Appendix 1 Literature search

Search strategy for searches conducted in August 2017. This search is an update of previous searches conducted in 2009 and 2015, respectively.

Total search hits: 1434
Search hits after duplicate check: 637
Search date: 9 August 2017

Embase (Ovid)
Embase 1980 to 2017 Week 32
Search hits: 495
1. kinetic imbalance due to suboccipital strain.tw.
2. (kiss and (syndrome* or diagnosis*)).tw. or kiss.ti.
3. *Torticollis/
4. torticolli*.tw.
5. (contracted neck or neck torsion).tw.
6. *Plagiocephaly/
10. ((postur* or positional*) adj (asymmetr* or preferenc*)).tw.
11. (wry neck or wryneck).tw.
12. (upper cervical adj2 dysfunction*).tw.
13. *Head Twitch/
14. (molded baby syndrome or siebener syndrome*).tw. 15. ((head adj (twitch* or turn*)) or twisted neck).tw.
16. spinal curvature*.tw.
17. neck curvatur*.tw. 18. trachelocyllos*.tw.
19. (caput obstipum or caput distortum).tw.
20. ((neck or trunc* or spinal*) adj2 curvatur*).tw.
21. ((asymmetr* or curved) adj2 (neck* or spine* or spinal or trunc*)).tw.
22. (atlanto-occipital joint* or atlantoaxial joint*).tw.
23. flattened head syndrome*.tw.
24. or/1-23
25. (child* or baby or babies or infant* or newborn* or new* born* or toddler* or pediatric* or prematur* or neonatal* or perinatal*).tw.
26. child care/
27. exp Child/ or exp Infant/ or exp Newborn/
28. or/25-27
29. 24 and 28
30. exp *physical medicine/
31. *rehabilitation/
32. exp *muscle relaxation/
33. *relaxation training/ or exp *Traction Therapy/
34. (physical therapy or manual therapy or manual treatment* or manual medicine or manual medicine* or physical medicine* or physiotherapy or massage* or mobilization* or mobilization* or manipulative* or osteopathy* or stretch* or chiropractic* or myotherapy* or myofunction* or kinesiology* or kinesiology* or adjustment* or reflexology* or zone therapy* or acupressure* or rolfing* or rehabilitation* or habilitation* or traction* or relaxation* or training or exercise or positioning or (muscle* or spinal* or relief* or relief* or movement or motion or tension or strain) adj3 (therapy or intervention* or treatment*)) or physical medicine or atlas therapy* or atlas therapy* or naprapathy* or oscillation).tw.
35. or/30-34
36. 29 and 35
37. animal/ not Human/
38. 36 not 37
40. 38 and 39

**MEDLINE (Ovid)**

MEDLINE Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Ovid 1946 to Present

Search hits: 280
1. kine* imbalance due to suboccipital strain.tw.
2. (kiss and (syndrome* or diagnosis*)).tw. or kiss.ti.
3. Torticollis/
4. torticollis*.tw.
5. (contracted neck or neck torsion).tw. 6. Plagiocephaly, Nonsynostotic/
7. plagiocephaly.t
8. Scoliosis/
10. ((postural or positional*) adj (asymmetry* or preference*).tw.
11. (wry neck* or wry neck*).tw.
12. (upper cervical adj2 dysfunction*).tw.
14. molded baby syndrome.tw.
15. ((head adj (twitch* or turn*)) or twisted neck).tw.
16. trachelocyllos*.tw.
17. (caput obstipum or caput distortum).tw.
18. ((neck or trunc* or spinal*) adj2 curvatura*).tw.
19. ((asymmetry* or curved) adj2 (neck* or spine* or spinal* or trunc*).tw.
20. (atlanto-occipital joint* or atlantoaxial joint*).tw.
22. or/1-21
23. child/ or exp Infant/
24. (child* or baby or babies or infan* or newborn* or new* born* or toddler* or pediatric* or prematurity* or neonatal* or perinatal*).tw.
25. exp Child Care/
26. or/23-25
27. 22 and 26
28. exp Physical Therapy Modalities/
29. exp Rehabilitation/
30. Chiropractic/
31. exp Musculoskeletal Manipulations/
32. exp Relaxation/ or Muscle Relaxation/ or mind-body therapies/ or relaxation therapy/ or traction/
33. (physical therap* or manual therap* or manual treatment* or manual medicin* or manualmed* or physiotherap* or massage* or mobiliz* or mobilis* or manipul* or osteopath* or stretch* or chiropract* or myotherap* or myofunction* or kinesiolog* or kinesiotherap* or adjustment* or reflexolog* or zone therap* or acupressur* or roling* or rehabilitat* or habilitat* or traction* or relax* or training or exercise or ((muscle* or spinal or relief* or reliev* or movement or motion or tension or strain) adj3 (therap* or intervention* or treatment*))) or physical medicine or atlantotherap* or atlastherap* or naprapath* or occilation or positioning).tw.
34. or/28-33
35. 27 and 34
36. Animals/ not Humans/
37. 35 not 36
39. 37 and 38

