

Appendix A: Literature search strategies

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Search strategies used for the glaucoma guideline are outlined below and were run in accordance with the methodology in the NICE guidelines manual 2014, available from <https://www.nice.org.uk/article/pmg20/>. All searches were run up to 24th January 2017 unless otherwise stated. Any studies added to the databases after this date (even those published prior to this date) were not included unless specifically stated in the text. Where possible searches were limited to retrieve material published in English.

Searches for the **clinical reviews** were run in Medline (OVID), Embase (OVID) and the Cochrane Library (Wiley), see Table 1.

Searches for **intervention and diagnostic studies** were usually constructed using a PICO format where population (P) terms were combined with Intervention (I) and sometimes Comparison (C) terms. An intervention can be a drug, a procedure or a diagnostic test. Outcomes (O) are rarely used in search strategies for interventions. Search filters were also added to the search where appropriate.

Searches for **prognostic studies** were usually constructed combining population terms with prognostic variable terms and sometimes outcomes. Search filters were added to the search where appropriate.

Table 1: Databases searched

Diagnosis accuracy	A.4.2	Medline, Embase and the Cochrane Library
Monitoring	A.4.3	Medline, Embase and the Cochrane Library
Prognostic risk tools	A.4.1	Medline & Embase
Service provision	A.4.5	Medline, Embase and the Cochrane Library
Treatment	A.4.4	Medline, Embase and the Cochrane Library

Searches for the clinical reviews were run in Medline, Embase and the Cochrane Library for all questions except prognostic risk tools, where Medline and Embase only were searched as the protocol did not include randomised controlled trials study types.

Searches for the health economic reviews were run in Medline, Embase, the NHS Economic Evaluations Database (NHS EED), the Health Technology Assessment (HTA) database. NHS EED and HTA databases are hosted by the Cochrane Library. The NHS EED database has not been updated since 2015.

For Medline and Embase an economic filter (instead of a study type filter) was added to the same clinical search strategy. Searches in NHS EED and HTA were constructed using population terms only.

A.2 Population search strategies

A.2.1 Standard glaucoma population

Medline search terms

1.	exp ocular hypertension/ or ocular hypotension/
2.	low tension glaucoma/
3.	intraocular pressure/
4.	glaucom*.ti,ab,kw.
5.	(ocular adj (hypertension or hypotension)).ti,ab.
6.	or/1-5

Embase search terms

1.	exp glaucoma/
2.	exp intraocular hypotension/
3.	intraocular pressure/
4.	glaucom*.ti,ab,kw.
5.	(ocular adj (hypertension or hypotension)).ti,ab.
6.	or/1-5

Cochrane search terms

#1.	MeSH descriptor: [ocular hypertension] explode all trees
#2.	MeSH descriptor: [ocular hypotension] explode all trees
#3.	MeSH descriptor: [low tension glaucoma] explode all trees
#4.	glaucom*:ti,ab,kw
#5.	(ocular next (hypertension or hypotension)):ti,ab

#6.	{or #1-#5}
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A.3 Study filter search terms

A.3.1 Excluded study designs and publication types

The following study designs and publication types were removed from retrieved results using the NOT operator.

Medline search terms

1.	letter/
2.	editorial/
3.	news/
4.	exp historical article/
5.	anecdotes as topic/
6.	comment/
7.	case report/
8.	(letter or comment*).ti.
9.	or/1-8
10.	randomized controlled trial/ or random*.ti,ab.
11.	9 not 10
12.	animals/ not humans/
13.	exp animals, laboratory/
14.	exp animal experimentation/
15.	exp models, animal/
16.	exp rodentia/
17.	(rat or rats or mouse or mice).ti.
18.	or/11-17

Embase search terms

1.	letter.pt. or letter/
2.	note.pt.
3.	editorial.pt.
4.	case report/ or case study/
5.	(letter or comment*).ti.
6.	or/1-5
7.	randomized controlled trial/ or random*.ti,ab.
8.	6 not 7
9.	animal/ not human/
10.	nonhuman/
11.	exp animal experiment/
12.	exp experimental animal/
13.	animal model/
14.	exp rodent/
15.	(rat or rats or mouse or mice).ti.
16.	or/8-15

A.3.2 Randomised controlled trials [RCT]

Medline search terms

(Based on the sensitivity and precision maximising version reported in the Cochrane Handbook (<http://handbook.cochrane.org/>)).

