

BTS Guideline for diagnosing and monitoring paediatric sleep disordered breathing**Online Appendix 12 Literature Search Strategy and PRISMA diagram****Contents**

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Databases used

MEDLINE ALL

EMBASE

Central Register of Controlled Trials (CENTRAL)

Cochrane Database of Systematic Reviews (CDSR)

PubMed

MEDLINE ALL and EMBASE via Ovid for Search 1 and Search 2

CENTRAL and CDSR Search 1 via Wiley, Search 2 via Ovid

PubMed via <https://www.ncbi.nlm.nih.gov/pubmed> (Search 1 only)**Summary of records retrieved**

Database	Search 1 Records		Search 2 Records	
	Retrieved	Deduplicated	Retrieved	Deduplicated
MEDLINE ALL	1791	1784	435	390
EMBASE	1722	340	496	116
CENTRAL	164	69	43	16
CDSR	4	4	0	0
PUBMED	1610	37	-	-
Total	5291	2234	974	522

Total records retrieved after deduplication **2756**

Database search strategies**MEDLINE****Search 1****Search via OVID****Search date 20 February 2019****Records identified = 1791**

Database: Ovid MEDLINE(R) ALL <1946 to February 19, 2019>

Search Strategy

-
- 1 exp Infant/ or exp Child/ or Adolescent/ (3372229)
 - 2 (adolescen\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (1917776)
 - 3 1 or 2 (3868709)
 - 4 exp Sleep Apnea Syndromes/ (32321)
 - 5 sleep apnea.ti,ab,kw. (27612)
 - 6 sleep apnoea.ti,ab,kw. (5571)
 - 7 sleep disordered breathing.ti,ab,kw. (6135)
 - 8 4 or 5 or 6 or 7 (42691)
 - 9 exp Video Recording/ (38312)
 - 10 ((sleep\$ adj4 questionnaire\$) or (sleep\$ adj4 video\$) or (sleep\$ adj4 audio) or (sleep\$ adj4 recording)).ti,ab,kw. (6043)
 - 11 sleep clinical record.ti,ab,kw. (11)
 - 12 (CSHQ or PSQ-SRDB or HK-CSQ or PSQ or OSA-18 or SDIS or Brazilian-Portuguese SDSC or Children\$ Sleep Quality Assessment Questionnaire or CASQ or Gozal\$ or OSA-6 or TuCASA or T-14).ti,ab,kw. (3230)
 - 13 9 or 10 or 11 or 12 (47203)
 - 14 3 and 8 and 13 (705)
 - 15 exp Infant/ or exp Child/ or Adolescent/ (3372229)
 - 16 (adolescen\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (1917776)
 - 17 15 or 16 (3868709)
 - 18 exp Sleep Apnea Syndromes/ (32321)
 - 19 sleep apnea.ti,ab,kw. (27612)
 - 20 sleep apnoea.ti,ab,kw. (5571)
 - 21 sleep disordered breathing.ti,ab,kw. (6135)
 - 22 18 or 19 or 20 or 21 (42691)
 - 23 Oximetry/ (12235)
 - 24 pulse oximetry.ti,ab,kw. (6168)
 - 25 oximeter\$.ti,ab,kw. (3772)
 - 26 (oxygen desaturation index or oxygen desaturation indices).ti,ab,kw. (860)
 - 27 (OAHl or OAI or AHI).ti,ab,kw. (6687)
 - 28 23 or 24 or 25 or 26 or 27 (23000)
 - 29 17 and 22 and 28 (1348)
 - 30 exp Infant/ or exp Child/ or Adolescent/ (3372229)
 - 31 (adolescen\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (1917776)
 - 32 30 or 31 (3868709)

