



Registered Nurses' Association of Ontario Pain: Prevention, assessment and management Fourth Edition February 2025

Systematic review search strategy

Two systematic reviews of recent literature were conducted to inform the recommendations included in this Best Practice Guideline (BPG). The search strategies were developed by RNAO's BPG team and a health science librarian. An original search was conducted in March 2023 for Recommendation questions 2 and 3 to capture literature from January 2017 to March 2023, and June 2023 for Recommendation question 1 to capture literature from January 2017 to June 2023. An update search was conducted in August 2024 to capture literature from March 2023 (Q2 and Q3) and June 2023 (Q1) to August 2024. An additional search strategy was developed to inform the scoping review included in the BPG. The scoping review captured literature from January 2017 to January 2023.

In addition, panel members were asked to review personal libraries to identify key articles not found through the search strategies. Articles identified by panel members were included in the search results if two guideline development methodologists independently determined the articles had not been identified by the literature search and met the inclusion criteria.

<u>Databases Searched</u>: Medline, Embase, Emcare, Cochrane Central, Cochrane Database of Systematic Reviews, PsycInfo and Cumulative Index to Nursing and Allied Health (CINAHL).

Inclusion Criteria:

The following criteria were used to guide the systematic reviews:

- A primary focus on the following interventions for health service organizations, academic institutions, health providers and/or students, and the prioritized outcomes per topic:
- Recommendation question #1:
 - Intervention Health-service organizations' interprofessional approach to pain management
 - Outcomes Effective management of pain, interprofessional team functioning, communication or collaboration, pain interventions delivered by health providers, health provider completion of pain assessment, person or family satisfaction
 - Recommendation question #2:
 - o Intervention Student education on pain assessment, prevention and management
 - Outcomes Student competence/knowledge, student completion of pain assessment, pain interventions delivered by students, student confidence/attitude
 - Recommendation question #3:
 - o **Intervention** Health provider education on integrative pain assessment, prevention and management (non-pharm and/or pharm approaches)
 - Outcomes Health provider competence/knowledge, pain interventions delivered by health providers, health provider completion of pain assessment, health provider confidence/attitude, health provider satisfaction





- A focus on prevention, assessment and management of pain
- Published after January 2017
- Published in English
- Accessible for retrieval
- Conducted in any geographic region
- Applicable to all health service organizations and academic institutions
- Applicable to all health providers and students
- Peer-reviewed literature
- Any study design (quantitative, qualitative, mixed methods, systematic reviews)

Exclusion Criteria:

The following criteria were used to exclude literature from the search:

- Topic **NOT** related to the aforementioned interventions or prioritized outcomes
- Dissertations, commentaries, narratives, discussion papers, case studies, expert reports, consensus documents, studies with no specific methodology
- Studies not published in English
- Unpublished literature (e.g., grey literature)
- Studies published prior to 2017

<u>Original search for recommendation question #1:</u> Should organizational or health system implementation of a specialized interprofessional pain care team be recommended or not?

<u>Databases:</u> Medline, Embase, Emcare, Cochrane Central, Cochrane Database of Systematic Reviews, PsycInfo and Cumulative Index to Nursing and Allied Health (CINAHL).

Dates searched: January 2017 – June 2023

MEDLINE(R) 1946 to June 6, 2023

#	Searches	Results
1	exp Pain/	457168
2	Pain Management/	40698
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	177851
4	or/1-3	549643
5	Patient Care Team/	69426
6	Hospital Rapid Response Team/	1016
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams"	10354





workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health teams" or "multi disciplinary health teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,kf.	
("rapid response team" or "rapid response teams").tw,kf.	1218
("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kf.	15192
or/5-9	89522
4 and 10	2805
("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine teams" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain special* teams" or "pain special* teams" or "pain teams").tw,kf.	366
11 or 12	3104
limit 13 to english language	2418
limit 14 to yr="2017 -Current"	642
	"interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,kf. ("rapid response team" or "rapid response teams").tw,kf. ("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kf. or/5-9 4 and 10 ("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource team" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain special* teams" or "pain teams").tw,kf. 11 or 12 limit 13 to english language

Embase Classic+Embase 1947 to 2023 June 6

#	Searches	Results
1	exp pain/	1715580
	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or	
2	reducing or treats or treating or treatment or treatments) adj5 (pain or pains or	266967
	painful)).tw,kw.	
3	1 or 2	1783018
4	collaborative care team/	2463
5	rapid response team/	3254





6	multidisciplinary team/	25563
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health teams" or "inter disciplinary health teams" or "inter disciplinary health teams" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,kw.	15037
8	("rapid response team" or "rapid response teams").tw,kw.	1886
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kw.	21497
10	or/4-9	66366
11	3 and 10	4627
12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain special* teams" or "pain teams").tw,kw.	842
13	11 or 12	5419
14	limit 13 to english language	5223
15	limit 14 to yr="2017 -Current"	4013
16	limit 15 to (books or chapter or conference abstract or conference paper or "conference review" or editorial or letter or "preprint (unpublished, non-peer reviewed)")	1597
17	15 not 16	2416

Emcare Nursing 1995 to Present Search Strategy:

#	Searches	Results
1	exp pain/	364276





	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or	
2	reducing or treats or treating or treatment or treatments) adj5 (pain or pains or	97514
	painful)).tw,kf.	
3	1 or 2	405337
4	collaborative care team/	305
5	rapid response team/	1097
6	multidisciplinary team/	3524
	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or	
	"inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary	
	workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or	
_	"interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care	7010
7	team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi	7818
	disciplinary health team" or "multi disciplinary health team" or "multi disciplinary health	
	teams" or "multi disciplinary health teams" or "patient care team" or "patient care	
	teams").tw,kf.	
8	("rapid response team" or "rapid response teams").tw,kf.	1016
0	("collaborative health care team" or "collaborative healthcare team" or "collaborative	10000
9	patient care team" or "team work" or teamwork).tw,kf.	10989
10	or/4-9	23303
11	3 and 10	913
	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary	
	pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams"	
	or "pain management collaborat* team" or "pain management collaborat* teams" or "pain	264
12	management team" or "pain management teams" or "pain medicine team" or "pain	
	medicine teams" or "pain multidisciplinary team" or "pain multidisciplinary teams" or	
	"pain multi disciplinary team" or "pain multi disciplinary teams" or "pain resource team"	
	or "pain resource teams" or "pain service team" or "pain service teams" or "pain special*	
	team" or "pain special* teams" or "pain team" or "pain teams").tw,kf.	
	11 or 12	1167
13	11 01 12	1107
13 14	limit 13 to english language	1089
14	limit 13 to english language	1089





17	7 15 not 16	591	

$\textbf{EBM Reviews - Cochrane Central Register of Controlled Trials} \ May \ 2023$

	rch Strategy:	
#	Searches	Results
1	exp Pain/	71087
2	Pain Management/	4946
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	70994
4	or/1-3	116037
5	Patient Care Team/	1999
6	Hospital Rapid Response Team/	21
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health teams" or "patient care teams" or "patient care teams").tw,kw.	773
8	("rapid response team" or "rapid response teams").tw,kw.	88
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kw.	814
10	or/5-9	3497
11	4 and 10	182
12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management team" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team"	88





	or "pain resource teams" or "pain service team" or "pain service teams" or "pain special*	
	team" or "pain special* teams" or "pain team" or "pain teams").tw,kw.	
13	11 or 12	266
14	limit 13 to english language	248
15	limit 14 to yr="2017 -Current"	115

EBM Reviews - Cochrane Database of Systematic Reviews 2005 to May 31, 2023

#	Searches	Results
	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or	
1	reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).mp.	1995
2	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health teams" or "multi disciplinary health teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").mp.	128
3	("rapid response team" or "rapid response teams").mp.	6
4	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).mp.	58
5	or/2-4	181
6	1 and 5	37
7	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management team" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain resource teams" or "pain service teams" or "pain special* teams" or "pain special* teams" or "pain teams").mp.	1





8	6 or 7	38
9	limit 8 to last 6 years	14
10	limit 9 to full systematic reviews	13

APA PsycInfo 1806 to August Week 4 2022 Search Strategy:

#	Searches	Results
1	exp Pain/	66500
2	pain management/	11215
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,id.	29603
4	or/1-3	78042
5	collaboration/	15137
6	interdisciplinary treatment approach/	7953
7	work teams/	6003
8	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,id.	2678
9	("rapid response team" or "rapid response teams").tw,id.	83
10	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,id.	7993
11	or/5-10	36564
12	4 and 11	795
13	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* team" or "pain management collaborat* teams" or "pain management team" or "pain management team" or "pain	153





	medicine teams" or "pain multidisciplinary team" or "pain multidisciplinary teams" or	
	"pain multi disciplinary team" or "pain multi disciplinary teams" or "pain resource team"	
	or "pain resource teams" or "pain service team" or "pain service teams" or "pain special*	
	team" or "pain special* teams" or "pain team" or "pain teams").tw,id.	
14	12 or 13	908
15	limit 14 to english language	859
16	limit 15 to yr="2017 -Current"	221
17	limit 16 to (chapter or dissertation or review-book or review-media or review-software & other)	30
18	limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract")	32
19	16 not (17 or 18)	189

CINAHL

CIN	T		1
#	Query	Limiters/Expanders	Results
		Expanders - Apply equivalent subjects	
S1	(MH "Pain+")	Search modes - Boolean/Phrase	233,731
		Expanders - Apply equivalent subjects	
S2	(MH "Pain Management")	Search modes - Boolean/Phrase	13,647
	TI ((manage* or managing or relief or relieve		
	or relieves or reduce or reduces or reduced or		
	reducing or treats or treating or treatment or		
	treatments) N4 (pain or pains or painful)) OR		
	AB ((manage* or managing or relief or		
	relieve or relieves or reduce or reduces or		
	reduced or reducing or treats or treating or		
	treatment or treatments) N4 (pain or pains or	Expanders - Apply equivalent subjects	
S 3	painful))	Search modes - Boolean/Phrase	85,334
		Expanders - Apply equivalent subjects	
S4	S1 OR S2 OR S3	Search modes - Boolean/Phrase	268,052
	(MH "Rapid Response Team") OR (MH	Expanders - Apply equivalent subjects	
S5	"Multidisciplinary Care Team")	Search modes - Boolean/Phrase	51,168





		Expanders - Apply equivalent subjects	
S 6	(MH "Cooperative Behavior")	Search modes - Boolean/Phrase	9,048
	TI ("health care team" or "health care teams"		
	or "healthcare team" or "healthcare teams" or		
	"inter disciplinary health team" or "inter		
	disciplinary health teams" or "inter		
	disciplinary workforce" or "interdisciplinary		
	health team" or "interdisciplinary health		
	teams" or "interdisciplinary workforce" or		
	"multi disciplinary care team" or "multi		
	disciplinary care team" or "multi disciplinary		
	care teams" or "multi disciplinary care teams"		
	or "multi disciplinary health team" or "multi		
	disciplinary health team" or "multi		
	disciplinary health teams" or "multi		
	disciplinary health teams" or "patient care	Expanders - Apply equivalent subjects	
S7	team" or "patient care teams")	Search modes - Boolean/Phrase	924
	AB ("health care team" or "health care teams"		
	or "healthcare team" or "healthcare teams" or		
	"inter disciplinary health team" or "inter		
	disciplinary health teams" or "inter		
	disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health		
	* •		
	teams" or "interdisciplinary workforce" or		
	"multi disciplinary care team" or "multi		
	disciplinary care team" or "multi disciplinary		
	care teams" or "multi disciplinary care teams"		
	or "multi disciplinary health team" or "multi		
	disciplinary health team" or "multi		
	disciplinary health teams" or "multi		
g.,	disciplinary health teams" or "patient care	Expanders - Apply equivalent subjects	- 101
S 8	team" or "patient care teams")	Search modes - Boolean/Phrase	6,431





	TI ("rapid response team" or "rapid response		
	teams") OR AB ("rapid response team" or	Expanders - Apply equivalent subjects	
S 9	"rapid response teams")	Search modes - Boolean/Phrase	926
	TI ("collaborative health care team" or		
	"collaborative healthcare team" or		
	"collaborative patient care team" or "team		
	work" or teamwork) OR AB ("collaborative		
	health care team" or "collaborative healthcare		
	team" or "collaborative patient care team" or	Expanders - Apply equivalent subjects	
S10	•	Search modes - Boolean/Phrase	10,066
	•		
011	G5 OD G6 OD G7 OD G0 OD G0 OD G10	Expanders - Apply equivalent subjects	72.002
S11	S5 OR S6 OR S7 OR S8 OR S9 OR S10	Search modes - Boolean/Phrase	72,903
		Expanders - Apply equivalent subjects	
S12	S4 AND S11	Search modes - Boolean/Phrase	2,975
	TI ("interdisciplinary pain care" or		
	"interdisciplinary pain treatment" or "inter		
	disciplinary pain care" or "inter disciplinary		
	pain treatment" or "pain care team" or "pain		
	care teams" or "pain management collaborat*		
	team" or "pain management collaborat*		
	teams" or "pain management team" or "pain		
	management teams" or "pain medicine team"		
	or "pain medicine teams" or "pain		
	multidisciplinary team" or "pain		
	multidisciplinary teams" or "pain multi		
	disciplinary team" or "pain multi disciplinary		
	teams" or "pain resource team" or "pain		
	resource teams" or "pain service team" or		
	"pain service teams" or "pain special* team"		
	or "pain special* teams" or "pain team" or	Expanders - Apply equivalent subjects	
S13	"pain teams")	Search modes - Boolean/Phrase	69
	AB ("interdisciplinary pain care" or	Expanders - Apply equivalent subjects	
S14	"interdisciplinary pain treatment" or "inter	Search modes - Boolean/Phrase	197





	disciplinary pain care" or "inter disciplinary		
	pain treatment" or "pain care team" or "pain		
	care teams" or "pain management collaborat*		
	team" or "pain management collaborat*		
	teams" or "pain management team" or "pain		
	management teams" or "pain medicine team"		
	or "pain medicine teams" or "pain		
	multidisciplinary team" or "pain		
	multidisciplinary teams" or "pain multi		
	disciplinary team" or "pain multi disciplinary		
	teams" or "pain resource team" or "pain		
	resource teams" or "pain service team" or		
	"pain service teams" or "pain special* team"		
	or "pain special* teams" or "pain team" or		
	"pain teams")		
		Expanders - Apply equivalent subjects	
S15	S12 OR S13 OR S14	Search modes - Boolean/Phrase	3,142
		Limiters - Published Date: 20170101-	
		20231231; English Language; Peer	
		Reviewed	
		Expanders - Apply equivalent subjects	
S16	S12 OR S13 OR S14	Search modes - Boolean/Phrase	950

<u>Update search for recommendation question #1:</u> Should organizational or health system implementation of a specialized interprofessional pain care team be recommended or not?

<u>Databases Searched</u>: Medline, Embase, Emcare, Cochrane Central, Cochrane Database of Systematic Reviews, PsycInfo and Cumulative Index to Nursing and Allied Health (CINAHL).