1.	randomized controlled trial.pt.
2.	controlled clinical trial.pt.
3.	randomi#ed.ti,ab.
4.	placebo.ab.
5.	randomly.ab.ti
6.	clinical trials as topic.sh.
7.	trial.ti.
8.	or/1-7

Embase search terms

1.	random*.ti,ab.
2.	factorial*.ti,ab.
3.	(crossover* or cross over*).ti,ab.
4.	((doubl* or singl*) adj blind*).ti,ab.
5.	(assign* or allocat* or volunteer* or placebo*).ti,ab.
6.	crossover procedure/
7.	double blind procedure/
8.	single blind procedure/
9.	randomized controlled trial/
1	or/1-9

A.3.3 Systematic reviews [SR]

Medline search terms

1.	meta-analysis/
2.	meta-analysis as topic/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic* or evidence*) adj3 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.
8.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9.	cochrane.jw.
10.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
11.	or/1-10

Embase search terms

1.	systematic review/
2.	meta-analysis/
3.	(meta analy* or metanaly* or metaanaly*).ti,ab.
4.	((systematic or evidence) adj3 (review* or overview*)).ti,ab.
5.	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6.	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7.	(search* adj4 literature).ab.
8.	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9.	cochrane.jw.
10.	((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab.
11.	or/1-10

A.3.4 Health economic studies [HE]

Medline search terms

1.	economics/
2.	value of life/
3.	exp "costs and cost analysis"/
4.	exp economics, hospital/
5.	exp economics, medical/
6.	economics, nursing/
7.	economics, pharmaceutical/
8.	exp "fees and charges"/
9.	exp budgets/
10.	budget*.ti,ab.
11.	cost*.ti.
12.	(economic* or pharmaco?economic*).ti.
13.	(price* or pricing*).ti,ab.
14.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
15.	(financ* or fee or fees).ti,ab.
16.	(value adj2 (money or monetary)).ti,ab.
17.	or/1-16

Embase search terms

1.	health economics/
2.	exp economic evaluation/
3.	exp health care cost/
4.	exp fee/
5.	budget/
6.	funding/
7.	budget*.ti,ab.
8.	cost*.ti.
9.	(economic* or pharmaco?economic*).ti.

10.	(price* or pricing*).ti,ab.
11.	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12.	(financ* or fee or fees).ti,ab.
13.	(value adj2 (money or monetary)).ti,ab.
14.	or/1-13

A.3.5 Quality of life studies [QoL]

Medline search terms

1.	quality-adjusted life years/
2.	sickness impact profile/
3.	(quality adj2 (wellbeing or well-being)).ti,ab.
4.	sickness impact profile.ti,ab.
5.	disability adjusted life.ti,ab.
6.	(qal* or qtime* or qwb* or daly*).ti,ab.
7.	(euroqol* or eq5d* or eq 5d*).ti,ab.
8.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
9.	(health utility* or utility score* or disutilit*).ti,ab.
10.	(hui or hui1 or hui2 or hui3).ti,ab.
11.	health* year* equivalent*.ti,ab.
12.	(hye or hyes).ti,ab.
13.	rosser.ti,ab.
14.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
15.	(sf36 or sf 36 or short form 36 or shortform 36 or shortform36).ti,ab.
16.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
17.	(sf12 or sf 12 or short form 12 or shortform 12 or shortform12).ti,ab.
18.	(sf8 or sf 8 or short form 8 or shortform 8 or shortform8).ti,ab.
19.	(sf6 or sf 6 or short form 6 or shortform 6 or shortform6).ti,ab.
20.	or/1-19

