

### Clinical searches

Databases	Date searched	Version/files	No. retrieved
<a href="#">Cochrane Central Register of Controlled Trials (CENTRAL)</a>	27 <sup>th</sup> Sept 2019	Issue 9 of 12, September 2019	263
<a href="#">Cochrane Database of Systematic Reviews (CDSR)</a>	27 <sup>th</sup> Sept 2019	Issue 9 of 12, September 2019	0
<a href="#">Database of Abstracts of Reviews of Effect (DARE)</a>	27 <sup>th</sup> Sept 2019	Up to 2015	4

<a href="#">Embase (Ovid)</a>	27 <sup>th</sup> Sept 2019	Embase <1974 to 2019 Week 38>	2199
<a href="#">MEDLINE (Ovid)</a>	27 <sup>th</sup> Sept 2019	Ovid MEDLINE(R) <1946 to September 25, 2019>	1,753
<a href="#">MEDLINE In-Process (Ovid)</a>	27 <sup>th</sup> Sept 2019	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <1946 to September 25, 2019>	145
<a href="#">MEDLINE Epub Ahead of Print<sup>c</sup></a>	27 <sup>th</sup> Sept 2019	Ovid MEDLINE(R) Epub Ahead of Print <September 25, 2019>	24

The following search filters were applied in MEDLINE and Embase to identify RCTs and systematic reviews:

- RCT filters:
  - [McMaster Therapy – Medline - “best balance of sensitivity and specificity” version.](#)  
 Haynes RB et al. (2005) [Optimal search strategies for retrieving scientifically strong studies of treatment from Medline: analytical survey.](#) *BMJ*, 330, 1179-1183.
  - [McMaster Therapy – Embase “best balance of sensitivity and specificity” version.](#)  
 Wong SSL et al. (2006) [Developing optimal search strategies for detecting clinically sound treatment studies in EMBASE.](#) *Journal of the Medical Library Association*, 94(1), 41-47.
- Systematic reviews filters:
  - Lee, E. et al. (2012) [An optimal search filter for retrieving systematic reviews and meta-analyses.](#) *BMC Medical Research Methodology*, 12(1), 51.

In MEDLINE, the standard NICE modifications were used: pubmed.tw added; systematic review.pt added from MeSH update 2019.

In Embase, the standard NICE modifications were used: pubmed.tw added to line medline.tw.

<b>Search strategies</b>
Database: Ovid MEDLINE(R) <1946 to September 25, 2019>
Search Strategy: -----

<sup>c</sup> Please search for both development and re-run searches

- 1 exp Kidney Diseases/ (497391)
- 2 exp Kidney Function Tests/ (76828)
- 3 exp Kidney/ (343115)
- 4 (renal\* or kidney\* or ckd\*).tw. (761085)
- 5 or/1-4 (1017739)
- 6 Cystatin C/ (3831)
- 7 cystatin\*.tw. (6866)
- 8 6 or 7 (7238)
- 9 Glomerular Filtration Rate/ (42224)
- 10 (glomerul\* or GFR\* or eGFR\* or e-GFR\*).tw. (153913)
- 11 9 or 10 (167119)
- 12 5 and 8 and 11 (2668)
- 13 (MEDLINE or pubmed).tw. (146077)
- 14 systematic review.tw. (105059)
- 15 systematic review.pt. (112263)
- 16 meta-analysis.pt. (104847)
- 17 intervention\$.ti. (115118)
- 18 or/13-17 (345036)
- 19 randomized controlled trial.pt. (489804)
- 20 randomi?ed.mp. (757539)
- 21 placebo.mp. (187874)
- 22 or/19-21 (807948)
- 23 exp "Sensitivity and Specificity"/ (561765)
- 24 (sensitivity or specificity).tw. (868249)
- 25 ((pre-test or pretest or post-test) adj probability).tw. (2161)
- 26 (predictive value\* or PPV or NPV).tw. (95689)
- 27 likelihood\*.tw. (113908)
- 28 exp likelihood functions/ (21380)
- 29 (ROC curve\* or AUC).tw. (70620)
- 30 (diagnos\* adj2 (performance\* or accurac\* or utilit\* or value\* or valid\* or efficien\* or effectiveness)).tw. (92754)

- 31 (reference or gold standard).tw. (379541)
- 32 (sensitiv: or diagnos:).mp. or di.fs. (5523763)
- 33 validation studies/ (96716)
- 34 validation studies as topic/ (2065)
- 35 or/23-34 (6166632)
- 36 Cross sectional.tw. (260423)
- 37 Cross-sectional studies/ (304354)
- 38 36 or 37 (374957)
- 39 18 or 22 or 35 or 38 (7152846)
- 40 12 and 39 (1912)
- 41 limit 40 to english language (1784)
- 42 animals/ not humans/ (4586194)
- 43 41 not 42 (1753)

