Guideline topic: ASD

General comments: Update guideline

Search coverage

Databases covered: Cochrane, Medline, Embase, Psychinfo

Date searched: **2006 - 2015**

Total hits:total SRs n = 864

Search strategies

The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesauri used in non-Medline databases. Search filters were added to identify studies of a particular type (systematic review, RCT etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.

ASD stem MKN prognosis and regression

1. exp Child Development Disorders, Pervasive/

2. autistic disorder.mp. or exp Autistic Disorder/

    3. asperger syndrome.mp. or exp Asperger Syndrome/

    4. pervasive development disorder.mp. or exp Child Development Disorders, Pervasive/

    5. pervasive development disorder.mp.

    6. asd.mp.

    7. pdd.mp.

8. pdd-nos.mp.

9. autis$.mp.

10. asperger$.ti,ab.

11. kanner.ti,ab.

12. childhood schizophrenia.mp. or exp Schizophrenia, Childhood/

13. childhood psychosis.mp.

14. rett syndrome.mp. or exp Rett Syndrome/

15. rett$ disorder.mp.

16. or/1-15

17. prognosis.sh.

18. diagnosed.tw.

19. cohort$.mp.

20. predictor$.tw.

21. death.tw.

22. exp models, statistical/

23. 17 or 18 or 19 or 20 or 21 or 22

24. 16 and 23

25. regression.mp. or *"Regression (Psychology)"/

26. 24 and 25

27. autis$.mp.

28. ASD.mp.

29. 27 or 28

30. 26 and 29

31. 26 and 27

32. limit 31 to (abstracts and english language and humans a -Current")

KQ01-04 NoF

1. ADOS.mp.

2. autism diagnostic observation schedule.mp.

3. ADI.mp.

4. Autism Diagnostic Interview.mp.

5. or/1-4

6. limit 5 to (abstracts and english language and humans and yr="2009 -Current")

KQ06 neuropsych assessment

1. exp Neuropsychological Tests/ or neuropsychological assessment.mp.

2. executive function tests.mp. or exp Executive Function/

3. NEPSY.mp.

4. theory of mind.mp. or exp "Theory of Mind"/

5. memory for faces.mp.

6. affect regulation.mp.

7. exp Neuropsychological Tests/

8. deliskaplan.mp.

9. DKEFS.mp.

10. BADS.mp.

11. WAIS.mp.

12. weschler.mp.

13. BRIEF.mp.

14. Happe stories.mp.

15. strange stories.mp.

16. or/1-15

KQ06

1. NEPSY.mp.

2. deliskaplan.mp.

3. DKEFS.mp.

4. BADS.mp.

5. behavioural assessment of dysexecutive syndrome.mp.

6. *Wechsler Scales/ or WISC.mp.

7. WMS.mp.

8. weschler.mp.

9. BRIEF.mp.

10. happe.mp.

11. or/1-10

KQ08 subq computer based interventions

1. exp Computer-Assisted Instruction/ or computer based intervention.mp.

2. *Computer Simulation/ or *User-Computer Interface/ or virtual reality intervention.mp.

3. 1 or 2

4. exp Child Development Disorders, Pervasive/

5. autistic disorder.mp. or exp Autistic Disorder/

6. asperger syndrome.mp. or exp Asperger Syndrome/

7. pervasive development disorder.mp. or exp Child Development Disorders, Pervasive/

8. pervasive development disorder.mp.

9. asd.mp.

10. pdd.mp.

11. pdd-nos.mp.

12. autis$.mp.

13. asperger$.ti,ab.

14. kanner.ti,ab.

15. childhood schizophrenia.mp. or exp Schizophrenia, Childhood/

16. childhood psychosis.mp.

17. rett syndrome.mp. or exp Rett Syndrome/

18. rett$ disorder.mp.

19. or/4-18

20. 3 and 19

21. limit 20 to (abstracts and english language and humans)

22. limit 21 to yr="2008 -Current"

KQ09

1. *"Early Intervention (Education)"/ or early intensive behaviour interventions.mp.