Embase search terms

1.	quality adjusted life year/
2.	"quality of life index"/
3.	short form 12/ or short form 20/ or short form 36/ or short form 8/
4.	sickness impact profile/
5.	(quality adj2 (wellbeing or well-being)).ti,ab.
6.	sickness impact profile.ti,ab.
7.	disability adjusted life.ti,ab.
8.	(qal* or qtime* or qwb* or daly*).ti,ab.
9.	(euroqol* or eq5d* or eq 5d*).ti,ab.
10.	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
11.	(health utility* or utility score* or disutilit*).ti,ab.
12.	(hui or hui1 or hui2 or hui3).ti,ab.
13.	health* year* equivalent*.ti,ab.
14.	(hye or hyes).ti,ab.

15.	rosser.ti,ab.
16.	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
17.	(sf36 or sf 36 or short form 36 or shortform 36 or shortform36).ti,ab.
18.	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
19.	(sf12 or sf 12 or short form 12 or shortform 12 or shortform12).ti,ab.
20.	(sf8 or sf 8 or short form 8 or shortform 8 or shortform8).ti,ab.
21.	(sf6 or sf 6 or short form 6 or shortform 6 or shortform6).ti,ab.
22.	or/1-21

A.3.6 Diagnostic test accuracy studies [DIAG]

Medline search terms

1.	exp "sensitivity and specificity"/
2.	(sensitivity or specificity).ti,ab.
3.	((pre test or pretest or post test) adj probability).ti,ab.
4.	(predictive value* or ppv or npv).ti,ab.
5.	likelihood ratio*.ti,ab.
6.	likelihood function/
7.	(roc curve* or auc).ti,ab.
8.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
9.	gold standard.ab.
10.	or/1-9

Embase search terms

1.	exp "sensitivity and specificity"/
2.	(sensitivity or specificity).ti,ab.
3.	((pre test or pretest or post test) adj probability).ti,ab.
4.	(predictive value* or ppv or npv).ti,ab.
5.	likelihood ratio*.ti,ab.
6.	(roc curve* or auc).ti,ab.
7.	(diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
8.	diagnostic accuracy/
9.	diagnostic test accuracy study/
10.	gold standard.ab.
11.	or/1-10

A.3.7 Health economic modelling [MOD]

Medline search terms

1.	exp models, economic/
2.	*models, theoretical/
3.	*models, organizational/
4.	markov chains/
5.	monte carlo method/
6.	exp decision theory/

7.	(markov* or monte carlo).ti,ab.
8.	econom* model*.ti,ab.
9.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
10.	or/1-9

Embase search terms

1.	statistical model/
2.	exp economic aspect/
3.	1 and 2
4.	*theoretical model/
5.	*nonbiological model/
6.	stochastic model/
7.	decision theory/
8.	decision tree/
9.	monte carlo method/
10.	(markov* or monte carlo).ti,ab.
11.	econom* model*.ti,ab.
12.	(decision* adj2 (tree* or analy* or model*)).ti,ab.
13.	or/3-12

A.3.8 Observational studies [OBS]

Medline search terms

1.	epidemiologic studies/
2.	exp case control studies/
3.	exp cohort studies/
4.	cross-sectional studies/
5.	case control.ti,ab.
6.	(cohort adj (study or studies or analys*)).ti,ab.
7.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
8.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
9.	or/1-8

Embase search terms

1.	clinical study/
2.	exp case control study/
3.	family study/
4.	longitudinal study/
5.	retrospective study/
6.	prospective study/
7.	cross-sectional study/
8.	cohort analysis/
9.	follow-up/
10.	cohort*.ti,ab.
11.	9 and 10

12.	case control.ti,ab.
13.	(cohort adj (study or studies or analys*)).ti,ab.
14.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
15.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
16.	or/1-8,11-15

A.4 Searches for specific questions

A.4.1 Prognostic risk tools

Searches for the following two questions were run as one search:

- What is the accuracy of risk tools for identifying people in the community who are at increased risk of developing chronic open angle glaucoma?
- What is the accuracy of risk tools for identifying people with chronic open angle glaucoma who are at increased risk of vision loss?