Dates searched: June 2023 – July 2024

MEDLINE(R) 1946 to July 31, 2024

#	Searches	Results
1	exp Pain/	478410
2	Pain Management/	42709





3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	193019
4	or/1-3	579294
5	Patient Care Team/	70404
6	Hospital Rapid Response Team/	1065
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health teams" or "inter disciplinary health teams" or "inter disciplinary health teams" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health teams" or "patient care teams").tw,kf.	11428
8	("rapid response team" or "rapid response teams").tw,kf.	1321
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kf.	16589
10	or/5-9	92755
11	4 and 10	2884
12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain special* teams" or "pain teams").tw,kf.	398
13	11 or 12	3214
14	limit 13 to english language	2518
15	limit 14 to ed=20230606-20240731	66
16	(("202306*" or "202307*" or "202308*" or "202309*" or "202310*" or "202311*" or "202312*" or "2024*") not ("20230601*" or "20230602*" or "20230603*" or "20230604*" or "20230605*")).dt.	1810457





17	14 and 16	100
18	15 or 17	112

Embase Classic + Embase 1947 to 2024 July 31

#	Searches	Results
1	exp pain/	1836999
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	283634
3	1 or 2	1908500
4	collaborative care team/	4021
5	rapid response team/	3477
6	multidisciplinary team/	33990
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health teams" or "multi disciplinary health teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,kw.	16261
8	("rapid response team" or "rapid response teams").tw,kw.	2012
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kw.	23103
10	or/4-9	79021
11	3 and 10	6076
12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* team" or "pain management collaborat* teams" or "pain management teams" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team"	894





	or "pain resource teams" or "pain service team" or "pain service teams" or "pain special*	
	team" or "pain special* teams" or "pain team" or "pain teams").tw,kw.	
13	11 or 12	6910
14	limit 13 to english language	6675
15	limit 14 to dc=20230606-20240731	1561
16	limit 15 to (books or chapter or conference abstract or conference paper or "conference review" or editorial or letter or "preprint (unpublished, non-peer reviewed)")	498
17	15 not 16	1063

Emcare Nursing 1995 to Present Search Strategy:

#	Searches	Results
1	exp pain/	364276
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	97514
3	1 or 2	405337
4	collaborative care team/	305
5	rapid response team/	1097
6	multidisciplinary team/	3524
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health teams" or "patient care teams").tw,kf.	7818
8	("rapid response team" or "rapid response teams").tw,kf.	1016
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kf.	10989
10	or/4-9	23303
11	3 and 10	913





12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain teams").tw,kf.	264
13	11 or 12	1167
14	limit 13 to english language	1089
15	limit 14 to yr="2017 -Current"	595
16	limit 15 to (book or chapter or conference abstract or conference paper or "conference review" or dissertation)	4
17	15 not 16	591

$\textbf{EBM Reviews - Cochrane Central Register of Controlled Trials} \ June \ 2024$

	ich shalegy.	
#	Searches	Results
1	exp Pain/	72336
2	Pain Management/	5901
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	79125
4	or/1-3	123821
5	Patient Care Team/	2254
6	Hospital Rapid Response Team/	28
7	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health	879





	teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").tw,kw.	
8	("rapid response team" or "rapid response teams").tw,kw.	98
9	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,kw.	917
10	or/5-9	3932
11	4 and 10	197
12	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management team" or "pain management teams" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary team" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service team" or "pain service teams" or "pain special* team" or "pain special* teams" or "pain teams").tw,kw.	101
13	11 or 12	294
14	limit 13 to english language	275
15	limit 14 to yr="2023 -Current"	25

EBM Reviews - Cochrane Database of Systematic Reviews 2005 to July 31, 2024 Search Strategy:

#	Searches	Results
1	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).mp.	2057
2	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health team" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care teams" or "multi disciplinary care teams" or "multi disciplinary health team" or "multi disciplinary health teams" or "multi disciplinary health teams" or "multi disciplinary health teams" or "patient care team" or "patient care teams").mp.	137





3	("rapid response team" or "rapid response teams").mp.	7
4	("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).mp.	60
5	or/2-4	190
6	1 and 5	40
7	("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain teams").mp.	1
8	6 or 7	41
9	limit 8 to full systematic reviews	39
10	from 9 keep 2-3	2

APA PsycInfo 1806 to July Week 4 2024 Search Strategy:

#	Searches	Results
1	exp Pain/	70568
2	pain management/	11968
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,id.	31326
4	or/1-3	82433
5	collaboration/	16992
6	interdisciplinary treatment approach/	8224
7	work teams/	6577
8	("health care team" or "health care teams" or "healthcare team" or "healthcare teams" or "inter disciplinary health teams" or "inter disciplinary health teams" or "inter disciplinary workforce" or "interdisciplinary health team" or "interdisciplinary health teams" or "interdisciplinary workforce" or "multi disciplinary care team" or "multi disciplinary care	2902





("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,id. 11 or/5-10 12 4 and 11 ("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource team" or "pain resource teams" or "pain service team" or "pain service teams" or "pain service teams" or "pain teams").tw,id. 14 12 or 13 15 limit 14 to english language 16 limit 15 to yr="2023 -Current" 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 18 limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract")			
9 ("rapid response team" or "rapid response teams").tw,id. 10 ("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,id. 11 or/5-10 39 12 4 and 11 83 ("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain care team" or "pain management collaborat* team" or "pain management collaborat* teams" or "pain management team" or "pain medicine team" or "pain multi disciplinary teams" or "pain multi disciplinary teams" or "pain multi disciplinary teams" or "pain resource team" or "pain resource team" or "pain service teams" or "pain teams").tw,id. 14 12 or 13 95 15 limit 14 to english language 85 16 limit 15 to yr="2023 -Current" 24 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 4 18 limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract")		disciplinary health team" or "multi disciplinary health team" or "multi disciplinary health teams" or "multi disciplinary health teams" or "patient care team" or "patient care	
("collaborative health care team" or "collaborative healthcare team" or "collaborative patient care team" or "team work" or teamwork).tw,id. 11 or/5-10 12 4 and 11 ("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource team" or "pain service team" or "pain service teams" or "pain service teams" or "pain service teams" or "pain teams").tw,id. 14 12 or 13 15 limit 14 to english language 16 limit 15 to yr="2023 -Current" 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 18 limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract")	9		94
("interdisciplinary pain care" or "interdisciplinary pain treatment" or "pain care teams" or "pain care" or "pain treatment" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain management teams" or "pain medicine teams" or "pain medicine teams" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain teams" or "pain teams").tw,id. 14 12 or 13 95 15 limit 14 to english language 89 16 limit 15 to yr="2023 -Current" 24 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 4 18 encyclopedia" or "0400 dissertation abstract") 4	10		8552
("interdisciplinary pain care" or "interdisciplinary pain treatment" or "inter disciplinary pain care" or "inter disciplinary pain treatment" or "pain care teams" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management teams" or "pain medicine teams" or "pain medicine teams" or "pain medicine teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* team" or "pain special* teams" or "pain teams" or "pain teams").tw,id. 14	11	or/5-10	39799
pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* teams" or "pain management collaborat* teams" or "pain management team" or "pain management teams" or "pain medicine team" or "pain multidisciplinary team" or "pain multidisciplinary teams" or "pain multi disciplinary team" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service team" or "pain service teams" or "pain special* team" or "pain special* teams" or "pain team" or "pain teams").tw,id. 14	12	4 and 11	838
15 limit 14 to english language 16 limit 15 to yr="2023 -Current" 24 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 18 limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract") 4	13	pain care" or "inter disciplinary pain treatment" or "pain care team" or "pain care teams" or "pain management collaborat* team" or "pain management collaborat* teams" or "pain management team" or "pain medicine team" or "pain medicine teams" or "pain multidisciplinary team" or "pain multidisciplinary teams" or "pain multidisciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special*	159
16 limit 15 to yr="2023 -Current" 24 17 limit 16 to (chapter or dissertation or review-book or review-media or review-software & other) 18 limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract") 4	14		952
limit 16 to (chapter or dissertation or review-book or review-media or review-software & 4 other) limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract") 4	15	limit 14 to english language	899
other) limit 16 to ("0200 book" or "0240 authored book" or "0280 edited book" or "0300 encyclopedia" or "0400 dissertation abstract") 4 4	16	limit 15 to yr="2023 -Current"	24
encyclopedia" or "0400 dissertation abstract")	17		4
19 16 not (17 or 18)	18		4
20 100 (1. 01 10)	19	16 not (17 or 18)	20

CINAHL

#	Query	Limiters/Expanders	Results
		Expanders - Apply equivalent subjects	
S1	(MH "Pain+")	Search modes - Proximity	240,704





		Expanders - Apply equivalent subjects	
S2	(MH "Pain Management")	Search modes - Proximity	17,202
	TI ((manage* or managing or relief or		
	relieve or relieves or reduce or reduces		
	or reduced or reducing or treats or		
	treating or treatment or treatments) N4		
	(pain or pains or painful)) OR AB		
	((manage* or managing or relief or		
	relieve or relieves or reduce or reduces		
	or reduced or reducing or treats or		
	treating or treatment or treatments) N4	Expanders - Apply equivalent subjects	
S 3	(pain or pains or painful))	Search modes - Proximity	84,607
		Expanders - Apply equivalent subjects	
S4	S1 OR S2 OR S3	Search modes - Proximity	275,074
54	51 OK 52 OK 53	Search modes - Frommity	213,014
	(MH "Rapid Response Team") OR (MH	Expanders - Apply equivalent subjects	
S5	"Multidisciplinary Care Team")	Search modes - Proximity	54,401
		Expanders - Apply equivalent subjects	
S6	(MH "Cooperative Behavior")	Search modes - Proximity	8,933
	TI ("health care team" or "health care		
	teams" or "healthcare team" or		
	"healthcare teams" or "inter disciplinary		
	health team" or "inter disciplinary health		
	teams" or "inter disciplinary workforce"		
	or "interdisciplinary health team" or		
	"interdisciplinary health teams" or		
	"interdisciplinary workforce" or "multi		
	disciplinary care team" or "multi		
	disciplinary care team" or "multi		
	disciplinary care teams" or "multi		
	disciplinary care teams" or "multi		
	disciplinary health team" or "multi	Expanders - Apply equivalent subjects	
S7	disciplinary health team" or "multi	Search modes - Proximity	939





	disciplinary health teams" or "multi		
	disciplinary health teams" or "patient		
	care team" or "patient care teams")		
	AB ("health care team" or "health care		
	teams" or "healthcare team" or		
	"healthcare teams" or "inter disciplinary		
	health team" or "inter disciplinary health		
	teams" or "inter disciplinary workforce"		
	or "interdisciplinary health team" or		
	"interdisciplinary health teams" or		
	"interdisciplinary workforce" or "multi		
	disciplinary care team" or "multi		
	disciplinary care team" or "multi		
	disciplinary care teams" or "multi		
	disciplinary care teams" or "multi		
	disciplinary health team" or "multi		
	disciplinary health team" or "multi		
	disciplinary health teams" or "multi		
	disciplinary health teams" or "patient	Expanders - Apply equivalent subjects	
S8	care team" or "patient care teams")	Search modes - Proximity	6,402
	TI ("rapid response team" or "rapid		
	response teams") OR AB ("rapid		
	response team" or "rapid response	Expanders - Apply equivalent subjects	
S9	teams")	Search modes - Proximity	933
	·	,	
	TI ("collaborative health care team" or		
	"collaborative healthcare team" or		
	"collaborative patient care team" or		
	"team work" or teamwork) OR AB		
	("collaborative health care team" or		
	"collaborative healthcare team" or		
	"collaborative patient care team" or	Expanders - Apply equivalent subjects	
S10	"team work" or teamwork)	Search modes - Proximity	10,186





		Expanders - Apply equivalent subjects	
S11	S5 OR S6 OR S7 OR S8 OR S9 OR S10	Search modes - Proximity	76,031
		Expanders - Apply equivalent subjects	
S12	S4 AND S11	Search modes - Proximity	3,220
512		Search modes Trommey	3,220
	TI ("interdisciplinary pain care" or		
	"interdisciplinary pain treatment" or		
	"inter disciplinary pain care" or "inter		
	disciplinary pain treatment" or "pain care		
	team" or "pain care teams" or "pain		
	management collaborat* team" or "pain		
	management collaborat* teams" or "pain		
	management team" or "pain management		
	teams" or "pain medicine team" or "pain		
	medicine teams" or "pain		
	multidisciplinary team" or "pain		
	multidisciplinary teams" or "pain multi		
	disciplinary team" or "pain multi		
	disciplinary teams" or "pain resource		
	team" or "pain resource teams" or "pain		
	service team" or "pain service teams" or		
	"pain special* team" or "pain special*	Expanders - Apply equivalent subjects	
S13	teams" or "pain team" or "pain teams")	Search modes - Proximity	73
	AB ("interdisciplinary pain care" or		
	"interdisciplinary pain treatment" or		
	"inter disciplinary pain care" or "inter		
	disciplinary pain treatment" or "pain care		
	team" or "pain care teams" or "pain		
	management collaborat* team" or "pain		
	management collaborat* teams" or "pain		
	management team" or "pain management		
	teams" or "pain medicine team" or "pain		
	medicine teams" or "pain	Expanders - Apply equivalent subjects	
S14	multidisciplinary team" or "pain	Search modes - Proximity	201





	multidisciplinary teams" or "pain multi disciplinary team" or "pain multi disciplinary teams" or "pain resource team" or "pain resource teams" or "pain service teams" or "pain service teams" or "pain special* teams" or "pain teams")		
S15	S12 OR S13 OR S14	Expanders - Apply equivalent subjects Search modes - Proximity	3,388
S16	S12 OR S13 OR S14	Limiters - English Language; Peer Reviewed Expanders - Apply equivalent subjects Search modes - Proximity	2,789
S17	EM 20230606*-	Expanders - Apply equivalent subjects Search modes - Proximity	291,038
S18	S16 AND S17	Expanders - Apply equivalent subjects Search modes - Proximity	263

Original search for recommendation questions #2 and #3:

As recommendation questions #2 and #3 focused on the same intervention but different populations, one search strategy was developed and the guideline development methodologists screened for both questions.

Recommendation question #2: Should interactive education on pain assessment, prevention and management for students entering health professions be recommended or not?

Recommendation question #3: Should interactive education on pain assessment, prevention and management for health providers be recommended or not?

<u>Databases:</u> Medline, Embase, Emcare, Cochrane Central, Cochrane Database of Systematic Reviews, PsycInfo and Cumulative Index to Nursing and Allied Health (CINAHL).

