

Appendix
Table S1: Search Strategies by Database

PubMed (searched 4/30/19)	Cochrane Library (Wiley; searched 4/30/19)	CINAHL Complete (EBSCO; searched 4/30/19)	Web of Knowledge (Clarivate Analytics; All Databases; searched 4/30/19)	ClinicalTrials.gov (searched 4/30/19)	PEDro (searched 4/30/19)
1. "Autistic Disorder"[Mesh] 2. "Autism Spectrum Disorder"[Mesh] 3. autism 4. autistic 5. 1-4/OR 6. "Postural Balance"[Mesh] 7. "Physical Fitness"[Mesh] 8. "Athletic Performance"[Mesh] 9. "Physical Endurance"[Mesh] 10. "Baseball"[Mesh] 11. "Basketball"[Mesh] 12. "Bicycling"[Mesh] 13. "Boxing"[Mesh] 14. "Football"[Mesh] 15. "Golf"[Mesh] 16. "Gymnastics"[Mesh] 17. "Hockey"[Mesh] 18. "Martial Arts"[Mesh] 19. "Tai Ji"[Mesh] 20. "Mountaineering"[Mesh] 21. "Racquet Sports"[Mesh] 22. "Tennis"[Mesh] 23. "Skating"[Mesh] 24. "Snow Sports"[Mesh] 25. "Skiing"[Mesh]	1. MeSH descriptor: [Autistic Disorder] explode all trees 2. MeSH descriptor: [Autism Spectrum Disorder] explode all trees 3. autism:ti,ab,kw (Word variations have been searched) 4. autistic:ti,ab,kw (Word variations have been searched) 5. 1-4/OR 6. MeSH descriptor: [Postural Balance] explode all trees 7. MeSH descriptor: [Physical Fitness] explode all trees 8. MeSH descriptor: [Athletic Performance] explode all trees 9. MeSH descriptor: [Physical Endurance] explode all trees 10. MeSH descriptor: [Baseball] explode all trees 11. MeSH descriptor: [Basketball] explode all trees 12. MeSH descriptor: [Bicycling] explode all trees 13. MeSH descriptor: [Boxing] explode all trees 14. MeSH descriptor: [Football] explode all trees 15. MeSH descriptor: [Golf] explode all trees 16. MeSH descriptor: [Gymnastics] explode all trees 17. MeSH descriptor: [Hockey] explode all trees 18. MeSH descriptor: [Tai Ji] explode all trees 19. MeSH descriptor: [Mountaineering] explode all trees 20. MeSH descriptor: [Racquet Sports] explode all trees 21. MeSH descriptor: [Tennis] explode all trees 22. MeSH descriptor: [Skating] explode all trees 23. MeSH descriptor: [Snow Sports] explode all trees 24. MeSH descriptor: [Skiing] explode all trees 25. MeSH descriptor: [Soccer] explode all trees 26. MeSH descriptor: [Sports for Persons with Disabilities] explode all trees 27. MeSH descriptor: [Track and Field] explode all trees 28. MeSH descriptor: [Youth Sports] explode all trees 29. MeSH descriptor: [Wrestling] explode all trees 30. MeSH descriptor: [Weight Lifting] explode all trees 31. MeSH descriptor: [Equine-Assisted Therapy] explode all trees	1. boy* 2. Girl* 3. Toddler* 4. Perinatology 5. Neonatology 6. Pediatric 7. Pediatrics 8. Minor* 9. Youth* 10. Preteens 11. Preteen 12. Prepubescence 13. Prepubescent* 14. pubertal 15. Preadolescence 16. Preadolescent* 17. Teenager* 18. teen* 19. Adolescence 20. Adolescent* 21. Childhood 22. Children 23. Postpremature 24. Premature 25. Preterm 26. Infancy 27. Neonatal 28. Natal 29. Babies 30. Baby 31. newborn*	1. TOPIC: (autistic) 2. TOPIC: (autism) 3. 1-2/OR 4. TOPIC: (jogging) 5. TOPIC: (treadmill) 6. TOPIC: (walking) 7. TOPIC: (throwing) 8. TOPIC: (dance) 9. TOPIC: (skateboarding) 10. TOPIC: (exergaming) 11. TOPIC: (snowshoeing) 12. TOPIC: (trampoline) 13. TOPIC: ("horse riding") 14. TOPIC: (hippotherapy) 15. TOPIC: ("aquatic exercise") 16. TOPIC: (swimming) 17. TOPIC: (agility) 18. TOPIC: (running) 19. TOPIC: ("aerobic training") 20. TOPIC: ("strength training") 21. TOPIC: (coordination) 22. TOPIC: ("balance training") 23. TOPIC: ("weight bearing exercise") 24. TOPIC: (exercise) 25. TOPIC: ("physical activity")	(Autism Spectrum Disorder [DISEASE] OR autism OR autistic) AND (motor skills OR "motor intervention" OR coordination OR balance) AND (child OR youth OR teen OR pediatric)	1. Autis* AND activ* 2. Autis* AND motor 3. Autis* AND exercise 4. Autis* AND "physical therapy"