Medline search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	predict.ti.
5.	(validat* or rule*).ti,ab.
6.	(predict* and (outcome* or risk* or model*)).ti,ab.
7.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
8.	decision*.ti,ab. and logistic models/
9.	(decision* and (model* or clinical*)).ti,ab.
10.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
11.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or auc or calibration or indices or algorithm or multivariable).ti,ab.
12.	roc curve/
13.	or/4-12
14.	epidemiologic studies/
15.	observational study/
16.	exp cohort studies/
17.	(cohort adj (study or studies or analys* or data)).ti,ab.
18.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
19.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
20.	controlled before-after studies/
21.	historically controlled study/
22.	interrupted time series analysis/

23.	(before adj2 after adj2 (study or studies or data)).ti,ab.
24.	or/14-23
25.	3 and (13 or 24)
26.	model*.ti,ab.
27.	algorithms/
28.	algorithm*.ti,ab.
29.	tool*.ti,ab.
30.	calculat*.ti,ab.
31.	or/26-30
32.	25 and 31
33.	OHTS-EGPS.ti,ab.
34.	Ocular Hypertension Treatment Study-European Glaucoma Prevention Study.ti,ab.
35.	means prediction model.ti,ab.
36.	means plus asymmetry.ti,ab.
37.	worse eye model.ti,ab.
38.	or/33-37
39.	38 not 2
40.	32 or 39
41.	(glaucom* adj5 (risk* adj3 (score* or stratif* or assess* or calculat* or engine* or equation* or algorithm* or chart* or table* or predict* or function*))).ti,ab.
42.	(glaucom* adj5 ((decision or predict* or assess* or screen* or score* or scoring or stratif* or prognos* or logistic*) adj3 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or model*))).ti,ab.
43.	43 or 44
44.	43 not 2
45.	40 or 44
46.	Limit 45 to English language
	Date parameters: 1946 – 24 January 2017

Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	clinical study/
5.	observational study/
6.	family study/
7.	longitudinal study/
8.	retrospective study/
9.	prospective study/
10.	cohort analysis/
11.	follow-up/
12.	cohort*.ti,ab.
13.	11 and 12
14.	(cohort adj (study or studies or analys*)).ti,ab.

15.	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
16.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
17.	(before adj2 after adj2 (study or studies or data)).ti,ab.
18.	or/4-10,13-17
19.	predict.ti.
20.	(validat* or rule*).ti,ab.
21.	(predict* and (outcome* or risk* or model*)).ti,ab.
22.	((history or variable* or criteria or scor* or characteristic* or finding* or factor*) and (predict* or model* or decision* or identif* or prognos*)).ti,ab.
23.	decision*.ti,ab. and statistical model/
24.	(decision* and (model* or clinical*)).ti,ab.
25.	(prognostic and (history or variable* or criteria or scor* or characteristic* or finding* or factor* or model*)).ti,ab.
26.	(stratification or discrimination or discriminate or c statistic or "area under the curve" or auc or calibration or indices or algorithm or multivariable).ti,ab.
27.	receiver operating characteristic/
28.	or/19-27
29.	3 and (18 or 28)
30.	model*.ti,ab.
31.	exp algorithm/
32.	algorithm*.ti,ab.
33.	tool*.ti,ab.
34.	calculat*.ti,ab.
35.	or/30-34
36.	29 and 35
37.	OHTS-EGPS.ti,ab.
38.	Ocular Hypertension Treatment Study-European Glaucoma Prevention Study.ti,ab.
39.	means prediction model.ti,ab.
40.	means plus asymmetryl.ti,ab.
41.	worse eye model.ti,ab.
42.	or/37-41
43.	43 not 2
44.	36 or 43
45.	(glaucom* adj5 (risk* adj3 (score* or stratif* or assess* or calculat* or engine* or equation* or algorithm* or chart* or table* or predict* or function*))).ti,ab.
46.	(glaucom* adj5 ((decision or predict* or assess* or screen* or score* or scoring or stratif* or prognos* or logistic*) adj3 (tool* or rule* or instrument*1 or index* or test* or technique* or analys* or model*))).ti,ab.
47.	47 or 48
48.	47 not 2
49.	44 or 48
50.	Limit 49 to English language
	Date parameters: 1946 – 24 January 2017

A.4.2 Diagnostic accuracy

Searches for the following three questions were run as one search:

- What is the accuracy of tests for measuring IOP and monitoring changes in IOP, including repeat measures?
- What is the accuracy of structural tests for identifying and monitoring progression of glaucoma damage (damage of optic nerve head, macula and retinal nerve fibre layer)?
- What is the accuracy of tests for identifying closed or occludable anterior chamber angle?

