

**Literature Search**  
**ACR Appropriateness Criteria®**  
**Cervical Neck Pain or Cervical Radiculopathy**

Literature Search Performed on: 11/02/2017

Beginning Date: January 2007

End Date: October 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

**Search Strategy**

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- 1 Post traumatic headache/ (302)
- 2 spinal nerves/ (6062)
- 3 Cervical Vertebrae/ (33694)
- 4 1 and 2 and 3 (11)
- 5 Bone diseases,infectious/ (547)
- 6 Spinal diseases/ (21108)
- 7 Radiography/ (331454)
- 8 5 and 6 (20)
- 9 Contrast media/ (83135)
- 10 Tomography, X-Ray Computed/ (368494)
- 11 Discitis/ (2005)
- 12 9 and 10 and 11 (13)
- 13 Endocarditis,bacteria/ (19067)
- 14 comorbidity/ (97048)
- 15 Bacteria/ (136559)
- 16 Spine/ (29228)
- 17 Spondylitis/ (4491)
- 18 magnetic resonance imaging/ (373177)
- 19 13 and 14 (87)
- 20 6 and 16 and 17 and 18 (16)
- 21 4 or 8 or 12 or 19 or 20 (147)
- 22 Lumbar vertebrae/ (49474)
- 23 Intervertebral Disc Degeneration/ (3749)
- 24 Radiculopathy/ (4672)
- 25 22 and 23 and 24 (29)
- 26 pseudarthrosis/ (5444)
- 27 10 and 18 and 26 (46)
- 28 smoking/ (146411)
- 29 3 and 24 and 28 (9)
- 30 disectomy/ (4270)
- 31 24 and 26 (23)
- 32 spinal osteophytosis/ (3502)
- 33 Neck pain/ (6094)
- 34 10 and 18 and 32 and 33 (10)
- 35 Intervertebral Disc Displacement/ (18203)
- 36 spinal cord diseases/ (12395)
- 37 7 and 35 and 36 (41)
- 38 range of motion,articular/ (46072)
- 39 18 and 36 and 38 (22)
- 40 back pain/ (17125)
- 41 10 and 18 and 23 (69)
- 42 low back pain/ (19358)

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- 43 community health planning/ (5088)
- 44 40 and 42 and 43 (1)
- 45 4 or 8 or 12 or 19 or 20 or 21 or 25 or 27 or 29 or 31 or 34 or 37 or 39 or 41 or 44 (390)
- 46 limit 45 to (abstracts and english language and humans and yr="2007 -Current") (196)
- 47 limit 46 to case reports (32)
- 48 46 not 47 (164)
- 49 48 and exp child/ (16)
- 50 48 not 49 (148)
- 51 remove duplicates from 50 (136)

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**Search Strategy**

- 1 Tomography, X-Ray Computed/ (368494)
- 2 Cervical Vertebrae/ (33694)
- 3 spinal cord compression/ (11203)
- 4 1 and 2 and 3 (479)
- 5 Ossification,heterotopic/ (7868)
- 6 1 and 2 and 5 (67)
- 7 Bone neoplasm/ (61544)
- 8 Whole body imaging/ (4569)
- 9 1 and 7 and 8 (102)
- 10 Spinal Neoplasms/ (13737)
- 11 Intervertebral Disc Displacement/ (18203)
- 12 Nerve compression syndromes/ (10230)
- 13 Radiculopathy/ (4672)
- 14 Spinal nerve roots/ (10573)
- 15 magnetic resonance imaging/ (373177)
- 16 11 and 13 and 14 and 15 (37)
- 17 1 and 2 and 3 and 11 and 13 (7)
- 18 1 and 10 and 15 (1093)
- 19 11 and 12 and 13 and 14 (26)
- 20 1 and 3 and 11 (116)
- 21 prognosis/ (470915)
- 22 11 and 13 and 21 (20)
- 23 Orthopedic procedures/ (23578)
- 24 Anti-inflammatory agents,non-steroidal/ (64867)
- 25 13 and 23 and 24 (2)
- 26 Headache disorders/ (2202)
- 27 International Classification of Diseases/ (7377)
- 28 26 and 27 (47)
- 29 Ligaments,Articular/ (12753)
- 30 1 and 2 and 5 and 29 (6)
- 31 "18191356".mp. (1)

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- 32 4 or 6 or 9 or 16 or 17 or 18 or 19 or 20 or 22 or 25 or 28 or 30 (1853)
- 33 limit 32 to (abstracts and english language and humans and yr="2007 -Current") (613)
- 34 limit 33 to case reports (330)
- 35 33 not 34 (283)
- 36 35 and exp child/ (32)
- 37 35 not 36 (251)
- 38 remove duplicates from 37 (228)

