

# Appendix I: Search strategies for the identification of health economic studies

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## Abbreviations

EconLit	American Economic Association's electronic bibliography
Embase	Excerpta Medica Database
MEDLINE	Medical Literature Analysis and Retrieval System Online
NHS	National Health Service
EED	Economic Evaluation Database
NICE	National Institute for Health and Care Excellence
PreMEDLINE	in-process and other non-indexed citations from MEDLINE
PsycINFO	Psychological Information Database

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## I.1 Scoping searches

A broad preliminary search of the literature was undertaken in September 2014 to obtain an overview of the issues likely to be covered by the scope, and to help define key areas. Searches were limited to full and partial economic evaluations, and quality of life studies.

- NHS Economic Evaluation Database (NHS EED) (Cochrane Library)
- Excerpta Medica Database (Embase)
- HTA database (technology assessments)
- Medical Literature Analysis and Retrieval System Online (MEDLINE/MEDLINE In-Process).

Further information about this process can be found in [Developing NICE guidelines: the manual](#).

## I.2 Systematic search

Each search was constructed using the groups of terms set out in Text Box 1. The selection of search terms was kept broad to maximise retrieval of evidence in a wide range of areas of interest to the Guideline Committee.

**Text Box 1: Summary of systematic search strategies: Search strategy construction**

Review question(s)	Search construction	Study design searched	Databases searched	Date range searched
All review questions	<p>General medical databases:                      [(learning disorder terms) AND [(health economic and quality of life study terms)]</p> <p>Topic specific databases:                      [(learning disorder terms)]</p>	Full and partial economic evaluations	<p>General medical databases:                      Embase, MEDLINE, PreMEDLINE, PsycINFO</p> <p>Topic specific databases:                      NHS EED, HTA, EconLit</p>	2000 to December 2016

## A.1 Search strategies for the identification of health economic studies

### A.1.1 Population search terms

Embase, MEDLINE, PreMEDLINE, PsycINFO – Ovid

#	searches
1	exp *developmental disorder/ or *intellectual impairment/ or exp *mental deficiency/ or exp *learning disorder/
2	1 use emez
3	developmental disabilities/ or exp intellectual disability/ or exp learning disorders/ or mentally disabled persons/
4	3 use mesz, prem
5	exp developmental disabilities/ or exp intellectual development disorder/ or "intellectual development disorder (attitudes toward)"/ or exp learning disabilities/
6	5 use psych
7	((intellect* adj (deficien* or difficult* or disab* or disorder* or impair* or handicap* or incapacit* or handicap* or subnorm* or sub*1 average or sub*1 average or sub*1 norm*)) or (low*2 adj2 intellect*) or (learning adj (deficien* or difficult* or disab* or disorder* or handicap* or impair* or incapacit* or handicap* or subnorm* or sub*1 average or sub*1 average or sub*1 norm*)) or (mental* adj (deficien* or disab* or handicap* or impair* or handicap* or incapacit* or retard* or subnorm* or sub*1 average or sub*1 average or sub*1 norm*))).ti,ab.
8	((subaverage or sub*1 average or subnormal or sub*1 normal*) adj3 (child* or cognit* or intel*)).tw.
9	((development* or neurodevelopment*) adj disab*).tw.
10	(education* adj5 subnorm*).tw.
11	(cretin* or feeble-minded* or imbecil* or moron*).tw.

12	(multipl* handicap* or sever* handicap* or handicap* child* or multiple disabilit* or developmental delay*).ti,ab.
13	*down syndrome/
14	13 use emez
15	angelman syndrome/ or down syndrome/ or fragile x syndrome/
16	15 use mesz, prem
17	down's syndrome/
18	17 use psyh
19	((angelman or happy puppet) adj2 syndrom*) or (down*1 adj (disease or syndrome*)) or bell martin or fragile x or gillian turner or martin bell or turner gillian or x chromosome fragility or (escalante* adj (disease or syndrome*))).ti,ab.
20	(special* adj2 (educat* or need*)).ti,ab,hw.
21	or/2,4,6-12,14,16,18-20

