

Computer simulation models of prediabetes populations: a systematic review protocol

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Appendix 1: Search strategy

Table A.1.1: Ovid MEDLINE

Searches	Search Terms
1	exp prediabetic state/
2	exp insulin resistance/
3	prediab\$.ti,ab.
4	pre diab\$.ti,ab.
5	(glucose adj2 impair\$).ti,ab.
6	(glucose adj2 intol\$).ti,ab.
7	IGT.ti,ab.
8	IFG.ti,ab.
9	IGR.ti,ab.
10	(impair\$ adj2 glycem\$).ti,ab.
11	(impair\$ adj2 glycaem\$).ti,ab.
12	(insulin adj2 resistan\$).ti,ab.
13	impaired fasting glucose.ti,ab.
14	impaired fasting glycaem\$.ti,ab.
15	impaired fasting glycem\$.ti,ab.
16	impaired glucose tolerance.ti,ab.
17	impaired glucose regulation.ti,ab.
18	glucose intolerance.ti,ab.
19	borderline diabetes.ti,ab.
20	impaired fasting insulin.ti,ab.
21	1 or 2 or 3 or 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
22	Type 2 Diab\$.ti.
23	diabetes.ti.
24	exp insulin resistance/
25	Type II diab\$.ti.
26	NIDDM.ti.
27	Non insulin dependent diabetes.ti.
28	T2DM.ti.
29	exp diabetes mellitus, Type 2/
30	obese diabetes.ti.
31	obesity diabetes.ti.
32	((adult or mature or late) and onset).ti.
33	MODY.ti.
34	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33
35	screen\$.ti,ab.
36	prevent\$.ti,ab.
37	lifestyle.ti,ab.
38	early detection.ti,ab.
39	(risk adj2 stratifi\$).ti,ab.
40	(risk adj2 identification\$).ti,ab.
41	35 or 36 or 37 or 38 or 39 or 40
42	34 and 41
43	simulation model\$.ti,ab.
44	markov.ti,ab.
45	monte carlo.ti,ab.
46	decision tree\$.ti,ab.
47	decision analy\$.ti,ab.
48	qaly\$.ti,ab.
49	(valu\$ adj2 quality).ti,ab.
50	utility value\$.ti,ab.
51	((disability or quality) adj adjusted).ti,ab.
52	((life adj2 year\$) or health year equivalent\$).ti,ab.
53	(health adj utilit\$).ti,ab.
54	hui\$1.ti,ab.

55 (quality adj3 well\$).ti,ab.
 56 qwb.ti,ab.
 57 (qald\$ or qale\$ or qtime\$).ti,ab.
 58 (well being or wellbeing).tw.
 59 (health adj2 stat\$).tw.
 60 ((adjusted adj2 life) or qaly\$).ti,ab.
 61 (daly or qol or hql or hqol or hrqol or hr ql or hrql).tw.
 62 cost-utility.ti,ab.
 63 cost-effectiveness.ti,ab.
 64 cost-benefit.ti,ab.
 65 cost-minimisation.ti,ab.
 66 cost-minimization.ti,ab.
 67 modelling.ti,ab.
 68 modeling.ti,ab.
 69 decision model.ti,ab.
 70 QALY.ti,ab.
 71 quality adjusted life year\$.ti,ab.
 72 cost.ti,ab.
 73 life year\$.ti,ab.
 74 incremental cost-effectiveness ratio.ti,ab.
 75 (qtwist or q twist).ti,ab.
 76 (quality adj2 life).ti,ab.
 77 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
 78 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76
 79 21 or 42
 80 77 and 78
 80 non-diabet\$.ti,ab.
 81 79 not 80
 82 exp animals/ not human.sh.
 83 81 and 82
 84 limit 83 to yr="2000 -Current"
 85 limit 84 to english language

