

SUPPLEMENTARY FILE 1: Search strategy

Table 1.1: MEDLINE

	Search terms
1	arthroplasty, replacement, hip/ or arthroplasty, replacement, knee/
2	((knee? or hip) adj (replace\$ or arthroplast*)).ti,ab.
3	1 or 2
4	simulation model\$.ti,ab.
5	markov.ti,ab.
6	monte carlo.ti,ab.
7	decision tree\$.ti,ab.
8	decision analy\$.ti,ab.
9	qaly\$.ti,ab.
10	(valu\$ adj2 quality).ti,ab.
11	utility value\$.ti,ab.
12	((disability or quality) adj adjusted).ti,ab.
13	((life adj2 year\$) or health year equivalent\$).ti,ab.
14	(health adj utilit\$).ti,ab.
15	hui\$1.ti,ab.
16	(quality adj3 well\$).ti,ab.
17	qwb.ti,ab.
18	(qald\$ or qale\$ or qtime\$).ti,ab.
19	(well being or wellbeing).tw.
20	(health adj2 stat\$).tw.
21	((adjusted adj2 life) or qaly\$).ti,ab.
22	(daly or qol or hql or hqol or hrqol or hr ql or hrql).tw.
23	cost-utility.ti,ab.
24	cost-effectiveness.ti,ab.
25	cost-benefit.ti,ab.
26	cost-minimisation.ti,ab.
27	cost-minimization.ti,ab.
28	modelling.ti,ab.
29	modeling.ti,ab.
30	decision model.ti,ab.
31	QALY.ti,ab.
32	quality adjusted life year\$.ti,ab.
33	cost.ti,ab.
34	life year\$.ti,ab.
35	incremental cost-effectiveness ratio.ti,ab.
36	(quality adj2 life).ti,ab.
37	Technology Assessment, Biomedical/
38	"Costs and Cost Analysis"/
39	technology assessment\$.ti,ab.
40	economic evaluation\$.ti,ab.
41	economic model\$.ti,ab.
42	discrete event simulat\$.ti,ab.
43	cost utility.ti,ab.
44	cost effectiv\$.ti,ab.
45	cost benefit.ti,ab.
46	cost minimisation.ti,ab.
47	cost minimization.ti,ab.
48	ICER\$.ti,ab.
49	EQ-5D\$.ti,ab.
50	(SF-12 or SF12 or Short Form 12).ti,ab.

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51	(SF-36 or SF36 or Short Form 36).ti,ab.
52	(SF-6D or SF6D or Short Form 6D).ti,ab.
53	rosser index.ti,ab.
54	person trade off.ti,ab.
55	standard gamble.ti,ab,kw.
56	time trade off.ti,ab,kw.
57	Hye.ti,ab,kw.
58	Hyes.ti,ab,kw.
59	Euroqol.ti,ab,kw.
60	4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59
61	3 and 60

Table 1.2: EMBASE

	Search terms
1	hip replacement/ or hip arthroplasty/
2	total knee replacement/ or knee replacement/ or knee arthroplasty/
3	((knee? or hip) adj (replace\$ or arthroplast\$)).ti,ab.
4	1 or 2 or 3
5	simulation model\$.ti,ab.
6	markov.ti,ab.
7	monte carlo.ti,ab.
8	decision tree\$.ti,ab.
9	decision analy\$.ti,ab.
10	qaly\$.ti,ab.
11	(valu\$ adj2 quality).ti,ab.
12	utility value\$.ti,ab.
13	((disability or quality) adj adjusted).ti,ab.
14	((life adj2 year\$) or health year equivalent\$).ti,ab.
15	hui\$1.ti,ab.
16	(quality adj3 well\$).ti,ab.
17	qwb.ti,ab.
18	(qald\$ or qale\$ or qtime\$).ti,ab.
19	(well being or wellbeing).tw.
20	(health adj2 stat\$).tw.
21	((adjusted adj2 life) or qaly\$).ti,ab.
22	(daly or qol or hql or hqol or hrqol or hr ql or hrql).tw.
23	cost-utility.ti,ab.
24	cost-benefit.ti,ab.
25	cost-minimisation.ti,ab.
26	cost-minimization.ti,ab.
27	modelling.ti,ab.
28	modeling.ti,ab.
29	QALY.ti,ab.
30	quality adjusted life year\$.ti,ab.
31	cost.ti,ab.
32	life year\$.ti,ab.
33	incremental cost-effectiveness ratio.ti,ab.
34	(quality adj2 life).ti,ab.

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35	decision model\$.ti,ab.
36	cost-effectiv\$.ti,ab.
37	"cost benefit analysis"/
38	biomedical technology assessment/
39	technology assessment\$.ti,ab.
40	economic evaluation\$.ti,ab.
41	economic model\$.ti,ab.
42	discrete event simulat\$.ti,ab.
43	cost utility.ti,ab.
44	cost effectiv\$.ti,ab.
45	cost benefit.ti,ab.
46	cost minimisation.ti,ab.
47	cost minimization.ti,ab.
48	ICER\$.ti,ab.
49	(health adj utilit\$.ti,ab.
50	EQ-5D\$.ti,ab.
51	(SF-12 or SF12 or Short Form 12).ti,ab.
52	(SF-36 or SF36 or Short Form 36).ti,ab.
53	(SF-6D or SF6D or Short Form 6D).ti,ab.
54	rosser index.ti,ab.
55	person trade off.ti,ab.
56	standard gamble.ti,ab,kw.
57	time trade off.ti,ab,kw.
58	Hye.ti,ab,kw.
59	Hyes.ti,ab,kw.
60	Euroquol.ti,ab,kw.
61	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60
62	4 and 61

Table 1.3: Cochrane library (hip)

	Search terms
OR	Title, Abstract, Keywords: "Hip arthroplasty"
OR	Title, Abstract, Keywords: "Hip arthroplasties"
OR	Title, Abstract, Keywords: "Hip replacement"

Table 1.4: Cochrane library (knee)

	Search terms
OR	Title, Abstract, Keywords: "Knee arthroplasty"
OR	Title, Abstract, Keywords: "Knee arthroplasties"
OR	Title, Abstract, Keywords: "Knee replacement"

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Table 1.5: EconLit

	Search terms
AND	TI,AB(hip) OR TI,AB(knee) TI,AB(Replace*) OR TI,AB(arthroplasty*) OR TI,AB(Replacement) OR TI,AB(arthroplasties)