

Appendix B Search strategy

Summary: Run dates: 4/2/20, 4/10/20, 7/17/20, 10/22/20, 4/26,28/21, 9/29/21; post-extraction review 2/13/23 Librarian: Holly Ann Burt		
OVERALL	Total items identified by database searches	1968
SEARCH RESULTS	Items located by handsearching trials, databases, and references	65
	Total trials identified in searches	30
	Total duplicates identified (across KQs, by HAB, in Endnote, in Covidence)	1322
	Total unique items screened	681
	Final Review	Total articles identified by database searches (Post extraction)
	Total articles after removal of duplicates	42
Additional search terms to those listed below: Languages: English, Studies: No limit		
Database searched (Coverage)		
Systematic Reviews Cochrane Library/ Cochrane (2009-2022)	Clinical Trials Clinicaltrials.gov/NLM (2000-2022)	Medicine CINAHL/EBSCO (1937-2022) Embase/Elsevier (1947-2022) PubMed/NLM (1809/1966-2022)
Databases hand-searched for articles published by the trials retrieved by Clinicaltrials.gov and Cochrane: ICTRP (International Clinical Trials Registry Platform)/WHO, Clinicaltrials.gov, PubMed, and Google Scholar.		

Pediatrics

1. Laparoscopic peritoneal dialysis in children			
Run Date: 4/2/20	Concept A	Concept B	Concept C
Based on 2010 search			
MESH terms	Peritoneal dialysis	Catheters, indwelling	
Text words	Peritoneal Dialysis	Catheters Indwelling	
Additional terms: Species: Humans / Ages: Birth to 18 yr / Publication years: 2013 to 2020			
Database:	Final equivalent search strategies		Results
PubMed 2010 search	(catheters, indwelling) AND peritoneal dialysis Filters: Publication date from 2013/01/01 to 2020/12/31; Humans; English; Child: birth-18 years		---
PubMed translated	("catheters, indwelling"[MeSH Terms] OR ("catheters"[All Fields] AND "indwelling"[All Fields]) OR "indwelling catheters"[All Fields] OR ("catheters"[All Fields] AND "indwelling"[All Fields]) OR "catheters, indwelling"[All Fields]) AND ("peritoneal dialysis"[MeSH Terms] OR ("peritoneal"[All Fields] AND "dialysis"[All Fields]) OR "peritoneal dialysis"[All Fields]) AND (("2013/01/01"[PDAT] : "2020/12/31"[PDAT]) AND "humans"[MeSH Terms] AND English[lang] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))		56
EMBASE	('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('indwelling catheters'/exp OR 'indwelling catheters') AND [english]/lim AND [2013-2020]/py AND [humans]/lim AND ([newborn]/lim OR [infant]/lim OR [child]/lim OR [preschool]/lim OR [school]/lim OR [adolescent]/lim)		14

Cochrane	(([mh "Peritoneal Dialysis"] OR (Peritoneal Dialysis):ti,ab,kw) AND ("indwelling catheter"):ti,ab,kw OR [mh "catheters, indwelling"]) AND (child):ti,ab,kw OR [mh child] OR (adolescent):ti,ab,kw [mh adolescent]) - with Publication Year from 2013 to 2020, with Cochrane Library publication date from Jan 2013 to Dec 2020, in Trials	1
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ClinicalTrials.gov	catheter Peritoneal Dialysis Child	6
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Run Date: 7/17/20: see Adult search. Hand searched pediatric items were added to Covidence

Run Date: 10/22/20	Concept A	Concept B	Concept C
MESH terms	Peritoneal dialysis	Catheters Catheterization	Hernia Reoperation Second-look surgery Laparoscopy
Text words	Peritoneal Dialysis	Catheter* [all terms starting with catheter]	Hernia Reoperation Revision Laparoscopy Laparoscopic

Additional terms: Species: Not Animals / Ages: 0-18; Infant, child, adolescent / Publication years: 2005 to 2012

