# Additional file 2

# Search methods for identification of studies

Two review authors and research librarians searched the database MEDLINE and EMBASE for literature on the basis of Table 1.

Two review authors independently selected the articles; first the authors screened the titles for relevance. Selected articles then had the abstract screened. Remaining articles were read in full text and selected based on the inclusion and exclusion criteria. Uncertainties during the first two steps led to the article being included in the next step. Disagreements between authors were discussed and consensus sought. Continued disagreement was resolved by a third rater.

The rules are given in Table 2.

Table 1.

(pub med)

|  |  |
| --- | --- |
| Diagnosis [neck pain/classification](http://www.ncbi.nlm.nih.gov/pubmed/17070722) | Measurement |
| 1.neck pain [mesh] neck pain [ti/ab]neck ache [ti/ab]cervical pain [ti/ab]cervical pains [ti/ab]cervicodynia [ti/ab]cervicalgia [ti/ab]whiplash injuries [mesh]whiplash injuries[ti/ab]1.((((((((((whiplash injuries[ti/ab]) OR whiplash injuries [mesh]) OR cervicalgia [ti/ab]) OR cervicodynia [ti/ab]) OR neckaches [ti/ab]) OR neckache [ti/ab]) OR cervical pains [ti/ab]) OR cervical pain [ti/ab]) OR neck ache [ti/ab]) OR neck pain [ti/ab]) OR neck pain [mesh] | 6.proprioception [mesh]proprioception [ti/ab]motor control [ti/ab]kinesthetic [ti/ab]kinematics[mesh]kinematics [ti/ab]posture [mesh]posture[ti/ab]postures[ti/ab]range of motion, articular [mesh]range of motion[ti/ab]passive range of motion[ti/ab]6.((((((((((Proprioception [mesh]) OR Proprioception [ti/ab]) OR motor control [ti/ab]) OR Kinesthetic [ti/ab]) OR Kinematics[mesh]) OR kinematics [ti/ab]) OR posture [mesh]) OR postures[ti/ab]) OR Range of Motion, Articular [mesh]) OR Range of Motion[ti/ab]) OR Passive Range of Motion[ti/ab] |
| 2.Radiculopathy[mesh]radiculopathies[ti/ab]cervical radiculopathies[ti/ab]cervical radiculopathy[ti/ab]nerve root disorders[ti/ab]radiculitis[ti/ab]nerve root Inflammation[ti/ab]nerve root avulsion[ti/ab]nerve root avulsions [ti/ab]nerve root compression [ti/ab]nerve root compressions [ti/ab]2.(((((((((((Nerve Root Compressions [ti/ab]) OR Nerve Root Compression [ti/ab]) OR Nerve Root Avulsions [ti/ab]) OR Nerve Root Avulsion[ti/ab]) OR Nerve Root Inflammations[ti/ab]) OR Nerve Root Inflammation[ti/ab]) OR Radiculitis[ti/ab]) OR Nerve Root Disorders[ti/ab]) OR Cervical Radiculopathy[ti/ab]) OR Cervical Radiculopathies[ti/ab]) OR Radiculopathies[ti/ab]) OR Radiculopathy[mesh] | And | 3.neck [mesh]neck [ti/ab]cervical [mesh]cervical [ti/ab]cervical vertebrae [mesh]cervical vertebrae [ti/ab]3.(((((Neck [mesh]) OR Neck [ti/ab]) OR Cervical [mesh]) OR Cervical [ti/ab]) OR Cervical Vertebrae [mesh]) OR Cervical Vertebrae [ti/ab] |  |
| 2 and 3 = 44.(((((((Neck [mesh]) OR Neck [ti/ab]) OR Cervical [mesh]) OR Cervical [ti/ab]) OR Cervical Vertebrae [mesh]) OR Cervical Vertebrae [ti/ab])) AND ((((((((((((Nerve Root Compressions [ti/ab]) OR Nerve Root Compression [ti/ab]) OR Nerve Root Avulsions [ti/ab]) OR Nerve Root Avulsion[ti/ab]) OR Nerve Root Inflammations[ti/ab]) OR Nerve Root Inflammation[ti/ab]) OR Radiculitis[ti/ab]) OR Nerve Root Disorders[ti/ab]) OR Cervical Radiculopathy[ti/ab]) OR Cervical Radiculopathies[ti/ab]) OR Radiculopathies[ti/ab]) OR Radiculopathy[mesh]) |  |