Medline search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	diagnostic techniques, ophthalmological/ or corneal pachymetry/ or gonioscopy/ or scanning laser polarimetry/ or slit lamp/ or tonometry, ocular/
6.	exp tomography, optical/
7.	(tonog* or tonom*).ti,ab.
8.	slit lamp*.ti,ab.
9.	((heidelberg or retina* or optical) adj2 tomog*).ti,ab.
10.	exp ophthalmoscopy/
11.	scanning laser.ti,ab.
12.	monoscopic photo*.ti,ab.
13.	gonioscop*.ti,ab.
14.	((iris eclipse or shadow or van herick*) adj2 (test* or assess*)).ti,ab.
15.	schiempflug*.ti,ab.
16.	(ultrasound or ultra sound).ti,ab.
17.	b-scan.ti,ab.
18.	pachymet*.ti,ab.
19.	(cornea* adj3 thick* adj2 (measure* or record*)).ti,ab.
20.	ocular response analy*.ti,ab.
21.	tono pen*.ti,ab.
22.	((direct or indirect) adj1 ophthalmosc*).ti,ab.
23.	(stereoscopic adj2 photo*).ti,ab.
24.	confocal microscop*.ti,ab.
25.	anterior chamber depth.ti,ab.
26.	optic disk imag*.ti,ab.
27.	optic disk assess*.ti,ab.
28.	optic nerve fib* analy*.ti,ab.
29.	or/5-28
30.	4 and 29
31.	Study filters RCT [A.3.2] or DIAG [A.3.6]
32.	30 and 31 - Date parameters: 1946 - 24 January 2017
33.	Study filter OBS [A.3.8]
34.	30 and 33 - Date parameters: 2008 - 24 January 2017

35.	32 or 34
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Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	visual system examination/
6.	gonioscopy/ or ophthalmoscopy/ or exp pachymetry/ or scanning laser ophthalmoscopy/ or scanning laser polarimetry/
7.	slit lamp/
8.	oculoplethysmography/
9.	eye photography/
10.	optical tomography/
11.	exp optical coherence tomography/
12.	(tonog* or tonom*).ti,ab.
13.	slit lamp*.ti,ab.
14.	((heidelberg or retina* or optical) adj2 tomog*).ti,ab.
15.	scanning laser.ti,ab.
16.	monoscopic photo*.ti,ab.
17.	gonioscop*.ti,ab.
18.	((iris eclipse or shadow or van herick*) adj2 (test* or assess*)).ti,ab.
19.	Schiempflug*.ti,ab.
20.	(ultrasound or ultra sound).ti,ab.
21.	b-scan.ti,ab.
22.	pachymet*.ti,ab.
23.	(cornea* adj3 thick* adj2 (measure* or record*)).ti,ab.
24.	ocular response analy*.ti,ab.
25.	tono pen*.ti,ab.
26.	((direct or indirect) adj1 ophthalmosc*).ti,ab.
27.	(stereoscopic adj2 photo*).ti,ab.
28.	confocal microscop*.ti,ab.
29.	anterior chamber depth.ti,ab.
30.	optic disk imag*.ti,ab.
31.	optic disk assess*.ti,ab.
32.	optic nerve fib* analy*.ti,ab.
33.	or/5-32
34.	4 and 33
35.	Study filters RCT [A.3.2] or DIAG [A.3.6]
36.	34 and 35 - Date parameters: 1974 - 24 January 2017
37.	Study filter OBS [A.3.8]
38.	34 and 37 - Date parameters: 2008 - 24 January 2017
39.	36 or 38