Database	Search strategies	Results
PubMed	((("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR "Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw]) AND (infant[mh] OR child[mh] OR children[tw] OR child*[title] OR infant[title] OR infants[title] OR pediatric [tiab] OR Adolescent[mh])) NOT ("1900/01/01"[PDAT] : "2004/12/31"[PDAT]) OR ("2013/01/01"[PDAT] : "2020/12/31"[PDAT]) OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab])	39
EMBASE	((('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('catheter'/exp OR catheter OR 'catheterization'/exp OR catheterization) AND ('laparoscopy'/exp OR laparoscopy OR 'hernia'/exp OR hernia OR 'reoperation'/exp OR reoperation OR 'second look surgery'/exp OR 'second look surgery' OR 'revision'/exp OR revision) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study') AND (2005:py OR 2006:py OR 2007:py OR 2008:py OR 2009:py OR 2010:py OR 2011:py OR 2012:py) AND ([child]/lim OR [embryo]/lim OR [fetus]/lim OR [infant]/lim OR [newborn]/lim OR [preschool]/lim OR [school]/lim)) NOT ([conference abstract]/lim OR [animals]/lim)	30
Cochrane	((Peritoneal Dialysis):ti,ab,kw OR [mh "Peritoneal Dialysis"]) AND (catheterization):ti,ab,kw OR (catheter):ti,ab,kw OR (catheters):ti,ab,kw OR [mh "Catheters"]) AND ([mh "Hernia"] OR (hernia):ti,ab,kw OR [mh "Laparoscopy"] OR (Laparoscopy):ti,ab,kw OR (Laparoscopic):ti,ab,kw OR [mh "reoperation"] OR (reoperation):ti,ab,kw OR (reoperations):ti,ab,kw OR (revision):ti,ab,kw OR [mh "Second-look Surgery"]) with Publication Year from 2005 to 2012, with Cochrane Library publication date from Jan 2005 to Dec 2012, in Trials – Hand searched not adult	4

Run Date: 4/26/21

Database:	Search strategies	Results
PubMed	ABOVE NOT (("1900/01/01"[PDAT] : "2020/03/31"[PDAT]))	5
Run Date: 9/29/21		
Database:	Search strategies	Results
PubMed	((("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR "Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw]) AND (infant[mh] OR child[mh] OR child*[tiab] OR infant*[tiab] OR pediatric [tiab] OR Adolescent[mh])) NOT (("1900/01/01"[PDAT] : "2004/12/31"[PDAT]) OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab]))	79
EMBASE	((('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('catheter'/exp OR catheter OR 'catheterization'/exp OR catheterization) AND ('laparoscopy'/exp OR laparoscopy OR 'hernia'/exp OR hernia OR 'reoperation'/exp OR reoperation OR 'second look surgery'/exp OR 'second look surgery' OR 'revision'/exp OR revision) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study') AND ([child]/lim OR [embryo]/lim OR [fetus]/lim OR [infant]/lim OR [newborn]/lim OR [preschool]/lim OR [school]/lim) AND [2005-2021]/py) NOT ([conference abstract]/lim OR [animals]/lim)	83
Q1 SEARCH RESULTS	Total items identified by database searches	319
	Additional items located by handsearching	10
	Total trials identified in searches	8
	Total duplicates found	154
	Total items screened	167
Post extraction Review – Run date: 2/13/23		
PubMed	((("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR "Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw]) AND (infant[mh] OR child[mh] OR child*[tiab] OR infant*[tiab] OR pediatric [tiab] OR Adolescent[mh]) AND ("2021/09/01"[CRDT]: "2023/12/31"[CRDT])) NOT (("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab]))	3

Adults

2. Laparoscopic peritoneal dialysis in adults			
Run Date: 4/2/20 Based on 2010 search	Concept A	Concept B	Concept C
MESH terms	Peritoneal dialysis	Laparoscopy	Catheters Catheterization

Textwords	Peritoneal dialysis	Laparoscopy	Catheter OR Catheters Catheterisation Catheterization
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Additional terms: Species: Humans / Ages: 19 yr + / Publication years: 2013 to 2020

Database	Search strategies	Results
PubMed 2010 original	Search ((peritoneal dialysis) AND laparoscopy) AND ((catheters) OR catheterization) Filters: Publication date from 2013/01/01 to 2020/12/31; Humans; English; Adult: 19+ years	-----
PubMed translated	((("peritoneal dialysis"[MeSH Terms] OR ("peritoneal"[All Fields] AND "dialysis"[All Fields]) OR "peritoneal dialysis"[All Fields]) AND ("laparoscopy"[MeSH Terms] OR "laparoscopy"[All Fields])) AND (("catheters"[MeSH Terms] OR "catheters"[All Fields]) OR ("catheterisation"[All Fields] OR "catheterization"[MeSH Terms] OR "catheterization"[All Fields])) AND (("2013/01/01"[PDAT] : "2020/12/31"[PDAT]) AND "humans"[MeSH Terms] AND English[lang] AND "adult"[MeSH Terms])	56
EMBASE	('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('laparoscopy'/exp OR 'laparoscopy') AND ('catheterization'/exp OR 'catheterization' OR 'catheter'/exp OR 'catheter') AND [english]/lim AND [2013-2020]/py AND [humans]/lim AND ([young adult]/lim OR [adult]/lim OR [middle aged]/lim OR [aged]/lim OR [very elderly]/lim)	121
Cochrane	(([mh "Peritoneal Dialysis"] OR (Peritoneal Dialysis):ti,ab,kw) AND ((Laparoscopy):ti,ab,kw OR [mh Laparoscopy]) AND ((catheter):ti,ab,kw OR [mh Catheters] OR (catheterization):ti,ab,kw OR [mh Catheterization]) - with Publication Year from 2013 to 2020, with Cochrane Library publication date from Jan 2013 to Dec 2020, in Trials	5
ClinicalTrials.gov	laparoscopy Peritoneal Dialysis Adult, Older Adult	4