2. EIBI.mp. or *"Early Intervention (Education)"/

3. (early adj intensive adj behav$ adj intervention).mp.

4. or/1-3

KQ10
2010 onwards children and adol only

1. *Behavior Therapy/ or *Cognitive Therapy/ or *Psychotherapy/ or psychological therapies.mp.

2. cognitive remediation therapy.mp.

3. cognitive behavioural therapy.mp.

4. cognitive behavioral therapy.mp.

5. or/1-4

6. limit 5 to (abstracts and english language and humans and yr="2010 -Current" and "all child (0 to 18 years)")

KQ12
1. *Sleep Disorders, Circadian Rhythm/ or *Sleep Disorders, Intrinsic/ or *REM Sleep Behavior Disorder/ or sleep.mp. or *Sleep Arousal Disorders/ or *"Sleep Initiation and Maintenance Disorders"/ or *Sleep/ or *Sleep-Wake Transition Disorders/ or *REM Sleep Parasomnias/ or *Sleep Disorders/

2. sleep hygiene.mp.

3. sleep pattern.mp.

4. or/1-3

5. limit 4 to (abstracts and english language and humans and yr="2012 -Current")

6. cognitive behavioral therapy.mp. or *Cognitive Therapy/

7. CBT.mp.

8. sleep program$.mp.

9. sleep train$.mp.

10. sleep management.mp.

11. sleep counsel$.mp.

12. *Fatty Acids, Unsaturated/ or *Fatty Acids, Omega-3/ or omega3.mp.

13. melatonin.mp. or *Melatonin/

14. or/6-13

15. 14 and 5

KQ13

1. *Fatty Acids, Omega-3/ or omega-3.mp.

2. *Glutens/ or *Celiac Disease/ or gluten-free.mp.

3. *Milk/ or *Caseins/ or casein-free.mp. or *Diet, Gluten-Free/

4. or/1-3

5. limit 4 to (abstracts and english language and humans and yr="2013 -Current")

KQ14
combine with stem

1. *Fatty Acids, Unsaturated/ or *Fatty Acids, Omega-3/ or *Fatty Acids, Essential/ or omega3.mp.

2. *Diet, Gluten-Free/ or *Glutens/ or gluten free.mp.

3. *Caseins/ or *Milk/ or casein free.mp. or *Dietary Proteins/

4. or/1-3

5. limit 4 to (abstracts and english language and humans and yr="2012 -Current")

KQ15

1. *Education, Special/ or special educational setting.mp.

2. *Education, Special/ or *"Mainstreaming (Education)"/ or inclusive education.mp.

3. education setting.mp.

4. *"Delivery of Health Care"/ or specialised service.mp.

5. service organisation.mp.

6. *Patient Care Team/ or multidisciplinary service.mp.

7. multidisciplinary service.mp.

8. single practitioner.mp.

9. *Outpatient Clinics, Hospital/ or day assessment.mp.

10. single service.mp.

11. *Home Care Services/ or home based.mp.

12. *Patient Education as Topic/ or home education.mp.

13. *"Organization and Administration"/ or service unit.mp.

14. *Schools/ or classroom based intervention.mp.

15. or/1-14

16. limit 15 to (abstracts and english language and humans and yr="2009 -Current")

KQ19
2011 onwards

1. diagnostic assessment.mp.

2. validity.mp.

3. *"Predictive Value of Tests"/ or *"Sensitivity and Specificity"/ or positive predictive value.mp.

4. *Neuropsychological Tests/ or battery of tests.mp.

5. diagnostic instrument.mp. or *Psychometrics/

6. *"Reproducibility of Results"/ or validity testing.mp.

7. *Evaluation Studies as Topic/ or *"Reproducibility of Results"/ or reliability.mp.

8. diagnostic test.mp. or *Diagnostic Tests, Routine/

9. or/1-8

10. limit 9 to (abstracts and english language and humans and yr="2011 -Current")

KQ20

1. psychosocial intervention.mp.

2. applied behavioural analysis.mp.

3. *Behavior Therapy/ or applied behavioral analysis.mp.

