. AMED; 52 OR 53 OR 54 OR 55 OR 56; 553 results.</p> <p>58. AMED; 51 AND 57; 0 results.</p> <p>59. AMED; "whole body vibration".ti,ab; 173 results.</p> <p>60. AMED; 57 OR 59; 566 results.</p> <p>61. AMED; 51 AND 60; 0 results.</p> <p>62. AMED; dementia.ti,ab; 1826 results.</p> <p>63. AMED; 51 OR 62; 2562 results.</p> <p>64. AMED; 60 AND 63; 1 results.</p>		
Summary	NA	NA	

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