**AMED (Ovid)**
AMED (Allied and Complementary Medicine) 1985 to July 2017
Search hits: 231
1. kiss.tw.
2. imbalance due to suboccipital strain.tw.
3. torticollis/
4. exp spinal curvatures/
5. torticollis.tw.
6. (contracted neck or neck torsion).tw.
7. plagiocephal*.tw.
8. scolios*.tw.
9. ((postur* or positional*) adj (asymmetr* or preferenc*)).tw.
10. (wry neck* or wryneck*).tw.
11. (upper cervical adj2 dysfunction*).tw.
12. siebener syndrome*.tw.
13. molded baby syndrome.tw.
14. ((head adj2 (twitch* or turn*)) or twisted neck).tw.
15. trachelocyllos*.tw.
16. (caput obstipum or caput distortum).tw.
17. ((neck or trunc* or spinal*) adj2 curvatur*).tw.
18. ((asymmetr* or curved) adj2 (neck* or spine* or spinal or trunc*)).tw.
19. (atlanto-occipital joint* or atlantoaxial joint*).tw.
20. flattened head syndrome*.tw.
21. or/1-20
22. exp child/ or exp infant/
23. (child* or baby or babies or infan* or newborn* or new* born* or toddler* or pediatric* or prematur* or neonatal* or perinatal*).tw.
24. or/22-23
Cochrane Library
Search hits
- Cochrane Database of Systematic Reviews: 2
- Database of Abstracts of Reviews of Effects (DARE): 12
- Health Technology Assessment (HTA) Database: 4
- CENTRAL: 176

#1 (kine*-imbalance- due-to-suboccipital-strain or (kiss and (syndrome* or diagnos*)) or kiss or torticollis or contracted-neck or neck-torsion or plagiocephaly* or scoliosis or ((postur* or positional*) near/3 (asymmetric* or preferenc*)) or wry-neck or wryneck* or (upper-cervical near/2 dysfunction*) or siebener-syndrome* or molded-babysyndrome or (head next (twitch* or turn*)) or twisted-neck or trachelocylos* or (caputobstipum or caput-distortum) or ((neck or trunc* or spinal*) near/2 curvatur*) or ((asymmetric* or curved) near/2 (neck* or spine* or spinal* or trunc*)) or atlantooccipital-joint* or atlantoaxial-joint* or flattened-head-syndrome*):ti,ab,kw
Online Publication Date from Jan 2015 to Aug 2017, in Cochrane Reviews (Reviews and Protocols)

#2 kine*-imbalance- due-to-suboccipital-strain or (kiss and (syndrome* or diagnos*)) or kiss or torticollis or contracted-neck or neck-torsion or plagiocephaly* or scoliosis or ((postur* or positional*) near/3 (asymmetric* or preferenc*)) or wry-neck or wryneck* or (upper-cervical near/2 dysfunction*) or siebener-syndrome* or molded-babysyndrome or (head next (twitch* or turn*)) or twisted-neck or trachelocylos* or (caputobstipum or caput-distortum) or ((neck or trunc* or spinal*) near/2 curvatur*) or ((asymmetric* or curved) near/2 (neck* or spine* or spinal* or trunc*)) or atlantooccipital-joint* or atlantoaxial-joint* or flattened-head-syndrome* in Other Reviews, Trials and Technology Assessments