ti: title; ab: abstract

Table A.1.2: OVID Embase

Searches	Search Terms
1	exp impaired glucose tolerance/
2	exp insulin resistance/
3	prediab\$.ti,ab.
4	pre diab\$.ti,ab.
5	(glucose adj2 impair\$.ti,ab.
6	(glucose adj2 impair\$.ti,ab.
7	IGT.ti,ab.
8	IFG.ti,ab.
9	IGR.ti,ab.
10	(impair\$ adj2 glycem\$.ti,ab.
11	(impair\$ adj2 glycaem\$.ti,ab.
12	(insulin adj2 resistan\$.ti,ab.
13	impaired fasting glucose.ti,ab.
14	impaired fasting glycaem\$.ti,ab.
15	impaired fasting glycem\$.ti,ab.
16	impaired glucose tolerance.ti,ab.
17	impaired glucose regulation.ti,ab.
18	glucose intolerance.ti,ab.
19	borderline diabetes.ti,ab.
20	impaired fasting insulin.ti,ab.
21	1 or 2 or 3 or 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
22	Type 2 Diab\$.ti.
23	diabetes.ti.
24	exp insulin resistance/
25	Type II diab\$.ti.
26	NIDDM.ti.
27	Non insulin dependent diabetes.ti.
28	T2DM.ti.
29	exp non insulin dependent diabetes mellitus/
30	obese diabetes.ti.
31	obesity diabetes.ti.
32	((adult or mature or late) and onset).ti.
33	MODY.ti.
34	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33
35	screen\$.ti,ab.
36	prevent\$.ti,ab.
37	lifestyle.ti,ab.
38	early detection.ti,ab.
39	(risk adj2 stratifi\$.ti,ab.
40	(risk adj2 identification\$.ti,ab.
41	35 or 36 or 37 or 38 or 39 or 40
42	34 and 41
43	simulation model\$.ti,ab.
44	markov.ti,ab.
45	monte carlo.ti,ab.
46	decision tree\$.ti,ab.
47	decision analy\$.ti,ab.
48	qaly\$.ti,ab.
49	(valu\$ adj2 quality).ti,ab.
50	utility value\$.ti,ab.
51	((disability or quality) adj adjusted).ti,ab.
52	((life adj2 year\$) or health year equivalent\$.ti,ab.
53	(health adj utilit\$.ti,ab.
54	hui\$1.ti,ab.
55	(quality adj3 well\$.ti,ab.
56	qwb.ti,ab.
57	(qald\$ or qale\$ or qtime\$.ti,ab.
58	(well being or wellbeing).tw.
59	(health adj2 stat\$.tw.
60	((adjusted adj2 life) or qaly\$.ti,ab.
61	(daly or qol or hql or hqol or hrqol or hr ql or hrql).tw.
62	cost-utility.ti,ab.
63	cost-effectiveness.ti,ab.

64 cost-benefit.ti,ab.
 65 cost-minimisation.ti,ab.
 66 cost-minimization.ti,ab.
 67 modelling.ti,ab.
 68 modeling.ti,ab.
 69 decision model.ti,ab.
 70 QALY.ti,ab.
 71 quality adjusted life year\$.ti,ab.
 72 cost.ti,ab.
 73 life year\$.ti,ab.
 74 incremental cost-effectiveness ratio.ti,ab.
 75 (qtwist or q twist).ti,ab.
 76 (quality adj2 life).ti,ab.
 77 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
 78 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76
 79 21 or 42
 80 77 and 78
 81 non-diabet\$.ti,ab.
 82 79 not 80
 83 exp animals/ not human.sh.
 84 81 not 82
 85 limit 83 to yr="2000 -Current"
 86 limit 84 to english language

ti: title; ab: abstract

Table A.1.3: NHS EED (via the Cochrane Library)