Dates searched: January 2017 – March 2023





MEDLINE(R) 1946 to August 20, 2023

#	Searches	Results
1	exp pain/dh, dt, nu, pc, rt, rh, th [Diet Therapy, Drug Therapy, Nursing, Prevention & Control, Radiotherapy, Rehabilitation]	171532
2	Pain Management/	40397
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	175378
4	or/1-3	298608
5	Computer Assisted Instruction/	12519
6	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kf.	688
7	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	2443
8	("e learn*" or elearn*).tw,kf.	4762
9	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kf.	247
10	((digital* or electronic or internet or online or "on line" or "web based" or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	54182
11	interactive tutorial/	281
12	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	10645
13	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	6497
14	webcast/	1110
15	videoconferencing/ or webcasts as topic/	2716
16	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kf.	8783





17	("video tutorial?" or videotutorial?).tw,kf.	435
18	Simulation Training/ or High Fidelity Simulation Training/ or Patient Simulation/	11496
19	Computer Simulation/ or Augmented Reality/	210279
20	simulat*.tw,kf.	677750
21	(vignette or vignettes).tw,kf.	13604
22	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kf.	4577
23	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kf.	151
24	virtual reality/	5251
25	("virtual reality" or "virtual realities" or "VR").tw,kf.	21942
26	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	4330
27	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	13812
28	InService Training/	20739
29	(inservice or "in service" or "on the job training" or "training on the job").tw,kf.	11713
30	((case? or "case based") adj2 (discus* or conference* or learn* or tutorial*)).tw,kf.	22391
31	(group? adj2 discuss*).tw,kf.	26199
32	"lunch* and learn*".tw,kf.	44
33	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	5042
34	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	6154





		1
	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or	
35	program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	4713
	shop?")).tw,kf.	
36	or/5-35	989335
37	4 and 36	5118
38	exp "Attitude of Health Personnel"/	169172
39	exp Health Personnel/	604968
40	exp Personnel, Hospital/	95089
41	exp Health Occupations/	1842608
42	exp Patient Care Team/	72632
43	Social Work/	16226
44	Social Workers/	1070
45	Nurse's Role/	42737
46	Licensed Practical Nurses/	99
47	exp Nurses/	97616
48	exp Nursing Staff/	69671
49	Nursing Staff, Hospital/	47830
50	exp Nursing/	262879
51	Nursing, Practical/	3444
52	Health Educators/	492
53	exp Administrative Personnel/	42243
- A	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or	210640
54	occupation? or practitioner? or worker?)).tw,kf.	318648
55	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or	21242
33	occupation? or practitioner? or worker?)).tw,kf.	21243
56	nurs*.tw,kf.	526206
57	(patient care? adj2 team?).tw,kf.	1036
58	(health* adj2 educator?).tw,kf.	3824
59	(social adj2 worker?).tw,kf.	12620
60	(support* adj2 (worker? or staff?)).tw,kf.	8170
61	practitioner?.tw,kf.	177343





62	Caregivers/	49017
63	(caregiver? or care-giver? or carer or carers).tw,kf.	106751
64	students, health occupations/ or students, medical/ or students, nursing/ or students, pharmacy/ or students, premedical/ or students, public health/	79176
65	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students or public health students).tw,kf.	76590
66	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy students or respiratory therapy student or respiratory therapy students).tw,kf.	1322
67	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kf.	1440955
68	Health Workforce/	14385
69	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kf.	7926
70	or/38-69 [Students or Health Providers terms]	3695262
71	37 and 70	2130
72	limit 71 to english language	2046
73	limit 72 to yr="2017 -Current"	1025





Embase Classic+Embase 1947 to 2023 March 20

#	Searches	Results
1	exp pain/dm, dt, pc, rt, rh, th [Disease Management, Drug Therapy, Prevention, Radiotherapy, Rehabilitation, Therapy]	272749
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	262958
3	1 or 2	455399
4	Computer Assisted Instruction.ti.	382
5	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	931
6	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	3155
7	e-learning/	5247
8	virtual learning environment/	978
9	("e learn*" or elearn*).tw,kw.	7215
10	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	295
11	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	77239
12	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	16875
13	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	7338
14	podcast/ or videoconferencing/ or web conferencing/ or webcast/ or webinar/	11203
15	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	13572
16	("video tutorial?" or videotutorial?).tw,kw.	599





17	simulation turining / anticle Citation simulation turining /	0212
17	simulation training/ or high fidelity simulation training/	9213
18	simulation/ or computer simulation/ or digital twin/ or discrete event simulation/ or high fidelity simulation/ or high-fidelity patient simulation/ or patient simulation/ or vignette/	393219
19	augmented reality/	2084
20	simulat*.tw,kw.	742659
21	(vignette or vignettes).tw,kw.	18065
22	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	5447
23	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	281
24	virtual reality/	25347
25	("virtual reality" or "virtual realities" or "VR").tw,kw.	30456
26	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	7568
27	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	20181
28	"in service training"/	16823
29	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	15092
30	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	40718
31	((group? or "group based") adj2 discuss*).tw,kw.	40950
32	"lunch* and learn*".tw,kw.	107
33	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	7170
34	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	10904





35	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	5922
36	or/4-35	1116603
37	3 and 36	8291
38	exp health personnel attitude/	205585
39	exp health care personnel/	2020549
40	exp hospital personnel/	155640
41	exp multidisciplinary team/	26177
42	social work/	30684
43	social worker/	16743
44	licensed practical nurse/	395
45	exp nurse/	222360
46	nursing staff/	77949
47	exp nursing/	418050
48	practical nursing/	169
49	exp health educator/	3523
50	exp administrative personnel/	35379
51	nurse attitude/	43368
52	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	414819
53	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	29708
54	nurs*.tw,kw.	637085
55	(patient care? adj2 team?).tw,kw.	882
56	(health* adj2 educator?).tw,kw.	4439
57	(social adj2 worker?).tw,kw.	21531
58	(support* adj2 (worker? or staff?)).tw,kw.	11727
59	practitioner?.tw,kw.	230947
60	caregiver/	110549
61	(caregiver? or care-giver? or carer or carers).tw,kw.	152914





62	health student/	1886
63	medical student/ or physician assistant student/	90369
64	premedical student/	159
65	public health student/	134
66	paramedical student/ or audiology student/ or dietetics student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/	10912
67	nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/	32656
68	(health care student or health care students or health occupations student or health occupations students or healthcare student or med school student or med school students or med students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students).tw,kw.	100469
69	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy student or physical therapy students or respiratory therapy students).tw,kw.	1814
70	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kw.	2057591
71	health workforce/	3461
72	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kw.	8898
73	or/38-72	3874942
74	37 and 73	3339
75	limit 74 to english language	3255





76	limit 75 to yr="2017 -Current"	1653
77	limit 76 to (books or chapter or conference abstract or conference paper or "conference review")	602
78	76 not 77	1051

Emcare Nursing 1995 to Present

#	Searches	Results
1	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	95876
2	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kf.	469
3	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	1720
4	e-learning/	1709
5	virtual learning environment/	175
6	("e learn*" or elearn*).tw,kf.	3588
7	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kf.	144
8	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	33947
9	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	6539
10	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	2755
11	podcast/ or videoconferencing/ or web conferencing/ or webcast/ or webinar/	2909
12	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webcast* or "web cast*").tw,kf.	5467





13	("video tutorial?" or videotutorial?).tw,kf.	94
14	simulation training/ or high fidelity simulation training/	1760
15	simulation/ or computer simulation/ or digital twin/ or discrete event simulation/ or high-fidelity patient simulation/ or patient simulation/ or vignette/	77334
16	augmented reality/	373
17	simulat*.tw,kf.	160133
18	(vignette or vignettes).tw,kf.	8988
19	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kf.	1924
20	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kf.	116
21	virtual reality/	8988
22	("virtual reality" or "virtual realities" or "VR").tw,kf.	11942
23	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	2414
24	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	7734
25	in service training/	1747
26	(inservice or "in service" or "on the job training" or "training on the job").tw,kf.	7603
27	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kf.	8532
28	((group? or "group based") adj2 discuss*).tw,kf.	19781
29	"lunch* and learn*".tw,kf.	29
30	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	3292
31	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	3880





(experiential adj5 (class or classes or course? or education* or learn* or presentation? program* or seminar? or session* or teach* or train* or tutor* or workshop? or "workshop?")).tw,kf. or/2-32 ad 1 and 33 exp health personnel attitude/ exp health care personnel/	
33 or/2-32 34 1 and 33 35 exp health personnel attitude/ 36 exp health care personnel/	2420 45207 720830
35 exp health personnel attitude/ 36 exp health care personnel/	45207 720830
36 exp health care personnel/	720830
	43972
37 exp hospital personnel/	
38 exp multidisciplinary team/	3704
39 social work/	19500
40 social worker/	10325
41 licensed practical nurse/	244
42 exp nurse/	169367
43 nursing staff/	26058
44 exp nursing/	166225
45 practical nursing/	189
46 exp health educator/	2524
47 exp administrative personnel/	13975
48 nurse attitude/	15716
(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	205905
(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	10409
51 nurs*.tw,kf.	324223
52 (patient care? adj2 team?).tw,kf.	956
53 (health* adj2 educator?).tw,kf.	2653
54 (social adj2 worker?).tw,kf.	13516
55 (support* adj2 (worker? or staff?)).tw,kf.	6750
56 practitioner?.tw,kf.	110869
57 caregiver/	51405
58 (caregiver? or care-giver? or carer or carers).tw,kf.	81696





.		7 60
59		569
60	medical student/ or physician assistant student/	26150
61	premedical student/	41
62	health student/	569
	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or	
63	midwifery student/ or occupational therapy student/ or pharmacy student/ or physical	4693
	therapy student/ or respiratory therapy student/	
64	nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/	19760
	(health care student or health care students or health occupations student or health	
	occupations students or healthcare student or healthcare students or med school student	
	or med school students or med student or med students or medical school student or	
65	medical school students or medical student or medical students or nursing student or	45463
	nursing students or pharmacy student or pharmacy students or physician assistant student	
	or physician assistant students or premedical student or premedical students or public	
	health student or public health students).tw,kf.	
	(audiology student or audiology students or dietetics student or dietetics students or	
66	occupational therapy student or occupational therapy students or paramedical student or	1393
	paramedical students or physical therapy student or physical therapy students or	1373
	respiratory therapy student or respiratory therapy students).tw,kf.	
	(doctor or doctors or clinician? or health care professional or health care professionals or	
	health care provider or health care providers or health personnel or healthcare	
67	professional or healthcare professionals or healthcare provider or healthcare providers or	727825
	healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing	
	staff or physician or physicians or surgeon?).tw,kf.	
68	health workforce/	1438
	(health care labor force or health care labour force or health care work force or health	
	care workforce or health labor force or health labour force or health manpower or health	
69	occupations manpower or health work force or health workforce or healthcare labor force	5247
	or healthcare labour force or healthcare manpower or healthcare work force or healthcare	
	workforce or medical manpower).tw,kf.	
70	or/35-69	1336894
71	34 and 70	1059





72	limit 71 to english language	1024
73	limit 72 to yr="2017 -Current"	521
74	limit 73 to (book or chapter or conference abstract or conference paper or "conference review")	5
75	73 not 74	516

EBM Reviews - Cochrane Central Register of Controlled Trials February 2023

#	Searches	Results
1	pain management/	4916
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	69166
3	1 or 2	70821
4	Computer-Assisted Instruction/	1359
5	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	247
6	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	1050
7	("e learn*" or elearn*).tw,kw.	1031
8	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	78
9	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	14314
10	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	2984
11	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	677
12	webcast/	0
13	videoconferencing/ or webcasts as topic/	284





14	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	2273
15	("video tutorial?" or videotutorial?).tw,kw.	72
16	simulation training/ or high fidelity simulation training/ or patient simulation/	1381
17	computer simulation/ or augmented reality/	2379
18	simulat*.tw,kw.	21920
19	(vignette or vignettes).tw,kw.	1563
20	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	432
21	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	75
22	virtual reality/	779
23	("virtual reality" or "virtual realities" or "VR").tw,kw.	6089
24	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	634
25	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	1512
26	Inservice Training/	809
27	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	687
28	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	747
29	((group? or "group based") adj2 discuss*).tw,kw.	4088
30	"lunch* and learn*".tw,kw.	13
31	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	3242





32	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	1001
33	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	444
34	or/4-33	56758
35	3 and 34	2002
36	exp "attitude of health personnel"/	2967
37	exp Health Personnel/	12842
38	exp Personnel, Hospital/	1051
39	exp Health Occupations/	30865
40	exp Patient Care Team/	2032
41	Social Work/	219
42	Social Workers/	37
43	Nurse's Role/	530
44	Licensed Practical Nurses/	1
45	exp Nurses/	1579
46	exp Nursing Staff/	775
47	Nursing Staff, Hospital/	523
48	exp Nursing/	4044
49	Nursing, Practical/	11
50	Health Educators/	30
51	exp Administrative Personnel/	136
52	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	25314
53	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	2092
54	nurs*.tw,kw.	48738
55	(patient care? adj2 team?).tw,kw.	52
56	(health* adj2 educator?).tw,kw.	551
57	(social adj2 worker?).tw,kw.	1396





58	(support* adj2 (worker? or staff?)).tw,kw.	800
59	practitioner?.tw,kw.	16312
60	Caregivers/	3114
61	(caregiver? or care-giver? or carer or carers).tw,kw.	19577
62	students, health occupations/ or students, medical/ or students, nursing/ or students, pharmacy/ or students, premedical/ or students, public health/	2334
63	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school student or medical students or nursing student or nursing students or pharmacy student or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students or public health students).tw,kw.	6326
64	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical students or physical therapy student or physical therapy students or respiratory therapy student or respiratory therapy students).tw,kw.	174
65	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kw.	137452
66	Health Workforce/	29
67	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kw.	115
68	or/36-67	211034
69	35 and 68	701
70	limit 69 to english language	698
71	limit 70 to yr="2017 -Current"	466





EBM Reviews - Cochrane Database of Systematic Reviews 2005 to March 15, 2023 Search Strategy:

#	Searches	Results
1	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	1993
2	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	44
3	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	55
4	("e learn*" or elearn*).tw,kw.	42
5	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	3
6	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	821
7	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	165
8	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	27
9	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	153
10	simulat*.tw,kw.	459
11	(vignette or vignettes).tw,kw.	44
12	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	8
13	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	0





14	("virtual reality" or "virtual realities" or "VR").tw,kw.	142
15	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	25
16	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	72
17	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	122
18	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	102
19	((group? or "group based") adj2 discuss*).tw,kw.	268
20	"lunch* and learn*".tw,kw.	1
21	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	225
22	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	75
23	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	27
24	or/2-23	1874
25	1 and 24	322
26	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	3065
27	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	229
28	nurs*.tw,kw.	3309
29	(patient care? adj2 team?).tw,kw.	63
30	(health* adj2 educator?).tw,kw.	52
31	(social adj2 worker?).tw,kw.	231
32	(support* adj2 (worker? or staff?)).tw,kw.	146
33	practitioner?.tw,kw.	1862





24	(2000 21120) 200 21120) 200 200 200 200 200 200 200 200 200	2205
34	(caregiver? or care-giver? or carer or carers).tw,kw.	2205
	(health care student or health care students or health occupations student or health	
	occupations students or healthcare student or healthcare students or med school student or	
	med school students or med students or medical school student or medical	
35	school students or medical student or medical students or nursing student or nursing	124
	students or pharmacy student or pharmacy students or physician assistant student or	
	physician assistant students or premedical student or premedical students or public health	
	student or public health students).tw,kw.	
	(audiology student or audiology students or dietetics student or dietetics students or	
	occupational therapy student or occupational therapy students or paramedical student or	_
36	paramedical students or physical therapy student or physical therapy students or	5
	respiratory therapy student or respiratory therapy students).tw,kw.	
	(doctor or doctors or clinician? or health care professional or health care professionals or	
	health care provider or health care providers or health personnel or healthcare professional	
37	or healthcare professionals or healthcare provider or healthcare providers or healthcare	7789
	worker or healthcare workers or medical staff or nurse or nurses or nursing staff or	
	physician or physicians or surgeon?).tw,kw.	
	(health care labor force or health care labour force or health care work force or health care	
	workforce or health labor force or health labour force or health manpower or health	
38	occupations manpower or health work force or health workforce or healthcare labor force	49
	or healthcare labour force or healthcare manpower or healthcare work force or healthcare	
	workforce or medical manpower).tw,kw.	
39	or/26-38	8712
40	25 and 39	308
41	limit 40 to last 6 years	68

APA PsycInfo 1806 to March Week 2 2023

Search Strategy:

#	Searches	Results
1	pain management/	11070
	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or	
2	reducing or treats or treating or treatment or treatments) adj5 (pain or pains or	29314
	painful)).tw,id.	