#3 MeSH descriptor: [Torticollis] explode all trees
#4 MeSH descriptor: [Plagiocephaly, Nonsynostotic] explode all trees
#5 MeSH descriptor: [Scoliosis] explode all trees
#6 #1 or #2 or #3 or #4 or #5
#7 (child* or baby or babies or infant* or newborn* or new*-born* or toddler* or pediatric* or prematur* or neonatal* or perinatal*):ti,ab,kw in Cochrane Reviews (Reviews and Protocols)
#8 child* or baby or babies or infant* or newborn* or new*-born* or toddler* or pediatric* or prematur* or neonatal* or perinatal* in Other Reviews, Trials and Technology Assessments
#9 MeSH descriptor: [Child] this term only
#10 MeSH descriptor: [Infant] explode all trees
#11 MeSH descriptor: [Child Care] explode all trees
#12 #7 or #8 or #9 or #10 or #11
#13 (physical-therap* or manual-therap* or manual-treatment* or manual-medicin* or manualmedi* or physiotherap* or massage* or mobiliz* or mobilis* or manipul* or osteopath* or stretch* or chiropract* or myotherap* or myofunction* or kinesiolig* or kinesiotherap* or adjustment* or reflexolog* or zone-therap* or acupressur* or rolfing* or rehabilitat* or habilitat* or traction* or relax* or training or exercise or ((muscle* or spinal or relief* or reliev* or movement or motion or tension or strain) near/3 (therap* or intervention* or treatment*))) or physical-medicine or atlas-therap* or atlastherap* or naprapath* or oscillation or positioning);ti,ab,kw in Cochrane Reviews (Reviews and Protocols)

#14 physical-therap* or manual-therap* or manual-treatment* or manual-medicin* or manualmedi* or physiotherap* or massage* or mobiliz* or mobilis* or manipul* or osteopath* or stretch* or chiropract* or myotherap* or myofunction* or kinesiolig* or kinesiotherap* or adjustment* or reflexolog* or zone-therap* or acupressur* or rolfing* or rehabilitat* or habilitat* or traction* or relax* or training or exercise or ((muscle* or spinal or relief* or reliev* or movement or motion or tension or strain) near/3 (therap* or intervention* or treatment*))) or physical-medicine or atlas-therap* or atlastherap* or naprapath* or oscillation or positioning in Other Reviews, Trials and Technology Assessments

#15 MeSH descriptor: [Physical Therapy Modalities] explode all trees
#16 MeSH descriptor: [Rehabilitation] explode all trees
#17 MeSH descriptor: [Chiropractic] explode all trees
#18 MeSH descriptor: [Musculoskeletal Manipulations] explode all trees
#19 MeSH descriptor: [Relaxation] explode all trees
#20 MeSH descriptor: [Muscle Relaxation] explode all trees
#21 MeSH descriptor: [Mind-Body Therapies] explode all trees
#22 MeSH descriptor: [Relaxation Therapy] explode all trees
#23 MeSH descriptor: [Traction] explode all trees
#24 #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23
#25 #6 and #12 and #24 Online Publication Date from Jan 2015 to Jan 2017, in Cochrane Reviews (Reviews and Protocols)
#26 #6 and #12 and #24 in Other Reviews, Trials and Technology Assessments