- 33 exp Sleep Apnea Syndromes/ (32321)
- 34 sleep apnea.ti,ab,kw. (27612)
- 35 sleep apnoea.ti,ab,kw. (5571)
- 36 sleep disordered breathing.ti,ab,kw. (6135)
- 37 33 or 34 or 35 or 36 (42691)
- 38 cardiorespiratory sleep stud\$.ti,ab,kw. (36)
- 39 CRSS.ti,ab,kw. (118)
- 40 polygraphy.ti,ab,kw. (736)
- 41 multi-channel study.ti,ab,kw. (1)
- 42 multichannel study.ti,ab,kw. (3)
- 43 38 or 39 or 40 or 41 or 42 (893)
- 44 32 and 37 and 43 (109)
- 45 exp Infant/ or exp Child/ or Adolescent/ (3372229)
- 46 (adolescenc\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$.ti,ab. (1917776)
- 47 45 or 46 (3868709)
- 48 Narcolepsy/ (3361)
- 49 Cataplexy/ (874)
- 50 Sleepiness/ (35)
- 51 Sleep Paralysis/ (133)
- 52 (narcolep\$ or cataple\$).ti,ab,kw. (4833)
- 53 (sleep adj1 (attack\$ or paralysis)).ti,ab,kw. (756)
- 54 (sleepiness or somnolen\$.ti,ab,kw. (18009)
- 55 hypnagogic hallucination\$.ti,ab,kw. (16)
- 56 multiple sleep latency test\$.ti,ab,kw. (1159)
- 57 daytime sleepiness.ti,ab,kw. (6521)
- 58 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 (22432)
- 59 cardiorespiratory sleep stud\$.ti,ab,kw. (36)
- 60 CRSS.ti,ab,kw. (118)
- 61 polygraphy.ti,ab,kw. (736)
- 62 multi-channel study.ti,ab,kw. (1)
- 63 multichannel study.ti,ab,kw. (3)
- 64 59 or 60 or 61 or 62 or 63 (893)
- 65 47 and 58 and 64 (9)
- 66 exp Infant/ or exp Child/ or Adolescent/ (3372229)
- 67 (adolescenc\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$.ti,ab. (1917776)
- 68 66 or 67 (3868709)
- 69 Pulmonary Ventilation/ (12204)
- 70 Respiration, Artificial/ (45828)
- 71 Tracheostomy/ (6880)
- 72 Noninvasive Ventilation/ (1572)
- 73 (ventilation adj2 (pulmonary or home mechanical or long term or longterm or long-term or tracheostomy or non-invasive or noninvasive)).ti,ab,kw. (9809)
- 74 69 or 70 or 71 or 72 or 73 (69712)
- 75 Oximetry/ (12235)
- 76 pulse oximetry.ti,ab,kw. (6168)
- 77 oximeter\$.ti,ab,kw. (3772)
- 78 (oxygen desaturation index or oxygen desaturation indices).ti,ab,kw. (860)
- 79 (OAHl or OAl or AHl).ti,ab,kw. (6687)
- 80 75 or 76 or 77 or 78 or 79 (23000)
- 81 Hypercapnia/ (8280)
- 82 (hypercapnia or hypercapnoea).ti,ab,kw. (9723)

- 83 Carbon Dioxide/ and Monitoring, Physiologic/ (1489)
- 84 Capnography/ (1253)
- 85 ((end-tidal or end tidal or endtidal) adj2 (measur\$ or monitor\$ or CO2)).ti,ab,kw. (2859)
- 86 (CO2 monitor or CO2 measur\$).ti,ab,kw. (356)
- 87 ETCO2.ti,ab,kw. (1057)
- 88 Continuous Positive Airway Pressure/ (6247)
- 89 (CPAP or continuous positive airway pressure).ti,ab,kw. (10997)
- 90 capnometry.ti,ab,kw. (386)
- 91 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88 or 89 or 90 (31480)
- 92 cardiorespiratory sleep stud\$.ti,ab,kw. (36)
- 93 CRSS.ti,ab,kw. (118)
- 94 polygraphy.ti,ab,kw. (736)
- 95 multi-channel study.ti,ab,kw. (1)
- 96 multichannel study.ti,ab,kw. (3)
- 97 92 or 93 or 94 or 95 or 96 (893)
- 98 Polysomnography/ (19189)
- 99 (polysomnograph\$ or PSG).ti,ab,kw. (17638)
- 100 98 or 99 (26107)
- 101 68 and 74 and 80 and 91 and (97 or 100) (11)
- 102 14 or 29 or 44 or 65 or 101 (1965)
- 103 limit 102 to english language (1791)

Search 2

Search via OVID

Search date 18 March 2021

Records identified = 435

Database: Ovid MEDLINE(R) ALL <2019 to March 18, 2021>

Search Strategy

The [Medline Search 1 strategy](#) was used.

