

Best Evidence Summaries of Topics in Mental Healthcare

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

Question

“In service users with learning disabilities, how effective is the use of vibration, compared to any other intervention, for reducing challenging behaviour and anxiety?”

Clarification of question using PICO structure

Patients: Adults with learning disabilities
Intervention: Vibration therapy
Comparator: Any other intervention
Outcome: Challenging behaviours; anxiety

Clinical and research implications

No relevant, high-quality evidence was found which specifically examines the efficacy of using vibration compared to any other intervention in the treatment of challenging behaviours and anxiety in service users with learning disabilities.

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 upon the efficacy of using vibration compared to any other intervention in the treatment of challenging behaviours and anxiety in service users with learning disabilities.

Date question received: 18/08/2014

Date searches conducted: 21/08/2014

Date answer completed: 27/08/2014

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
SRs and Guidelines			
NICE	vibration learning disabilities anxiety	1	0
DARE	(vibrat*) IN DARE 67 Delete 2 MeSH DESCRIPTOR Vibration EXPLODE ALL TREES 25 Delete 3 (adult NEXT sensory NEXT profile) IN DARE 0 Delete 4 (adult NEXT sensory) IN DARE 0 Delete 5 (mental* adj2 retard*) IN DARE 60 Delete 6 (mental* adj2 disabl*) IN DARE 11 Delete 7 ((learning or mental* or intellect* or cognitiv*) near (difficult* or handicap* or retard* or disable* or disabilit* or deficien* or incapacit* or impair*)) IN DARE 8 ((Down* or fragile) adj2 syndrome) IN DARE 64 Delete 9 (phenylketonuria or oligophren* or (cognitiv* next impair*)or (subnormal* near intel*)) IN DARE 250 Delete 10 MeSH DESCRIPTOR Fragile X Syndrome EXPLODE ALL TREES 16 Delete 11 MeSH DESCRIPTOR Intellectual Disability EXPLODE ALL TREES 180 Delete 12 MeSH DESCRIPTOR Mental Retardation, X-Linked EXPLODE ALL TREES 25 Delete 13 MeSH DESCRIPTOR Learning Disorders EXPLODE ALL TREES 28 Delete 14 MeSH DESCRIPTOR Developmental Disabilities EXPLODE ALL TREES 80 Delete 15 #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 725 Delete 16 #1 OR #2 OR #3 OR #4 70 Delete 17 #15 AND #16 3 Delete	3	0
Primary studies			
CENTRAL	#1 MeSH descriptor: [Vibration] explode all trees 687	182	0

	<p>#2 "vibration therapy" 40</p> <p>#3 "whole body vibration" 352</p> <p>#4 #1 or #2 or #3 813</p> <p>#5 MeSH descriptor: [Learning Disorders] explode all trees 454</p> <p>#6 MeSH descriptor: [Intellectual Disability] explode all trees 1020</p> <p>#7 "challenging behav*" 132</p> <p>#8 MeSH descriptor: [Anxiety Disorders] explode all trees 4905</p> <p>#9 vibratory 215</p> <p>#10 "adult sensory profile" 1</p> <p>#11 #4 or #9 937</p> <p>#12 #5 or #6 or #7 or #8 or #9 or #10 6665</p> <p>#13 #11 and #12 220</p> <p>Central only 182</p>		
PsycINFO	<p>1. PsycINFO; VIBRATION/; 1090 results.</p> <p>2. PsycINFO; vibration.ti,ab; 2352 results.</p> <p>3. PsycINFO; "vibration therapy".ti,ab; 13 results.</p> <p>4. PsycINFO; "whole body vibration".ti,ab; 177 results.</p> <p>5. PsycINFO; 1 OR 2 OR 3 OR 4; 2770 results.</p> <p>6. PsycINFO; BEHAVIOR PROBLEMS/ OR INTELLECTUAL DEVELOPMENT DISORDER/ OR LEARNING DISABILITIES/ OR AGGRESSIVE BEHAVIOR/; 93695 results.</p> <p>7. PsycINFO; "challenging behav*".ti,ab; 2135 results.</p> <p>8. PsycINFO; exp ANXIETY DISORDERS/; 61887 results.</p> <p>9. PsycINFO; 6 OR 7 OR 8; 155615 results.</p> <p>10. PsycINFO; 5 AND 9; 43 results.</p> <p>11. PsycINFO; vibrat*.ti,ab; 4146 results.</p> <p>12. PsycINFO; 5 OR 11; 4380 results.</p> <p>13. PsycINFO; 9 AND 12; 63 results.</p> <p>14. PsycINFO; "adult sensory profile".ti,ab; 21 results.</p> <p>15. PsycINFO; 12 OR 14; 4401 results.</p> <p>16. PsycINFO; 9 AND 15; 65 results.</p>	65	0