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26. "Soccer"[Mesh] 27. "Sports for Persons with Disabilities"[Mesh] 28. "Track and Field"[Mesh] 29. "Youth Sports"[Mesh] 30. "Wrestling"[Mesh] 31. "Weight Lifting"[Mesh] 32. "Equine-Assisted Therapy"[Mesh] 33. "Hydrotherapy"[Mesh] 34. "Games, Recreational"[Mesh] 35. "Motor Skills"[Mesh] 36. "motor intervention" 37. "Physical Therapy Modalities"[Mesh] 38. "Physical Therapists"[Mesh] 39. "physical therapy" 40. "Braces"[Mesh] 41. "Foot Orthoses"[Mesh] 42. "motor learning" 43. "motor skill acquisition" 44. "behavior skills training" 45. "task specific training" 46. "physical activity" 47. exercise 48. "weight bearing exercise" 49. "balance training" 50. coordination	32. MeSH descriptor: [Hydrotherapy] explode all trees 33. MeSH descriptor: [Games, Recreational] explode all trees 34. MeSH descriptor: [Motor Skills] explode all trees 35. motor intervention:ti,ab,kw (Word variations have been searched) 36. MeSH descriptor: [Physical Therapy Modalities] explode all trees 37. MeSH descriptor: [Physical Therapists] explode all trees 38. physical therapy:ti,ab,kw (Word variations have been searched) 39. MeSH descriptor: [Braces] explode all trees 40. MeSH descriptor: [Foot Orthoses] explode all trees 41. motor learning:ti,ab,kw (Word variations have been searched) 42. motor skill acquisition:ti,ab,kw (Word variations have been searched) 43. behavior skills training:ti,ab,kw (Word variations have been searched) 44. task specific training:ti,ab,kw (Word variations have been searched) 45. physical activity:ti,ab,kw (Word variations have been searched) 46. exercise:ti,ab,kw (Word variations have been searched) 47. weight bearing exercise:ti,ab,kw (Word variations have been searched) 48. balance training:ti,ab,kw (Word variations have been searched) 49. coordination:ti,ab,kw (Word variations have been searched) 50. strength training:ti,ab,kw (Word variations have been searched) 51. aerobic training:ti,ab,kw (Word variations have been searched)	32. child* 33. Infant 34. (MH "Intensive Care Units, Pediatric+") 35. (MH "Intensive Care Units, Neonatal") 36. (MH "Hospitals, Pediatric") 37. (MH "Pediatrics+") 38. (MH "Minors (Legal)") 39. (MH "Adolescence+") 40. (MH "Child+") 41. (MH "Infant+") 42. 1-41/OR 43. jogging 44. treadmill 45. walking 46. throwing 47. dance 48. skateboarding 49. exergaming 50. skating 51. snowshoeing 52. trampoline 53. "horse riding"	26. TOPIC: ("task specific training") 27. TOPIC: ("behavior skills training") 28. TOPIC: ("motor skill acquisition") 29. TOPIC: ("motor learning") 30. TOPIC: ("Foot Orthoses") 31. TOPIC: ("Physical Therapists") 32. TOPIC: ("physical therapy") 33. TOPIC: ("motor intervention") 34. TOPIC: ("Motor Skills") 35. TOPIC: (Hydrotherapy) 36. TOPIC: ("Equine-Assisted Therapy") 37. TOPIC: ("Weight Lifting") 38. TOPIC: (Wrestling) 39. TOPIC: ("Youth Sports") 40. TOPIC: ("Track and Field") 41. TOPIC: ("Sports for Persons with Disabilities") 42. TOPIC: (Soccer) 43. TOPIC: (Skiing) 44. TOPIC: ("Snow Sports") 45. TOPIC: (Skating) 46. TOPIC: (Tennis) 47. TOPIC: ("Racquet Sports") 48. TOPIC: (Mountaineering)		