3	1 or 2	31277
4	computer assisted instruction/ or computer supported collaborative learning/ or exp electronic learning/ or intelligent tutoring systems/	23465
5	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,id.	1811
6	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3189
7	electronic learning/ or mobile learning/	4076
8	("e learn*" or elearn*).tw,id.	4203
9	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,id.	199
10	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	42966
11	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	8443
12	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3837
13	blended learning/	771
14	videoconferencing/	834
15	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,id.	4260
16	("video tutorial?" or videotutorial?).tw,id.	63
17	computer simulation/ or simulation games/	29567
18	augmented reality/ or role playing games/	1418
19	simulat*.tw,id.	78625
20	(vignette or vignettes).tw,id.	22583
21	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,id.	1571





22	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,id.	27
23	virtual reality/	10686
24	("virtual reality" or "virtual realities" or "VR").tw,id.	10217
25	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	1799
26	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	11081
27	inservice training/	697
28	(inservice or "in service" or "on the job training" or "training on the job").tw,id.	13765
29	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,id.	9337
30	group discussion/ or debates/	6898
31	((group? or "group based") adj2 discuss*).tw,id.	18849
32	"lunch* and learn*".tw,id.	20
33	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3978
34	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3073
35	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	6678
36	or/4-35	251037
37	3 and 36	1120
38	exp health personnel attitudes/	26902
39	exp health personnel/	186904
40	social casework/	20540





41	social workers/	14257
42	exp nurses/	37201
43	nursing/	26399
44	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,id.	114908
45	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,id.	6177
46	nurs*.tw,id.	117887
47	(patient care? adj2 team?).tw,id.	156
48	(health* adj2 educator?).tw,id.	2283
49	(social adj2 worker?).tw,id.	29009
50	(support* adj2 (worker? or staff?)).tw,id.	6221
51	practitioner?.tw,id.	107104
52	caregivers/	35438
53	(caregiver? or care-giver? or carer or carers).tw,id.	71930
54	medical students/	14698
55	nursing students/	6366
56	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school student or medical students or nursing student or nursing students or pharmacy student or pharmacy students or physician assistant student or physician assistant students or premedical students or public health student or public health students).tw,id.	24428
57	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy student or physical therapy students or respiratory therapy students).tw,id.	943
58	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,id.	293049





59	("health care labor force" or "health care labour force" or "health care work force" or "health care workforce" or "health labor force" or "health labour force" or "health manpower" or "health occupations manpower" or "health work force" or "health workforce" or "healthcare labor force" or "healthcare labour force" or "healthcare manpower" or "healthcare work force" or "healthcare workforce" or "medical manpower").tw,id.	1644
60	or/38-59	618474
61	37 and 60	502
62	limit 61 to english language	487
63	limit 62 to yr="2017 -Current"	189
64	limit 63 to (chapter or dissertation or review-book or review-media or review-software & other)	20
65	63 not 64	169

CINAHL

#	Query	Limiters/Expanders	Results
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S 1	(MH "Pain+/DH/DT/NU/PC/RT/RH/TH")	Boolean/Phrase	111,186
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S2	(MH "Pain Management")	Boolean/Phrase	13,135
	TI ((manage* or managing or relief or relieve or		
	relieves or reduce or reduces or reduced or reducing or		
	treats or treating or treatment or treatments) N4 (pain or		
	pains or painful)) OR AB ((manage* or managing or	Expanders - Apply equivalent	
	relief or relieve or relieves or reduce or reduces or	subjects	
	reduced or reducing or treats or treating or treatment or	Search modes -	
S 3	treatments) N4 (pain or pains or painful))	Boolean/Phrase	85,401





		T	<u> </u>
		Expanders - Apply equivalent subjects	
		Search modes -	
S4	S1 OR S2 OR S3	Boolean/Phrase	158,898
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S5	(MH "Computer Assisted Instruction")	Boolean/Phrase	8,306
	TI ("computer* assisted instruction" or "computer*		
	programmed instruction" or "computer* programmed		
	instruction" or "computer* self instruction") OR AB	Expanders - Apply equivalent	
	("computer* assisted instruction" or "computer*	subjects	
	programmed instruction" or "computer* programmed	Search modes -	
S 6	instruction" or "computer* self instruction")	Boolean/Phrase	347
	TI ("computer based" N4 (class or classes or course# or		
	education* or learn* or presentation* or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB ("computer		
	based" N4 (class or classes or course# or education* or	Expanders - Apply equivalent	
	learn* or presentation* or program* or seminar# or	subjects	
	session* or teach* or train* or tutor* or workshop# or	Search modes -	
S 7	"work shop#"))	Boolean/Phrase	1,257
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S8	(MH "Online Education")	Boolean/Phrase	3,260
			,
		Expanders - Apply equivalent	
		subjects	
	TI ("e learn*" or elearn*) OR AB ("e learn*" or	Search modes -	
S 9	elearn*)	Boolean/Phrase	3,000





		Expanders - Apply equivalent	
	TI ("e-education*" or "e-school*" or "e-program*" or	subjects	
	"e-train*") OR AB ("e-education*" or "e-school*" or	Search modes -	
S10	"e-program*" or "e-train*")	Boolean/Phrase	299
	TI ((digital* or electronic or internet or online or "on		
	line" or web or virtual*) N4 (class or classes or course#		
	or education* or learn* or presentation* or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB ((digital* or		
	electronic or internet or online or "on line" or web or		
	virtual*) N4 (class or classes or course# or education*	Expanders - Apply equivalent	
	or learn* or presentation* or program* or seminar# or	subjects	
	session* or teach* or train* or tutor* or workshop# or	Search modes -	
S11	"work shop#"))	Boolean/Phrase	33,979
	-		,
	TI ((interactive* or "inter active*") N4 (class or classes		
	or course# or education* or learn* or media or		
	program* or seminar# or session* or teach* or train* or		
	tutor* or workshop# or "work shop#")) OR AB		
	((interactive* or "inter active*") N4 (class or classes or	Expanders - Apply equivalent	
	course# or education* or learn* or media or program*	subjects	
	or seminar# or session* or teach* or train* or tutor* or	Search modes -	
S12	workshop# or "work shop#"))	Boolean/Phrase	5,484
	TI ((blended or hybrid) N4 (class or classes or course#		
	or education* or learn* or program* or seminar# or		
	session* or teach* or train* or tutor* or workshop# or		
	"work shop#")) OR AB ((blended or hybrid) N4 (class	Expanders - Apply equivalent	
	or classes or course# or education* or learn* or	subjects	
	program* or seminar# or session* or teach* or train* or	Search modes -	
S13		Boolean/Phrase	2,054
			-,
		Expanders - Apply equivalent	
		subjects	
	(MH "Videoconferencing") OR (MH "Webcasts") OR	Search modes -	
S14	(MH "Webinars")	Boolean/Phrase	5,834





			1
	TI (podcast* or "pod cast*" or "streaming video#" or videoteleconf* or "video teleconf*" or videoconferenc*		
	or "video conferenc*" or "web conferenc*" or		
	webconferenc* or webinar* or webcast* or "web		
	cast*") OR AB (podcast* or "pod cast*" or "streaming		
	video#" or videoteleconf* or "video teleconf*" or	Expanders - Apply equivalent	
	videoconferenc* or "video conferenc*" or "web	subjects	
	conferenc*" or webconferenc* or webinar* or webcast*	Search modes -	
C15		Boolean/Phrase	6 977
313	or "web cast*")	Boolean/Phrase	6,877
		Expanders - Apply equivalent	
		subjects	
	TI ("video tutorial#" or videotutorial#) OR AB ("video	Search modes -	
S16	tutorial#" or videotutorial#)	Boolean/Phrase	93
		Expanders - Apply equivalent	
	(MH "Simulations") OR (MH "Computer Simulation")	subjects	
	OR (MH "Augmented Reality") OR (MH "Patient	Search modes -	
S17	Simulation") OR (MH "Vignettes")	Boolean/Phrase	48,162
	, , , ,		,
		Expanders - Apply equivalent	
		subjects	
710		Search modes -	50. 5 7 0
S18	TI simulat* OR AB simulat*	Boolean/Phrase	68,670
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S19	TI (vignette or vignettes) OR AB (vignette or vignettes)	Boolean/Phrase	6,779
	TI ("augmented realities" or "augmented reality" or	Expanders - Apply equivalent	
	"mixed realities" or "mixed reality") OR AB	subjects	
	("augmented realities" or "augmented reality" or	Search modes -	
S20	"mixed realities" or "mixed reality")	Boolean/Phrase	1,221
520		Doorean/Tinase	1,221
	TI ("hfps based learning" or "hfps learning" or "hfps		
	training" or "hfs based course" or "hfs based teamwork	Expanders - Apply equivalent	
S21	training" or "hfs based training" or "hfs training" or	subjects	90





	"high fidelity manikin" or "high fidelity mannikin" or	Search modes -	
	"high fidelity mannequin" or "high fidelity manakin")	Boolean/Phrase	
	OR AB ("hfps based learning" or "hfps learning" or		
	"hfps training" or "hfs based course" or "hfs based		
	teamwork training" or "hfs based training" or "hfs		
	training" or "high fidelity manikin" or "high fidelity		
	mannikin" or "high fidelity mannequin" or "high		
	fidelity manakin")		
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S22	(MH "Virtual Reality")	Boolean/Phrase	7,461
		Expanders - Apply equivalent	
		subjects	
	TI ("virtual reality" or "virtual realities" or "VR") OR	Search modes -	
S23	AB ("virtual reality" or "virtual realities" or "VR")	Boolean/Phrase	7,537
	TI ("hands on" N4 (class or classes or course# or		
	education* or learn* or practic* or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB ("hands on" N4	Expanders - Apply equivalent	
	(class or classes or course# or education* or learn* or	subjects	
	practic* or program* or seminar# or session* or teach*	Search modes -	
S24		Boolean/Phrase	2,741
324		DOOLCAII/ FIII ASC	2,741
	TI (practical N4 (class or classes or course# or		
	education* or learn* or lesson# or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB (practical N4	Expanders - Apply equivalent	
	(class or classes or course# or education* or learn* or	subjects	
	lesson# or program* or seminar# or session* or teach*	Search modes -	
S25	or train* or tutor* or workshop# or "work shop#"))	Boolean/Phrase	6,502
		Expanders - Apply equivalent	
S26	(MH "Staff Development")	subjects	29,838





		Search modes -	
		Boolean/Phrase	
		Expanders - Apply equivalent	
	TI (inservice or "in service" or "on the job training" or	subjects	
	"training on the job") OR AB (inservice or "in service"	Search modes -	
S27	or "on the job training" or "training on the job")	Boolean/Phrase	8,189
	TI ((case# or "case based") N1 (discuss* or	Expanders - Apply equivalent	
	conference* or learn* or tutorial*)) OR AB ((case# or	subjects	
	"case based") N1 (discuss* or conference* or learn* or	Search modes -	
\$28	tutorial*))	Boolean/Phrase	8,374
520			0,017
		Expanders - Apply equivalent	
		subjects	
	TI ((group# or "group based") N1 discuss*) OR AB	Search modes - SmartText	
S29	((group# or "group based") N1 discuss*)	Searching	1,824
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
830	TI ("lunch* and learn*") OR AB ("lunch* and learn*")	Boolean/Phrase	56
550	Tr (tunen and team) OR AB (tunen and team)	Doolean/Timase	30
	TI ("face to face" N4 (class or classes or course# or		
	education* or learn* or presentation* or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB ("face to face"		
	N4 (class or classes or course# or education* or learn*	Expanders - Apply equivalent	
	or presentation* or program* or seminar# or session*	subjects	
	or teach* or train* or tutor* or workshop# or "work	Search modes -	
S31	shop#"))	Boolean/Phrase	2,930
	-		
	TI (didactic* N4 (class or classes or course# or		
	education* or learn* or presentation# or program* or		
	seminar# or session* or teach* or train* or tutor* or	Expanders - Apply equivalent	
	workshop# or "work shop#")) OR AB (didactic* N4	subjects	
	(class or classes or course# or education* or learn* or	Search modes -	
S32	presentation# or program* or seminar# or session* or	Boolean/Phrase	2,968





	toook k on tuoin k on tytouk on yyonkohom t on "yyonk		
	teach* or train* or tutor* or workshop# or "work shop#"))		
	TI (experiential N4 (class or classes or course# or		
	education* or learn* or presentation# or program* or		
	seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB (experiential N4		
	(class or classes or course# or education* or learn* or	Expanders - Apply equivalent	
	presentation# or program* or seminar# or session* or	subjects	
	teach* or train* or tutor* or workshop# or "work	Search modes -	
S33	shop#"))	Boolean/Phrase	3,407
	S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR		
	S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18	Expanders - Apply equivalent	
	OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR	subjects	
	S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31	Search modes -	
S34	OR S32 OR S33	Boolean/Phrase	212,907
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S35	S4 AND S34	Boolean/Phrase	3,360
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
\$36	(MH "Attitude of Health Personnel+")	Boolean/Phrase	123,645
330	(MH Attitude of Health Fersonner+)	boolean/Filiase	123,043
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S37	(MH "Health Personnel+")	Boolean/Phrase	641,708
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S38	(MH "Personnel, Health Facility+")	Boolean/Phrase	45,096





		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S39	(MH "Health Occupations+")	Boolean/Phrase	826,361
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S40	(MH "Multidisciplinary Care Team+")	Boolean/Phrase	52,113
	()		-,
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S41	(MH "Social Work+")	Boolean/Phrase	15,479
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S42	(MH "Social Workers")	Boolean/Phrase	11,301
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S43	(MH "Nursing Role")	Boolean/Phrase	65,893
5 15	(MIII Truibing Role)		03,073
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S44	(MH "Practical Nurses") OR (MH "Practical Nursing")	Boolean/Phrase	7,734
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S45	(MH "Nurses+")	Boolean/Phrase	242,746
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
216	(MII "Nursing Staff Hagnital")		25 297
340	(MH "Nursing Staff, Hospital")	Boolean/Phrase	25,287





		Т	1
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S47	(MH "Health Educators+")	Boolean/Phrase	4,209
		Expanders - Apply equivalent	
		subjects Search modes -	
0.40	(MIL!! A durinistrative Descended!!!)		40.975
548	(MH "Administrative Personnel+")	Boolean/Phrase	40,875
		Expanders - Apply equivalent	
		subjects	
	TI (health* N2 provider#) OR AB (health* N2	Search modes -	
S49	provider#)	Boolean/Phrase	58,112
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 provider#) OR AB (hospital* N2	Search modes -	
\$50	provider#)	Boolean/Phrase	1,841
550	providerii)		1,041
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S51	TI (health* N2 staff#) OR AB (health* N2 staff#)	Boolean/Phrase	9,051
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S52	TI (hospital* N2 staff#) OR AB (hospital* N2 staff#)	Boolean/Phrase	6,103
	-	Expanders - Apply equivalent	
	TI (hoolth* NO noncommel#) OD AD (hoolth* NO	subjects	
0.50	TI (health* N2 personnel#) OR AB (health* N2	Search modes -	5 477
S53	personnel#)	Boolean/Phrase	5,475
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 personnel#) OR AB (hospital* N2	Search modes -	
S54	personnel#)	Boolean/Phrase	1,163





