

Literature search strategies for review question: How effective are radiological imaging techniques in guiding the management 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 tumor*).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 psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
42	cochrane.jw.
43	or/37-42
44	36 and 43

#	Searches
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 com- press* 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 ((ax- on* 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"