EMBASE**Search 1****Search via OVID****Search date 19 February 2019****Records identified = 1722**

Database: Embase <1974 to 2019 February 15>

Search Strategy

-
- 1 child/ (1550631)
 - 2 infant/ (546496)
 - 3 adolescent/ (1407496)
 - 4 (adolescenc\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (2331007)
 - 5 1 or 2 or 3 or 4 (3452131)
 - 6 sleep disordered breathing/ (39111)
 - 7 sleep apnea.ti,ab,kw. (47272)
 - 8 sleep apnoea.ti,ab,kw. (9652)
 - 9 sleep disordered breathing.ti,ab,kw. (10715)
 - 10 6 or 7 or 8 or 9 (67994)
 - 11 videorecording/ (74059)
 - 12 ((sleep\$ adj4 questionnaire\$) or (sleep\$ adj4 video\$) or (sleep\$ adj4 audio) or (sleep\$ adj4 recording)).ti,ab,kw. (11544)
 - 13 sleep clinical record.ti,ab,kw. (15)
 - 14 (CSHQ or PSQ-SRDB or HK-CSQ or PSQ or OSA-18 or SDIS or Brazilian-Portuguese SDSC or Children\$ Sleep Quality Assessment Questionnaire or CASQ or Gozal\$ or OSA-6 or TuCASA or T-14).ti,ab,kw. (5345)
 - 15 11 or 12 or 13 or 14 (89845)
 - 16 5 and 10 and 15 (1164)
 - 17 limit 16 to english language (1115)
 - 18 limit 17 to conference abstracts (449)
 - 19 17 not 18 (666)
 - 20 child/ (1550631)
 - 21 infant/ (546496)
 - 22 adolescent/ (1407496)
 - 23 (adolescenc\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (2331007)
 - 24 20 or 21 or 22 or 23 (3452131)
 - 25 sleep disordered breathing/ (39111)
 - 26 sleep apnea.ti,ab,kw. (47272)
 - 27 sleep apnoea.ti,ab,kw. (9652)
 - 28 sleep disordered breathing.ti,ab,kw. (10715)
 - 29 25 or 26 or 27 or 28 (67994)
 - 30 oximetry/ (9215)
 - 31 pulse oximetry/ (13702)
 - 32 oximeter\$.ti,ab,kw. (5197)
 - 33 (oxygen desaturation index or oxygen desaturation indices).ti,ab,kw. (1801)
 - 34 (OAHl or OAI or AHI).ti,ab,kw. (15922)
 - 35 30 or 31 or 32 or 33 or 34 (40911)
 - 36 24 and 29 and 35 (2297)
 - 37 limit 36 to english language (2171)