		T	· 1
		Expanders - Apply equivalent	
		subjects	
	TI (health* N2 employe*) OR AB (health* N2	Search modes -	
S55		Boolean/Phrase	7,181
	· · · · · · · ·		, -
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 employe*) OR AB (hospital* N2	Search modes -	
S56	employe*)	Boolean/Phrase	2,081
		Expanders - Apply equivalent	
		subjects	
	TI (health* N2 profession*) OR AB (health* N2	Search modes -	
S57	profession*)	Boolean/Phrase	101,812
337	profession')	Boolean/Finase	101,612
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 profession*) OR AB (hospital* N2	Search modes -	
S58	profession*)	Boolean/Phrase	2,012
		Expanders - Apply equivalent	
	TI (haalah * NO aaannatian#) OD AD (haalah * NO	subjects	
aro	TI (health* N2 occupation#) OR AB (health* N2	Search modes -	1.026
S59	occupation#)	Boolean/Phrase	1,026
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 occupation#) OR AB (hospital* N2	Search modes -	
S60	occupation#)	Boolean/Phrase	59
		Even done Acate assistent	
		Expanders - Apply equivalent	
		subjects	
	TI (health* N2 practitioner#) OR AB (health* N2	Search modes -	
S61	practitioner#)	Boolean/Phrase	12,301
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 practitioner#) OR AB (hospital* N2	Search modes -	
S62		Boolean/Phrase	935
	· /		





			I
		Expanders - Apply equivalent subjects	
		Search modes -	
S63	TI (health* N2 worker#) OR AB (health* N2 worker#)	Boolean/Phrase	34,513
	,		,
		Expanders - Apply equivalent	
		subjects	
	TI (hospital* N2 worker#) OR AB (hospital* N2	Search modes -	
S64	worker#)	Boolean/Phrase	1,613
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
065	TI mana * OD AD mana *		642.064
203	TI nurs* OR AB nurs*	Boolean/Phrase	643,964
		Expanders - Apply equivalent	
		subjects	
	TI (patient care# N2 team#) OR AB (patient care# N2	Search modes -	
S66	team#)	Boolean/Phrase	597
		Expenders Apply aquivelent	
		Expanders - Apply equivalent	
	TILA MANA A MANA AND AND AND AND AND AND AND AND AND	subjects	
~	TI (health* N2 educator#) OR AB (health* N2	Search modes -	
S67	educator#)	Boolean/Phrase	3,792
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S68	TI (social N2 worker#) OR AB (social N2 worker#)	Boolean/Phrase	15,135
			,
		Expanders - Apply equivalent	
		subjects	
	TI (support* N2 (worker# or staff#)) OR AB (support*	Search modes -	
S69	N2 (worker# or staff#))	Boolean/Phrase	9,774
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S70	TI clinician# OR AB clinician#	Boolean/Phrase	124,274
570	11 chinicianii OR 11D chinicianii	Dooreum i mase	147,4/7





		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S71	TI doctor# OR AB doctor#	Boolean/Phrase	65,731
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
672	TI abovision# OD AD abovision#		170 240
S72	TI physician# OR AB physician#	Boolean/Phrase	170,340
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S73	TI practitioner# OR AB practitioner#	Boolean/Phrase	108,721
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S74	TI surgeon# OR AB surgeon#	Boolean/Phrase	63,779
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S75	(MH "Caregivers")	Boolean/Phrase	43,231
573	(Will Calegivers)		43,231
		Expanders - Apply equivalent	
		subjects	
	TI (caregiver# or care-giver# or carer or carers) OR AB	Search modes -	
S76	(caregiver# or care-giver# or carer or carers)	Boolean/Phrase	80,432
	(MH "Students, Medical") OR (MH "Students,		
	Audiology") OR (MH "Students, Dietetics") OR (MH		
	"Students, Occupational Therapy") OR (MH "Students,		
	Physical Therapy") OR (MH "Students, Physician		
	Assistant") OR (MH "Students, Respiratory Therapy")	Expanders - Apply equivalent	
	OR (MH "Students, Nursing") OR (MH "Students,	subjects	
	Health Occupations") OR (MH "Students, Allied	Search modes -	
S77	Health") OR (MH "Students, Midwifery") OR (MH	Boolean/Phrase	71,481





"Students, Nurse Midwifery") OR (MH "Students, Nursing, Associate") OR (MH "Students, Post-RN") OR (MH "Students, Nursing, Diploma Programs") OR (MH "Students, Nursing, Graduate") OR (MH "Students, Nursing, Doctoral") OR (MH "Students, Nursing, Masters") OR (MH "Students, Nursing, Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations				
OR (MH "Students, Nursing, Diploma Programs") OR (MH "Students, Nursing, Graduate") OR (MH "Students, Nursing, Doctoral") OR (MH "Students, Nursing, Masters") OR (MH "Students, Nursing, Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		"Students, Nurse Midwifery") OR (MH "Students,		
(MH "Students, Nursing, Graduate") OR (MH "Students, Nursing, Doctoral") OR (MH "Students, Nursing, Masters") OR (MH "Students, Nursing, Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		Nursing, Associate") OR (MH "Students, Post-RN")		
"Students, Nursing, Doctoral") OR (MH "Students, Nursing, Masters") OR (MH "Students, Nursing, Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		OR (MH "Students, Nursing, Diploma Programs") OR		
Nursing, Masters") OR (MH "Students, Nursing, Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		(MH "Students, Nursing, Graduate") OR (MH		
Male") OR (MH "Students, Nursing, Practical") OR (MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		"Students, Nursing, Doctoral") OR (MH "Students,		
(MH "Students, Pharmacy") OR (MH "Students, Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		Nursing, Masters") OR (MH "Students, Nursing,		
Podiatry") TI ("health care student" or "health care students" or "health occupations student" or "health occupations		Male") OR (MH "Students, Nursing, Practical") OR		
TI ("health care student" or "health care students" or "health occupations student" or "health occupations		(MH "Students, Pharmacy") OR (MH "Students,		
"health occupations student" or "health occupations		Podiatry")		
"health occupations student" or "health occupations		TI ("health care student" or "health care students" or		
students" or "healthcare student" or "healthcare		students" or "healthcare student" or "healthcare		
students" or "med school student" or "med school		students" or "med school student" or "med school		
students" or "med student" or "med students" or		students" or "med student" or "med students" or		
"medical school student" or "medical school students"		"medical school student" or "medical school students"		
or "medical student" or "medical students" or "nursing		or "medical student" or "medical students" or "nursing		
student" or "nursing students" or "pharmacy student" or		student" or "nursing students" or "pharmacy student" or		
"pharmacy students" or "physician assistant student" or Expanders - Apply equivalent		"pharmacy students" or "physician assistant student" or	Expanders - Apply equivalent	
"physician assistant students" or "premedical student" subjects		"physician assistant students" or "premedical student"	subjects	
or "premedical students" or "public health student" or Search modes -		or "premedical students" or "public health student" or	Search modes -	
S78 "public health students") Boolean/Phrase 25,149	S78	"public health students")	Boolean/Phrase	25,149
AB ("health care student" or "health care students" or		AB ("health care student" or "health care students" or		
"health occupations student" or "health occupations				
students" or "healthcare student" or "healthcare				
students" or "med school student" or "med school				
students" or "med students" or "med students" or				
"medical school student" or "medical school students"				
or "medical student" or "medical students" or "nursing				
student" or "nursing students" or "pharmacy student" or				
"pharmacy students" or "physician assistant student" or Expanders - Apply equivalent			Expanders - Apply equivalent	
"physician assistant students" or "premedical student" subjects				
or "premedical students" or "public health student" or Search modes -				
S79 "public health students") Boolean/Phrase 36,407	1	T T T T T T T T T T T T T T T T T T T		





	TI ("audiology student" or "audiology students" or		
	"dietetics student" or "dietetics students" or		
	"occupational therapy student" or "occupational therapy		
	students" or "paramedical student" or "paramedical		
	students" or "physical therapy student" or "physical		
	therapy students" or "respiratory therapy student" or		
	"respiratory therapy students") OR AB ("audiology		
	student" or "audiology students" or "dietetics student"		
	or "dietetics students" or "occupational therapy student"		
	or "occupational therapy students" or "paramedical	Expanders - Apply equivalent	
	student" or "paramedical students" or "physical therapy	subjects	
	student" or "physical therapy students" or "respiratory	Search modes -	
S80	therapy student" or "respiratory therapy students")	Boolean/Phrase	2,278
	TI (doctor or doctors or clinician# or "health care		
	professional" or "health care professionals" or "health		
	care provider" or "health care providers" or "health		
	personnel" or "healthcare professional" or "healthcare		
	professionals" or "healthcare provider" or "healthcare		
	providers" or "healthcare worker" or "healthcare		
	workers" or "medical staff" or nurse or nurses or		
	"nursing staff" or physician or physicians or surgeon#)		
	OR AB (doctor or doctors or clinician# or "health care		
	professional" or "health care professionals" or "health		
	care provider" or "health care providers" or "health		
	personnel" or "healthcare professional" or "healthcare		
	professionals" or "healthcare provider" or "healthcare	Expanders - Apply equivalent	
	providers" or "healthcare worker" or "healthcare	subjects	
	workers" or "medical staff" or nurse or nurses or	Search modes -	
S81	"nursing staff" or physician or physicians or surgeon#)	Boolean/Phrase	846,934
	TI ("health care labor force" or "health care labour		
	force" or "health care work force" or "health care	Expanders - Apply equivalent	
	workforce" or "health labor force" or "health labour	subjects	
	force" or "health manpower" or "health occupations	Search modes -	
S82	manpower" or "health work force" or "health	Boolean/Phrase	4,896





	workforce" or "healthcare labor force" or "healthcare		
	labour force" or "healthcare manpower" or "healthcare		
	work force" or "healthcare workforce" or "medical		
	manpower") OR AB ("health care labor force" or		
	"health care labour force" or "health care work force"		
	or "health care workforce" or "health labor force" or		
	"health labour force" or "health manpower" or "health		
	occupations manpower" or "health work force" or		
	"health workforce" or "healthcare labor force" or		
	"healthcare labour force" or "healthcare manpower" or		
	"healthcare work force" or "healthcare workforce" or		
	"medical manpower")		
	S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42		
	OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR		
	S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55		
	OR S56 OR S57 OR S58 OR S59 OR S60 OR S61 OR		
	S62 OR S63 OR S64 OR S65 OR S66 OR S67 OR S68	Expanders - Apply equivalent	
	OR S69 OR S70 OR S71 OR S72 OR S73 OR S74 OR	subjects	
	S75 OR S76 OR S77 OR S78 OR S79 OR S80 OR S81	Search modes -	
S83	OR S82	Boolean/Phrase	2,238,874
		Evenandore Apply agriculant	
		Expanders - Apply equivalent	
		subjects Search modes -	
004	C25 AND C02		1.050
S84	S35 AND S83	Boolean/Phrase	1,859
		Limiters - Published Date:	
		20170101-20231231; English	
		Language; Peer Reviewed	
		Expanders - Apply equivalent	
		subjects	
		Search modes -	
S85	S35 AND S83	Boolean/Phrase	660





Update search for recommendation questions #2 and #3:

Recommendation question #2: Should interactive education on pain assessment, prevention and management for students entering health professions be recommended or not?

Recommendation question #3: Should interactive education on pain assessment, prevention and management for health providers be recommended or not?

<u>Databases Searched</u>: Medline, Embase, Emcare, Cochrane Central, Cochrane Database of Systematic Reviews, PsycInfo and Cumulative Index to Nursing and Allied Health (CINAHL).

Dates searched: March 21, 2023 – July 31, 2024

MEDLINE(R) 1946 to July 31, 2024

Search Strategy:

#	Searches	Results
1	exp pain/dh, dt, nu, pc, rt, rh, th [Diet Therapy, Drug Therapy, Nursing, Prevention & Control, Radiotherapy, Rehabilitation]	179929
2	Pain Management/	42709
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	193019
4	or/1-3	320486
5	Computer Assisted Instruction/	12732
6	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kf.	707
7	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	2554
8	("e learn*" or elearn*).tw,kf.	5511
9	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kf.	280
10	((digital* or electronic or internet or online or "on line" or "web based" or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	65913
11	interactive tutorial/	276





12	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	11902
13	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	8289
14	webcast/	1154
15	videoconferencing/ or webcasts as topic/	2866
16	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kf.	10594
17	("video tutorial?" or videotutorial?).tw,kf.	506
18	Simulation Training/ or High Fidelity Simulation Training/ or Patient Simulation/	12329
19	Computer Simulation/ or Augmented Reality/	217832
20	simulat*.tw,kf.	757773
21	(vignette or vignettes).tw,kf.	15131
22	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kf.	6161
23	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kf.	179
24	virtual reality/	6790
25	("virtual reality" or "virtual realities" or "VR").tw,kf.	26623
26	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	5068
27	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	15794
28	InService Training/	20790
29	(inservice or "in service" or "on the job training" or "training on the job").tw,kf.	12917





		1
30	((case? or "case based") adj2 (discus* or conference* or learn* or tutorial*)).tw,kf.	25000
31	(group? adj2 discuss*).tw,kf.	29820
32	"lunch* and learn*".tw,kf.	48
33	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	5983
34	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	6891
35	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	5422
36	or/5-35	1100214
37	4 and 36	5985
38	exp "Attitude of Health Personnel"/	172931
39	exp Health Personnel/	638177
40	exp Personnel, Hospital/	96304
41	exp Health Occupations/	1895474
42	exp Patient Care Team/	73802
43	Social Work/	16618
44	Social Workers/	1208
45	Nurse's Role/	43342
46	Licensed Practical Nurses/	103
47	exp Nurses/	101032
48	exp Nursing Staff/	70693
49	Nursing Staff, Hospital/	48621
50	exp Nursing/	266450
51	Nursing, Practical/	3444
52	Health Educators/	500
53	exp Administrative Personnel/	42767
54	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	360847





55	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	22592
56	nurs*.tw,kf.	559868
57	(patient care? adj2 team?).tw,kf.	1199
58	(health* adj2 educator?).tw,kf.	4183
59	(social adj2 worker?).tw,kf.	13701
60	(support* adj2 (worker? or staff?)).tw,kf.	9322
61	practitioner?.tw,kf.	192193
62	Caregivers/	53899
63	(caregiver? or care-giver? or carer or carers).tw,kf.	121646
64	students, health occupations/ or students, medical/ or students, nursing/ or students, pharmacy/ or students, premedical/ or students, public health/	85189
65	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or med students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or premedical students or public health students or public health students).tw,kf.	85921
66	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical students or physical therapy students or respiratory therapy student or respiratory therapy students).tw,kf.	1488
67	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kf.	1570894
68	Health Workforce/	14782
69	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force	9300





	or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kf.	
70	or/38-69 [Students or Health Providers terms]	3914993
71	37 and 70	2453
72	limit 71 to english language	2367
73	limit 72 to ed=20230321-20240731	220
74	72 and ("20230320*" or "20230321*" or "20230322*" or "20230323*" or "20230324*" or "20230325*" or "20230326*" or "20230327*" or "20230328*" or "20230329*" or "20230330*" or "20230331*" or "202304*" or "202305*" or "202306*" or "202307*" or "202308*" or "202309*" or "202310*" or "202311*" or "202312*" or "2024*").dt.	299
75	73 or 74	339

Embase Classic+Embase 1947 to 2024 July 31 Search Strategy:

#	Searches	Results
1	("76" not "77").mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]	416413
2	exp pain/dm, dt, pc, rt, rh, th [Disease Management, Drug Therapy, Prevention, Radiotherapy, Rehabilitation, Therapy]	292465
3	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	283634
4	2 or 3	489639
5	Computer Assisted Instruction.ti.	384
6	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	943
7	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	3247
8	e-learning/	6772
9	virtual learning environment/	1225
10	("e learn*" or elearn*).tw,kw.	8040