Searches	Search Terms
#1	MeSH descriptor: [Prediabetic State] explode all trees
#2	MeSH descriptor: [Insulin Resistance] explode all trees
#3	(prediab*) .ti,ab
#4	(pre diab*) .ti,ab
#5	(glucose near/2 impair*) .ti,ab
#6	(glucose adj2 intol*) .ti,ab
#7	(IGT) .ti,ab
#8	(IFG) .ti,ab
#9	(IGR) .ti,ab
#10	(impair* near/2 glycem*) .ti,ab
#11	(impair* near/2 glycaem*) .ti,ab
#12	(insulin near/2 resistan*) .ti,ab
#13	(impaired fasting glucose) .ti,ab
#14	(impaired fasting glycemias) .ti,ab
#15	(impaired fasting glycaemia) .ti,ab
#16	(impaired glucose tolerance) .ti,ab
#17	(impaired glucose regulation) .ti,ab
#18	(glucose intolerance) .ti,ab
#19	(borderline diabetes) .ti,ab
#20	(impaired fasting insulin) .ti,ab
#21	#1 or #2 or #3 or #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
#22	Type 2 Diab*.ti
#23	diabetes.ti
#24	MeSH descriptor: [Insulin Resistance] explode all trees
#25	Type II diab*.ti
#26	NIDDM.ti
#27	Non insulin dependent diabetes.ti
#28	T2DM.ti
#29	MeSH descriptor: [Diabetes Mellitus] explode all trees
#30	obese diabetes.ti
#31	obesity diabetes.ti
#32	((adult or mature or late) and onset) .ti
#33	MODY.ti
#34	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33
#35	(screen*) .ti,ab.
#36	(prevent*) .ti,ab
#37	lifestyle.ti,ab
#38	(early detection) .ti,ab
#39	(risk near/2 identification\$) .ti,ab
#40	(risk near/2 stratif\$*) .ti,ab
#41	#35 or #36 or #37 or #38 or #39 or #40
#42	#34 and #41
#43	#21 or #42
#44	(non-diabet*) ti.ab
#45	animals.sh. not (humans.sh. and animals.sh.)
#46	#43 not #44
#47	#46 not #45
#48	*:ti,ab,kw Publication Year from 2000 to 2016 (Word variations have been searched)
#49	#47 and #48
#50	*:ti,ab,kw in Economic Evaluations (Word variations have been searched)
#51	#49 and #50

ti: title; ab: abstract

Table A.1.4: Econlit (via ProQuest)

(ti,ab(prediab*) OR ti,ab(pre-diab*) OR ti,ab(glucose NEAR/2 impair*) OR ti,ab(glucose NEAR/2 intol*) OR ti,ab(voigt) OR ti,ab(ifs) OR ti,ab(igor) OR ti,ab(impair* NEAR/2 glycem*) OR ti,ab(impair* NEAR/2 glycaem*) OR ti,ab(insulin NEAR/2 resistan*) OR ti,ab(impaired fasting glucose) OR ti,ab(impaired fasting glycemia) OR ti,ab(impaired fasting glycaemia) OR ti,ab(impaired glucose tolerance) OR ti,ab(impaired glucose regulation) OR ti,ab(glucose intolerance) OR ti,ab(borderline diabetes) OR ti,ab(impaired fasting insulin))

OR

((ti(Type 2 Diab*) OR ti(diabetes) OR ti(Type II diab*) OR ti(NIDDM) OR ti(Non insulin dependent diabetes) OR ti(T2DM) OR ti(obese diabetes) OR ti((adult OR mature OR late) AND onset) OR ti(MODY))

AND

(ti,ab(screen*) OR ti,ab(prevent*) OR ti,ab(lifestyle) OR ti,ab(early detection) OR ti,ab(risk NEAR/2 identification*) OR (risk NEAR/2 stratif*))

Restricted to English Language, peer-reviewed and studies published between 1st January 2000 and 1st August 2016.

Appendix 2: Pro-forma for Data Extraction

Reviewer:
Date form completed:
Study Details:
Title:
Author:
Year Published:
Journal:
Citation:
Language:

Economic evaluation details		Location in text (page/figure/table/other)
Objective/scope of model:		
Location (country/city)		
Economic study design:		
CEA	<input type="checkbox"/>	CBA <input type="checkbox"/>
	<input type="checkbox"/>	
CUA	<input type="checkbox"/>	CMA <input type="checkbox"/>
	<input type="checkbox"/>	
CCA	<input type="checkbox"/>	Cost(s) only
Health outcomes(s)		
Perspective of analysis:		
Societal	<input type="checkbox"/>	Individual clinician <input type="checkbox"/>
	<input type="checkbox"/>	
Patient and patient family	<input type="checkbox"/>	Insurer/third party payer <input type="checkbox"/>
	<input type="checkbox"/>	
Healthcare system		Other:
Healthcare provider		
Costs/consequences/outcome measure(s) (please list):		
Strategies/comparators:		
Setting (describe):		
Patient population characteristics (describe):		
Prediabetes definition (describe):		
Time horizon of analysis:		
Was discounting used?		
Discount rate for costs:		No discounting <input type="checkbox"/>
		<input type="checkbox"/>
Discount rate for health outcomes:		N/A (no information, not relevant)

