

Literature search strategies for review question: How effective are radiological imaging techniques in the diagnosis of spinal metastases, direct malignant infiltration of the spine or associated spinal cord compression?

Database: MEDLINE – OVID interface

#	Searches
1	Spinal Cord Compression/
2	exp Spinal Cord Neoplasms/ or Spinal Neoplasms/
3	((cauda equina or cervical* or cervicothoracic or cord* or coccyx or duralsac* or dural sac* or intervertebr* or lumbar or lumbosac* or lumbo sac* or medulla* or orthothoracic or sacral or sacrum or spinal or spine* or thecal sac* or thoracic or vertebr* or epidural or extradural or extra dural) adj3 (infiltrat* or invad* or invasion or metast* or oligometast*)).ti,ab.
4	((((cauda equina or cervical* or cervicothoracic or cord* or coccyx or duralsac* or dural sac* or intervertebr* or lumbar or lumbosac* or lumbo sac* or medulla* or orthothoracic or sacral or sacrum or spinal or spine* or thecal sac* or thoracic or vertebr* or epidural or extradural or extra dural or ((axon* or neuron* or nerve*) adj2 root)) adj3 (collaps* or compress* or pinch* or press*)) and (adeno* or cancer* or carcinoma* or chordoma* or intraepithelial* or intra epithelial* or malignan* or metast* or neoplas* or oligometast* or tumo?r*)).ti,ab.
5	(mescc or msc).ti,ab.
6	or/1-5
7	Diagnostic Imaging/
8	((diagnos* adj (imag* or radiogra* or scan*)) or ((radiogra* or radiolog*) adj (exam* or imag* or investigat* or scan* or test*))).ti,ab.
9	exp Magnetic Resonance Imaging/
10	(magnetic resonance or DWI or FMRI or MRE or MRI or MRS or NMR* or T1W or T2W or zeugmatogra* or ((diffusion or echoplanar or functional or magnet* or MR or nuclear or NM or planar or weight*) adj2 (diagnos* or elastogra* or examin* or imag* or scan* or spectroscop* or tomogra*))).ti,ab.
11	exp Tomography, Emission-Computed/ or exp Tomography, X-Ray Computed/
12	((((CAT or CT or comput* or electron beam or FDG or multidetector or multi detector or multislice or multi slice or PET or positron emission or spiral) adj2 (detect* or diagnos* or exam* or imag* or scan* or tomogra*)) or (FDG adj2 PET) or MDCT or MSCT or SPECT or spiral CT or tomodensitomet*).ti,ab.
13	Myelography/
14	(medullogra* or myelogra*).ti,ab.
15	Diagnostic Techniques, Radioisotope/ or Radionuclide Imaging/
16	((((gamma or radionuclide* or radioisotop*) adj2 (diagnos* or imag* or investigat* or scan* or scintigra* or scintimet* or scintiscan*)) or osteoscintigra*).ti,ab.
17	Absorptiometry, Photon/
18	(DEXA or DPX or DXA or ((dual emission or dual energy or dualenergy or photon) adj3 (absorptiomet* or densitomet* or imag* or photodensitomet* or scan*))).ti,ab.
19	((bone* or BMD or skelet*) adj (imag* or scan* or scintigra* or scintiscan* or survey*)).ti,ab.
20	x rays/
21	(x ray* or xray* or digital radiogra* or discogra* or diskogra* or grenz ray* or plain film* or plain radiogra* or radiodiagnos* or radio diagnos* or radioimag* or radiophoto* or roent* or x radiat* or xradiat*).ti,ab.
22	exp Angiography/ or exp Radionuclide Angiography/
23	(angiogra* or arteriogra*).ti,ab.
24	exp Image-Guided Biopsy/
25	((biops* or sampl*) adj3 ((imag* or scan* or tomogra* or ultraso* or ultra so* or CAT or CT or MR*) adj3 guid*)).ti,ab.
26	(biops* or sampl*).ti,ab. And dg.fs.
27	or/7-26
28	6 and 27
29	letter/ or editorial/ or news/ or exp historical article/ or Anecdotes as Topic/ or comment/ or case report/ or (letter or comment*).ti.
30	randomized controlled trial/ or random*.ti,ab.
31	29 not 30
32	(animals/ not humans/) or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ or (rat or rats or mouse or mice).ti.
33	31 or 32
34	28 not 33
35	limit 34 to english language
36	limit 35 to yr="1990 -Current"
37	meta-analysis/ or meta-analysis as topic/ or "systematic review"/
38	(meta analy* or metanaly* or metaanaly* or ((evidence or systematic*) adj2 (overview* or review*))).ti,ab.
39	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
40	(search strategy or search criteria or systematic search or study selection or data extraction or (search* adj4 literature)).ab.
41	(medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
42	cochrane.jw.