- 38 limit 37 to conference abstracts (1033)
- 39 37 not 38 (1138)
- 40 child/ (1550631)
- 41 infant/ (546496)
- 42 adolescent/ (1407496)
- 43 (adolescens\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (2331007)
- 44 40 or 41 or 42 or 43 (3452131)
- 45 sleep disordered breathing/ (39111)
- 46 sleep apnea.ti,ab,kw. (47272)
- 47 sleep apnoea.ti,ab,kw. (9652)
- 48 sleep disordered breathing.ti,ab,kw. (10715)
- 49 45 or 46 or 47 or 48 (67994)
- 50 cardiorespiratory sleep stud\$.ti,ab,kw. (61)
- 51 CRSS.ti,ab,kw. (159)
- 52 polygraphy.ti,ab,kw. (1455)
- 53 multi-channel study.ti,ab,kw. (3)
- 54 multichannel study.ti,ab,kw. (2)
- 55 50 or 51 or 52 or 53 or 54 (1678)
- 56 44 and 49 and 55 (134)
- 57 limit 56 to english language (116)
- 58 limit 57 to conference abstracts (51)
- 59 57 not 58 (65)
- 60 child/ (1550631)
- 61 infant/ (546496)
- 62 adolescent/ (1407496)
- 63 (adolescens\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (2331007)
- 64 60 or 61 or 62 or 63 (3452131)
- 65 narcolepsy/ (8113)
- 66 cataplexy/ (3104)
- 67 somnolence/ (39047)
- 68 parasomnia/ (5805)
- 69 (narcolep\$ or cataple\$).ti,ab,kw. (7272)
- 70 (sleep adj1 (attack\$ or paralysis)).ti,ab,kw. (1212)
- 71 (sleepiness or somnolen\$).ti,ab,kw. (32509)
- 72 hypnogogic hallucination\$.ti,ab,kw. (40)
- 73 multiple sleep latency test\$.ti,ab,kw. (1894)
- 74 daytime sleepiness.ti,ab,kw. (11836)
- 75 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 (67037)
- 76 cardiorespiratory sleep stud\$.ti,ab,kw. (61)
- 77 CRSS.ti,ab,kw. (159)
- 78 polygraphy.ti,ab,kw. (1455)
- 79 multi-channel study.ti,ab,kw. (3)
- 80 multichannel study.ti,ab,kw. (2)
- 81 76 or 77 or 78 or 79 or 80 (1678)
- 82 64 and 75 and 81 (21)
- 83 limit 82 to english language (20)
- 84 limit 83 to conference abstracts (11)
- 85 83 not 84 (9)
- 86 child/ (1550631)
- 87 infant/ (546496)
- 88 adolescent/ (1407496)

- 89 (adolescen\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (2331007)
- 90 86 or 87 or 88 or 89 (3452131)
- 91 lung ventilation/ (25265)
- 92 artificial ventilation/ (118463)
- 93 tracheostomy/ (22056)
- 94 noninvasive ventilation/ (7768)
- 95 (ventilation adj2 (pulmonary or home mechanical or long term or longterm or long-term or tracheostomy or non-invasive or noninvasive)).ti,ab,kw. (16396)
- 96 91 or 92 or 93 or 94 or 95 (167016)
- 97 oximetry/ (9215)
- 98 pulse oximetry/ (13702)
- 99 oximeter\$.ti,ab,kw. (5197)
- 100 (oxygen desaturation index or oxygen desaturation indices).ti,ab,kw. (1801)
- 101 (OAHl or OAI or AHI).ti,ab,kw. (15922)
- 102 97 or 98 or 99 or 100 or 101 (40911)
- 103 hypercapnia/ (17372)
- 104 (hypercapnia or hypercapnoea).ti,ab,kw. (12878)
- 105 carbon dioxide/ (83875)
- 106 physiologic monitoring/ (4151)
- 107 105 and 106 (67)
- 108 capnometry/ (1867)
- 109 ((end-tidal or end tidal or endtidal) adj2 (measur\$ or monitor\$ or CO2)).ti,ab,kw. (4789)
- 110 (CO2 monitor or CO2 measur\$).ti,ab,kw. (579)
- 111 ETCO2.ti,ab,kw. (2449)
- 112 positive end expiratory pressure/ (49724)
- 113 (CPAP or continuous positive airway pressure).ti,ab,kw. (18984)
- 114 (capnometr\$ or capnograph\$).ti,ab,kw. (3327)
- 115 103 or 104 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 (79411)
- 116 cardiorespiratory sleep stud\$.ti,ab,kw. (61)
- 117 CRSS.ti,ab,kw. (159)
- 118 polygraphy.ti,ab,kw. (1455)
- 119 (multi-channel study or multichannel study).ti,ab,kw. (5)
- 120 116 or 117 or 118 or 119 (1678)
- 121 polysomnography/ (34423)
- 122 (polysomnograph\$ or PSG).ti,ab,kw. (32844)
- 123 121 or 122 (42191)
- 124 90 and 96 and 102 and 115 and (120 or 123) (61)
- 125 limit 124 to english language (56)
- 126 limit 125 to conference abstracts (18)
- 127 125 not 126 (38)
- 128 19 or 39 or 59 or 85 or 127 (1722)

Search 2

Search via OVID

Search date 18 March 2021

Records identified = 496

Database: Embase <2019 to 2021 March 18

Search Strategy

The [Embase Search 1 strategy](#) was used.