Modelling details		Location in text (page/figure/table/other)
Rationale for model structure:	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify:
Model structure (<i>paste structure</i>):		
Structural assumptions (<i>describe</i>):		
Have experts been asked to judge the appropriateness of the model?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify: 1. Who: 2. Why they are experts: 3. Level of agreement:
Has the model been compared with other models found in the literature?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please provide reference/citation:
Model type	Cohort-based decision tree (DT) <input type="checkbox"/> Cohort-based State Transition model (MM) <input type="checkbox"/> Individual patient-level DT <input type="checkbox"/> Individual patient-level MM <input type="checkbox"/> Discrete event simulation <input type="checkbox"/> Agent-based model <input type="checkbox"/> System dynamics model <input type="checkbox"/> Other:	
Rationale for model type:	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify:
Cycle length (<i>if relevant</i>):		
Well defined disease states/pathways?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify:
Natural history of diabetes evolution (<i>describe, e.g. discrete, homogeneous</i>)		
Likelihood of glycaemia returning to normal?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify from which state:
Well defined complications in prediabetes state?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify:
Well defined complications in type 2 state?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes please specify:

Modelling details		Location in text (page/figure/table/other)
Was patient heterogeneity modelled?	Prediabetes: If Yes please specify: Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Type 2 diabetes: If Yes please specify: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Data details		Location in text (page/figure/table/other)
Are methods for identifying input data reported?	Yes <input type="checkbox"/> No <input type="checkbox"/> If Yes please specify:	
Have experts been asked to judge the appropriateness of the input data?	Yes <input type="checkbox"/> No <input type="checkbox"/> If Yes please specify: 1. Who: 2. Why they are experts: 3. Level of agreement:	
When input parameters are based on regression models, have statistical tests been performed?	Yes <input type="checkbox"/> No <input type="checkbox"/> If Yes please specify tests:	
Source of baseline clinical data: Prediabetes state(s)	<p>1 Case series or analysis of reliable administrative databases specifically conducted for the study covering patients solely from the jurisdiction of interest. <input type="checkbox"/></p> <p>2 Recent case series or analysis of reliable administrative databases covering patients solely from the jurisdiction of interest. <input type="checkbox"/></p> <p>3 Recent case series or analysis of reliable administrative databases covering patients solely from another jurisdiction. <input type="checkbox"/></p> <p>4 Old case series or analysis of reliable administrative databases. Estimates from RCTs <input type="checkbox"/></p> <p>5 Estimates from previously published economic analyses: unsourced <input type="checkbox"/></p> <p>6 Expert opinion <input type="checkbox"/></p> <p>Other: <input type="checkbox"/> Specify relevant data sources: More than 1 data source per parameter? Reasons for excluding data sources? Evidence synthesis performed? Calibration?</p>	

Data details	Location in text (page/figure/table/other)
Source of baseline clinical data: Type 2 diabetes state(s)	<p>1 Case series or analysis of reliable administrative databases specifically conducted for the study covering patients solely from the jurisdiction of interest <input type="checkbox"/></p> <p>2 Recent case series or analysis of reliable administrative databases covering patients solely from the jurisdiction of interest <input type="checkbox"/></p> <p>3 Recent case series or analysis of reliable administrative databases covering patients solely from another jurisdiction <input type="checkbox"/></p> <p>4 Old case series or analysis of reliable administrative databases. Estimates from RCTs <input type="checkbox"/></p> <p>5 Estimates from previously published economic analyses: unsourced <input type="checkbox"/></p> <p>6 Expert opinion <input type="checkbox"/></p> <p>Other: Specify relevant data sources: More than 1 data source per parameter? Reasons for excluding data sources? Evidence synthesis performed? Calibration?</p>
Source of data for duration of primary effect (i.e. after end of follow-up of source of primary effect size)	<p>1 Analysis of reliable administrative databases specifically conducted for the study covering patients solely from the jurisdiction of interest <input type="checkbox"/></p> <p>2 Recent analysis of reliable administrative databases covering patients solely from the jurisdiction of interest <input type="checkbox"/></p> <p>3 Recent analysis of reliable administrative databases covering patients solely from another jurisdiction <input type="checkbox"/></p> <p>4 Old analysis of reliable administrative databases. <input type="checkbox"/></p> <p>5 Estimates from previously published economic analyses: unsourced <input type="checkbox"/></p> <p>6 Expert opinion <input type="checkbox"/></p> <p>Other: Specify relevant data sources: More than 1 data source per parameter? Reasons for excluding data sources? Evidence synthesis performed? Calibration?</p>