Cochrane search terms

#1.	Standard population [A.2.1]
#2.	[mh ^"diagnostic techniques, ophthalmological"]
#3.	[mh ^"corneal pachymetry"]
#4.	[mh ^gonioscopy]
#5.	[mh ^"scanning laser polarimetry"]
#6.	[mh ^"slit lamp"]
#7.	[mh ^"tonometry, ocular"]
#8.	[mh "tomography, optical"]
#9.	[mh ophthalmoscopy]
#10.	((heidelberg or retina* or optical) near/2 tomog*):ti,ab
#11.	scanning laser:ti,ab
#12.	(tonog* or tonom*):ti,ab
#13.	slit next lamp*:ti,ab
#14.	monoscopic next photo*:ti,ab
#15.	gonioscop*:ti,ab
#16.	((("iris eclipse" or shadow or van herick*) near/2 (test* or assess*)):ti,ab
#17.	schiempflug*:ti,ab
#18.	(ultrasound or "ultra sound"):ti,ab
#19.	b-scan:ti,ab
#20.	pachymet*:ti,ab
#21.	(cornea* near/3 thick* near/2 (measure* or record*)):ti,ab
#22.	tono pen:ti,ab
#23.	((direct or indirect) near/1 ophthalmosc*):ti,ab
#24.	(stereoscopic near/2 photo*):ti,ab
#25.	confocal next microscop*:ti,ab
#26.	anterior next chamber next depth:ti,ab
#27.	optic next disk next imag*:ti,ab
#28.	ocular next response next analy*:ti,ab
#29.	optic next disk next assess*:ti,ab
#30.	optic next nerve next fib* next analy*:ti,ab
#31.	{or #2-#30}
#32.	#1 and #31
	Date parameters: Inception - 24 January 2017

A.4.3 Monitoring intervals

Searches for the following two questions were run as one search:

- What are the optimum intervals for monitoring people with chronic open angle glaucoma?
- What are the optimum intervals for monitoring people with ocular hypertension, suspected chronic open angle glaucoma or both?

Medline search terms

1.	Search strategy A.4.2 lines 1-30
2.	Study filters RCT [A.3.2] or DIAG [A.3.6]
3.	1 and 2

	Date parameters: 2008 - 24 January 2017
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Embase search terms

1.	Search strategy A.4.2 lines 1-34
2.	Study filters RCT [A.3.2] or DIAG [A.3.6]
3.	1 and 2
	Date parameters: 2008 - 24 January 2017

Cochrane search terms

#1.	Search strategy A.4.2 lines 1-32
	Date parameters: 2008 - 24 January 2017

A.4.4 Treatment

- Which are the most clinically and cost effective and least harmful pharmacological treatments for people with OHT, suspected chronic open angle glaucoma and confirmed chronic open angle glaucoma?

Medline search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filters RCT [A.3.2] or SR [A.3.3]
6.	4 and 5
	Date parameters: 2008 – 24 th January 2017

Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filters RCT [A.3.2] or SR [A.3.3]
6.	4 and 5
	Date parameters: 2008 - 24 th January 2017

Cochrane search terms

#1.	Standard population [A.2.1]
	Date parameters: 2008 - 24 th January 2017

A.4.5 Service provision

- What is the clinical and cost-effectiveness of performing different tests or combinations of tests (including repeat measures of individual tests) for identifying people who require onward referral from first contact primary care to confirming diagnosis?