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <1946 to September 25, 2019>

Search Strategy:

- 
- 1 exp Kidney Diseases/ (0)
  - 2 exp Kidney Function Tests/ (0)
  - 3 exp Kidney/ (0)
  - 4 (renal\* or kidney\* or ckd\*).tw. (64254)
  - 5 or/1-4 (64254)
  - 6 Cystatin C/ (0)
  - 7 cystatin\*.tw. (775)
  - 8 6 or 7 (775)
  - 9 Glomerular Filtration Rate/ (0)
  - 10 (glomerul\* or GFR\* or eGFR\* or e-GFR\*).tw. (15219)
  - 11 9 or 10 (15219)
  - 12 5 and 8 and 11 (288)
  - 13 (MEDLINE or pubmed).tw. (31025)

- 14 systematic review.tw. (25571)
- 15 systematic review.pt. (401)
- 16 meta-analysis.pt. (36)
- 17 intervention\$.ti. (18977)
- 18 or/13-17 (60048)
- 19 randomized controlled trial.pt. (276)
- 20 randomi?ed.mp. (67506)
- 21 placebo.mp. (16469)
- 22 or/19-21 (73359)
- 23 exp "Sensitivity and Specificity"/ (0)
- 24 (sensitivity or specificity).tw. (104550)
- 25 ((pre-test or pretest or post-test) adj probability).tw. (243)
- 26 (predictive value\* or PPV or NPV).tw. (11406)
- 27 likelihood\*.tw. (16994)
- 28 exp likelihood functions/ (0)
- 29 (ROC curve\* or AUC).tw. (10885)
- 30 (diagnos\* adj2 (performance\* or accurac\* or utilit\* or value\* or valid\* or efficien\* or effectiveness)).tw. (11989)
- 31 (reference or gold standard).tw. (61575)
- 32 (sensitiv: or diagnos:).mp. or di.fs. (387294)
- 33 validation studies/ (0)
- 34 validation studies as topic/ (0)
- 35 or/23-34 (468019)
- 36 Cross sectional.tw. (53118)
- 37 Cross-sectional studies/ (0)
- 38 36 or 37 (53118)
- 39 18 or 22 or 35 or 38 (603730)
- 40 12 and 39 (146)
- 41 limit 40 to english language (145)
- 42 animals/ not humans/ (0)
- 43 41 not 42 (145)

Database: Ovid MEDLINE(R) Epub Ahead of Print <September 25, 2019>

Search Strategy:

- 
- 1 exp Kidney Diseases/ (0)
  - 2 exp Kidney Function Tests/ (0)
  - 3 exp Kidney/ (0)
  - 4 (renal\* or kidney\* or ckd\*).tw. (9792)
  - 5 or/1-4 (9792)
  - 6 Cystatin C/ (0)
  - 7 cystatin\*.tw. (117)
  - 8 6 or 7 (117)
  - 9 Glomerular Filtration Rate/ (0)
  - 10 (glomerul\* or GFR\* or eGFR\* or e-GFR\*).tw. (2354)
  - 11 9 or 10 (2354)
  - 12 5 and 8 and 11 (46)
  - 13 (MEDLINE or pubmed).tw. (6532)
  - 14 systematic review.tw. (6137)
  - 15 systematic review.pt. (24)
  - 16 meta-analysis.pt. (13)
  - 17 intervention\$.ti. (3820)
  - 18 or/13-17 (12802)
  - 19 randomized controlled trial.pt. (1)
  - 20 randomi?ed.mp. (12712)
  - 21 placebo.mp. (3060)
  - 22 or/19-21 (13785)
  - 23 exp "Sensitivity and Specificity"/ (0)
  - 24 (sensitivity or specificity).tw. (14024)
  - 25 ((pre-test or pretest or post-test) adj probability).tw. (41)
  - 26 (predictive value\* or PPV or NPV).tw. (2107)
  - 27 likelihood\*.tw. (3706)

- 28 exp likelihood functions/ (0)
- 29 (ROC curve\* or AUC).tw. (2319)
- 30 (diagnos\* adj2 (performance\* or accurac\* or utilit\* or value\* or valid\* or efficien\* or effectiveness)).tw. (2337)
- 31 (reference or gold standard).tw. (7633)
- 32 (sensitiv: or diagnos:).mp. or di.fs. (53029)
- 33 validation studies/ (0)
- 34 validation studies as topic/ (0)
- 35 or/23-34 (64669)
- 36 Cross sectional.tw. (8415)
- 37 Cross-sectional studies/ (0)
- 38 36 or 37 (8415)
- 39 18 or 22 or 35 or 38 (89662)
- 40 12 and 39 (25)
- 41 limit 40 to english language (24)
- 42 animals/ not humans/ (0)
- 43 41 not 42 (24)

