

**Literature search strategies for review question: How effective is radiotherapy, including both fractionated and unfractionated radiotherapy, for the management of spinal metastases, direct malignant infiltration of the spine or associated spinal cord compression?**

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	exp radiotherapy/ or (((bucky or bio?radiant) adj2 (radiation or ray or therap* or treat*)) or hypophysis radiat* or (interstitial adj2 radiat*) or irradiat* or (radiat* or rt) adj2 (beam centration or fraction* or repair* or therap* or treat* or unfraction*) or 3D?CRT or radio?hypophysectom* or ((radio* or roentgen) adj2 (therap* or treat*)) or radio?therap* or therapeutic radiology or (stereotactic adj3 (radiat* or radio*)) or sbrt).tw.
11	or/4,9-10
12	exp radiotherapy/ or (((bucky or bio?radiant) adj2 (radiation or ray or therap* or treat*)) or hypophysis radiat* or (interstitial adj2 radiat*) or irradiat* or (radiat* adj2 (beam centration or fraction* or repair* or therap* or treat* or unfraction*)) or 3D?CRT or radio?hypophysectom* or ((radio* or roentgen) adj2 (therap* or treat*)) or radio?therap* or therapeutic radiology).tw.
13	11 and 12
14	(animals not humans).sh. or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ or (rat or rats or mouse or mice).ti.
15	13 not 14
16	limit 15 to yr="2005 -Current"
17	limit 16 to english language
18	(controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi#ed or randomly or trial).ab.
19	(experimental or non?random*).tw. or experimental study/ use emez
20	or/18-19
21	meta-analysis/ or meta-analysis as topic/ or systematic review/
22	(meta analy* or metanaly* or metaanaly* or ((evidence or systematic*) adj2 (overview* or review*))).ti,ab. or (bibliograph* or data extraction or hand search* or manual search* or reference list* or relevant journals or (search adj (criteria or strategy)) or (search* adj4 literature) or study selection or systematic search or (bids or cancerlit or cinahl or cochrane or embase or medline or psychinfo or psychlit or psycinfo or psyclit or pubmed or science citation index)).ab. or cochrane.jw.
23	or/21-22
24	or/20,23
25	17 and 24
26	COMPARATIVE STUDIES/ or FOLLOW-UP STUDIES/ or TIME FACTORS/ or chang\$.tw. or evaluat\$.tw. or reviewed.tw. or prospective\$.tw. or retrospective\$.tw. or baseline.tw. or cohort.tw. or case series.tw.
27	(17 and 26) not 25

Health economics search

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"