Run Date: 4/10/20	Concept A	Concept B	Concept C
MESH terms	Peritoneal dialysis	Catheters Catheterization	Reoperation Second-look surgery Laparoscopy
Text words	Peritoneal Dialysis	Catheter* [all terms starting with catheter]	Reoperation Revision Laparoscopy Laparoscopic

Additional terms: Species: NOT animals / Ages: ALL / Publication years: 2012 to 2020

Database	Search strategies	Results
PubMed	("Reoperation"[Mesh] OR "Second-Look Surgery"[Mesh] OR reoperation [TW] OR revision [TW] OR laparoscopy[MeSH Terms] OR laparoscop*[TW]) AND ("Catheters"[Mesh] OR "Catheterization"[Mesh] OR Catheter* [tw]) AND (peritoneal dialysis[MeSH Terms] OR "peritoneal dialysis"[TW]) AND English[lang] AND ("2012/01/01"[PDat] : "2019/12/31"[PDat]) NOT "animals"[MeSH:noexp]	166
PubMed	("Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [TW] OR revision [TW] OR laparoscopy[mh] OR laparoscop*[TW]) AND ("Catheters"[mh] OR "Catheterization"[mh] OR Catheter* [tw]) AND (peritoneal dialysis[mh] OR "peritoneal dialysis"[TW]) AND English[lang] AND ("2012/01/01"[PDat] : "2019/12/31"[PDat]) NOT "animals"[MeSH:noexp]	147

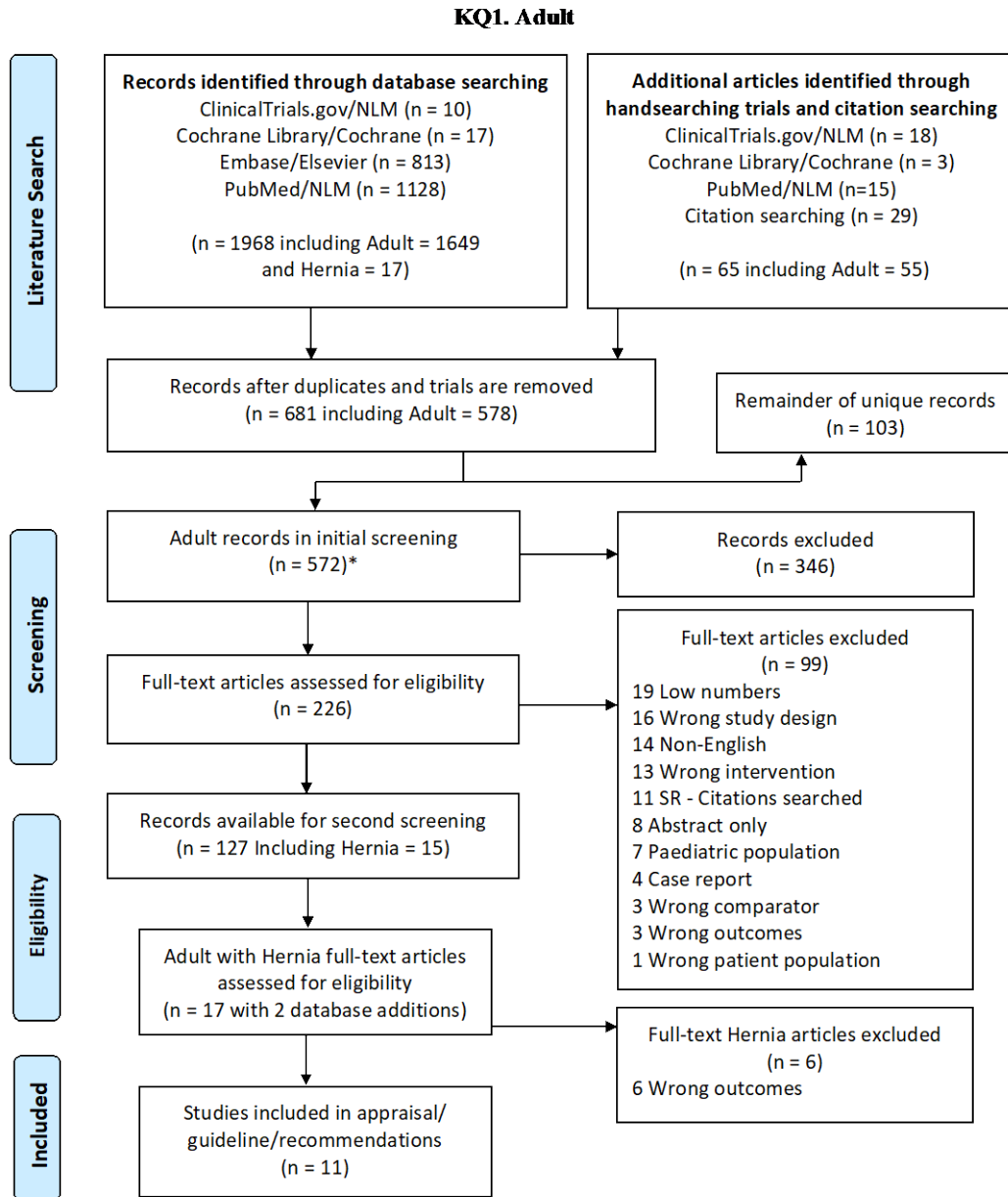
Run Date: 7/17/20	Concept A	Concept B	Concept C
MESH terms	Peritoneal dialysis	Catheters	Hernia