Cochrane Central Register of Controlled Trials (CENTRAL)**Search 1****Search via Wiley****Search date 20 February 2019****Records identified = 194**

Database: Cochrane Central Register of Controlled Clinical Trials

Search strategy

ID	Search
#1	MeSH descriptor: [Infant] explode all trees
#2	MeSH descriptor: [Child] explode all trees
#3	MeSH descriptor: [Adolescent] explode all trees
#4	#1 OR #2 OR #3
#5	(adolescen* or baby or babies or child or children or boy or boys or girl or girls or infant* or infanc* or juvenile* or paediatric or pediatric or preschooler* or schoolboy* or schoolgirl* or schoolchild* or teens or teenager* or toddler* or youth or youths or "young people" or "young person*"):ti,ab,kw (Word variations have been searched)
#6	#4 OR #5
#7	MeSH descriptor: [Sleep Apnea Syndromes] explode all trees
#8	("sleep apnea"):ti,ab,kw OR ("sleep apnoea"):ti,ab,kw OR ("sleep disordered breathing"):ti,ab,kw (Word variations have been searched)
#9	#7 OR #8
#10	MeSH descriptor: [Video Recording] explode all trees
#11	((sleep* NEAR/4 questionnaire*) or (sleep* NEAR/4 video*) or (sleep* NEAR/4 audio) or (sleep* NEAR/4 recording)):ti,ab,kw OR (sleep clinical record):ti,ab,kw OR (CSHQ or PSQ-SRDB or HK-CSQ or PSQ or OSA-18 or SDIS or "Brazilian-Portuguese SDSC" or "Children* Sleep Quality Assessment Questionnaire" or CASQ or Gozal* or OSA-6 or TuCASA or T-14):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#6 AND #9 AND #12
#14	MeSH descriptor: [Oximetry] explode all trees
#15	("pulse oximetry"):ti,ab,kw OR (oximeter*):ti,ab,kw OR ("oxygen desaturation index" or "oxygen desaturation indices"):ti,ab,kw OR (OAHl or OAl or AHl):ti,ab,kw (Word variations have been searched)
#16	#14 OR #15
#17	#6 AND #9 AND #16
#18	("cardiorespiratory sleep stud*"):ti,ab,kw OR (CRSS):ti,ab,kw OR (polygraphy):ti,ab,kw OR ("multi-channel study" OR "multichannel study"):ti,ab,kw (Word variations have been searched)
#19	#6 AND #9 AND #18
#20	MeSH descriptor: [Narcolepsy] explode all trees
#21	MeSH descriptor: [Cataplexy] explode all trees
#22	MeSH descriptor: [Sleep Paralysis] explode all trees
#23	((narcolep* or cataple*):ti,ab,kw OR (sleep NEAR/1 (attack* or paralysis)):ti,ab,kw OR ((sleepiness or somnolen*):ti,ab,kw OR ("hypnogogic hallucination*"):ti,ab,kw OR ("multiple sleep latency test*" OR "daytime sleepiness"):ti,ab,kw (Word variations have been searched)
#24	#20 OR #21 OR #22 OR #23
#25	#6 AND #24 AND #18
#26	MeSH descriptor: [Pulmonary Ventilation] explode all trees
#27	MeSH descriptor: [Respiration, Artificial] explode all trees
#28	MeSH descriptor: [Tracheostomy] explode all trees

