

Appendix 1 – Search strategies

Cost-Effectiveness Analysis Registry

Search for Methods

1	Procurement	17
2	Procuring	2
3	Procure	17
4	Procured	1
5	Purchasing	28
6	Purchase	38
7	Purchased	6
8	Hospital HTA	0
9	Hospitals HTA	0
10	Hospitals Health Technology Assessment	0
11	Hospital Health Technology Assessment	0
12	Total	103

EconLit via ProQuest

S1	ti(Hospital OR Hospitals OR Hospice OR Hospices) OR ab(Hospital OR Hospitals OR Hospice OR Hospices)	6700
S2	ti(Device OR Devices OR Equipment OR Supply OR Supplies) OR ab(Device OR Devices OR Equipment OR Supply OR Supplies)	64074
S3	ti(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA or miniHTAs OR (Technolog* N/1 Appais*) OR (Technolog* N/1 Assess*) OR (Technolog* N/1 Evaluat*)) OR ab(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA or miniHTAs OR (Technolog* N/1 Appais*) OR (Technolog* N/1 Assess*) OR (Technolog* N/1 Evaluat*))	23950
S4	(ti(Hospital OR Hospitals OR Hospice OR Hospices) OR ab(Hospital OR Hospitals OR Hospice OR Hospices)) AND (ti(Device OR Devices OR Equipment OR Supply OR Supplies) OR ab(Device OR Devices OR Equipment OR Supply OR Supplies)) AND (ti(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA OR	40

<p>miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*) OR ab(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA OR miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*))</p>	
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Embase via Ovid SP <1974 to 2020 Week 32>

- 1 exp *Health Care Facility/ or exp *Hospital/ or *Hospice/ or *Hospital Department/ or exp *"Hospital Subdivisions and Components"/ or exp *Hospital Equipment/ or *Hospital Purchasing/ or (Hospital or Hospitals or Hospice*).ti,ab. (1993371)
- 2 exp *Medical Device/ or exp *Hospital Equipment/ or *Dental Technology/ or exp *Medical Technology/ or *Surgical Technology/ or (Device* or Equipment* or Supply or Supplies).ti,ab. (1662432)
- 3 *Hospital Purchasing/ or exp *Purchasing/ or *Biomedical Technology Assessment/ or (Procur* or Purchas* or HTA or HTAs or miniHTA or miniHTAs or (Technolog* adj1 (Appais* or Assess* or Evaluat*))).ti,ab. (83007)
- 4 1 and 2 and 3 (4837)
- 5 limit 4 to (conference abstracts or embase) (2582)

Google Scholar

allintitle: hospital|hospitals|hospice|hospices
 device|devices|equipment|supply|suplies|technology|technologies
 procurement|procure|procuring|procured|purchasing|purchase|purchased|HTA|"Technol
 ogy Assessment"|minihta

340

Google

allintitle: hospital|hospitals|hospice|hospices
 device|devices|equipment|supply|suplies|technology|technologies
 procurement|procure|procuring|procured|purchasing|purchase|purchased|HTA|"Technol
 ogy Assessment"|minihta

91

HMIC Health Management Information Consortium via Ovid SP <1979 to July 2020>

- 1 exp Hospitals/ or exp Hospital Departments/ or Hospices/ or exp Hospital Supplies/ or exp Hospital Equipment/ or (Hospital or Hospitals or Hospice*).ti,ab. (57617)
- 2 Equipment/ or Supplies/ or Health Service Equipment/ or Health Service Supplies/ or exp Hospital Supplies/ or exp Hospital Equipment/ or Medical Equipment/ or Medical Supplies/ or Ambulance Equipment/ or Ventilation Equipment/ or exp Surgical Equipment/ or exp Medical Instruments/ or Health Technology/ or exp Medical Technology/ or (Device* or Equipment* or Supply or Supplies).ti,ab. (14344)
- 3 Procurement/ or Purchasing/ or Baby Buying/ or Bulk Purchasing/ or Central Purchasing/ or Contract Purchasing/ or Joint Purchasing/ or Locality Purchasing/ or Total Purchasing/ or Purchasing Plans/ or Total Purchasing Projects/ or Purchasing Policies/ or exp Purchasing Officers/ or Purchasing Intelligence/ or Health Technology Assessment/ or (Procur* or Purchas* or HTA or HTAs or miniHTA or miniHTAs or (Technolog* adj1 (Appais* or Assess* or Evaluat*))).ti,ab. (9457)
- 4 1 and 2 and 3 (283)