11	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	335
12	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	90595
13	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	18717
14	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	9100
15	podcast/ or videoconferencing/ or web conferencing/ or webcast/ or webinar/	14261
16	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	15957
17	("video tutorial?" or videotutorial?).tw,kw.	673
18	simulation training/ or high fidelity simulation training/	11039
19	simulation/ or computer simulation/ or digital twin/ or discrete event simulation/ or high fidelity simulation/ or high-fidelity patient simulation/ or patient simulation/ or vignette/	431890
20	augmented reality/	3360
21	simulat*.tw,kw.	814588
22	(vignette or vignettes).tw,kw.	19458
23	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	6981
24	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	315
25	virtual reality/	29921
26	("virtual reality" or "virtual realities" or "VR").tw,kw.	35360
27	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	8557





28	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	22718
29	"in service training"/	17025
30	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	16420
31	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	44633
32	((group? or "group based") adj2 discuss*).tw,kw.	45471
33	"lunch* and learn*".tw,kw.	118
34	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	8273
35	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	12012
36	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	6643
37	or/5-36	1231247
38	4 and 37	9574
39	exp health personnel attitude/	214523
40	exp health care personnel/	2172565
41	exp hospital personnel/	161829
42	exp multidisciplinary team/	38198
43	social work/	32418
44	social worker/	18549
45	licensed practical nurse/	456
46	exp nurse/	236182
47	nursing staff/	80486
48	exp nursing/	426494
49	practical nursing/	192
50	exp health educator/	3877
51	exp administrative personnel/	36808





52	nurse attitude/	44360
53	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	461132
54	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	31389
55	nurs*.tw,kw.	677022
56	(patient care? adj2 team?).tw,kw.	940
57	(health* adj2 educator?).tw,kw.	4786
58	(social adj2 worker?).tw,kw.	23186
59	(support* adj2 (worker? or staff?)).tw,kw.	13139
60	practitioner?.tw,kw.	247877
61	caregiver/	125671
62	(caregiver? or care-giver? or carer or carers).tw,kw.	170950
63	health student/	2269
64	medical student/ or physician assistant student/	99573
65	premedical student/	189
66	public health student/	158
67	paramedical student/ or audiology student/ or dietetics student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/	12179
68	nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/	35612
69	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or premedical students or public health student or public health students).tw,kw.	110296
70	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy students or respiratory therapy student or respiratory therapy students).tw,kw.	1995





	(doctor or doctors or clinician? or health care professional or health care professionals or	
	health care provider or health care providers or health personnel or healthcare	
71	professional or healthcare professionals or healthcare provider or healthcare providers or	2218659
	healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing	
	staff or physician or physicians or surgeon?).tw,kw.	
72	health workforce/	4876
	(health care labor force or health care labour force or health care work force or health	
	care workforce or health labor force or health labour force or health manpower or health	
73	occupations manpower or health work force or health workforce or healthcare labor force	10200
	or healthcare labour force or healthcare manpower or healthcare work force or healthcare	
	workforce or medical manpower).tw,kw.	
74	or/39-73	4166975
75	38 and 74	3830
76	limit 75 to english language	3738
77	limit 76 to dc=20230321-20240731	552
70	limit 77 to (books or chapter or conference abstract or conference paper or "conference	140
78	review")	149
79	77 not 78	403

Emcare Nursing 1995 to Present

Search Strategy:

#	Searches	Results
1	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kf.	105974
2	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kf.	482
3	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	1776
4	e-learning/	2461
5	virtual learning environment/	220
6	("e learn*" or elearn*).tw,kf.	4042





7	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kf.	165
8	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	41142
9	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	7211
10	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	3538
11	podcast/ or videoconferencing/ or web conferencing/ or webcast/ or webinar/	3526
12	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kf.	6740
13	("video tutorial?" or videotutorial?).tw,kf.	113
14	simulation training/ or high fidelity simulation training/	2284
15	simulation/ or computer simulation/ or digital twin/ or discrete event simulation/ or high fidelity simulation/ or high-fidelity patient simulation/ or patient simulation/ or vignette/	85353
16	augmented reality/	588
17	simulat*.tw,kf.	178868
18	(vignette or vignettes).tw,kf.	9958
19	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kf.	2538
20	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kf.	136
21	virtual reality/	9921
22	("virtual reality" or "virtual realities" or "VR").tw,kf.	14288
23	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	2823





24	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	8942
25	in service training/	1854
26	(inservice or "in service" or "on the job training" or "training on the job").tw,kf.	8553
27	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kf.	9596
28	((group? or "group based") adj2 discuss*).tw,kf.	22600
29	"lunch* and learn*".tw,kf.	34
30	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	3930
31	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	4356
32	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kf.	4288
33	or/2-32	315500
34	1 and 33	2878
35	exp health personnel attitude/	45619
36	exp health care personnel/	763110
37	exp hospital personnel/	46357
38	exp multidisciplinary team/	4600
39	social work/	20941
40	social worker/	11491
41	licensed practical nurse/	283
42	exp nurse/	183517
43	nursing staff/	26879
44	exp nursing/	175084
45	practical nursing/	207
46	exp health educator/	2601
47	exp administrative personnel/	14727





48	nurse attitude/	15954
49	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	234972
50	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kf.	11432
51	nurs*.tw,kf.	357191
52	(patient care? adj2 team?).tw,kf.	1093
53	(health* adj2 educator?).tw,kf.	2946
54	(social adj2 worker?).tw,kf.	14974
55	(support* adj2 (worker? or staff?)).tw,kf.	7816
56	practitioner?.tw,kf.	121560
57	caregiver/	56408
58	(caregiver? or care-giver? or carer or carers).tw,kf.	93199
59	health student/	783
60	medical student/ or physician assistant student/	27822
61	premedical student/	45
62	health student/	783
62	health student/ paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or	783
62		783 5315
	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or	
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical	5315
	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/	
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male	5315
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or med school student	5315
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or med school student or med school student or med school student or med school student or	5315 22542
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or healthcare students or med school student or med school student or medical school student or medical school student or medical students or nursing student or	5315
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school student or medical school student or medical school students or medical students or nursing student or nursing students or physician assistant student	5315 22542
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ or graduate nursing student/ or male nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school student or medical school student or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or public	5315 22542
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school student or medical school student or medical school student or nursing students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students or public health students).tw,kf.	5315 22542
63	paramedical student/ or allied health student/ or audiology student/ or dietetics student/ or midwifery student/ or occupational therapy student/ or pharmacy student/ or physical therapy student/ or respiratory therapy student/ or graduate nursing student/ or male nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male nursing student/ (health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school student or medical school student or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or public	5315 22542





	paramedical students or physical therapy student or physical therapy students or	
	respiratory therapy student or respiratory therapy students).tw,kf.	
	(doctor or doctors or clinician? or health care professional or health care professionals or	
	health care provider or health care providers or health personnel or healthcare	
67	professional or healthcare professionals or healthcare provider or healthcare providers or	806360
	healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing	
	staff or physician or physicians or surgeon?).tw,kf.	
68	health workforce/	2009
	(health care labor force or health care labour force or health care work force or health	
	care workforce or health labor force or health labour force or health manpower or health	
69	occupations manpower or health work force or health workforce or healthcare labor force	6350
	or healthcare labour force or healthcare manpower or healthcare work force or healthcare	
	workforce or medical manpower).tw,kf.	
70	or/35-69	1460010
71	34 and 70	1246
72	limit 71 to english language	1205
73	limit 72 to dc=20230321-20240731	182
7.4	limit 73 to (book or chapter or conference abstract or conference paper or "conference	2
74	review")	3
75	73 not 74	179

$\textbf{EBM Reviews - Cochrane Central Register of Controlled Trials} \ June \ 2024$

Search Strategy:

#	Searches	Results
1	pain management/	5901
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	79125
3	1 or 2	81053
4	Computer-Assisted Instruction/	1485
5	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	258





6	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	1147
7	("e learn*" or elearn*).tw,kw.	1280
8	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	90
9	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	18420
10	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	3422
11	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	906
12	webcast/	0
13	videoconferencing/ or webcasts as topic/	332
14	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	2963
15	("video tutorial?" or videotutorial?).tw,kw.	87
16	simulation training/ or high fidelity simulation training/ or patient simulation/	1675
17	computer simulation/ or augmented reality/	2862
18	simulat*.tw,kw.	25063
19	(vignette or vignettes).tw,kw.	1761
20	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	661
21	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	82
22	virtual reality/	1139
23	("virtual reality" or "virtual realities" or "VR").tw,kw.	8069





("hands on" adj5 (class or classes or course? or education* or learn* or practice* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?").tw,kw. (practical adj5 (class or classes or course? or education* or learn* or lesson? or program* shop?").tw,kw. 1826 1826 1826 1826 1827 1826 1826 1826 1826 1827 1826 1826 1827 1826 1827 1826			
25 or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 26 Inservice Training/ 27 (inservice or "in service" or "on the job training" or "training on the job").tw,kw. 28 ((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw. 29 ((group? or "group based") adj2 discuss*).tw,kw. 4646 30 "lunch* and learn*".tw,kw. ("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 34 or/4-33 35 3 and 34 36 exp "attitude of health personnel"/ 37 exp Health Personnel/ 38 exp Personnel, Hospital/ 39 exp Health Occupations/ 40 exp Patient Care Team/ 41 Social Work/ 42 Social Workers/ 43 Nurse's Role/ 44 Licensed Practical Nurses/	24	program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	751
27 (inservice or "in service" or "on the job training" or "training on the job").tw,kw. 767	25	or seminar? or session* or teach* or train* or tutor* or workshop? or "work	1826
28 ((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw. 867 29 ((group? or "group based") adj2 discuss*).tw,kw. 4646 30 "lunch* and learn*".tw,kw. 14 ("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 3971 (didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 1099 (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 513 34 or/4-33 67884 35 3 and 34 2545 36 exp "attitude of health personnel"/ 3357 37 exp Health Personnel/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Patient Care Team/ 2298 41 Social Work 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44	26	Inservice Training/	876
29 ((group? or "group based") adj2 discuss*).tw,kw. 14 ("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 34 or/4-33 67844 2545 3 and 34 2545 34 exp "attitude of health personnel"/ 3357 2545 45 exp "attitude of health personnel"/ 3357 254 2541 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 Licensed Practical Nurses/ 1 Licensed Practical Nurses/	27	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	767
30"lunch* and learn*".tw,kw.14("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.397131(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.109932(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.51334or/4-3367884353 and 34254536exp "attitude of health personnel"/335737exp Health Personnel/1539238exp Personnel, Hospital/116139exp Health Occupations/3582740exp Patient Care Team/229841Social Work/23542Social Workers/4843Nurse's Role/61744Licensed Practical Nurses/1	28	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	867
("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or shop?")).tw,kw. (didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 34 or/4-33	29	((group? or "group based") adj2 discuss*).tw,kw.	4646
31 program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 32 program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 33 and 34 cor/4-33 cory "attitude of health personnel"/ 34 exp "attitude of health personnel"/ 35 and 34 cory "attitude of health personnel"/ 36 exp "attitude of health Personnel/ 37 exp Health Personnel/ 38 exp Personnel, Hospital/ 39 exp Personnel, Hospital/ 40 exp Patient Care Team/ 41 Social Work/ 42 Social Workers/ 48 Al Nurse's Role/ 44 Licensed Practical Nurses/ 1099	30	"lunch* and learn*".tw,kw.	14
32 program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. (experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 34 or/4-33 6ry attitude of health personnel"/ 3357 36 exp "attitude of health personnel"/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	31	program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	3971
33 program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw. 513 34 or/4-33 67884 35 3 and 34 2545 36 exp "attitude of health personnel"/ 3357 37 exp Health Personnel/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	32	program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	1099
35 3 and 34 2545 36 exp "attitude of health personnel"/ 3357 37 exp Health Personnel/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	33	program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	513
36 exp "attitude of health personnel"/ 3357 37 exp Health Personnel/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	34	or/4-33	67884
37 exp Health Personnel/ 15392 38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	35	3 and 34	2545
38 exp Personnel, Hospital/ 1161 39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	36	exp "attitude of health personnel"/	3357
39 exp Health Occupations/ 35827 40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	37	exp Health Personnel/	15392
40 exp Patient Care Team/ 2298 41 Social Work/ 235 42 Social Workers/ 43 Nurse's Role/ 44 Licensed Practical Nurses/ 1	38	exp Personnel, Hospital/	1161
41 Social Work/ 235 42 Social Workers/ 43 Nurse's Role/ 44 Licensed Practical Nurses/ 1	39	exp Health Occupations/	35827
42 Social Workers/ 48 43 Nurse's Role/ 617 44 Licensed Practical Nurses/ 1	40	exp Patient Care Team/	2298
43 Nurse's Role/ 44 Licensed Practical Nurses/ 517 1	41	Social Work/	235
44 Licensed Practical Nurses/ 1	42	Social Workers/	48
	43	Nurse's Role/	617
45 exp Nurses/	44	Licensed Practical Nurses/	1
	45	exp Nurses/	1754





46	exp Nursing Staff/	852
47	Nursing Staff, Hospital/	572
48	exp Nursing/	4330
49	Nursing, Practical/	14
50	Health Educators/	33
51	exp Administrative Personnel/	151
52	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	29387
53	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	2343
54	nurs*.tw,kw.	55427
55	(patient care? adj2 team?).tw,kw.	63
56	(health* adj2 educator?).tw,kw.	594
57	(social adj2 worker?).tw,kw.	1615
58	(support* adj2 (worker? or staff?)).tw,kw.	913
59	practitioner?.tw,kw.	18149
60	Caregivers/	3803
61	(caregiver? or care-giver? or carer or carers).tw,kw.	23071
62	students, health occupations/ or students, medical/ or students, nursing/ or students, pharmacy/ or students, premedical/ or students, public health/	2806
63	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students or public health students).tw,kw.	7380
64	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical students or physical therapy student or physical therapy students or respiratory therapy students or respiratory therapy students).tw,kw.	209





65	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kw.	155632
66		34
67	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kw.	139
68	or/36-67	240705
69	35 and 68	876
70	limit 69 to english language	873
71	limit 70 to yr="2023 -Current"	146

EBM Reviews - Cochrane Database of Systematic Reviews 2005 to July 31, 2024 Search Strategy:

#	Searches	Results
1	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,kw.	2057
2	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,kw.	45
3	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	59
4	("e learn*" or elearn*).tw,kw.	44
5	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,kw.	3
6	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	1045





7	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	175
8	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	30
9	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or webinar* or webcast* or "web cast*").tw,kw.	173
10	simulat*.tw,kw.	469
11	(vignette or vignettes).tw,kw.	43
12	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,kw.	9
13	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,kw.	0
14	("virtual reality" or "virtual realities" or "VR").tw,kw.	147
15	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	27
16	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	75
17	(inservice or "in service" or "on the job training" or "training on the job").tw,kw.	125
18	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,kw.	101
19	((group? or "group based") adj2 discuss*).tw,kw.	278
20	"lunch* and learn*".tw,kw.	1
21	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	240