Cinahl (Ebsco)
Search hits: 155

S17 S5 AND S8 AND S16 Exclude MEDLINE records
S16 S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15
S15 (MH "Traction")
S14 (MH "Manual Therapy")
S13 (MH "Mind Body Techniques")
S12 (MH "Relaxation") OR (MH "Relaxation Techniques") OR (MH "Muscle Relaxation")
S11 (MH "Chiropractic")
S10 (MH "Rehabilitation+") OR (MH "Physical Therapy+")
TI (physical therap* or manual therap* or manual treatment* or manual medicin* or manualmedi* or physiotherap* or massage* or mobiliz* or mobilis* or manipul* or osteopath* or stretch* or chiropract* or myotherap* or myofunction* or kinesiolog* or kinesiotherap* or adjustment* or reflexolog* or zone therap* or acupressur* or rolfing* or rehabilitat* or habilitat* or traction* or relax* or training or exercise or ((muscle* or spinal or relief* or reliev* or movement or motion or tension or strain) N3 (therap* or intervention* or treatment*))) or physical medicine or atlas therap* or atlastherap* or naprapath* or occlusion or positioning ) OR AB ( physical therap* or manual therap* or manual treatment* or manual medicin* or manualmedi* or physiotherap* or massage* or mobiliz* or mobilis* or manipul* or osteopath* or stretch* or chiropract* or myotherap* or myofunction* or kinesiolog* or kinesiotherap* or adjustment* or reflexolog* or zone therap* or acupressur* or rolfing* or rehabilitat* or habilitat* or traction* or relax* or training or exercise or ((muscle* or spinal or relief* or reliev* or movement or motion or tension or strain) N3 (therap* or intervention* or treatment*))) or physical medicine or atlas therap* or atlastherap* or naprapath* or occlusion or positioning ) OR (MH "Child")

(TI (child* or baby or babies or infant* or newborn* or new* born* or toddler* or pediatric* or prematur* or neonatal* or perinatal*) OR AB (child* or baby or babies or infant* or newborn* or new* born* or toddler* or pediatric* or prematur* or neonatal* or perinatal* )) OR (MH "Scoliosis")

(MH "Deformational Plagiocephaly")

(MH "Torticollis")

(TI (kine* imbalance due to suboccipital strain or (kiss and (syndrome* or diagnos*)) or kiss or torticolli* or contracted neck or neck torsion or plagiocephal* or scolios* or ((postur* or positional*) N3 (asymmetr* or preferenc*)) or wry neck* or wryneck* or (upper cervical N2 dysfunction*) or siebener syndrome* or molded baby syndrome or (head N1 (twitch* or turn*)) or twisted neck or trachelocyllos* or (caput obstipum or caput distortum) or (neck or trunc* or spinal*) N2 curvatur*) or ((asymmetr* or curved) N2 (neck* or spine* or spinal* or trunc*)) or atlantooccipital joint* or atlantoaxial joint* or flattened head syndrome* ) OR AB (kine* imbalance due to suboccipital strain or (kiss and (syndrome* or diagnos*)) or kiss or torticolli* or contracted neck or neck torsion or plagiocephal* or scolios* or ((postur* or positional*) N3 (asymmetr* or preferenc*)) or wry neck* or wryneck* or (upper cervical N2 dysfunction*) or siebener syndrome* or molded baby syndrome or (head N1 (twitch* or turn*)) or twisted neck or trachelocyllos* or (caput obstipum or caput distortum) or ((neck or trunc* or spinal*) N2 curvatur*) or ((asymmetr* or curved) N2 (neck* or spine* or spinal* or trunc*)) or atlantooccipital joint* or atlantoaxial joint* or flattened head syndrome*)

Index to Chiropractic Literature (ICL)

Search hits: 44

Search 1, advanced search:

Subject:"Torticollis" OR "Deformational Plagiocephaly / Infant" OR "Plagiocephaly, Nonsynostotic" OR "Scoliosis" OR AND Subject:"Infant" OR "Infant, Newborn" OR "Child"
Search 2, advanced search:
All fields: kiss OR suboccipital OR scolios* OR torticoll* OR plagiocephal* OR asymmetr* AND
All fields: child* OR infan*
Limited to publication years from 2014.

**PEDro**
Search hits: 35, distributed over 6 different searches

Advanced search. New records added since 01/01/2015

Abstract & Title: kiss
Therapy: Stretching, mobilisation, manipulation, massage

Abstract & Title: suboccipital Therapy. Stretching, mobilisation, manipulation, massage
Therapy: Stretching, mobilisation, manipulation, massage

Abstract & Title: scolios*
Therapy: Stretching, mobilisation, manipulation, massage

Abstract & Title: torticoll*
Therapy: Stretching, mobilisation, manipulation, massage

Abstract & Title: plagiocephal*
Therapy: Stretching, mobilisation, manipulation, massage

Abstract & Title: asymmetr*
Therapy: Stretching, mobilisation, manipulation, massage