IEEE Xplore digital library

Hospital*	AND	Device*	AND	Procur*	0
			AND	Purchas*	0
			AND	HTA*	0
			AND	miniHTA*	0
			AND	"Technology Assessment"	1
	AND	Equipment	AND	Procur*	1
			AND	Purchas*	0
			AND	HTA*	0
			AND	miniHTA*	0
			AND	"Technology Assessment"	0
	AND	Supply	AND	Procur*	0
			AND	Purchas*	0
			AND	HTA*	0
			AND	miniHTA*	0
	AND	Supplies	AND	"Technology Assessment"	0
			AND	Procur*	0
			AND	Purchas*	0
			AND	HTA*	0
			AND	miniHTA*	0
			AND	"Technology Assessment"	0
	AND	Technolog*	AND	Procur*	1
			AND	Purchas*	0
			AND	HTA*	0
			AND	miniHTA*	0
			AND	"Technology Assessment"	3

INAHTA HTA database

("Health Facilities"[mh] OR "Hospitals"[mhe] OR "Hospital Departments"[mhe] OR "Equipment and Supplies, Hospital"[mhe] OR "Purchasing, Hospital"[mhe] OR (Hospital* OR Hospice*)[Title] OR (Hospital* OR Hospice*)[abs]) AND ("Equipment and Supplies"[mh] OR "Equipment and Supplies, Hospital"[mhe] OR "Biomedical Technology"[mhe] OR (Device* OR Equipment* OR Supply OR Supplies)[Title] OR (Device* OR Equipment* OR Supply OR Supplies)[abs]) AND ("Purchasing, Hospital"[mhe] OR "Value-Based Purchasing"[mh] OR "Technology Assessment, Biomedical"[mhe] OR (Procur* OR Purchas* OR HTA* OR miniHTA* OR "Technology Assessment")[Title] OR (Procur* OR Purchas* OR HTA* OR miniHTA* OR "Technology Assessment")[abs]) 43

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to August 12, 2020>

1 *Health Facilities/ or exp *Hospitals/ or exp *Hospital Departments/ or exp *"Equipment and Supplies, Hospital"/ or exp *Purchasing, Hospital/ or (Hospital or Hospitals or Hospice*).ti,ab. (1281022)

2 *"Equipment and Supplies"/ or exp *"Equipment and Supplies, Hospital"/ or exp *Biomedical Technology/ or (Device* or Equipment* or Supply or Supplies).ti,ab. (674647)

3 exp *Purchasing, Hospital/ or *Value-Based Purchasing/ or exp *Technology Assessment, Biomedical/ or (Procur* or Purchas* or HTA or HTAs or miniHTA or miniHTAs or (Technolog* adj1 (Appais* or Assess* or Evaluat*))).ti,ab. (60766)

4 1 and 2 and 3 (2677)

NHS EED and HTA via CRD

Any Field Device* OR Equipment* OR Supply OR Supplies AND

Any Field Hospital* OR Hospice* AND

Any Field Purchas* OR Procur* OR "Technology Assessment" OR HTA*

In NHS EED and HTA

381

Open Access Theses and Dissertations

title:(procurement OR procure OR procuring OR procured OR purchase OR purchasing OR purchased OR hta OR "health technology assessment") AND title:(hospital OR hospitals OR hospice OR hospices) AND title:(device OR devices OR equipment OR supply OR supplies)