22	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	76
23	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,kw.	27
24	or/2-23	2100
25	1 and 24	364
26	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	3216
27	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,kw.	236
28	nurs*.tw,kw.	3410
29	(patient care? adj2 team?).tw,kw.	67
30	(health* adj2 educator?).tw,kw.	57
31	(social adj2 worker?).tw,kw.	240
32	(support* adj2 (worker? or staff?)).tw,kw.	154
33	practitioner?.tw,kw.	1910
34	(caregiver? or care-giver? or carer or carers).tw,kw.	2278
35	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy student or pharmacy students or physician assistant student or physician assistant students or premedical students or public health students).tw,kw.	131
36	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy student or physical therapy students or respiratory therapy student or respiratory therapy students).tw,kw.	6
37	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare providers or healthcare providers or healthcare	7980





	worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,kw.	
38	(health care labor force or health care labour force or health care work force or health care workforce or health labor force or health labour force or health manpower or health occupations manpower or health work force or health workforce or healthcare labor force or healthcare labour force or healthcare manpower or healthcare work force or healthcare workforce or medical manpower).tw,kw.	53
39	or/26-38	8904
40	25 and 39	348
41	limit 40 to full systematic reviews	292
42	from 41 keep 1, 3-4, 6-10, 13-14, 16-18, 20	55

APA PsycInfo 1806 to July Week 4 2024 Search Strategy:

#	Searches	Results
1	pain management/	11968
2	((manage* or managing or relief or relieve or relieves or reduce or reduces or reduced or reducing or treats or treating or treatment or treatments) adj5 (pain or pains or painful)).tw,id.	31326
3	1 or 2	33443
4	computer assisted instruction/ or computer supported collaborative learning/ or exp electronic learning/ or intelligent tutoring systems/	26575
5	("computer* assisted instruction" or "computer* programmed instruction" or "computer* programmed instruction" or "computer* self instruction").tw,id.	1829
6	("computer based" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3303
7	electronic learning/ or mobile learning/	6027
8	("e learn*" or elearn*).tw,id.	4653
9	("e-education*" or "e-school*" or "e-program*" or "e-train*").tw,id.	223
10	((digital* or electronic or internet or online or "on line" or web or virtual*) adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	50280





	((interactive* or "inter active*") adj5 (class or classes or course? or education* or learn* or media or program* or seminar? or session* or teach* or train* or tutor* or workshop?	9100
	or "work shop?")).tw,id.	
12	((blended or hybrid) adj5 (class or classes or course? or education* or learn* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	4592
	blended learning/	1050
	videoconferencing/	1063
	(podcast* or "pod cast*" or "streaming video?" or videoteleconf* or "video teleconf*" or	1003
	videoconferenc* or "video conferenc*" or "web conferenc*" or webconferenc* or	5136
	webinar* or webcast* or "web cast*").tw,id.	
	("video tutorial?" or videotutorial?).tw,id.	81
17	computer simulation/ or simulation games/	31941
18	augmented reality/ or role playing games/	1859
19	simulat*.tw,id.	83649
20	(vignette or vignettes).tw,id.	24133
21	("augmented realities" or "augmented reality" or "mixed realities" or "mixed reality").tw,id.	2062
22	("hfps based learning" or "hfps learning" or "hfps training" or "hfs based course" or "hfs based teamwork training" or "hfs based training" or "hfs training" or "high fidelity manikin" or "high fidelity mannequin" or "high fidelity manakin").tw,id.	28
23	virtual reality/	12449
24	("virtual reality" or "virtual realities" or "VR").tw,id.	12173
25	("hands on" adj5 (class or classes or course? or education* or learn* or practic* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	2021
	(practical adj5 (class or classes or course? or education* or learn* or lesson? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work	12096
	shop?")).tw,id.	12070
	inservice training/	734
28	(inservice or "in service" or "on the job training" or "training on the job").tw,id.	14859





29	((case? or "case based") adj2 (discuss* or conference* or learn* or tutorial*)).tw,id.	9704
30	group discussion/ or debates/	7068
31	((group? or "group based") adj2 discuss*).tw,id.	20284
32	"lunch* and learn*".tw,id.	26
33	("face to face" adj5 (class or classes or course? or education* or learn* or presentation* or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	4624
34	(didactic* adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	3306
35	(experiential adj5 (class or classes or course? or education* or learn* or presentation? or program* or seminar? or session* or teach* or train* or tutor* or workshop? or "work shop?")).tw,id.	7260
36	or/4-35	273791
37	3 and 36	1272
38	exp health personnel attitudes/	29671
39	exp health personnel/	203576
40	social casework/	22087
41	social workers/	15514
42	exp nurses/	40848
43	nursing/	28678
44	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,id.	126667
45	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or occupation? or practitioner? or worker?)).tw,id.	6555
46	nurs*.tw,id.	126296
47	(patient care? adj2 team?).tw,id.	184
48	(health* adj2 educator?).tw,id.	2445
49	(social adj2 worker?).tw,id.	30884
50	(support* adj2 (worker? or staff?)).tw,id.	7012
51	practitioner?.tw,id.	115168
52	caregivers/	39895
		10,000





53	(caregiver? or care-giver? or carer or carers).tw,id.	79586
54	medical students/	15675
55	nursing students/	7321
56	(health care student or health care students or health occupations student or health occupations students or healthcare student or healthcare students or med school student or med school students or medical school student or medical school students or medical students or nursing student or nursing students or pharmacy student or pharmacy students or physician assistant student or physician assistant students or public health students).tw,id.	26141
57	(audiology student or audiology students or dietetics student or dietetics students or occupational therapy student or occupational therapy students or paramedical student or paramedical students or physical therapy students or respiratory therapy students or therapy students).tw,id.	1047
58	(doctor or doctors or clinician? or health care professional or health care professionals or health care provider or health care providers or health personnel or healthcare professional or healthcare professionals or healthcare provider or healthcare providers or healthcare worker or healthcare workers or medical staff or nurse or nurses or nursing staff or physician or physicians or surgeon?).tw,id.	314553
59	("health care labor force" or "health care labour force" or "health care work force" or "health care workforce" or "health labor force" or "health labour force" or "health manpower" or "health occupations manpower" or "health work force" or "health workforce" or "healthcare labor force" or "healthcare labour force" or "healthcare manpower" or "healthcare work force" or "healthcare workforce" or "medical manpower").tw,id.	1906
60	or/38-59	664979
61	37 and 60	558
62	limit 61 to english language	544
63	limit 62 to yr="2023 -Current"	29
64	limit 63 to (chapter or dissertation or review-book or review-media or review-software & other)	6
65	63 not 64	23





CINAHL

#	Query	Limiters/Expanders	Results
		Expanders - Apply equivalent subjects	
S1	(MH "Pain+/DH/DT/NU/PC/RT/RH/TH")	Search modes - Proximity	111,352
		Expanders - Apply equivalent subjects	,
S2	(MH "Pain Management")	Search modes - Proximity	17,202
	TI ((manage* or managing or relief or	,	,
	relieve or relieves or reduce or reduces or		
	reduced or reducing or treats or treating or		
	treatment or treatments) N4 (pain or pains or		
	painful)) OR AB ((manage* or managing or		
	relief or relieve or relieves or reduce or		
	reduces or reduced or reducing or treats or		
G 2	treating or treatment or treatments) N4 (pain	Expanders - Apply equivalent subjects	04.607
S3	or pains or painful))	Search modes - Proximity	84,607
		Expanders - Apply equivalent subjects	
S4	S1 OR S2 OR S3	Search modes - Proximity	160,039
		Expanders - Apply equivalent subjects	
S5	(MH "Computer Assisted Instruction")	Search modes - Proximity	9,187
	TI ("computer* assisted instruction" or		
	"computer* programmed instruction" or		
	"computer* programmed instruction" or		
	"computer* self instruction") OR AB		
	("computer* assisted instruction" or		
	"computer* programmed instruction" or		
	"computer* programmed instruction" or	Expanders - Apply equivalent subjects	
S 6	"computer* self instruction")	Search modes - Proximity	331
	TI ("computer based" N4 (class or classes or		
	course# or education* or learn* or		
	presentation* or program* or seminar# or		
	session* or teach* or train* or tutor* or	Farmendon A. 1	
a=	workshop# or "work shop#")) OR AB	Expanders - Apply equivalent subjects	1.050
S 7	("computer based" N4 (class or classes or	Search modes - Proximity	1,253





	course# or education* or learn* or		
	presentation* or program* or seminar# or		
	session* or teach* or train* or tutor* or		
	workshop# or "work shop#"))		
		Expanders - Apply equivalent subjects	
S 8	(MH "Online Education")	Search modes - Proximity	5,347
	TI ("e learn*" or elearn*) OR AB ("e learn*"	Expanders - Apply equivalent subjects	
S 9	or elearn*)	Search modes - Proximity	2,990
	TI ("e-education*" or "e-school*" or "e-		
	program*" or "e-train*") OR AB		
	("e-education*" or "e-school*" or "e-	Expanders - Apply equivalent subjects	
S10	program*" or "e-train*")	Search modes - Proximity	327
	TI ((digital* or electronic or internet or	,	
	online or "on line" or web or virtual*) N4		
	(class or classes or course# or education* or		
	learn* or presentation* or program* or		
	seminar# or session* or teach* or train* or		
	tutor* or workshop# or "work shop#")) OR		
	AB ((digital* or electronic or internet or		
	online or "on line" or web or virtual*) N4		
	(class or classes or course# or education* or		
	learn* or presentation* or program* or		
	seminar# or session* or teach* or train* or	Expanders - Apply equivalent subjects	
S11	tutor* or workshop# or "work shop#"))	Search modes - Proximity	34,842
~11			2 .,3 .2
	TI ((interactive* or "inter active*") N4 (class		
	or classes or course# or education* or learn*		
	or media or program* or seminar# or session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB		
	((interactive* or "inter active*") N4 (class or		
	classes or course# or education* or learn* or		
	media or program* or seminar# or session*		
G12	or teach* or train* or tutor* or workshop# or	Expanders - Apply equivalent subjects	5 500
S12	"work shop#"))	Search modes - Proximity	5,530





	TI ((blended or hybrid) N4 (class or classes		
	or course# or education* or learn* or		
	program* or seminar# or session* or teach*		
	or train* or tutor* or workshop# or "work		
	shop#")) OR AB ((blended or hybrid) N4		
	(class or classes or course# or education* or		
	learn* or program* or seminar# or session*		
	or teach* or train* or tutor* or workshop# or	Expanders - Apply equivalent subjects	
S13	"work shop#"))	Search modes - Proximity	2,296
	(MH "Videoconferencing") OR (MH	Expanders - Apply equivalent subjects	
S14	"Webcasts") OR (MH "Webinars")	Search modes - Proximity	7,245
	TI (podcast* or "pod cast*" or "streaming		
	video#" or videoteleconf* or "video		
	teleconf*" or videoconferenc* or "video		
	conferenc*" or "web conferenc*" or		
	webconferenc* or webinar* or webcast* or		
	"web cast*") OR AB (podcast* or "pod		
	cast*" or "streaming video#" or		
	videoteleconf* or "video teleconf*" or		
	videoconferenc* or "video conferenc*" or		
	"web conferenc*" or webconferenc* or	Expanders - Apply equivalent subjects	
S15	webinar* or webcast* or "web cast*")	Search modes - Proximity	6,326
	TI ("video tutorial#" or videotutorial#) OR	Expanders - Apply equivalent subjects	
S16	AB ("video tutorial#" or videotutorial#)	Search modes - Proximity	96
	(MH "Simulations") OR (MH "Computer		
	Simulation") OR (MH "Augmented		
	Reality") OR (MH "Patient Simulation") OR	Expanders - Apply equivalent subjects	
S17	(MH "Vignettes")	Search modes - Proximity	50,620
		Expanders - Apply equivalent subjects	
S18	TI simulat* OR AB simulat*	Search modes - Proximity	71,169
	TI (vignette or vignettes) OR AB (vignette	Expanders - Apply equivalent subjects	
S19	or vignettes)	Search modes - Proximity	7,111





		T	
	TI ("augmented realities" or "augmented		
	reality" or "mixed realities" or "mixed		
	reality") OR AB ("augmented realities" or		
	"augmented reality" or "mixed realities" or	Expanders - Apply equivalent subjects	
S20	"mixed reality")	Search modes - Proximity	1,386
	TI ("hfps based learning" or "hfps learning"		
	or "hfps training" or "hfs based course" or		
	"hfs based teamwork training" or "hfs based		
	training" or "hfs training" or "high fidelity		
	manikin" or "high fidelity mannikin" or		
	"high fidelity mannequin" or "high fidelity		
	manakin") OR AB ("hfps based learning" or		
	"hfps learning" or "hfps training" or "hfs		
	based course" or "hfs based teamwork		
	training" or "hfs based training" or "hfs		
	training" or "high fidelity manikin" or "high		
	fidelity mannikin" or "high fidelity	Expanders - Apply equivalent subjects	
S21	mannequin" or "high fidelity manakin")	Search modes - Proximity	102
		Expanders - Apply equivalent subjects	
S22	(MH "Virtual Reality")	Search modes - Proximity	6,124
	TI ("virtual reality" or "virtual realities" or		
	"VR") OR AB ("virtual reality" or "virtual	Expanders - Apply equivalent subjects	
S23	realities" or "VR")	Search modes - Proximity	8,394
	TI ("hands on" N4 (class or classes or		
	course# or education* or learn* or practic*		
	or program* or seminar# or session* or		
	teach* or train* or tutor* or workshop# or		
	"work shop#")) OR AB ("hands on" N4		
	(class or classes or course# or education* or		
	learn* or practic* or program* or seminar#		
1		1	
	or session* or teach* or train* or tutor* or	Expanders - Apply equivalent subjects	
S24	or session* or teach* or train* or tutor* or workshop# or "work shop#"))	Expanders - Apply equivalent subjects Search modes - Proximity	2,691
S24		Search modes - Proximity	2,691
S24 S25	workshop# or "work shop#"))		2,691 6,780





	program* or seminar# or session* or teach*		
	or train* or tutor* or workshop# or "work		
	shop#")) OR AB (practical N4 (class or		
	classes or course# or education* or learn* or		
	lesson# or program* or seminar# or session*		
	or teach* or train* or tutor* or workshop# or		
	"work shop#"))		
		Expanders - Apply equivalent subjects	
S26	(MH "Staff Development")	Search modes - Proximity	28,953
	TI (inservice or "in service" or "on the job		
	training" or "training on the job") OR AB		
	(inservice or "in service" or "on the job	Expanders - Apply equivalent subjects	
S27	training" or "training on the job")	Search modes - Proximity	8,370
	TI ((case# or "case based") N1 (discuss* or		
	conference* or learn* or tutorial*)) OR AB		
	((case# or "case based") N1 (discuss* or	Expanders - Apply equivalent subjects	
S28	conference* or learn* or tutorial*))	Search modes - Proximity	6,516
	TI ((group# or "group based") N1 discuss*)		,
	OR AB ((group# or "group based") N1	Expanders - Apply equivalent subjects	
S29	discuss*)	Search modes - SmartText Searching	1,206
527	•		1,200
620	TI ("lunch* and learn*") OR AB ("lunch*	Expanders - Apply equivalent subjects	4.6
S30	and learn*")	Search modes - Proximity	46
	TI ("face to face" N4 (class or classes or		
	course# or education* or learn* or		
	presentation* or program* or seminar# or		
	session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB ("face		
	to face" N4 (class or classes or course# or		
	education* or learn* or presentation* or		
	program* or seminar# or session* or teach*		
	or train* or tutor* or workshop# or "work	Expanders - Apply equivalent subjects	
S31	shop#"))	Search modes - Proximity	3,209