		Catheterization	
Text words	Peritoneal Dialysis	Catheter* [all terms starting with catheter]	Hernia
Additional terms: Ages: ALL / Publication years: 2013 to 2020			
Database:	Search strategies		Results
PubMed	((Hernia[mh] OR Hernia[TW]) AND (Catheters[mh] OR Catheterization[mh] OR Catheter* [tw]) AND ("peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw])) NOT (("1900/01/01"[PDAT] : "2012/12/31"[PDAT]) OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab])		57
Run Date: 10/11/20			
Database:	Final equivalent search strategies		Results
PubMed	(("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR "Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw])) NOT (("1900/01/01"[PDAT] : "2004/12/31"[PDAT]) OR ("2013/01/01"[PDAT] : "2020/12/31"[PDAT]) OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab] OR ((infant[mh] OR child[mh]) NOT adult[mh]) OR children[tiab] OR child[tiab] OR infant[tiab] OR infants[tiab] OR (pediatric [tiab] NOT adults[tiab]))		152
EMBASE	(('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('catheter'/exp OR catheter OR 'catheterization'/exp OR catheterization) AND ('laparoscopy'/exp OR laparoscopy OR 'hernia'/exp OR hernia OR 'reoperation'/exp OR reoperation OR 'second look surgery'/exp OR 'second look surgery' OR 'revision'/exp OR revision) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study') AND (2005:py OR 2006:py OR 2007:py OR 2008:py OR 2009:py OR 2010:py OR 2011:py OR 2012:py)) NOT ([conference abstract]/lim OR [animals]/lim OR [child]/lim OR [embryo]/lim OR [fetus]/lim OR [infant]/lim OR [newborn]/lim OR [preschool]/lim OR [school]/lim)		157
Cochrane	((Peritoneal Dialysis):ti,ab,kw OR [mh "Peritoneal Dialysis"]) AND ((catheterization):ti,ab,kw OR (catheter):ti,ab,kw OR (catheters):ti,ab,kw OR [mh "Catheters"]) AND ([mh "Hernia"] OR (hernia):ti,ab,kw OR [mh "Laparoscopy"] OR (Laparoscopy):ti,ab,kw OR (Laparoscopic):ti,ab,kw OR [mh "reoperation"] OR (reoperation);ti,ab,kw OR (reoperations);ti,ab,kw OR (revision);ti,ab,kw OR [mh "Second-look Surgery"]) with Publication Year from 2005 to 2012, with Cochrane Library publication date from Jan 2005 to Dec 2012, in Trials		7
Run Date: 4/28/21			
Database:	Final equivalent search strategies		Results
PubMed	ABOVE - NOT (("1900/01/01"[PDAT] : "2020/03/31"[PDAT]))		19
Run Date: 9/29/21			
Database:	Final equivalent search strategies		Results
PubMed	(("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR		350