Data details**Location in text**
*(page/figure/table/other)***Source of data for primary effect size measure(s):**

- 1+ Meta-analysis of RCTs with direct comparison between comparator therapies, measuring final outcomes.
- 1 Single RCT with direct comparison between comparator therapies, measuring final outcomes
- 2+ Meta-analysis of RCTs with direct comparison between comparator therapies, measuring surrogate outcomes
- Meta-analysis of placebo-controlled RCTs with similar trial populations, measuring final outcomes for each individual therapy
- 2 Single RCT with direct comparison between comparator therapies, measuring surrogate outcomes
- Single placebo-controlled RCTs with similar trial populations, measuring final outcomes for each individual therapy
- 3+ Meta-analysis of placebo-controlled RCTs with similar trial populations, measuring surrogate outcomes
- 3 Single placebo-controlled RCTs with similar trial populations, measuring surrogate outcomes for each individual therapy
- 4 Case-control or cohort studies
- 5 Non-analytic studies, for example, case reports, case series
- 6 Expert opinion
 - Specify relevant data sources:
 - More than 1 data source per parameter?
 - Reasons for excluding data sources?
 - Evidence synthesis performed?
 - Calibration?

Data details		Location in text <i>(page/figure /table/other)</i>
Source of data for resource use:	<p>1 Prospective data collection or analysis of reliable administrative data from same jurisdiction for specific study <input type="checkbox"/></p> <p>2 Recently published results of prospective data collection or recent analysis of reliable administrative data – same jurisdiction <input type="checkbox"/></p> <p>3 Unsourced data from previous economic evaluations – same jurisdiction <input type="checkbox"/></p> <p>4 Recently published results of prospective data collection or recent analysis of reliable administrative data – different jurisdiction <input type="checkbox"/></p> <p>5 Unsourced data from previous economic evaluation – different jurisdiction <input type="checkbox"/></p> <p>6 Expert opinion <input type="checkbox"/></p> <p>Other: Specify relevant data sources: More than 1 data source per parameter? Reasons for excluding data sources? Evidence synthesis performed? Calibration?</p>	
Source of data for costs:	<p>1 Cost calculations based on reliable databases or data sources conducted for specific study – same jurisdiction <input type="checkbox"/></p> <p>2 Recently published cost calculations based on reliable databases or data sources – same jurisdiction <input type="checkbox"/></p> <p>3 Unsourced data from previous economic evaluation – same jurisdiction <input type="checkbox"/></p> <p>4 Recently published cost calculations based on reliable databases or data sources – different jurisdiction <input type="checkbox"/></p> <p>5 Unsourced data from previous economic evaluation – different jurisdiction <input type="checkbox"/></p> <p>6 Expert opinion <input type="checkbox"/></p> <p>Other: Specify relevant data sources: More than 1 data source per parameter? Reasons for excluding data sources? Evidence synthesis performed? Calibration?</p>	

Data details		Location in text <i>(page/figure/table/other)</i>				
Costs included:	Direct medical	<input type="checkbox"/>	Direct non-medical	<input type="checkbox"/>	Productivity losses	<input type="checkbox"/>
	Direct treatment	<input type="checkbox"/>	Social care	<input type="checkbox"/>	Income forgone due to illness	<input type="checkbox"/>
	In-patient	<input type="checkbox"/>	Social benefits	<input type="checkbox"/>	Income forgone due to death	<input type="checkbox"/>
	Out-patient	<input type="checkbox"/>	Travel costs	<input type="checkbox"/>	Income forgone due to death	<input type="checkbox"/>
	Day care	<input type="checkbox"/>	Caregiver out-of-pocket	<input type="checkbox"/>	Income forgone due to death	<input type="checkbox"/>
	Community healthcare	<input type="checkbox"/>	Criminal Justice	<input type="checkbox"/>	Income forgone due to death	<input type="checkbox"/>
	Medication	<input type="checkbox"/>	Training of staff	<input type="checkbox"/>		
	Side effect costs	<input type="checkbox"/>				
	or	<input type="checkbox"/>				
	Staff	<input type="checkbox"/>				
	Medication	<input type="checkbox"/>				
	Labs/diagnostic	<input type="checkbox"/>				
	Overhead	<input type="checkbox"/>				
	Capital equipment	<input type="checkbox"/>				
	Real estate	<input type="checkbox"/>				
Other:	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
	<input type="checkbox"/>					
Currency/Price year:						
Were QOL estimates derived:	Yes	<input type="checkbox"/>				
	No	<input type="checkbox"/>				

