

Best Evidence Summaries of Topics in Mental Healthcare

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

Question

In patients with symptoms of psychosis, how effective is the administration of intramuscular antipsychotic injection with a 1.5" needle (21 gauge) when compared to administration with a 2" needle (21 gauge) in ensuring the effective and safe uptake of medication?

Clarification of question using PICO structure

Patients: In patients with symptoms of psychosis

Intervention: the administration of intramuscular antipsychotic injection with a 1.5" needle (21 gauge)

Comparator: administration with a 2" needle (21 gauge)

Outcome: ensuring the effective and safe uptake of medication

Clinical and research implications

No directly relevant studies were found to answer this question.

What does the evidence say?

Number of included studies/reviews (number of participants): No directly relevant studies were identified.

Main Findings: n/a

Authors Conclusions: n/a

Reliability of conclusions/Strength of evidence: n/a

What do guidelines say?

No directly relevant UK based guidelines were identified.

Date question received: 27/01/2012

Date searches conducted: 30/01/2012

Date answer completed: 09/02/2012

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
<i>SRs and Guidelines</i>			
NICE	(Antipsychotic* Or Psycho*) AND (depot OR intramuscular)	90	0
DARE	#1. (needle) #2. (antipsychotic) #3. (antipsychotic*) #4. (needle size) #5. (drug administration) #6. (drug adj2 administration) #7. (intramuscular) #8. MeSH DESCRIPTOR Needles EXPLODE ALL TREES) #9. MeSH DESCRIPTOR Antipsychotic Agents EXPLODE ALL TREES #10. #1 OR #4 OR #7 OR #8 #11. #3 OR #5 OR #6 OR #9 #12. #10 AND #11	58	0
<i>Primary studies</i>			
CENTRAL	#1 (intramuscular antipsychotic injection) 155 edit delete #2 (needle) 5559 edit delete #3 MeSH descriptor Needles, this term only 639 edit delete #4 antipsychotic 4526 edit delete #5 MeSH descriptor Antipsychotic Agents explode all trees 7231 edit delete #6 (#2 OR #3) 5559 edit delete #7 (#4 OR #5) 8428 edit delete	0	0

	#8 (#6 AND #7) 14 edit delete #9 (needle size) 924 #10 (#5 and #9) 0		
MEDLINE	1 MEDLINE "needle size".ti,ab 216 2 MEDLINE NEEDLES/ 9587 3 MEDLINE antipsychotics.ti,ab 9505 4 MEDLINE exp ANTIPSYCHOTIC AGENTS/ 1273129 5 MEDLINE 3 OR 4 1275517 6 MEDLINE 1 AND 4 14 7 MEDLINE 1 OR 2 9695 8 MEDLINE 5 AND 7 389 9 MEDLINE "randomized controlled trial".pt 317997 10 MEDLINE "controlled clinical trial".pt 83347 11 MEDLINE randomized.ab 234036 12 MEDLINE placebo.ab 132225 13 MEDLINE "drug therapy".fs 1493432 14 MEDLINE randomly.ab 172223 16 MEDLINE groups.ab 1130665 17 MEDLINE 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 2853508 18 MEDLINE 8 AND 17 62 19 MEDLINE psychosis.ti,ab 19798 20 MEDLINE exp PSYCHOTIC DISORDERS/ 34589 21 MEDLINE 19 OR 20 45018 22 MEDLINE 18 AND 21 0	0	
EMBASE	22. EMBASE; "needle size".ti,ab; 271 results.	0	