5 results

ProQuest Dissertations & Theses A&I

Set#	Searched for	Results
S1	ti(Hospital OR Hospitals OR Hospice OR Hospices) OR ab(Hospital OR Hospitals OR Hospice OR Hospices)	50088
S2	ti(Device OR Devices OR Equipment OR Supply OR Supplies) OR ab(Device OR Devices OR Equipment OR Supply OR Supplies)	247605
S3	ti(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA or miniHTAs OR (Technolog* N/1 Appais*) OR (Technolog* N/1 Assess*) OR (Technolog* N/1 Evaluat*)) OR ab(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA or miniHTAs OR (Technolog* N/1 Appais*) OR (Technolog* N/1 Assess*) OR (Technolog* N/1 Evaluat*))	32069
S4	(ti(Hospital OR Hospitals OR Hospice OR Hospices) OR ab(Hospital OR Hospitals OR Hospice OR Hospices)) AND (ti(Device OR Devices OR Equipment OR Supply OR Supplies) OR ab(Device OR Devices OR Equipment OR Supply OR Supplies)) AND (ti(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA OR miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*)) OR ab(Procure OR Procurement OR Procuring OR Procured OR Purchase OR Purchasing OR Purchased OR HTA OR HTAs OR miniHTA OR miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*)))	153

Scopus

#4 #1 AND #2 AND #3 2,014

#3 (TITLE (procur* OR purchas* OR hta OR htas OR minihta OR minihtas OR (technolog* PRE/1 appais*) OR (technolog* PRE/1 assess*) OR (technolog* PRE/1 evaluat*)) OR ABS (procur* OR purchas* OR hta OR htas OR minihta OR minihtas OR (technolog* PRE/1 appais*) OR (technolog* PRE/1 assess*) OR (technolog* PRE/1 evaluat*))) 231,105

#2 (TITLE (device* OR equipment* OR supply OR supplies) OR ABS (device* OR equipment* OR supply OR supplies)) 3,225,577

#1 (TITLE (hospital OR hospitals OR hospice OR hospices) OR ABS (hospital OR hospitals OR hospice OR hospices)) 1,449,788

Web of Science databases

- Science Citation Index Expanded (SCI-EXPANDED) --1900-present
- Conference Proceedings Citation Index- Science (CPCI-S) --1990-present
- Emerging Sources Citation Index (ESCI) --2015-present

(TI=(Hospital OR Hospitals OR Hospice OR Hospices) OR AB=(Hospital OR Hospitals OR Hospice OR Hospices)) AND (TI=(Device* OR Equipment* OR Supply OR Supplies) OR AB=(Device* OR Equipment* OR Supply OR Supplies)) AND (TI=(Procur* OR Purchas* OR HTA OR HTAs OR miniHTA OR miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*)) OR AB=(Procur* OR Purchas* OR HTA OR HTAs OR miniHTA OR miniHTAs OR (Technolog* NEAR/1 Appais*) OR (Technolog* NEAR/1 Assess*) OR (Technolog* NEAR/1 Evaluat*))

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=All years 804

Zetoc Conference Search

Search	Hits	Search terms
1	1	tip:Procure Hospital
2	0	tip:Procured Hospital
3	5	tip:Procurement Hospital
4	0	tip:Procuring Hospital
5	0	tip:Procure Hospitals
6	0	tip:Procured Hospitals
7	2	tip:Procurement Hospitals
8	0	tip:Procuring Hospitals
9	1	tip:Purchase Hospital
10	0	tip:Purchased Hospital
11	3	tip:Purchasing Hospital
12	0	tip:Purchase Hospitals
13	0	tip:Purchased Hospitals
14	3	tip:Purchasing Hospitals
15	2	tip:Health Technology Assessment Hospital
16	3	tip:HTA Hospital
17	0	tip:Health Technology Assessment Hospitals
18	0	tip:HTA Hospitals
Total	20	

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Note: We note that during the review process for the original manuscript, a typing error was discovered in the above search protocol. The term “appais*” was incorrect and should have been written as “apprais*”. In response to the reviewer, we ran a test search in MEDLINE to see if the correction retrieved any relevant papers. Fortunately, there was no change to the number of results. The test run is publicly available at <https://osf.io/gtxn8/files/>.