- #29 MeSH descriptor: [Noninvasive Ventilation] explode all trees
 #30 (ventilation NEAR/2 (pulmonary or home mechanical or long term or longterm or long-term or tracheostomy or non-invasive or noninvasive)):ti,ab,kw (Word variations have been searched)
 #31 #26 OR #27 OR #28 OR #29 OR #30
 #32 MeSH descriptor: [Carbon Dioxide] explode all trees
 #33 MeSH descriptor: [Monitoring, Physiologic] explode all trees
 #34 #32 AND #33
 #35 MeSH descriptor: [Hypercapnia] explode all trees
 #36 MeSH descriptor: [Capnography] explode all trees
 #37 ((hypercapnia or hypercapnoea)):ti,ab,kw OR ((end-tidal or end tidal or endtidal) NEAR/2 (measur* or monitor* or CO2)):ti,ab,kw OR ("CO2 monitor" or "CO2 measur*"):ti,ab,kw OR (ETCO2):ti,ab,kw OR (CPAP or "continuous positive airway pressure" OR capnometry):ti,ab,kw (Word variations have been searched)
 #38 #34 OR #35 OR #36 OR #37
 #39 MeSH descriptor: [Polysomnography] explode all trees
 #40 (polysomnograph* or PSG):ti,ab,kw (Word variations have been searched)
 #41 #39 OR #40
 #42 #6 AND #31 AND #16 AND #38 AND (#18 OR #41)
 #43 #13 OR #17 OR #19 OR #25 OR #42

Search 2

Search via Ovid

Search date 18 March 2021

Records identified = 43

Database: Cochrane Central Register of Controlled Clinical Trials, limited <2019 to March 18, 2021>

Search strategy

ID	Search
1	exp Infant/ or exp Child/ or Adolescent/ (150925)
2	(adolescen\$ or baby or babies or child or children or boy or boys or girl or girls or infant\$ or infanc\$ or juvenile\$ or paediatric or pediatric or preschooler\$ or schoolboy\$ or schoolgirl\$ or schoolchild\$ or teens or teenager\$ or toddler\$ or youth or youths or young people or young person\$).ti,ab. (190897)
3	1 or 2 (278662)
4	exp Sleep Apnea Syndromes/ (2698)
5	sleep apnea.ti,ab,kw. (5608)
6	sleep apnoea.ti,ab,kw. (1359)
7	sleep disordered breathing.ti,ab,kw. (2866)
8	4 or 5 or 6 or 7 (7677)
9	exp Video Recording/ (2669)
10	((sleep\$ adj4 questionnaire\$) or (sleep\$ adj4 video\$) or (sleep\$ adj4 audio) or (sleep\$ adj4 recording)).ti,ab,kw. (3929)
11	sleep clinical record.ti,ab,kw. (3)
12	(CSHQ or PSQ-SRDB or HK-CSQ or PSQ or OSA-18 or SDIS or Brazilian-Portuguese SDSC or Children\$ Sleep Quality Assessment Questionnaire or CASQ or Gozal\$ or OSA-6 or TuCASA or T-14).ti,ab,kw. (646)
13	9 or 10 or 11 or 12 (7105)
14	3 and 8 and 13 (128)
15	exp Oximetry/ (1041)
16	pulse oximetry/ (823)