4. *Cognitive Therapy/ or behavioral intervention.mp.

5. behavioural intervention.mp.

6. *Mentors/ or mentoring.mp.

7. *Social Support/ or befriending.mp.

8. *Social Adjustment/ or *Psychotherapy/ or social therapy.mp.

9. or/1-8

10. limit 9 to (english language and humans and yr="2011 -Current" and "all adult (19 plus years)")

gender dysphoria sub search

1. *Transvestism/ or *Transgendered Persons/ or *Gender Identity/ or *Transsexualism/ or *Homosexuality/ or gender dysphoria.mp. or *Sexual Behavior/

2. exp Child Development Disorders, Pervasive/

3. autistic disorder.mp. or exp Autistic Disorder/

4. asperger syndrome.mp. or exp Asperger Syndrome/

5. pervasive development disorder.mp. or exp Child Development Disorders, Pervasive/

6. pervasive development disorder.mp.

7. asd.mp.

8. pdd.mp.

9. pdd-nos.mp.

10. autis$.mp.

11. asperger$.ti,ab.

12. kanner.ti,ab.

13. childhood schizophrenia.mp. or exp Schizophrenia, Childhood/

14. childhood psychosis.mp.

15. rett syndrome.mp. or exp Rett Syndrome/

16. rett$ disorder.mp.

17. or/2-16

18. 1 and 17

Non pharm programmes and therapies
as in prev guideline and sugg by group

1. (child's adj talk).mp.

2. (childs adj talk).mp.

3. (augmentive adj communication).mp.

4. (virtual adj reality adj training).mp.

5. DDAT.mp.

6. (dyslexia adj dyspraxia adj attention adj deficit adj treatment).mp.

7. dolphin.mp.

8. earlybird.mp.

9. (early adj bird).mp.

10. (facilitated adj communication).mp.

11. (gentle adj teac$).mp.

12. (growing adj min$).mp.

13. (intensive adj interaction).mp.

14. (hanen adj parent adj program$).mp.

15. WILSTAAR.mp.

16. (heavy adj metal adj chelation).mp.

17. HELP.mp.

18. (holding adj therapy).mp.

19. (light and sound therapy).mp.

20. LOVAAS.mp.

21. ABA.mp.

22. applied behavioural analysis.mp.

23. applied behavioral analysis.mp.

24. makaton.mp.

25. (movement programme or movement program).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

26. auditory integration therapy.mp.

27. tomatis method.mp.

28. peer mediated intervention.mp.

29. picture exchange communication.mp.

30. portage.mp.

31. precision teaching.mp.

32. autogenic training.mp.

33. psychodynamic psychotherapy.mp.

34. self awareness training.mp.

35. sensory integration therapy.mp.

36. social communication therapy.mp.

37. social integration training.mp.

38. social skills training.mp.

39. daily life training.mp.

40. social stories.mp.

41. SONRISE.mp.

42. SPELL.mp.

43. SPIRALS.mp.

44. talking mats.mp.

45. TEAACH.mp.

46. (treatment and education of autistic and related communication in handicapped children).mp.

47. teaching methods.mp.

48. brain gym.mp.

49. theory of mind training.mp.

50. total communication.mp.

51. verbal behaviour.mp.

52. verbal behavior.mp.

53. visual language.mp.

54. visual therapies.mp.

55. visual therapy.mp.

56. colorimetric therapy.mp.

57. irlen.mp.

58. orthoptics.mp.

59. challenging behavio$r intervention$.mp.

60. discrete trial training.mp.

61. pivotal response training.mp.

62. incidental teaching.mp.

63. healthy minds.mp.

64. relationship development intervention.mp.

65. verbal behavio?r therapy.mp.

66. emotion talk.mp.

67. growing minds.mp.

68. intensive interaction therapy.mp.

69. intensive interaction program*.mp.

70. comic strip conversation.mp.

71. autogenic training.mp.

72. attachment program.mp.

73. circle of friends.mp.

74. social stories.mp.

75. DENVER model.mp.

76. early start.mp.