	"Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw])) NOT (("1900/01/01"[PDAT] : "2004/12/31"[PDAT]) OR ("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab] OR ((infant[mh] OR child[mh]) NOT adult[mh]) OR children[title] OR child[title] OR infant[title] OR infants[title] OR (pediatric [tiab] NOT adults[tiab]))	
EMBASE	((('peritoneal dialysis'/exp OR 'peritoneal dialysis') AND ('catheter'/exp OR catheter OR 'catheterization'/exp OR catheterization) AND ('laparoscopy'/exp OR laparoscopy OR 'hernia'/exp OR hernia OR 'reoperation'/exp OR reoperation OR 'second look surgery'/exp OR 'second look surgery' OR 'revision'/exp OR revision) AND ('practice guideline'/exp OR 'practice guideline' OR [cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [clinical study]/lim OR 'case report'/exp OR 'case report' OR 'case study'/exp OR 'case study') AND [2005-2021]/py) NOT ([conference abstract]/lim OR [animals]/lim OR [child]/lim OR [embryo]/lim OR [fetus]/lim OR [infant]/lim OR [newborn]/lim OR [preschool]/lim OR [school]/lim)	408
ADULT SEARCH RESULTS	Total items identified by database searches	1649
	Additional items located by handsearching	55
	Total trials identified in searches	22
	Total duplicates found	1104
	Total items screened	578
Post extraction Review – Run date: 2/13/23, dates: 2021-2020		
PubMed	((("Peritoneal dialysis"[mh] OR ("peritoneal"[tw] AND "dialysis"[tw]) OR "peritoneal dialysis"[tw]) AND (Catheters[mh] OR Catheterization[mh] OR catheter* [tw]) AND (Hernia[mh] OR hernia[tw] OR "Reoperation"[mh] OR "Second-Look Surgery"[mh] OR reoperation [tw] OR revision [tw] OR Laparoscopy[mh] OR laparoscop*[tw]) AND ("2021/09/01"[CRDT]: "2023/12/31"[CRDT])) NOT (("animals"[MH:noexp] NOT "humans"[MH]) OR rat[tiab] OR rats[tiab] OR dog[tiab] OR dogs[tiab] OR porcine[tiab] OR ((infant[mh] OR child[mh]) NOT adult[mh]) OR children[title] OR child[title] OR infant[title] OR infants[title] OR (pediatric [tiab] NOT adults[tiab]))	41

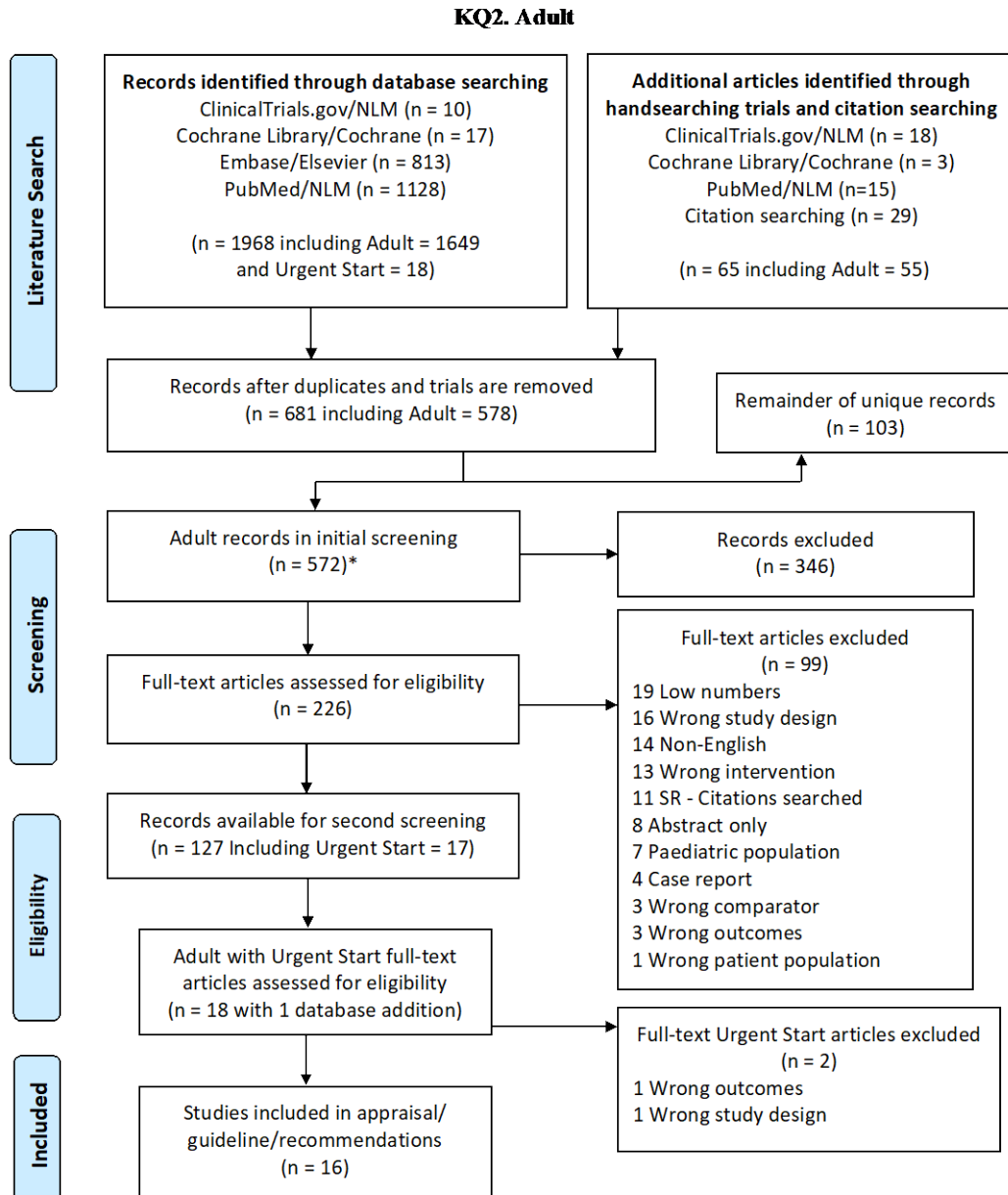
Appendix C Preferred Reporting Items for Systematic Reviews and Meta-Analyses Diagrams