- 17 oximeter\$.ti,ab,kw. (1512)
- 18 (oxygen desaturation index or oxygen desaturation indices).ti,ab,kw. (292)
- 19 (OAHl or OAI or AHI).ti,ab,kw. (2044)
- 20 15 or 16 or 17 or 18 or 19 (4550)
- 21 cardiorespiratory sleep stud\$.ti,ab,kw. (5)
- 22 CRSS.ti,ab,kw. (12)
- 23 polygraphy.ti,ab,kw. (194)
- 24 (multi-channel study or multichannel study).ti,ab,kw. (0)
- 25 21 or 22 or 23 or 24 (211)
- 26 3 and 8 and 25 (14)
- 27 exp narcolepsy/ (159)
- 28 Narcolepsy/ (152)
- 29 Cataplexy/ (41)
- 30 somnolence/ (1)
- 31 parasomnia/ (372)
- 32 (narcolep\$ or cataple\$).ti,ab,kw. (570)
- 33 (sleep adj1 (attack\$ or paralysis)).ti,ab,kw. (51)
- 34 (sleepiness or somnolen\$).ti,ab,kw. (8850)
- 35 hypnogogic hallucination\$.ti,ab,kw. (1)
- 36 multiple sleep latency test\$.ti,ab,kw. (252)
- 37 daytime sleepiness.ti,ab,kw. (1673)
- 38 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 (9434)
- 39 3 and 25 and 38 (1)
- 40 Pulmonary Ventilation/ (878)
- 41 Respiration, Artificial/ (3361)
- 42 Tracheostomy/ (185)
- 43 Noninvasive Ventilation/ (254)
- 44 (ventilation adj2 (pulmonary or home mechanical or long term or longterm or long-term or tracheostomy or non-invasive or noninvasive)).ti,ab,kw. (3361)
- 45 40 or 41 or 42 or 43 or 44 (7490)
- 46 Hypercapnia/ (494)
- 47 (hypercapnia or hypercapnoea).ti,ab,kw. (1178)
- 48 Carbon Dioxide/ and Monitoring, Physiologic/ (44)
- 49 Capnography/ (92)
- 50 ((end-tidal or end tidal or endtidal) adj2 (measur\$ or monitor\$ or CO2)).ti,ab,kw. (880)
- 51 (CO2 monitor or CO2 measur\$).ti,ab,kw. (77)
- 52 ETCO2.ti,ab,kw. (696)
- 53 Continuous Positive Airway Pressure/ (1086)
- 54 (CPAP or continuous positive airway pressure).ti,ab,kw. (5705)
- 55 capnometry.ti,ab,kw. (316)
- 56 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 (8783)
- 57 polysomnography/ (1877)
- 58 (polysomnograph\$ or PSG).ti,ab,kw. (4557)
- 59 57 or 58 (5261)
- 60 25 or 59 (5394)
- 61 3 and 20 and 45 and 56 and 60 (2)
- 62 3 and 8 and 20 (170)
- 63 14 or 26 or 39 or 61 or 62 (254)
- 64 limit 63 to yr="2019 -Current" (43)

Cochrane Database of Systematic Reviews (CDSR)**Search 1****Search via Wiley****Search date 20 February 2019****Records identified = 4**

Database: Cochrane Central Register of Controlled Clinical Trials

Search strategyThe [Cochrane Central Register of Controlled Clinical Trials \(CENTRAL\) Search 1 strategy](#) was used.**Search 2****Search via Ovid****Search date 18 March 2021****Records identified = 0**

Database: Cochrane Database of Systematic Reviews, limited <2019 to March 18, 2021>

Search strategyThe [Cochrane Central Register of Controlled Clinical Trials \(CENTRAL\) Search 2 strategy](#) was used.

PubMed**Search 1**

Via <https://www.ncbi.nlm.nih.gov/pubmed>

Search date 19 February 2019

Records retrieved=1610

Search strategy

Query

Search (#3 AND #14 AND #8 AND #17 AND #19) Filters: English

Search (#18 OR #10) Filters: English

Search (Polysomnography[MeSH Terms]) OR (polysomnograph*[Title/Abstract] OR PSG[Title/Abstract])
Filters: English

Search (#15 or #16) Filters: English

Search (((((((Hypercapnia[MeSH Terms]) OR (hypercapnia[Title/Abstract] OR hypercapnoea[Title/Abstract])) OR Capnography[MeSH Terms]) OR ("end-tidal measur*[Title/Abstract] OR "end tidal measur*" [Title/Abstract] OR "endtidal measur*[Title/Abstract])) OR ("end-tidal monitor*" [Title/Abstract] OR "end tidal monitor*" [Title/Abstract] OR "endtidal monitor*" [Title/Abstract])) OR ("end-tidal CO2"[Title/Abstract] OR "end tidal CO2"[Title/Abstract] OR "endtidal CO2"[Title/Abstract])) OR ("CO2 monitor*" [Title/Abstract] OR "CO2 measur*" [Title/Abstract])) OR ETCO2[Title/Abstract]) OR Continuous Positive Airway Pressure[MeSH Terms]) OR (CPAP[Title/Abstract] OR "continuous positive airway pressure"[Title/Abstract])) OR capnometry[Title/Abstract] Filters: English

Search (Carbon Dioxide[MeSH Terms]) AND Monitoring, Physiologic[MeSH Terms] Filters: English