Embase	<p>15. EMBASE; VIBRATION/; 22746 results.</p> <p>16. EMBASE; vibration.ti,ab; 18345 results.</p> <p>17. EMBASE; "vibration therapy".ti,ab; 100 results.</p> <p>18. EMBASE; "whole body vibration".ti,ab; 1280 results.</p> <p>19. EMBASE; 15 OR 16 OR 17 OR 18; 31071 results.</p> <p>20. EMBASE; BEHAVIOR PROBLEMS/ OR INTELLECTUAL DEVELOPMENT DISORDER/ OR LEARNING DISABILITIES/ OR AGGRESSIVE BEHAVIOR/; 60800 results.</p> <p>21. EMBASE; "challenging behav*".ti,ab; 1231 results.</p> <p>22. EMBASE; exp ANXIETY DISORDERS/; 148774 results.</p> <p>23. EMBASE; 20 OR 21 OR 22; 206331 results.</p> <p>24. EMBASE; 19 AND 23; 76 results.</p> <p>25. EMBASE; vibrat*.ti,ab; 40120 results.</p> <p>26. EMBASE; 19 OR 25; 46093 results.</p> <p>27. EMBASE; 23 AND 26; 93 results.</p> <p>28. EMBASE; "adult sensory profile".ti,ab; 18 results.</p> <p>29. EMBASE; 26 OR 28; 46111 results.</p> <p>30. EMBASE; 23 AND 29; 95 results.</p>	95	0
Medline	<p>17. MEDLINE; VIBRATION/; 20115 results.</p> <p>18. MEDLINE; vibration.ti,ab; 19225 results.</p> <p>19. MEDLINE; "vibration therapy".ti,ab; 81 results.</p> <p>20. MEDLINE; "whole body vibration".ti,ab; 1137 results.</p> <p>21. MEDLINE; 17 OR 18 OR 19 OR 20; 30315 results.</p> <p>22. MEDLINE; BEHAVIOR PROBLEMS/ OR INTELLECTUAL DEVELOPMENT DISORDER/ OR LEARNING DISABILITIES/ OR AGGRESSIVE BEHAVIOR/; 12804 results.</p> <p>23. MEDLINE; "challenging behav*".ti,ab; 827 results.</p> <p>24. MEDLINE; exp ANXIETY DISORDERS/; 68535 results.</p> <p>25. MEDLINE; 22 OR 23 OR 24; 81935 results.</p> <p>26. MEDLINE; 21 AND 25; 26 results.</p> <p>27. MEDLINE; vibrat*.ti,ab; 48920 results.</p> <p>28. MEDLINE; 21 OR 27; 55066 results.</p>	29	0

	<p>29. MEDLINE; 25 AND 28; 27 results.</p> <p>30. MEDLINE; "adult sensory profile".ti,ab; 13 results.</p> <p>31. MEDLINE; 28 OR 30; 55079 results.</p> <p>32. MEDLINE; 25 AND 31; 29 results.</p>		
Cinahl	<p>31. CINAHL; VIBRATION/; 1634 results.</p> <p>32. CINAHL; vibration.ti,ab; 1480 results.</p> <p>33. CINAHL; "vibration therapy".ti,ab; 48 results.</p> <p>34. CINAHL; "whole body vibration".ti,ab; 382 results.</p> <p>35. CINAHL; 31 OR 32 OR 33 OR 34; 2197 results.</p> <p>36. CINAHL; BEHAVIOR PROBLEMS/ OR INTELLECTUAL DEVELOPMENT DISORDER/ OR LEARNING DISABILITIES/ OR AGGRESSIVE BEHAVIOR/; 0 results.</p> <p>37. CINAHL; "challenging behav*".ti,ab; 821 results.</p> <p>38. CINAHL; exp ANXIETY DISORDERS/; 16221 results.</p> <p>39. CINAHL; 36 OR 37 OR 38; 17037 results.</p> <p>40. CINAHL; 35 AND 39; 5 results.</p> <p>41. CINAHL; vibrat*.ti,ab; 2089 results.</p> <p>42. CINAHL; 35 OR 41; 2602 results.</p> <p>43. CINAHL; 39 AND 42; 6 results.</p> <p>44. CINAHL; "adult sensory profile".ti,ab; 18 results.</p> <p>45. CINAHL; 42 OR 44; 2620 results.</p> <p>46. CINAHL; 39 AND 45; 8 results.</p> <p>47. CINAHL; SOCIAL BEHAVIOR DISORDERS/ OR DISRUPTIVE BEHAVIOR/; 3007 results.</p> <p>48. CINAHL; LEARNING DISORDERS/ OR INTELLECTUAL DISABILITY/; 13141 results.</p> <p>49. CINAHL; 39 OR 47 OR 48; 32405 results.</p> <p>50. CINAHL; 45 AND 49; 12 results.</p>	12	0
Summary	NA	NA	

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