Search strategies for
Melatonin for neurodevelopmental disorders and non-respiratory sleep disorders
Preliminary searches prepared 3 June 2022

Cochrane Central Register of Controlled Trials (latest issue) in the Cochrane Library
#1 MeSH descriptor: [Neurodevelopmental Disorders] explode all trees
#2 MeSH descriptor: [Central Nervous System Diseases] explode all trees
#3 MeSH descriptor: [Intellectual Disability] explode all trees
#4 (((neurodevelopment* or neurotic* or development* or mental* or central nervous system or cns or intellectual* or (disruptive or child) and behavio*) or Communicati* or speech* or language or Learning or Motor* or psychomotor or Reactive Attachment* or Stereotypic Movement*) and (disease* or disorder* or disabilit* or syndrom* or dysfunction* or impair* or deficiency* or retardation*)) or neurodisabilit* or neuro-disabilit* or idiocy or dyslexia or dyscalculia or autis* or kanner* or ASD or Asperger* or attention deficit* or ADHD* or ADDH or hyperactivity* or impulsiv* cerebral pals* or spastic displaq* or epilep* or mutism* or tic* or Tourette* or (happ* or child* and puppet* or fragile x or Frax* or angelman* or prader-willi* or rett* or smith-magenis or williams or Cri-du-Chat or De Lange or down* or Coffin-Lowry or Lech-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophrenia* or Adrenoleukodystrophy or Mucopolysaccharidosis)
#5 #1 or #2 or #3 or #4
#6 MeSH descriptor: [Melatonin] explode all trees
#7 (melatonin* or Circadin* or Slenyto* or (5-Methoxy near Acetyl near tryptamin*))
#8 #6 or #7
#9 #5 and #8
#10 MeSH descriptor: [Adolescent] explode all trees
#11 MeSH descriptor: [Child] explode all trees
#12 MeSH descriptor: [Infant] explode all trees
#13 MeSH descriptor: [Pediatrics] explode all trees
#14 (baby or babies or infant* or child* or toddler* or pre-school* or preschool* or adolescent* or teen* or schoolchild* or schoolage* or pediatric* or paediatric*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
#15 #10 or #11 or #12 or #13 or #14
#16 #9 and #15

MEDLINE Ovid (1946 to the date of the search)
1. exp Neurodevelopmental Disorders/
2. exp Central Nervous System Diseases/
3. exp Intellectual Disability/
4. (((neurodevelopment* or neurotic* or development* or mental* or central nervous system or cns or intellectual* or (disruptive or child) and behavio*) or Communicati* or speech* or language or Learning or Motor* or psychomotor or Reactive Attachment* or Stereotypic Movement*) and (disease* or disorder* or disabilit* or syndrom* or dysfunction* or impair* or deficiency* or retardation*)) or neurodisabilit* or neuro-disabilit* or idiocy or dyslexia or dyscalculia or autis* or kanner* or ASD or Asperger* or attention deficit* or ADHD* or ADDH or hyperactivity* or impulsiv* cerebral pals* or spastic displaq* or epilep* or mutism* or tic* or Tourette* or (happ* or child* and puppet* or fragile x or Frax* or angelman* or prader-willi* or rett* or smith-magenis or williams or Cri-du-Chat or De Lange or down* or Coffin-Lowry or Lech-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophrenia* or Adrenoleukodystrophy or Mucopolysaccharidosis).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
5. 1 or 2 or 3 or 4
6. exp Melatonin/
7. (melatonin* or Circadin* or Slenyto* or 5-Methoxy-N-Acetyltryptamin* or N-Acetyl-5-Methoxytryptamin*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
8. 6 or 7
9. 5 and 8
10. exp adolescent/ or exp child/ or exp infant/
11. exp Pediatrics/
12. (baby or babies or infant* or child* or toddler* or pre-school* or preschool* or adolescent* or teen* or schoolchild* or schoolage* or pediatric* or paediatric*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
13. 10 or 11 or 12
14. 9 and 13
15. (randomized controlled trial or controlled clinical trial or retracted publication or retraction of publication).pt. or clinical trials as topic.sh. or trial.ti.
16. (random* or blind* or placebo*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
17. 14 and (15 or 16)

**Embase Ovid (1974 to the date of the search)**
1. exp mental disease/
2. exp central nervous system disease/
3. exp intellectual impairment/
4. (((neurodevelopment* or neurotic* or development* or mental* or central nervous system or cns or intellectual* or (disruptive or child) and behavior* or Communicati* or speech* or language or Learning or Motor* or psychomotor or Reactive Attachment* or Stereotypic Movement*) and (disease* or disorder* or disability* or syndrome* or dysfunction* or impairment* or deficiency* or retardation*)) or neurodisability* or neuro-disability* or idiocy or dyslexia or dyscalculia or autism* or kanner* or ASD or Asperger* or attention deficit* or ADHD* or ADDH or hyperactivity* or impulsivi* cerebral pals* or spastic displasia* or epilepsy* or mutation* or tic* or Tourette* or ((happy or child*) and puppet*) or fragile x or Frax* or angelman* or prader-willii* or ret* or smith-magenis or williams or Cri-du-Chat or D Lange or down* or Coffin-Lowry or Leesch-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophrenia* or Adrenoleukodystrophy or Mucopolysaccharidosis).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
5. 1 or 2 or 3 or 4
6. exp melatonin/
7. (melatonin* or Circadin* or Slenyto* or 5-Methoxy-N-Acetyltryptamin* or N-Acetyl-5-Methoxytryptamin*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
8. 6 or 7
9. 5 and 8
10. exp adolescent/ or exp child/
11. exp pediatrics/
12. (baby or babies or infant* or child* or toddler* or pre-school* or preschool* or adolescents* or teen* or schoolchild* or schoolage* or pediatric* or paediatric*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
13. 10 or 11 or 12
14. 9 and 13
15. Randomized controlled trial/ or Controlled clinical trial/ or retracted article/ or (erratum or tombstone).pt. or trial.ti. or yes.ne.
16. (random* or blind* or placebo*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
17. 14 and (15 or 16)