Data details

Location in text
(page/figure/table/other)

Source of data for quality of life/utilities:

- 1 Direct utility assessment for the specific study from a sample:
 - a) of the general population
 - b) with knowledge of the disease(s) of interest
 - c) of patients with the disease(s) of interest
- 1 Indirect utility assessment from specific study from a patient sample with disease(s) of interest: using a tool validated for the patient population
- 2 Indirect utility assessment from specific study from a patient sample with disease(s) of interest using tool not validated for the patient population
- 3 Direct utility assessment from a previous study from a sample either:
 - a) of the general population
 - b) with knowledge of the disease(s) of interest
 - c) of patients with the disease(s) of interest
- 3 Indirect utility assessment from previous study from patient sample with disease(s) of interest: using tool validated for the patient population
- 4 Indirect utility assessment from previous study from patient sample with disease(s) of interest: using tool not validated for the patient population or method of elicitation unknown
- 5 Patient preference values obtained from a visual analogue scale
- 6 Delphi panels, expert opinion
 - Specify relevant data sources:
 - More than 1 data source per parameter?
 - Reasons for excluding data sources?
 - Evidence synthesis performed?
 - Calibration?

If validated tools were used, which instrument(s):

- Rosser Index Health Utilities Index (HUI)
- EQ-5D Quality of Well Being (QWB)
- 15D SF-36
- SF-12 SF-6

Data details		Location in text (page/figure/table/other)
Converted into utilities?	Yes <input type="checkbox"/> No <input type="checkbox"/> If Yes report value set:	
If direct elicitation was used, which approach(s):	Standard Gamble <input type="checkbox"/> VAS <input type="checkbox"/> Time trade-off <input type="checkbox"/> Person trade-off <input type="checkbox"/>	
Utility values combined with survival to form QALYs?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Were all data sources described and reported?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Were mutually inconsistent data reported in the model?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If Yes were the choices justified?
Were data incorporated as point estimate or distribution?	Point estimate <input type="checkbox"/> Distribution <input type="checkbox"/> Both <input type="checkbox"/>	Which model inputs were incorporated as distributions (delete)? All; majority; minority; none Was the choice of distribution justified?
Model uncertainty	Methodological uncertainty <input type="checkbox"/> If yes, describe: Structural uncertainty <input type="checkbox"/> If yes, describe: Heterogeneity <input type="checkbox"/> If yes, list subgroups: Parameter uncertainty <input type="checkbox"/> If yes, list method:	
Model internal validation (mathematical logic and accuracy of coding)	Mathematical logic tested thoroughly before use <input type="checkbox"/> Computerised model examined by modelling experts <input type="checkbox"/> Model run for specific, extreme sets of parameter values to detect coding errors <input type="checkbox"/> Patients tracked through model to determine if its logic is correct <input type="checkbox"/> Tested individual sub-modules of the computerised model <input type="checkbox"/> Other:	
Model external validation	Model outcomes compared with the outcomes of other models that address similar problems <input type="checkbox"/> Counterintuitive results from model explained and justified <input type="checkbox"/> Model outcomes compared with the outcomes obtained when using alternative input data <input type="checkbox"/> Model outcomes compared with empirical data <input type="checkbox"/> Model calibrated against independent data with differences explained and justified <input type="checkbox"/> Other:	

Data details**Location in****text***(page/figure
/table/other)***Result(s):****Quality checklist score****Risk of bias**High Medium Low **Comments, limitations of the study****Study, natural history
and effectiveness data:****Cost, Effects,
methodology,
uncertainty:****Generalizability:**