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51. "strength training" 52. "aerobic training" 53. running 54. agility 55. swimming 56. aquatic exercise 57. hydrotherapy 58. hippotherapy 59. "equine assisted therapy" 60. "horse riding" 61. trampoline 62. snowshoeing 63. skating 64. exergaming 65. skateboarding 66. dance 67. throwing 68. walking 69. treadmill 70. jogging 71. 6-70/OR 72. "Infant"[Mesh] 73. "Child"[Mesh] 74. "Adolescent"[Mesh] 75. "Minors"[Mesh] 76. "Pediatrics"[Mesh] 77. "Hospitals, Pediatric"[Mesh] 78. "Intensive Care Units, Neonatal"[MeSH]	52. running:ti,ab,kw (Word variations have been searched) 53. agility:ti,ab,kw (Word variations have been searched) 54. swimming:ti,ab,kw (Word variations have been searched) 55. aquatic exercise:ti,ab,kw (Word variations have been searched) 56. hydrotherapy:ti,ab,kw (Word variations have been searched) 57. hippotherapy:ti,ab,kw (Word variations have been searched) 58. equine assisted therapy:ti,ab,kw (Word variations have been searched) 59. horse riding:ti,ab,kw (Word variations have been searched) 60. trampoline:ti,ab,kw (Word variations have been searched) 61. snowshoeing:ti,ab,kw (Word variations have been searched) 62. skating:ti,ab,kw (Word variations have been searched) 63. exergaming:ti,ab,kw (Word variations have been searched) 64. skateboarding:ti,ab,kw (Word variations have been searched) 65. dance:ti,ab,kw (Word variations have been searched) 66. throwing:ti,ab,kw (Word variations have been searched) 67. walking:ti,ab,kw (Word variations have been searched) 68. treadmill:ti,ab,kw (Word variations have been searched) 69. jogging:ti,ab,kw (Word variations have been searched) 70. 6-69/OR	54. "equine assisted therapy" 55. hippotherapy 56. hydrotherapy 57. aquatic exercise 58. swimming 59. agility 60. running 61. "aerobic training" 62. "strength training" 63. coordination 64. "balance training" 65. "weight bearing exercise" 66. exercise 67. "physical activity" 68. "task specific training" 69. "behavior skills training" 70. "motor skill acquisition" 71. "motor learning" 72. (MH "Foot Orthoses") 73. "physical therapy"	49. TOPIC: ("Tai Ji") 50. TOPIC: ("Martial Arts") 51. TOPIC: (Hockey) 52. TOPIC: (Gymnastics) 53. TOPIC: (Golf) 54. TOPIC: (Football) 55. TOPIC: (Boxing) 56. TOPIC: (Bicycling) 57. TOPIC: (Basketball) 58. TOPIC: (Baseball) 59. TOPIC: ("Physical Endurance") 60. TOPIC: ("Athletic Performance") 61. TOPIC: ("Physical Fitness") 62. TOPIC: ("Postural Balance") 63. 4-62/OR 64. TOPIC: (Boy) 65. TOPIC: (Girl) 66. TOPIC: (Toddler) 67. TOPIC: (Perinatology) 68. TOPIC: (Neonatology) 69. TOPIC: (Pediatric) 70. TOPIC: (Minor) 71. TOPIC: (Youth) 72. TOPIC: (Preteen) 73. TOPIC: (Prepubescence) 74. TOPIC: (Prepubescent) 75. TOPIC: (pubertal)		

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79. "Intensive Care Units, Pediatric"[Mesh] 80. Infant 81. Infants 82. Newborn 83. Newborns 84. Baby 85. Babies 86. Natal 87. Neonatal 88. Infancy 89. Preterm 90. Premature 91. Postpremature 92. Child 93. Children 94. Childhood 95. Adolescent 96. Adolescents 97. Adolescence 98. Teen 99. Teens 100. Teenager 101. Teenagers 102. Preadolescent 103. Preadolescents 104. Preadolescence 105. pubertal 106. Prepubescent 107. Prepubescents 108. Prepubescence	71. MeSH descriptor: [Infant] explode all trees 72. MeSH descriptor: [Child] explode all trees 73. MeSH descriptor: [Adolescent] explode all trees 74. MeSH descriptor: [Minors] explode all trees 75. MeSH descriptor: [Pediatrics] explode all trees 76. MeSH descriptor: [Hospitals, Pediatric] explode all trees 77. MeSH descriptor: [Intensive Care Units, Neonatal] explode all trees 78. MeSH descriptor: [Intensive Care Units, Pediatric] explode all trees 79. Infant:ti,ab,kw (Word variations have been searched) 80. Infants:ti,ab,kw (Word variations have been searched) 81. Newborn:ti,ab,kw (Word variations have been searched) 82. Newborns:ti,ab,kw (Word variations have been searched) 83. Baby:ti,ab,kw (Word variations have been searched) 84. Babies:ti,ab,kw (Word variations have been searched) 85. Natal:ti,ab,kw (Word variations have been searched) 86. Neonatal:ti,ab,kw (Word variations have been searched) 87. Infancy:ti,ab,kw (Word variations have been searched) 88. Preterm:ti,ab,kw (Word variations have been searched) 89. Premature:ti,ab,kw (Word variations have been searched) 90. Postpremature:ti,ab,kw (Word variations have been searched) 91. Child:ti,ab,kw (Word variations have been searched) 92. Children:ti,ab,kw (Word variations have been searched)	74. (MH "Physical Therapists") 75. (MH "Physical Therapy+") 76. "motor intervention" 77. (MH "Motor Skills+") 78. (MH "Recreational Therapy") 79. (MH "Hydrotherapy+") 80. (MH "Equine-Assisted Therapy") 81. (MH "Weight Lifting") 82. (MH "Wrestling") 83. (MH "Track and Field") 84. (MH "Soccer") 85. (MH "Skiing+") 86. (MH "Winter Sports+") 87. (MH "Skating+") 88. (MH "Tennis") 89. (MH "Racquet Sports+")	76. TOPIC: (Preadolescence) 77. TOPIC: (Preadolescent) 78. TOPIC: (Adolescence) 79. TOPIC: (Adolescent) 80. TOPIC: (Child) 81. TOPIC: (Postpremature) 82. TOPIC: (Premature) 83. TOPIC: (Preterm) 84. TOPIC: (Infancy) 85. TOPIC: (Neonatal) 86. TOPIC: (Natal) 87. TOPIC: (Babies) 88. TOPIC: (Baby) 89. TOPIC: (Newborn) 90. TOPIC: (Infant) 91. 64-90/OR 92. 3 AND 63 AND 91		