HTA, NHS EED – Wiley

- #1 mesh descriptor: [developmental disabilities] this term only
- #2 mesh descriptor: [intellectual disability] explode all trees
- #3 mesh descriptor: [learning disorders] explode all trees
- #4 mesh descriptor: [mentally disabled persons] this term only
- #5 mesh descriptor: [angelman syndrome] this term only
- #6 mesh descriptor: [down syndrome] this term only
- #7 mesh descriptor: [fragile x syndrome] this term only
- #8 ((intellect\* near/1 (deficien\* or difficult\* or disab\* or disorder\* or impair\* or handicap\* or incapacit\* or handicap\* or subnorm\* or "sub\* average" or "sub\* average" or "sub\* norm\*")) or (low\* near/2 intellect\*) or (learning near/1 (deficien\* or difficult\* or disab\* or disorder\* or handicap\* or impair\* or incapacit\* or handicap\* or subnorm\* or "sub\* average" or "sub\* average" or "sub\* norm\*")) or (mental\* near/1 (deficien\* or

disab\* or impair\* or handicap\* or incapacit\* or retard\* or subnorm\* or "sub\* average" or "sub\* average" or "sub\* norm\*") or ((subaverage or "sub\* average" or subnormal or "sub\* normal\*") near/3 (child\* or cognit\* or intel\*)) or ((development\* or neurodevelopment\*) near/1 disab\*) or (education\* near/5 subnorm\*) or cretin\* or "feeble-minded\*" or imbecil\* or moron\* or handicap\* or "multiple disabilit\*" or "developmental delay\*" or ((angelman or "happy puppet") near/2 syndrom\*) or (down\* near/1 (disease or syndrome\*)) or "bell martin" or "fragile x" or "gillian turner" or "martin bell" or "turner gillian" or "x chromosome fragility" or (escalante\* near/1 (disease or syndrome\*)) or "cerebroatrophic hyperammonemia\*" or (kanners near/1 (disorder\* or syndrome\*)) or handicap\*):ti ,ab,kw

#9 (special\* near/2 (educat\* or need\*)):ti,ab,kw

#10 #1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9

**Study design filters**

**Health economic and quality of life study design filter**

Embase, MEDLINE, PreMEDLINE, PsycINFO – Ovid

1	budget/ or exp economic evaluation/ or exp fee/ or funding/ or exp health care cost/ or health economics/ or exp pharmacoeconomics/ or resource allocation/
2	1 use emez
3	exp budgets/ or exp "costs and cost analysis"/ or economics/ or exp economics, hospital/ or exp economics, medical/ or economics, nursing/ or economics, pharmaceutical/ or exp "fees and charges"/ or exp resource allocation/ or value of life/
4	3 use mesz, prem, prem
5	exp "costs and cost analysis"/ or "cost containment"/ or economics/ or finance/ or funding/ or health care economics/ or pharmacoeconomics/ or exp professional fees/ or resource allocation/
6	5 use psych
7	(cost* or economic* or pharmacoeconomic* or pharmaco economic*).ti. or (cost* adj2 (effective* or utilit* or benefit* or minimi*)).ab. or economic model*.tw. or

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	(budget* or fee or fees or financ* or price or prices or pricing or resource* allocat* or (value adj2 (monetary or money))).ti,ab.
8	decision theory/ or decision tree/ or monte carlo method/ or *nonbiological model/ or (statistical model/ and exp economic aspect/) or stochastic model/ or *theoretical model/
9	8 use emez
10	exp decision theory/ or markov chains/ or exp models, economic/ or *models, organizational/ or *models, theoretical/ or monte carlo method/
11	10 use mesz, prem, prem
12	exp decision theory/ or exp stochastic modeling/
13	12 use psych
14	((decision adj (analy* or model* or tree*)) or economic model* or markov or monte carlo).ti,ab.
15	quality adjusted life year/ or "quality of life index"/ or short form 12/ or short form 20/ or short form 36/ or short form 8/ or sickness impact profile/
16	15 use emez
17	quality-adjusted life years/ or sickness impact profile/
18	17 use mesz, prem, prem
19	"*quality of life"/
20	19 use psych
21	((((disability or quality) adj adjusted) or (adjusted adj2 life)).ti,ab.
22	(disutili* or (utilit* adj1 (health or score* or value* or weigh*))).ti,ab.
23	(health year equivalent or hye or hyes).ti,ab.



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24	(daly or qal or qald or qale or qaly or qtime* or qwb*).ti,ab.
25	discrete choice.ti,ab.
26	(euroqol* or euro qol* or eq5d* or eq 5d*).ti,ab.
27	(hui or hui1 or hui2 or hui3).ti,ab.
28	((quality adj2 (wellbeing or well being)) or quality adjusted life or qwb or (value adj2 (money or monetary))).ti,ab.
29	(qol or hqi* or hqol* or h qol* or hrqol or hr qol or hr qi or hrqi).ti,ab.
30	rosser.ti,ab.
31	sickness impact profile.ti,ab.
32	(standard gamble or time trade* or tto or willingness to pay or wtp).ti,ab.
33	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.
34	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.
35	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.
36	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab
37	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.
38	or/ 2,4,6-7,9,11,13-14,16,18,20-37