<p>23. EMBASE; NEEDLES/; 19254 results.</p> <p>24. EMBASE; antipsychotics.ti,ab; 13830 results.</p> <p>25. EMBASE; exp ANTIPSYCHOTIC AGENTS/; 182242 results.</p> <p>26. EMBASE; 24 OR 25; 183598 results.</p> <p>27. EMBASE; 22 AND 25; 2 results.</p> <p>28. EMBASE; 22 OR 23; 19381 results.</p> <p>29. EMBASE; 26 AND 28; 48 results.</p> <p>30. EMBASE; 29 AND 17; 0 results.</p> <p>31. EMBASE; psychosis.ti,ab; 25970 results.</p> <p>32. EMBASE; exp PSYCHOTIC DISORDERS/; 181684 results.</p> <p>33. EMBASE; 31 OR 32; 185300 results.</p> <p>34. EMBASE; 26 AND 28 AND 33; 5 results.</p> <p>35. EMBASE; "intramuscular injection".ti,ab; 6612 results.</p> <p>36. EMBASE; INTRAMUSCULAR DRUG ADMINISTRATION/; 55007 results.</p> <p>37. EMBASE; 35 OR 36; 59142 results.</p> <p>38. EMBASE; 26 AND 33 AND 37; 1034 results.</p> <p>39. EMBASE; random*.ti,ab; 679439 results.</p> <p>40. EMBASE; factorial*.ti,ab; 17764 results.</p> <p>41. EMBASE; (crossover* OR cross-over*).ti,ab; 57930 results.</p> <p>42. EMBASE; placebo*.ti,ab; 164536 results.</p> <p>43. EMBASE; (doubl* ADJ blind*).ti,ab; 121034 results.</p> <p>44. EMBASE; (singl* ADJ blind*).ti,ab; 11484 results.</p> <p>45. EMBASE; assign*.ti,ab; 190075 results.</p> <p>46. EMBASE; allocat*.ti,ab; 63956 results.</p> <p>47. EMBASE; volunteer*.ti,ab; 148411 results.</p>		
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	<p>48. EMBASE; CROSSOVER PROCEDURE/; 31733 results.</p> <p>49. EMBASE; DOUBLE BLIND PROCEDURE/; 102763 results.</p> <p>50. EMBASE; RANDOMIZED CONTROLLED TRIAL/; 296357 results.</p> <p>51. EMBASE; SINGLE BLIND PROCEDURE/; 14735 results.</p> <p>52. EMBASE; 39 OR 40 OR 41 OR 42 OR 43 OR 44 OR 45 OR 46 OR 47 OR 48 OR 49 OR 50 OR 51; 1126624 results.</p> <p>53. EMBASE; 38 AND 52; 155 results.</p> <p>54. EMBASE; 22 AND 53; 0 results.</p>		
PsycINFO	<p>39. PsycINFO; "needle size".ti,ab; 7 results.</p> <p>40. PsycINFO; NEEDLES/; 0 results.</p> <p>41. PsycINFO; antipsychotics.ti,ab; 7953 results.</p> <p>42. PsycINFO; exp ANTIPSYCHOTIC AGENTS/; 0 results.</p> <p>43. PsycINFO; 41 OR 42; 7953 results.</p> <p>44. PsycINFO; 39 AND 42; 0 results.</p> <p>45. PsycINFO; 39 OR 40; 7 results.</p> <p>46. PsycINFO; 43 AND 45; 0 results.</p> <p>47. PsycINFO; 46 AND 17; 0 results.</p> <p>48. PsycINFO; psychosis.ti,ab; 23532 results.</p> <p>49. PsycINFO; exp PSYCHOTIC DISORDERS/; 0 results.</p> <p>50. PsycINFO; 48 OR 49; 23532 results.</p> <p>51. PsycINFO; "needle size".ti,ab; 7 results.</p> <p>52. PsycINFO; NEEDLES/; 0 results.</p> <p>53. PsycINFO; antipsychotics.ti,ab; 7953 results.</p> <p>54. PsycINFO; exp ANTIPSYCHOTIC AGENTS/; 0 results.</p> <p>55. PsycINFO; 53 OR 54; 7953 results.</p> <p>56. PsycINFO; 51 AND 54; 0 results.</p>	27	

<p>57. PsycINFO; 51 OR 52; 7 results.</p> <p>58. PsycINFO; 55 AND 57; 0 results.</p> <p>59. PsycINFO; 58 AND 17; 0 results.</p> <p>60. PsycINFO; psychosis.ti,ab; 23532 results.</p> <p>61. PsycINFO; exp PSYCHOTIC DISORDERS/; 0 results.</p> <p>62. PsycINFO; 60 OR 61; 23532 results.</p> <p>63. PsycINFO; 55 AND 57 AND 62; 0 results.</p> <p>64. PsycINFO; "intramuscular injection".ti,ab; 228 results.</p> <p>65. PsycINFO; INTRAMUSCULAR DRUG ADMINISTRATION/; 0 results.</p> <p>66. PsycINFO; 64 OR 65; 228 results.</p> <p>67. PsycINFO; 55 AND 62 AND 66; 1 results.</p> <p>68. PsycINFO; needle*.ti,ab; 3351 results.</p> <p>69. PsycINFO; exp NEUROLEPTIC DRUGS/; 22292 results.</p> <p>70. PsycINFO; exp PSYCHOSIS/; 81821 results.</p> <p>71. PsycINFO; INTRAMUSCULAR INJECTIONS/; 155 results.</p> <p>72. PsycINFO; 41 OR 69; 24393 results.</p> <p>73. PsycINFO; 48 OR 70; 90114 results.</p> <p>74. PsycINFO; 64 OR 71; 345 results.</p> <p>75. PsycINFO; 72 AND 73 AND 74; 50 results.</p> <p>76. PsycINFO; CLINICAL TRIALS/; 5727 results.</p> <p>77. PsycINFO; random*.ti,ab; 105392 results.</p> <p>78. PsycINFO; groups.ti,ab; 317013 results.</p> <p>79. PsycINFO; (double adj3 blind).ti,ab; 15527 results.</p> <p>80. PsycINFO; (single adj3 blind).ti,ab; 1147 results.</p> <p>81. PsycINFO; EXPERIMENTAL DESIGN/; 8122 results.</p> <p>82. PsycINFO; controlled.ti,ab; 65924 results.</p>		
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	83. PsycINFO; (clinical adj3 study).ti,ab; 6598 results. 84. PsycINFO; trial.ti,ab; 55473 results. 85. PsycINFO; "treatment outcome clinical trial".md; 20887 results. 86. PsycINFO; 76 OR 77 OR 78 OR 79 OR 80 OR 81 OR 82 OR 83 OR 84 OR 85; 485577 results. 87. PsycINFO; 75 AND 86; 28 results.		
Summary	NA	NA	

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