**LILACS (Bireme; 1982 to the date of the search)**
1. ((neurodevelopment$ or neurotic$ or development$ or mental$ or central nervous system or cns or intellectual$ or (disruptive or child) and behavior$) or Communicati$ or speech$ or language or Learning or Motor$ or psychomotor or Reactive Attachment$ or Stereotypic Movement$) and (disease$ or disorder$ or disability$ or syndrome$ or dysfunction$ or impairment$ or deficiency$ or retardation$) or neurodisability$ or neuro-disability$ or idiocy or dyslexia or dyscalculia or autism$ or kanner$ or ASD or Asperger$ or attention deficit$ or ADHD$ or ADDH$ or hyperactivity$ or impulsivity$ cerebral pals$ or spastic displasia$ or epilepsy$ or mutation$ or tic$ or Tourette$ or ((happy or child$) and puppet$) or fragile x or Frax$ or angelman$ or prader-willii$ or ret$ or smith-magenis or williams or Cri-du-Chat or D Lange or down$ or Coffin-Lowry or Leesch-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophrenia$ or Adrenoleukodystrophy or Mucopolysaccharidosis) [Words] and (melatonin$ or Circadin$ or Slenyto$ or 5-Methoxy-N-Acetyltryptamin$ or N-Acetyl-5-Methoxytryptamin$) [Words] and (baby or babies or infant$ or child$ or toddler$ or pre-school$ or preschool$ or adolescents$ or teen$ or schoolchild$ or schoolage$ or pediatric$ or paediatric$) [Words]

**PsycINFO (EBSCO Host; date will be given at review stage)**
S11 S9 AND S10
S10 TX (random* or blind* or placebo* or trial*)
S9 S5 AND S8
S8 S6 OR S7
S7 TX (melatonin* or Circadin* or Slenyto* or 5-Methoxy-N-Acetyltryptamin* or N-Acetyl-5-Methoxytryptamin*)
S6 MA Melatonin
S5 S1 OR S2 OR S3 OR S4
S4 TX (((neurodevelopment* or neurotic* or development* or mental* or central nervous system or cns or intellectual* or ((disruptive or child) and behavio*) or Communicati* or speech* or language or Learning or Motor* or psychomotor or Reactive Attachment* or Stereotypic Movement*) and (disease* or disorder* or disabilit* or syndrom* or dysfunc* or impair* or deficienc* or retardation*)) or neurodisabilit* or neuro-disabilit* or idiocy or dyslexia or dyscalculia or autis* or kanner* or ASD or Asperger* or attention deficit* or ADHD* or ADDH or hyperactivity* or impulsiv* cerebral pals* or spastic displieg* or epilep* or mutism* or tic* or Tourette* or (happy or child*) and puppet*) or fragile x or Frax* or angelman* or prader-willi* or rett* or smith-magenis or williams or Cri-du-Chat or De Lange or down* or Coffin-Lowry or Lesch-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophreni* or Adrenoleukodystrophy or Mucopolysaccharidosis)
S3 MA Intellectual Disability
S2 MA Central Nervous System Diseases
S1 MA Neurodevelopmental Disorders

Science Citation Index Expanded (1900 to the date of the search) and Conference Proceedings Citation Index – Science (1990 to the date of the search) (Web of Science)
#5 #4 AND #3 AND #2 AND #1
#4 TI=(random* or blind* or placebo* or trial*) OR TS=(random* or blind* or placebo*)
#3 TS=(baby or babies or infan* or child* or toddler* or pre-school* or preschool* or adolescen* or teen* or schoolchild* or schoolage* or pediatr* or paediatric* or paediatric*)
#2 TS=(melatonin* or Circadin* or Slenyto* or 5-Methoxy-N-Acetyltryptamin* or N-Acetyl-5-Methoxytryptamin*)
#1 TS=(((neurodevelopment* or neurotic* or development* or mental* or central nervous system or cns or intellectual* or ((disruptive or child) and behavio*) or Communicati* or speech* or language or Learning or Motor* or psychomotor or Reactive Attachment* or Stereotypic Movement*) and (disease* or disorder* or disabilit* or syndrom* or dysfunc* or impair* or deficienc* or retardation*)) or neurodisabilit* or neuro-disabilit* or idiocy or dyslexia or dyscalculia or autis* or kanner* or ASD or Asperger* or attention deficit* or ADHD* or ADDH or hyperactivity* or impulsiv* cerebral pals* or spastic displieg* or epilep* or mutism* or tic* or Tourette* or (happy or child*) and puppet*) or fragile x or Frax* or angelman* or prader-willi* or rett* or smith-magenis or williams or Cri-du-Chat or De Lange or down* or Coffin-Lowry or Lesch-Nyhan or Menkes Kinky Hair or Rubinstein-Taybi or WAGR or schizophreni* or Adrenoleukodystrophy or Mucopolysaccharidosis)