Search (((Pulmonary Ventilation[MeSH Terms]) OR Respiration, Artificial[MeSH Terms]) OR Tracheostomy[MeSH Terms]) OR Noninvasive Ventilation[MeSH Terms]) OR ("pulmonary ventilation"[Title/Abstract] OR "home mechanical ventilation"[Title/Abstract] OR "long term ventilation"[Title/Abstract] OR "longterm ventilation"[Title/Abstract] OR "long-term ventilation"[Title/Abstract] OR "tracheostomy ventilation"[Title/Abstract] OR "non-invasive ventilation"[Title/Abstract] OR "noninvasive ventilation"[Title/Abstract]) Filters: English

Search (#3 AND #10 AND #12) Filters: English

Search (((((((Narcolepsy[MeSH Terms]) OR Cataplexy[MeSH Terms]) OR Sleepiness[MeSH Terms]) OR Sleep Paralysis[MeSH Terms]) OR (narcolep*[Title/Abstract] OR cataple*[Title/Abstract])) OR ("sleep attack*" [Title/Abstract] OR "sleep paralysis"[Title/Abstract])) OR (sleepiness[Title/Abstract] OR somnolen*[Title/Abstract])) OR "hypnogogic hallucination*" [Title/Abstract]) OR "multiple sleep latency test*" [Title/Abstract]) OR "daytime sleepiness"[Title/Abstract] Filters: English

Search (#3 AND #4 AND #10) Filters: English

Search (((("cardiorespiratory sleep stud*" [Title/Abstract]) OR CRSS[Title/Abstract]) OR polygraphy[Title/Abstract]) OR ("multi-channel study"[Title/Abstract] OR "multi-channel study"[Title/Abstract]) Filters: English

Search (#3 AND #4 AND #8) Filters: English

Search (((Oximetry[MeSH Terms]) OR "pulse oximetry"[Title/Abstract]) OR oximeter*[Title/Abstract]) OR ("oxygen desaturation index"[Title/Abstract] OR "oxygen desaturation indices"[Title/Abstract])) OR (OAHl[Title/Abstract] OR OAI[Title/Abstract] OR AHl[Title/Abstract]) Filters: English

Search (#3 AND #4 AND #5) Filters: English

Search (#3 AND #4 AND #5)

Search (((Video Recording[MeSH Terms]) OR ("sleep* questionnaire"[Title/Abstract] OR "sleep* video"[Title/Abstract] OR "sleep* audio"[Title/Abstract] OR "sleep* recording"[Title/Abstract])) OR "sleep clinical record"[Title/Abstract]) OR (CSHQ[Title/Abstract] OR PSQ-SRDB[Title/Abstract] OR HK-CSQ[Title/Abstract] OR PSQ[Title/Abstract] OR OSA-18[Title/Abstract] OR SDIS[Title/Abstract] OR "Brazilian-Portuguese SDSC"[Title/Abstract] OR "Children* Sleep Quality Assessment Questionnaire"[Title/Abstract] OR CASQ[Title/Abstract] OR Gozal*[Title/Abstract] OR OSA-6[Title/Abstract] OR TuCASA[Title/Abstract] OR T-14[Title/Abstract])

Search (Sleep Apnea Syndromes[MeSH Terms]) OR ("sleep apnea"[Title/Abstract] OR "sleep apnoea"[Title/Abstract] OR "sleep disordered breathing"[Title/Abstract])

Search (#1 or #2)

Search (adolescen*[Title/Abstract] OR baby[Title/Abstract] OR babies[Title/Abstract] OR child[Title/Abstract] OR children[Title/Abstract] OR boy[Title/Abstract] OR boys[Title/Abstract] OR girl[Title/Abstract] OR girls[Title/Abstract] OR infant*[Title/Abstract] OR infanc*[Title/Abstract] OR juvenile*[Title/Abstract] OR paediatric[Title/Abstract] OR pediatric[Title/Abstract] OR preschooler*[Title/Abstract] OR schoolboy*[Title/Abstract] OR schoolgirl*[Title/Abstract] OR schoolchild*[Title/Abstract] OR teens[Title/Abstract] OR teenager*[Title/Abstract] OR toddler*[Title/Abstract] OR youth[Title/Abstract] OR youths[Title/Abstract] OR "young people"[Title/Abstract] OR "young person*"[Title/Abstract])

Search (infant or child or adolescent[MeSH Terms])

PRISMA diagram