77. befriending.mp.

78. PEERS.mp.

79. peer mediated.mp.

80. more than words.mp.

81. playbox.mp.

82. SCERTS.mp.

83. social communication emotion regulation transaction support.mp.

84. Greenspan.mp.

85. developmental individual difference relationship based model.mp.

86. faciliated communication.mp.

87. british sign language.mp.

88. signed communication.mp.

89. language training.mp.

90. visual symbols.mp.

91. total communication.mp.

92. desensiti#ation therapy.mp.

93. Berard.mp.

94. listening program.mp.

95. Samonas sound.mp.

96. white noise.mp.

97. hyperacusis prevention.mp.

98. sound masking.mp.

99. pet therapy.mp.

100. animal therapy.mp.

101. hyperbaric therapy.mp.

102. feeding therap*.mp.

103. dietary exclusion.mp.

104. casein free.mp.

105. lactose free.mp.

106. gluten free.mp.

107. sensation disorder.mp.

108. or/1-107

109. limit 108 to (abstracts and english language and yr="2011 -Current")

Generic stem

ASD stem

1. exp Child Development Disorders, Pervasive/

2. autistic disorder.mp. or exp Autistic Disorder/

3. asperger syndrome.mp. or exp Asperger Syndrome/

4. pervasive development disorder.mp. or exp Child Develo

5. pervasive development disorder.mp.

6. asd.mp.

7. pdd.mp.

8. pdd-nos.mp.

9. autis$.mp.

10. asperger$.ti,ab.

11. kanner.ti,ab.

12. childhood schizophrenia.mp. or exp Schizophrenia, Chil

13. childhood psychosis.mp.

14. rett syndrome.mp. or exp Rett Syndrome/

15. rett$ disorder.mp.

16. or/1-15

Results of searching

KQ	864 SRs	Extra searching
KQ01	7 SR, 2 selected, used NICE	--
KQ01a	3 SR sifted, 3SR selected,	N=218, 2 NOF 2015 onwards, 1 selected
KQ03	2SR, 1 SR selected, used NICE	--
KQ04	3 SR, 1 SR selected	N=218, 16 NOF 2012 onwards, 0 selected
KQ05	3 SR, 3 SR selected used NICE	--
KQ06	8 SR sifted, 0 selected	--
KQ07	4 SR sifted, 0 selected	--
KQ08	53 SR,4 SR selected, used NICE	N=2021, 14 NOF 2008 onwards, 0 selected
KQ08a	16 SR sifted, 2 SR selected	N=4858, 2 NOF, 2 selected
KQ09	26 SR, 8 selected	N=4858, 5 NoF 2012 onwards, 0 selected
KQ10	14 SR, 4 SR selected	N=4858, 22 NOF 2012 onwards, 0 selected
KQ11	4 SR sifted , 4 selected	--
KQ12	6 SR, 1SR selected and NICE	N=4858, 5 NOF 2011 onwards, 2 selected
KQ13	14 SR, 3 SR selected	N= 256, 3 NOF 2013 onwards, 1 selected
KQ14	42 SR, 13 selected	N= 131, 29 NOF 2012 onwards,
KQ15	4 SR, 0 selected	N= 338, 10 NOF2012 onwards, 4 selected
KQ16	1 SR, 0 selected, used NICE	N=3119,15 NOF 2012 onwards, 8 selected
KQ17	2 SR, 0 selected, used NICE	N=3119, 10 NOF 2012 onwards, 1 selected
KQ18	1 SR, 1 SR selected, used NICE	N=3119, 23 NOF 2012 onwards, 6 selected
KQ18a	1 SR, 1 SR selected	N=3119, 1 NOF 2012 onwards, 1 selected
KQ19	6 SR, 0 selected	N=2538,32 NOF 2012 onwards, 4 selected
KQ20	31 SR, 0 selected, used NICE	N=338, 11 NOF, 4 selected
KQ21	7 SR, 3 selected, used NICE	N=1720, 10 NOF, 1 selected
KQ22	Used NICE	--