Database: Embase <1974 to 2019 Week 38>

Search Strategy:

- 
- 1 exp kidney disease/ (872924)
  - 2 exp kidney function/ (183502)
  - 3 kidney function test/ (11181)
  - 4 exp kidney function test kit/ (7)
  - 5 exp kidney/ (381785)
  - 6 (kidney\* or renal or ckd).tw. (1102681)
  - 7 or/1-6 (1496749)
  - 8 cystatin C/ (11138)
  - 9 cystatin\*.tw. (11437)
  - 10 8 or 9 (14083)

- 11 exp glomerulus filtration rate/ (94500)
- 12 (glomerul\* or GFR\* or eGFR\* or e-GFR\*).tw. (256511)
- 13 11 or 12 (284375)
- 14 7 and 10 and 13 (5651)
- 15 (MEDLINE or pubmed).tw. (233306)
- 16 exp systematic review/ or systematic review.tw. (265213)
- 17 meta-analysis/ (172003)
- 18 intervention\$.ti. (186280)
- 19 or/15-18 (600864)
- 20 random:.tw. (1460784)
- 21 placebo:.mp. (442607)
- 22 double-blind:.tw. (203247)
- 23 or/20-22 (1711800)
- 24 "sensitivity and specificity"/ (337998)
- 25 (sensitivity or specificity).tw. (1243966)
- 26 ((pre-test or pretest or post-test) adj probability).tw. (4231)
- 27 (predictive value\* or PPV or NPV).tw. (166819)
- 28 likelihood\*.tw. (176665)
- 29 (ROC curve\* or AUC).tw. (143373)
- 30 (diagnos\* adj2 (performance\* or accurac\* or utilit\* or value\* or valid\* or efficien\* or effectiveness)).tw. (151844)
- 31 (reference or gold standard).tw. (583275)
- 32 (sensitiv: or diagnos:).mp. or di.fs. (7496339)
- 33 diagnostic accuracy/ (243580)
- 34 diagnostic test accuracy study/ (112675)
- 35 validation study/ (79767)
- 36 or/24-35 (8327840)
- 37 (cross sectional adj (study or studies)).tw. (197988)
- 38 cross-sectional study/ (318267)
- 39 37 or 38 (360931)
- 40 19 or 23 or 36 or 39 (10141696)



41	14 and 40 (3483)
42	limit 41 to english language (3295)
43	nonhuman/ not human/ (4488204)
44	42 not 43 (3225)
45	limit 44 to (conference abstract or conference paper or "conference review" or letter) (1026)
46	44 not 45 (2199)
Cochrane Library	
ID	Search Hits
#1	MeSH descriptor: [Kidney Diseases] explode all trees 14667
#2	MeSH descriptor: [Kidney Function Tests] explode all trees 4009
#3	MeSH descriptor: [Kidney] explode all trees 3824
#4	(renal* or kidney* or ckd*):ti,ab,kw 74049
#5	#1 or #2 or #3 or #4 75637
#6	MeSH descriptor: [Cystatin C] this term only 164
#7	(cystatin*):ti,ab,kw 1018
#8	#6 or #7 1018
#9	MeSH descriptor: [Glomerular Filtration Rate] this term only 2571
#10	(glomerul* or GFR* or eGFR* or e-GFR*):ti,ab,kw 17293
#11	#9 or #10 17293
#12	#5 and #8 and #11 501
#13	"conference":pt or (clinicaltrials or trialsearch):so 424276
#14	#12 not #13 263 (Central only)
CRD databases	
1	MeSH DESCRIPTOR Kidney Diseases EXPLODE ALL TREES 1433 Delete
2	MeSH DESCRIPTOR Kidney Function Tests EXPLODE ALL TREES 141 Delete
3	MeSH DESCRIPTOR Kidney EXPLODE ALL TREES 176 Delete
4	(renal* or kidney* or ckd*) 3317 Delete

5	(#1 or #2 or #3 or #4)	3447	Delete
6	MeSH DESCRIPTOR Cystatin C	8	Delete
7	(cystatin*)	12	Delete
8	#6 OR #7	12	Delete
9	MeSH DESCRIPTOR Glomerular Filtration Rate	92	Delete
10	(glomerul* or GFR* or eGFR* or e-GFR*)	416	Delete
11	(#9 or #10)	416	Delete
12	(#5 and #8 and #11)	6	Delete