KQ1. Adult



*Six items were added during the second screening (572+6=578)

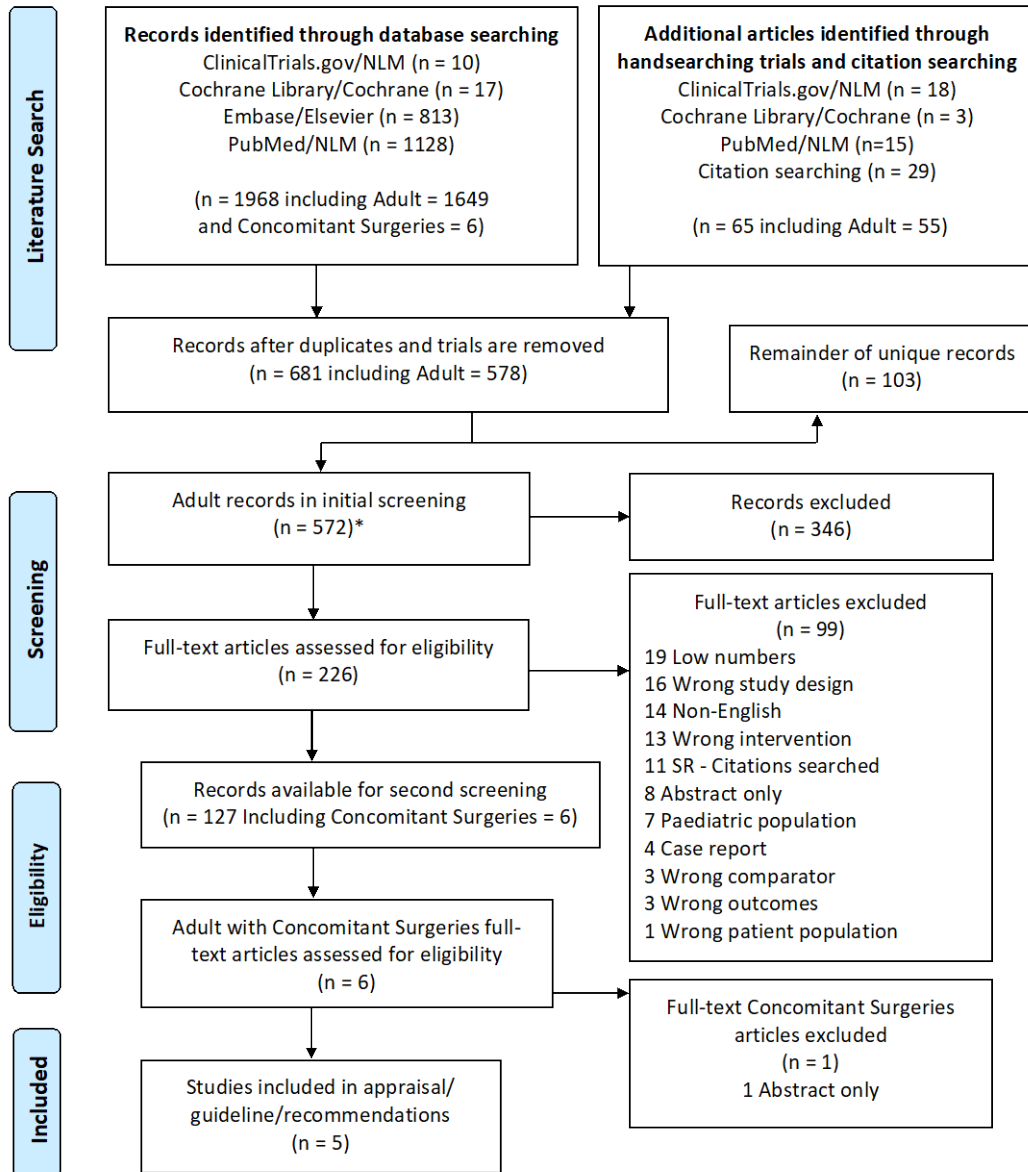
KQ2. Adult



*Six items were added during