| 4 or 1 = 55.(((((((((Neck [mesh]) OR Neck [ti/ab]) OR Cervical [mesh]) OR Cervical [ti/ab]) OR Cervical Vertebrae [mesh]) OR Cervical Vertebrae [ti/ab])) AND ((((((((((((Nerve Root Compressions [ti/ab]) OR Nerve Root Compression [ti/ab]) OR Nerve Root Avulsions [ti/ab]) OR Nerve Root Avulsion[ti/ab]) OR Nerve Root Inflammations[ti/ab]) OR Nerve Root Inflammation[ti/ab]) OR Radiculitis[ti/ab]) OR Nerve Root Disorders[ti/ab]) OR Cervical Radiculopathy[ti/ab]) OR Cervical Radiculopathies[ti/ab]) OR Radiculopathies[ti/ab]) OR Radiculopathy[mesh]))) OR (((((((((((whiplash injuries[ti/ab]) OR whiplash injuries [mesh]) OR cervicalgia [ti/ab]) OR cervicodynia [ti/ab]) OR neckaches [ti/ab]) OR neckache [ti/ab]) OR cervical pains [ti/ab]) OR cervical pain [ti/ab]) OR neck ache [ti/ab]) OR neck pain [ti/ab]) OR neck pain [mesh]) | **5 and 6****(((((((((((Neck [mesh]) OR Neck [ti/ab]) OR Cervical [mesh]) OR Cervical [ti/ab]) OR Cervical Vertebrae [mesh]) OR Cervical Vertebrae [ti/ab])) AND ((((((((((((Nerve Root Compressions [ti/ab]) OR Nerve Root Compression [ti/ab]) OR Nerve Root Avulsions [ti/ab]) OR Nerve Root Avulsion[ti/ab]) OR Nerve Root Inflammations[ti/ab]) OR Nerve Root Inflammation[ti/ab]) OR Radiculitis[ti/ab]) OR Nerve Root Disorders[ti/ab]) OR Cervical Radiculopathy[ti/ab]) OR Cervical Radiculopathies[ti/ab]) OR Radiculopathies[ti/ab]) OR Radiculopathy[mesh]))) OR (((((((((((whiplash injuries[ti/ab]) OR whiplash injuries [mesh]) OR cervicalgia [ti/ab]) OR cervicodynia [ti/ab]) OR neckaches [ti/ab]) OR neckache [ti/ab]) OR cervical pains [ti/ab]) OR cervical pain [ti/ab]) OR neck ache [ti/ab]) OR neck pain [ti/ab]) OR neck pain [mesh]))) AND (((((((((((Proprioception [mesh]) OR Proprioception [ti/ab]) OR motor control [ti/ab]) OR Kinesthetic [ti/ab]) OR Kinematics[mesh]) OR kinematics [ti/ab]) OR posture [mesh]) OR postures[ti/ab]) OR Range of Motion, Articular [mesh]) OR Range of Motion[ti/ab]) OR Passive Range of Motion[ti/ab])** |

Embase

|  |  |
| --- | --- |
| Diagnosis [neck pain/classification](http://www.ncbi.nlm.nih.gov/pubmed/17070722) | Measurement |
| **Keyword** : cervicobrachial neuralgianeck paincervical spondylosiswhiplash injury**Abstrac**t:cervicobrachial neuralgianeck paincervicodynia cervical spondylosisneck achecervical paincervicalgiawhiplash injurieswhiplash associated disordercervical radiculopathiescervical radiculopathy | Keyword:body postureproprioceptionmotor controlkinesthesia

|  |  |
| --- | --- |
|  | joint mobility/ or "range of motion"/ or "movement (physiology)"/ |

kinematicsAbstract:

|  |  |
| --- | --- |
|  | proprioception |

motor controlkinesthetickinematicsposture

|  |
| --- |
| ”range of motion”body posturejoint mobility”movement (physiology)” |

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| **Abstrac**t:radiculopathiesnerve root disordersradiculitisnerve root inflammationnerve root avulsionnerve root avulsionsnerve root compression | **and** | **Abstrac**t:neck cervical cervical vertebrae  |