Economic evidence tables 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?

Study country and type	Intervention and compar- ator	Study popu- lation, design and data sources	Costs and outcomes (descriptions and values)	Results	Comments			
Author and year: Turner 2018 Country: UK Type of eco- nomic analy- sis: Cost util- ity Source of funding: Na- tional Institute for Health Re- search Bio- medical Re- search Centre	Intervention: Surgery and radiotherapy (RT) Comparator: Radiotherapy alone	Population characteris- tic: 130 con- secutive pa- tients who re- quired surgery and RT for symptomatic spinal metas- tases from any cancer at a NHS spinal tertiary refer- ral centre be- tween 2009 and 2015 Mean age:60.6 years Male: 51.5% Paralysed: 30.4% The compara- tor group (RT alone) were modelled on the above co- hort and val- ues from Patchel (2005) Modelling ap- proach: Pro- spectively col- lected costs	Mean cost per partici- pant (SD) Intervention: £42,904(£24,7 68) Comparator: £55,743 (£43,646) Difference: - £12,839 (SD £37,896) Mean out- come per participant (SD): Intervention: 0.64 QALYs (0.41) Comparator: 0.32 QALYs (0.45)	ICERs: Sur- gery and RT dominant less costly but more effective Sensitivity analysis: Surgery and RT remained less costly and more ef- fective when costs from the 2008 NICE guideline manual were used instead of reimburse- ment costs and under dif- ferent QALY assumptions for the hypo- thetical group (linear decline of QoL until death, QOL maintained at pre-operative levels) No probabilis- tic sensitivity analyses were undertaken.	Perspective: UK NHS & PSS Currency: Pounds ster- ling (£) Cost year: 2016 Time hori- zon: Lifetime Discounting: 3.5% per an- num both costs and QALYS Applicability: Directly Appli- cable Limitations: Potentially se- rious limita- tions Other com- ments: Groups not randomised. Patients re- cruited post 2008 where CG75 recom- mended sur- gery and radi- otherapy for eligible peo- ple. RT arm was based on			

Table 13: Economic evidence tables

Study country and type	Intervention and compar- ator	Study popu- lation, design and data sources	Costs and outcomes (descriptions and values)	Results	Comments
		and quality of life from con- secutive pa- tients. Hypo- thetical com- parator adjust- ing results based on one trial.			modelling us- ing values from Patchell 2005
		Source of baseline data: Col- lected pro- spectively from people in the study			
		Source of ef- fectiveness data: Hypo- thetical com- parator cohort adjusted using Patchell 2015.			
		Quality of life using the EQ- 5D question- naire at pre- and post-op- eratively and at 3,6 and 12 months and every 12 months until death and scored using the UK popu- lation value set.			
		Source of cost data: Tariff re- imbursement extracted from			

Study country and type	Intervention and compar- ator	Study popu- lation, design and data sources	Costs and outcomes (descriptions and values)	Results	Comments
		hospital data- base			