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Literature Search Performed on: 05/12/2017

Beginning Date: January 2007

End Date: April 2017

Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

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**Search Strategy**

- 1 Neck Pain/ (5725)
- 2 Scandinavian.mp. and Nordic Countries/ [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (4727)
- 3 North America/ (18209)
- 4 Databases, Bibliographic/ (5298)
- 5 1 and 2 and 3 and 4 (1)
- 6 Mental Disorders/ (151236)
- 7 Smoking/ (138090)
- 8 Socioeconomic Factors/ (136511)
- 9 \*"Cost of Illness"/ (10192)
- 10 Comorbidity/ (88917)
- 11 1 and 6 and 7 and 8 and 9 and 10 (1)
- 12 Physical Therapy Modalities/ (33067)
- 13 Radiculopathy/ (4425)
- 14 Transcutaneous Electric Nerve Stimulation/ (4026)
- 15 Neck/ (27807)
- 16 12 and 13 and 14 and 15 (1)
- 17 Peripheral Nervous System Diseases/ (21647)
- 18 Prognosis/ (440252)
- 19 Proportional Hazards Models/ (62179)
- 20 Spinal Nerve Roots/ (9951)
- 21 17 and 18 and 19 and 20 (1)
- 22 Manipulation, Spinal/ (1403)
- 23 Patient Care Team/ (60085)
- 24 Whiplash Injuries/ (3109)
- 25 Stress, Psychological/ (104846)
- 26 Low Back Pain/ (18291)
- 27 United States/ (826923)
- 28 Health Behavior/ (43031)
- 29 1 and 25 and 26 and 27 and 28 (1)
- 30 Sick Leave/ (4898)
- 31 Disability Evaluation/ (42439)
- 32 Physicians, Family/ (15936)

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33 1 and 18 and 30 and 31 and 32 (1)

34 1 and 22 and 23 and 24 (1)

35 (Treatment of neck pain: noninvasive interventions: results of the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (2)

36 5 or 11 or 16 or 21 or 29 or 33 or 34 or 35 (8)

37 limit 36 to (abstracts and english language and humans and yr="2007 -Current") (5)

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**Search Strategy**

1 Neck Pain/ (5725)

2 exp Diagnostic Imaging/ (2396509)

3 1 and 2 (1475)

4 limit 3 to "all child (0 to 18 years)" (246)

5 3 not 4 (1229)

6 limit 5 to case reports (746)

7 5 not 6 (483)

8 limit 7 to (abstracts and english language and humans and yr="2007 -Current") (301)

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Literature Search Performed on: 05/12/2017

Beginning Date: January 2012

End Date: April 2017

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**Search Strategy**

1 Arteriovenous Malformations/ (7664)

2 exp Arthritis/ (236107)

3 Atlanto-Axial Joint/ (2773)

4 Cervical Cord/ (406)

5 Cervical Vertebrae/ (31656)

6 Intervertebral Disc/ (12912)

7 Longitudinal Ligaments/ (510)

8 Osteophyte/ (645)

9 Spinal Canal/ (3277)

10 Zygapophyseal Joint/ (1471)

11 paraspinal soft tissues.mp. (38)

12 Intervertebral Disc Degeneration/ or Intervertebral Disc Displacement/ (19885)

13 Osteomyelitis/ (19258)

14 Spinal Stenosis/ (5127)

15 Spondylarthropathies/ (1075)

16 Spondylosis/ (1668)

17 facet disease.mp. (32)

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- 18 Tuberculosis/ (99042)
- 19 exp Diagnostic Imaging/ (2396509)
- 20 Neck Pain/ (5725)
- 21 Radiculopathy/ (4425)
- 22 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 (49618)
- 23 1 or 2 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 21 (387309)
- 24 19 and (22 or 23) (78258)
- 25 20 and 24 (807)
- 26 trauma.mp. or "Wounds and Injuries"/ (274891)
- 27 20 and 26 (352)
- 28 25 or 27 (1088)
- 29 limit 28 to (abstracts and english language and humans and yr="2012 -Current") (276)
- 30 19 and 20 (1475)
- 31 limit 30 to (abstracts and english language and humans and yr="2012 -Current") (369)
- 32 29 or 31 (413)
- 33 limit 32 to case reports (195)
- 34 32 not 33 (218)
- 35 limit 34 to "all child (0 to 18 years)" (35)
- 36 34 not 35 (183)
- 37 remove duplicates from 36 (178)

**Summary**

Source	#Unique Refs	#Retained Refs
Old bibliography	60	16
Literature Search(es)	670	24
Author Added	91	74
Supporting Docs	9	9
Total		123

References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.