Medline search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]

3.	1 not 2
4.	Limit 3 to English language
5.	diagnostic techniques, ophthalmological/ or corneal pachymetry/ or gonioscopy/ or scanning laser polarimetry/ or slit lamp/ or tonometry, ocular/
6.	slit lamp*.ti,ab.
7.	((heidelberg or retina* or optical) adj2 tomog*).ti,ab.
8.	exp ophthalmoscopy/
9.	scanning laser.ti,ab.
10.	monoscopic photo*.ti,ab.
11.	gonioscop*.ti,ab.
12.	((iris eclipse or shadow or van herick*) adj2 (test* or assess*)).ti,ab.
13.	exp tomography, optical/
14.	(tonog* or tonom*).ti,ab.
15.	schiempflug*.ti,ab.
16.	(ultrasound or ultra sound).ti,ab.
17.	b-scan.ti,ab.
18.	pachymet*.ti,ab.
19.	(cornea* adj3 thick* adj2 (measure* or record*)).ti,ab.
20.	ocular response analy*.ti,ab.
21.	tono pen*.ti,ab.
22.	((direct or indirect) adj1 ophthalmosc*).ti,ab.
23.	(stereoscopic adj2 photo*).ti,ab.
24.	confocal microscop*.ti,ab.
25.	anterior chamber depth.ti,ab.
26.	optic disk imag*.ti,ab.
27.	optic disk assess*.ti,ab.
28.	optic nerve fib* analy*.ti,ab.
29.	visual field tests/
30.	(perimetr* or campimetr*).ti,ab.
31.	(frequency doubling technology or fdt).ti,ab.
32.	(visual field test* or vision field test* or visual field exam* or vision field exam*).ti,ab.
33.	(sita or humphrey or swedish interactive testing algorithm or henson).ti,ab.
34.	or/5-33
35.	Study filters RCT [A.3.2] or SR [A.3.3]
36.	epidemiologic studies/
37.	observational study/
38.	exp cohort studies/
39.	(cohort adj (study or studies or analys* or data)).ti,ab.
40.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
41.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
42.	controlled before-after studies/
43.	historically controlled study/

44.	interrupted time series analysis/
45.	(before adj2 after adj2 (study or studies or data)).ti,ab.
46.	or/36-45
47.	exp case control study/
48.	case control*.ti,ab.
49.	or/47-48
50.	cross-sectional studies/
51.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
52.	or/50-51
53.	35 or 46 or 49 or 52
54.	4 and 34 and 53
	Date parameters: 1946 - 24 th January 2017

Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	visual system examination/
6.	gonioscopy/ or ophthalmoscopy/ or exp pachymetry/ or scanning laser ophthalmoscopy/ or scanning laser polarimetry/
7.	slit lamp/
8.	oculoplethysmography/
9.	eye photography/
10.	optical tomography/
11.	exp optical coherence tomography/
12.	(tonog* or tonom*).ti,ab.
13.	slit lamp*.ti,ab.
14.	((heidelberg or retina* or optical) adj2 tomog*).ti,ab.
15.	scanning laser.ti,ab.
16.	monoscopic photo*.ti,ab.
17.	gonioscop*.ti,ab.
18.	((iris eclipse or shadow or van herick*) adj2 (test* or assess*)).ti,ab.
19.	schierpflug*.ti,ab.
20.	(ultrasound or ultra sound).ti,ab.
21.	b-scan.ti,ab.
22.	pachymet*.ti,ab.
23.	(cornea* adj3 thick* adj2 (measure* or record*)).ti,ab.
24.	ocular response analy*.ti,ab.
25.	tono pen*.ti,ab.
26.	((direct or indirect) adj1 ophthalmosc*).ti,ab.
27.	(stereoscopic adj2 photo*).ti,ab.
28.	confocal microscop*.ti,ab.
29.	anterior chamber depth.ti,ab.

30.	optic disk imag*.ti,ab.
31.	optic disk assess*.ti,ab.
32.	optic nerve fib* analy*.ti,ab.
33.	perimetry/
34.	perimetr*and campimetr*.ti,ab.
35.	(frequency doubling technology or fdt).ti,ab.
36.	(visual field test* or vision field test* or visual field exam* or vision field exam*).ti,ab.
37.	(sita or humphrey or swedish interactive testing algorithm or henson).ti,ab.
38.	or/5-37
39.	Study filters RCT [A.3.2] or SR [A.3.3]
40.	clinical study/
41.	observational study/
42.	family study/
43.	longitudinal study/
44.	retrospective study/
45.	prospective study/
46.	cohort analysis/
47.	follow-up/
48.	cohort*.ti,ab.
49.	47 and 48
50.	(cohort adj (study or studies or analys* or data)).ti,ab.
51.	((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab.
52.	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort* or data)).ti,ab.
53.	(before adj2 after adj2 (study or studies or data)).ti,ab.
54.	or/40-46,49-53
55.	exp case control study/
56.	case control*.ti,ab.
57.	or/55-56
58.	cross-sectional study/
59.	(cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab.
60.	or/58-59
61.	39 or 54 or 57 or 60
62.	4 and 38 and 61
	Date parameters: 1946 - 24th January 2017