the second screening (572+6=578)

KQ3. Adult

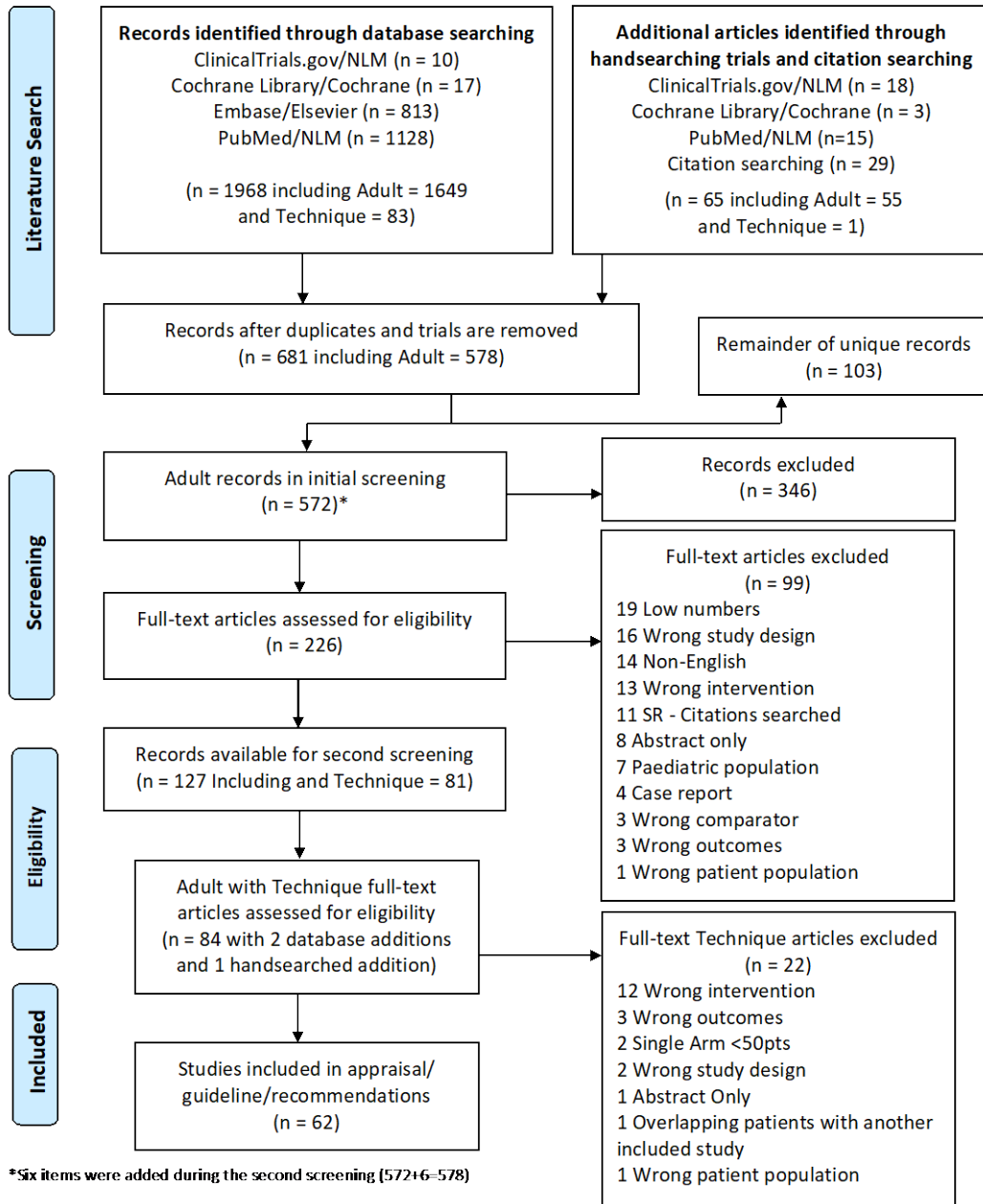
KQ3. Adult



*Six items were added during the second screening (572+6=578)