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109. Preeteen 110. Preteens 111. Youth 112. Youths 113. Minor 114. Minors 115. Pediatrics 116. Pediatric 117. Neonatology 118. Perinatology 119. Toddler 120. Toddlers 121. Girl 122. girls 123. Boy 124. Boys 125. 72-124/OR 126. 5 AND 71 AND 125	93. Childhood:ti,ab,kw (Word variations have been searched) 94. Adolescent:ti,ab,kw (Word variations have been searched) 95. Adolescents:ti,ab,kw (Word variations have been searched) 96. Adolescence:ti,ab,kw (Word variations have been searched) 97. Teen:ti,ab,kw (Word variations have been searched) 98. Teens:ti,ab,kw (Word variations have been searched) 99. Teenager:ti,ab,kw (Word variations have been searched) 100. Teenagers:ti,ab,kw (Word variations have been searched) 101. Preadolescent:ti,ab,kw (Word variations have been searched) 102. Preadolescents:ti,ab,kw (Word variations have been searched) 103. Preadolescence:ti,ab,kw (Word variations have been searched) 104. pubertal:ti,ab,kw (Word variations have been searched) 105. Prepubescent:ti,ab,kw (Word variations have been searched) 106. Prepubescents:ti,ab,kw (Word variations have been searched) 107. Prepubescence:ti,ab,kw (Word variations have been searched) 108. Preeteen:ti,ab,kw (Word variations have been searched) 109. Preteens:ti,ab,kw (Word variations have been searched) 110. Youth:ti,ab,kw (Word variations have been searched)	90. (MH "Mountaineering") 91. (MH "Tai Chi") 92. (MH "Martial Arts") 93. (MH "Hockey") 94. (MH "Gymnastics") 95. (MH "Golf") 96. (MH "Football") 97. (MH "Boxing") 98. (MH "Cycling") 99. (MH "Basketball") 100. (MH "Baseball") 101. (MH "Physical Endurance+") 102. (MH "Athletic Performance") 103. (MH "Physical Fitness+") 104. (MH "Balance, Postural") 105. 43-104/OR 106. autistic 107. autism 108. (MH "Autistic Disorder") 109. 106-108/OR			

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	111. Youths:ti,ab,kw (Word variations have been searched) 112. Minor:ti,ab,kw (Word variations have been searched) 113. Minors:ti,ab,kw (Word variations have been searched) 114. Pediatrics:ti,ab,kw (Word variations have been searched) 115. Pediatric:ti,ab,kw (Word variations have been searched) 116. Neonatology:ti,ab,kw (Word variations have been searched) 117. Perinatology:ti,ab,kw (Word variations have been searched) 118. Toddler:ti,ab,kw (Word variations have been searched) 119. Toddlers:ti,ab,kw (Word variations have been searched) 120. Girl:ti,ab,kw (Word variations have been searched) 121. girls:ti,ab,kw (Word variations have been searched) 122. Boy:ti,ab,kw (Word variations have been searched) 123. Boys:ti,ab,kw (Word variations have been searched) 124. 71-123/OR 125. 5 and 70 and 124	110. 42 AND 105 AND 109			