Cochrane search terms

#1.	MeSH descriptor: [ocular hypertension] explode all trees
#2.	MeSH descriptor: [ocular hypotension] explode all trees
#3.	MeSH descriptor: [low tension glaucoma] explode all trees
#4.	glaucom*:ti,ab,kw
#5.	(ocular next (hypertension or hypotension)):ti,ab
#6.	{or #1-#5}
#7.	[mh ^"diagnostic techniques, ophthalmological"]

#8.	[mh ^"corneal pachymetry"]
#9.	[mh ^gonioscopy]
#10.	[mh ^"scanning laser polarimetry"]
#11.	[mh ^"slit lamp"]
#12.	[mh ^"tonometry, ocular"]
#13.	[mh "tomography, optical"]
#14.	[mh Ophthalmoscopy]
#15.	((heidelberg or retina* or optical) near/2 tomog*):ti,ab
#16.	scanning laser:ti,ab
#17.	(tonog* or tonom*):ti,ab
#18.	slit next lamp*:ti,ab
#19.	monoscopic next photo*:ti,ab
#20.	gonioscop*:ti,ab
#21.	((("iris eclipse" or shadow or van herick*) near/2 (test* or assess*)):ti,ab
#22.	Schiempflug*:ti,ab
#23.	(ultrasound or "ultra sound"):ti,ab
#24.	b-scan:ti,ab
#25.	pachymet*:ti,ab
#26.	(cornea* near/3 thick* near/2 (measure* or record*)):ti,ab
#27.	tono pen:ti,ab
#28.	((direct or indirect) near/1 ophthalmosc*):ti,ab
#29.	(stereoscopic near/2 photo*):ti,ab
#30.	confocal next microscop*:ti,ab
#31.	anterior next chamber next depth:ti,ab
#32.	optic next disk next imag*:ti,ab
#33.	ocular next response next analy*:ti,ab
#34.	optic next disk next assess*:ti,ab
#35.	optic next nerve next fib* next analy*:ti,ab
#36.	MeSH descriptor: [visual field tests] explode all trees
#37.	(perimetr* or campimetr*):ti,ab
#38.	((frequency next doubling next technology) or fdt):ti,ab
#39.	((visual or vision) near/2 (test* or exam*)):ti,ab
#40.	(sita or humphrey or henson):ti,ab
#41.	swedish interactive testing algorithm:ti,ab
#42.	{or #6-#41}
#43.	#5 and #42
	Date parameters: Inception - 24 January 2017

A.5 Health economics search terms

A.5.1 Health economic (HE) reviews

Economic searches were conducted in Medline, Embase and the Cochrane library

Medline & Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filter HE [A.3.4]
6.	4 and 5
	Date parameters: 2000-2007 and 2014 - 23 January 2017

Cochrane search terms (NHS EED and HTA)

#1.	Standard population [A.2.1]
	Date parameters: 2000 - 23 January 2017

A.5.2 Quality of life (QoL) reviews

Quality of life searches were conducted in Medline and Embase only

Medline & Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filter QOL [A.3.5]
6.	4 and 5
	Date parameters: 2008– 23 January 2017

A.5.3 Economic modelling (MOD)

Economic modelling searches were conducted in Medline and Embase

Medline & Embase search terms

1.	Standard population [A.2.1]
2.	Excluded study designs and publication types [A.3.1]
3.	1 not 2
4.	Limit 3 to English language
5.	Study filter MOD [A.3.7]
6.	4 and 5
	Date parameters: 2008– 23 January 2017