#	Searches
43	or/37-42
44	36 and 43
45	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt.
46	drug therapy.fs.
47	(groups or placebo or randomi#ed or randomly or trial).ab.
48	Clinical Trials as Topic/
49	trial.ti.
50	or/45-49
51	36 and 50
52	Non-Randomized Controlled Trials as Topic/
53	(experimental or nonrandom* or non random*).tw.
54	52 or 53
55	36 and 54
56	Comparative Studies/ or Cross-Sectional Studies/ or Follow-Up Studies/ or Time Factors/
57	(chang* or evaluat* or reviewed or prospective* or retrospective* or baseline or cohort or case series or cross section-al).tw.
58	56 or 57
59	36 and 58
60	or/44,51,55,59

Economic literature search strategy

Database: MEDLINE – OVID interface

#	Searches
1	exp Spinal Cord Neoplasms/ or Spinal Neoplasms/
2	((spine or spinal or vertebr*) adj2 (adeno* or cancer* or carcinoma* or intraepithelial* or intra epithelial* or malignan* or neoplas* or tumo?r*)).tw.
3	((spine or spinal or vertebr*) and (metast* or oligometast*)).tw.
4	or/1-3
5	Spinal Cord Compression/
6	((cauda equina or cervical* or cervicothoracic or cord* or coccyx or duralsac* or dural sac* or intervertebr* or lumbar or lumbosac* or lumbo sac* or medulla* or orthothoracic or sacral or sacrum or spinal or spine* or thecal sac* or thoracic or vertebr* or epidural or extradural or extra dural or ((axon* or neuron* or nerve*) adj2 root)) and (collaps* or compress* or pinch* or press*) and (adeno* or cancer* or carcinoma* or chordoma* or intraepithelial* or intra epithelial* or malignan* or metast* or neoplas* or oligometast* or tumo?r*)).tw.
7	(myelopath* or myeloradiculopath* or radiculopath*).tw,hw. Or (radicular adj2 (disorder* or syndrome*)).tw.
8	(mescc or msc).tw.
9	or/5-8
10	((adeno* or cancer* or carcinoma* or intraepithelial* or intra epithelial* or malignan* or metast* or neoplas* or tumo?r*) adj3 (escap* or infiltrat* or invasiv* or metast* or spread*) adj5 (cauda equina or cervical* or cervicothoracic or cord* or coccyx or duralsac* or dural sac* or intervertebr* or lumbar or lumbosac* or lumbo sac* or medulla* or orthothoracic or sacral or sacrum or spinal or spine* or thecal sac* or thoracic or vertebr* or epidural or extradural or extra dural or ((axon* or neuron* or nerve*) adj2 root))).tw.
11	or/4,9-10
12	Economics/ or Value of life/ or exp "Costs and Cost Analysis"/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or exp "Fees and Charges"/ or exp Budgets/
13	(cost* or economic* or pharmacoeconomic*).ti.
14	(budget* or financ* or fee or fees or price* or pricing* or (value adj2 (money or monetary))).ti,ab.
15	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
16	or/12-15
17	11 and 16
18	limit 17 to english language
19	limit 18 to yr="2005 -Current"