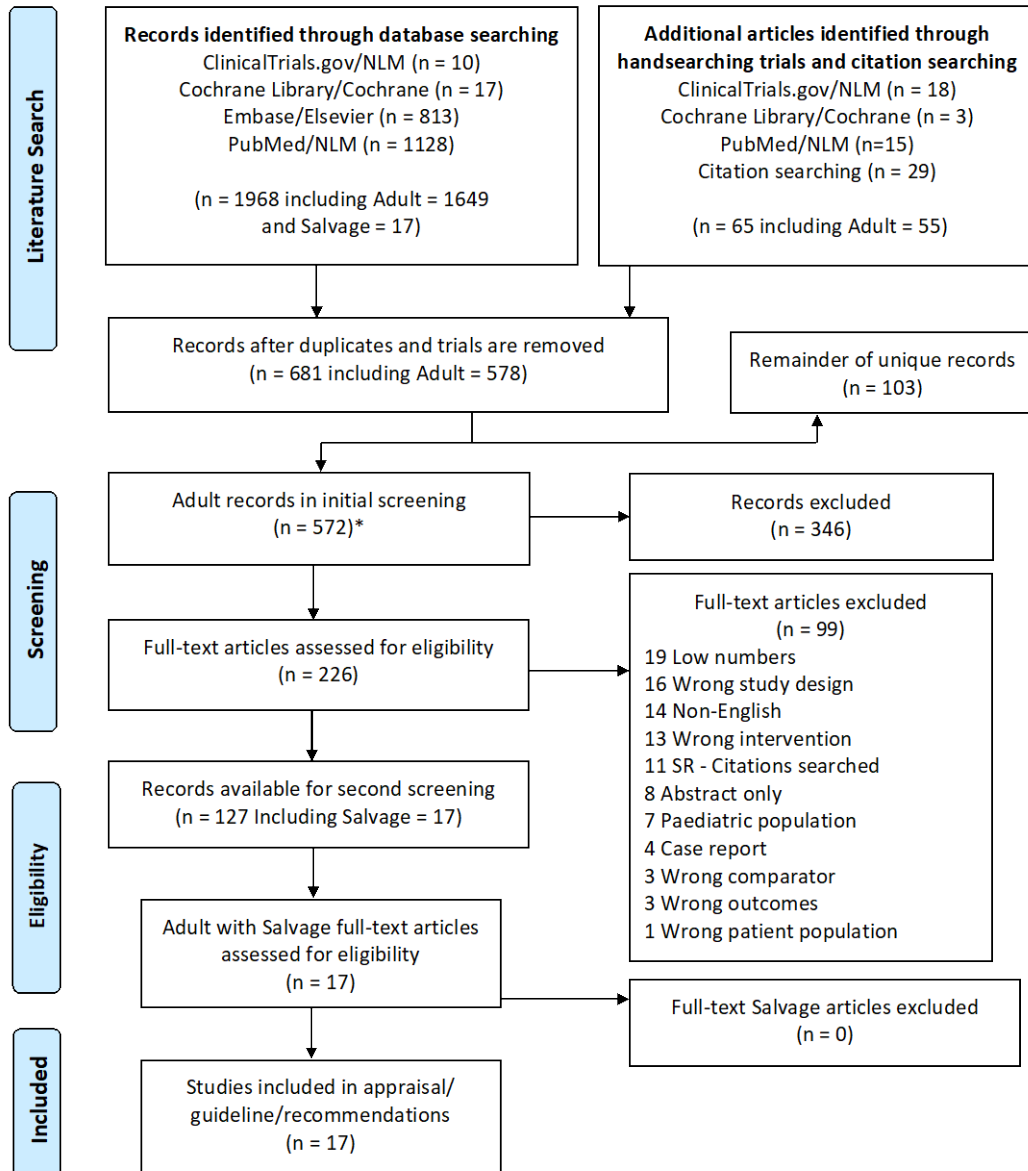
KQ4. KQ5. & KQ6. Adult\

KQ4. KQ5. & KQ6. Adult



KQ7. Adult

KQ7. Adult



*Six items were added during the second screening (572+6=578)

All Pediatrics KQs