		T	
	TI (didactic* N4 (class or classes or course#		
	or education* or learn* or presentation# or		
	program* or seminar# or session* or teach*		
	or train* or tutor* or workshop# or "work		
	shop#")) OR AB (didactic* N4 (class or		
	classes or course# or education* or learn* or		
	presentation# or program* or seminar# or		
	session* or teach* or train* or tutor* or	Expanders - Apply equivalent subjects	
S32	workshop# or "work shop#"))	Search modes - Proximity	3,055
	TI (experiential N4 (class or classes or		
	course# or education* or learn* or		
	presentation# or program* or seminar# or		
	session* or teach* or train* or tutor* or		
	workshop# or "work shop#")) OR AB		
	(experiential N4 (class or classes or course#		
	or education* or learn* or presentation# or		
	program* or seminar# or session* or teach*		
	or train* or tutor* or workshop# or "work	Expanders - Apply equivalent subjects	
S33	shop#"))	Search modes - Proximity	3,521
	S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR		
	S11 OR S12 OR S13 OR S14 OR S15 OR		
	S16 OR S17 OR S18 OR S19 OR S20 OR		
	S21 OR S22 OR S23 OR S24 OR S25 OR		
	S26 OR S27 OR S28 OR S29 OR S30 OR	Expanders - Apply equivalent subjects	
S34	S31 OR S32 OR S33	Search modes - Proximity	212,148
		Expanders - Apply equivalent subjects	
S35	S4 AND S34	Search modes - Proximity	3,517
		Expanders - Apply equivalent subjects	
S36	(MH "Attitude of Health Personnel+")	Search modes - Proximity	134,342
		Expanders - Apply equivalent subjects	,
S37	(MH "Health Personnel+")	Search modes - Proximity	669,116
551	Title Title Total Total Title	•	557,110
620	(MII "Daggarnal Hoolth Eastlites "	Expanders - Apply equivalent subjects	56 656
S38	(MH "Personnel, Health Facility+")	Search modes - Proximity	56,656





			1
		Expanders - Apply equivalent subjects	
S39	(MH "Health Occupations+")	Search modes - Proximity	972,142
		Expanders - Apply equivalent subjects	
S40	(MH "Multidisciplinary Care Team+")	Search modes - Proximity	54,606
		Expanders - Apply equivalent subjects	
S41	(MH "Social Work+")	Search modes - Proximity	16,209
		Expanders - Apply equivalent subjects	
S42	(MH "Social Workers")	Search modes - Proximity	12,208
		Expanders - Apply equivalent subjects	
S43	(MH "Nursing Role")	Search modes - Proximity	66,574
	(MH "Practical Nurses") OR (MH "Practical	Expanders - Apply equivalent subjects	
S44	Nursing")	Search modes - Proximity	7,548
		Expanders - Apply equivalent subjects	
S45	(MH "Nurses+")	Search modes - Proximity	243,644
		Expanders - Apply equivalent subjects	
S46	(MH "Nursing Staff, Hospital")	Search modes - Proximity	27,774
		Expanders - Apply equivalent subjects	
S47	(MH "Health Educators+")	Search modes - Proximity	4,245
		Expanders - Apply equivalent subjects	
S48	(MH "Administrative Personnel+")	Search modes - Proximity	40,623
	TI (health* N2 provider#) OR AB (health*	Expanders - Apply equivalent subjects	
S49	N2 provider#)	Search modes - Proximity	57,611
	TI (hospital* N2 provider#) OR AB	Expanders - Apply equivalent subjects	
S50	(hospital* N2 provider#)	Search modes - Proximity	1,764
	TI (health* N2 staff#) OR AB (health* N2	Expanders - Apply equivalent subjects	
S51	staff#)	Search modes - Proximity	8,842
	TI (hospital* N2 staff#) OR AB (hospital*	Expanders - Apply equivalent subjects	
S52	N2 staff#)	Search modes - Proximity	5,785
	TI (health* N2 personnel#) OR AB (health*	Expanders - Apply equivalent subjects	
S53	N2 personnel#)	Search modes - Proximity	5,467
	TI (hospital* N2 personnel#) OR AB	Expanders - Apply equivalent subjects	
S54	(hospital* N2 personnel#)	Search modes - Proximity	1,155





TI (health* N2 employe*) OR AB (health* Search modes - Proximity 6,610 TI (hospital* N2 employe*) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 1,947 TI (hospital* N2 employe*) Search modes - Proximity 1,947 TI (health* N2 profession*) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity 102,795 TI (hospital* N2 profession*) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 102,795 TI (hospital* N2 profession*) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 2,074 TI (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 1,019 TI (hospital* N2 occupation#) Search modes - Proximity 1,019 TI (hospital* N2 occupation#) Search modes - Proximity 59 TI (health* N2 practitioner#) Search modes - Proximity 59 TI (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 11,543 TI (hospital* N2 practitioner#) Search modes - Proximity 11,543 TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 11 (hospital* N2 practitioner#) Search modes - Proximity 11 (hospital* N2 practitioner#) Search modes - Proximity 11 (hospital* N2 practitioner#) Search modes - Proximity 910 TI (hospital* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity 35,218 TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 50 (hospital* N2 worker#) Searc			T	
TI (hospital* N2 employe*) OR AB S56 (hospital* N2 employe*) TI (health* N2 profession*) OR AB (health* S57 N2 profession*) TI (hospital* N2 profession*) OR AB TI (hospital* N2 profession*) OR AB S58 (hospital* N2 profession*) TI (hospital* N2 occupation#) OR AB S59 (health* N2 occupation#) TI (hospital* N2 occupation#) TI (hospital* N2 occupation#) TI (hospital* N2 occupation#) TI (hospital* N2 practitioner#) TI (hospital* N2 worker#) Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,610 Expanders - Apply equivalent subjects Search mod		TI (health* N2 employe*) OR AB (health*	Expanders - Apply equivalent subjects	
S56 (hospital* N2 employe*) TI (health* N2 profession*) OR AB (health* Expanders - Apply equivalent subjects S57 N2 profession*) TI (hospital* N2 profession*) OR AB Expanders - Apply equivalent subjects S68 (hospital* N2 profession*) TI (hospital* N2 profession*) TI (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S69 (hospital* N2 profession*) TI (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S60 (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects S60 (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S61 (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S62 (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S63 N2 worker#) OR AB (health* Expanders - Apply equivalent subjects S64 (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects S65 TI nurs* OR AB nurs* Search modes - Proximity 1,619 Expanders - Apply equivalent subjects S65 TI nurs* OR AB nurs* Search modes - Proximity 600 TI (patient care# N2 team#) OR AB (patient S66 care# N2 team#) OR AB (patient S67 N2 educator#) OR AB (health* S67 N2 educator#) OR AB (health* S68 Search modes - Proximity 600 TI (health* N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S67 N2 educator#) OR AB (social N2 Expanders - Apply equivalent subjects S68 worker#) Search modes - Proximity 15,439 TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S68 worker#) Search modes - Proximity 15,439 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or st	S55	N2 employe*)	Search modes - Proximity	6,610
TI (health* N2 profession*) OR AB (health* Search modes - Proximity TI (hospital* N2 profession*) TI (hospital* N2 profession*) TI (hospital* N2 profession*) Search modes - Proximity TI (hospital* N2 profession*) Search modes - Proximity TI (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 occupation#) TI (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 occupation#) TI (hospital* N2 occupation#) TI (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) Search modes - Proximity TI (hospital* N2 practitioner#) Search modes - Proximity TI (hospital* N2 practitioner#) TI (hospital* N2 worker#) OR AB Search modes - Proximity TI (hospital* N2 worker#) OR AB (health* Search modes - Proximity TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) TI (hospital* N2 worker#) Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 614,813 TI (patient care# N2 team#) OR AB (patient TI (patient care# N2 team#) OR AB (patient TI (hospital* N2 educator#) OR AB (health*) Search modes - Proximity TI (social N2 worker#) OR AB (health*) Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity Sear		TI (hospital* N2 employe*) OR AB	Expanders - Apply equivalent subjects	
S57 N2 profession*) TI (hospital* N2 profession*) OR AB Expanders - Apply equivalent subjects S58 (hospital* N2 profession*) OR AB Expanders - Apply equivalent subjects S59 (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S59 (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S60 (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects S60 (hospital* N2 occupation#) TI (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S62 (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S63 (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S64 (hospital* N2 practitioner#) TI (health* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects S65 N2 worker#) TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects S66 (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects S67 N2 worker#) Expanders - Apply equivalent subjects S68 (hospital* N2 worker#) Expanders - Apply equivalent subjects S69 TI nurs* OR AB nurs* Expanders - Apply equivalent subjects S60 Care# N2 team#) TI (patient care# N2 team#) OR AB (patient Expanders - Apply equivalent subjects S61 N2 educator#) TI (hoalth* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects S61 N2 educator#) TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S68 worker#) TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S	S56	(hospital* N2 employe*)	Search modes - Proximity	1,947
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S58 (hospital* N2 profession*) TI (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S59 (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects S60 (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S61 (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S62 (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects S63 (hospital* N2 practitioner#) Expanders - Apply equivalent subjects S64 (hospital* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects S65 (hospital* N2 worker#) Expanders - Apply equivalent subjects S66 (hospital* N2 worker#) Expanders - Apply equivalent subjects S67 (hospital* N2 worker#) Expanders - Apply equivalent subjects S68 (hospital* N2 worker#) Expanders - Apply equivalent subjects S69 (Inspital* N2 worker#) Expanders - Apply equivalent subjects S60 (Inspital* N2 worker#) Expanders - Apply equivalent subjects S61 (Inspital* N2 worker#) Expanders - Apply equivalent subjects S62 (Inspital* N2 team#) Expanders - Apply equivalent subjects S63 (Inspital* N2 team#) Expanders - Apply equivalent subjects S64 (are# N2 team#) Expanders - Apply equivalent subjects S65 (N2 educator#) Expanders - Apply equivalent subjects S66 (are# N2 team#) Expanders - Apply equivalent subjects S67 (N2 educator#) Expanders - Apply equivalent subjects S68 (worker#) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#))	S57	N2 profession*)	Search modes - Proximity	102,795
TI (health* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 occupation#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (health* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) Expanders - Apply equivalent subjects Search modes - Proximity TI (patient care# N2 team#) OR AB (patient TI (patient care# N2 team#) OR AB (patient TI (health* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social		TI (hospital* N2 profession*) OR AB	Expanders - Apply equivalent subjects	
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TI (hospital* N2 occupation#) OR AB (hospital* N2 occupation#) OR AB TI (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (health* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) TI (health* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) OR AB TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) Expanders - Apply equivalent subjects Search modes - Proximity TI (patient care# N2 team#) OR AB (patient care# N2 team#) OR AB (patient care# N2 team#) TI (health* N2 educator#) OR AB (health* Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity		TI (health* N2 occupation#) OR AB	Expanders - Apply equivalent subjects	
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TI (health* N2 practitioner#) OR AB Search modes - Proximity TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 practitioner#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 910 TI (health* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity 35,218 TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 1,619 Expanders - Apply equivalent subjects Search modes - Proximity 614,813 TI (patient care# N2 team#) OR AB (patient care# N2 team#) OR AB (patient search modes - Proximity TI (health* N2 educator#) OR AB (health* Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity 3,857 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 15,439 Expanders - Apply equivalent subjects Search modes - Proximity 9,937		TI (hospital* N2 occupation#) OR AB	Expanders - Apply equivalent subjects	
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TI (hospital* N2 practitioner#) OR AB S62 (hospital* N2 practitioner#) TI (health* N2 worker#) OR AB (health* Expanders - Apply equivalent subjects S63 N2 worker#) TI (hospital* N2 worker#) OR AB TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects S64 (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects S65 (hospital* N2 worker#) Expanders - Apply equivalent subjects S66 TI nurs* OR AB nurs* TI (patient care# N2 team#) OR AB (patient care# N2 team#) TI (patient care# N2 team#) TI (health* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects S67 N2 educator#) Expanders - Apply equivalent subjects S68 worker#) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects		TI (health* N2 practitioner#) OR AB	Expanders - Apply equivalent subjects	
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TI (health* N2 worker#) OR AB (health* Search modes - Proximity TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (hospital* N2 worker#) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity TI (patient care# N2 team#) OR AB (patient care# N2 team#) TI (health* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity TI (health* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 15,439 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 9,937		TI (hospital* N2 practitioner#) OR AB	Expanders - Apply equivalent subjects	
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TI (hospital* N2 worker#) OR AB (hospital* N2 worker#) Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity TI (patient care# N2 team#) OR AB (patient care# N2 team#) OR AB (patient care# N2 team#) TI (health* N2 educator#) OR AB (health* Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Worker#) TI (social N2 worker#) OR AB (social N2 TI (support* N2 (worker# or staff#)) OR AB Search modes - Proximity TI (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects		TI (health* N2 worker#) OR AB (health*	Expanders - Apply equivalent subjects	
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S65 TI nurs* OR AB nurs* TI (patient care# N2 team#) OR AB (patient S66 care# N2 team#) TI (health* N2 educator#) OR AB (health* Expanders - Apply equivalent subjects S67 N2 educator#) TI (social N2 worker#) OR AB (social N2 TI (social N2 worker#) TI (support* N2 (worker# or staff#)) OR AB (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#))	S64	(hospital* N2 worker#)	Search modes - Proximity	1,619
TI (patient care# N2 team#) OR AB (patient Search modes - Apply equivalent subjects Search modes - Proximity TI (health* N2 educator#) OR AB (health* Search modes - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects			Expanders - Apply equivalent subjects	
Search modes - Proximity TI (health* N2 educator#) OR AB (health* Search modes - Proximity TI (health* N2 educator#) OR AB (health* Search modes - Proximity 3,857 TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity 15,439 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity 15,439 Expanders - Apply equivalent subjects Search modes - Proximity 9,937 Expanders - Apply equivalent subjects	S65	TI nurs* OR AB nurs*	Search modes - Proximity	614,813
TI (health* N2 educator#) OR AB (health* Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects Search modes - Proximity Expanders - Apply equivalent subjects		TI (patient care# N2 team#) OR AB (patient	Expanders - Apply equivalent subjects	
S67 N2 educator#) Search modes - Proximity TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S68 worker#) Search modes - Proximity 15,439 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects Search modes - Proximity 9,937 Expanders - Apply equivalent subjects	S66	care# N2 team#)	Search modes - Proximity	600
TI (social N2 worker#) OR AB (social N2 Expanders - Apply equivalent subjects S68 worker#) Search modes - Proximity 15,439 TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Search modes - Proximity 9,937 Expanders - Apply equivalent subjects		TI (health* N2 educator#) OR AB (health*	Expanders - Apply equivalent subjects	
S68 worker#) Search modes - Proximity TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Expanders - Apply equivalent subjects Expanders - Apply equivalent subjects	S67	N2 educator#)	Search modes - Proximity	3,857
TI (support* N2 (worker# or staff#)) OR AB Expanders - Apply equivalent subjects S69 (support* N2 (worker# or staff#)) Search modes - Proximity 9,937 Expanders - Apply equivalent subjects		TI (social N2 worker#) OR AB (social N2	Expanders - Apply equivalent subjects	
S69 (support* N2 (worker# or staff#)) Search modes - Proximity Expanders - Apply equivalent subjects	S68	worker#)	Search modes - Proximity	15,439
Expanders - Apply equivalent subjects		TI (support* N2 (worker# or staff#)) OR AB	Expanders - Apply equivalent subjects	
	S69	(support* N2 (worker# or staff#))	Search modes - Proximity	9,937
S70 TI clinician# OR AB clinician# Search modes - Proximity 126,850			Expanders - Apply equivalent subjects	
	S70	TI clinician# OR AB clinician#	Search modes - Proximity	126,850





		Expanders - Apply equivalent subjects	
S71	TI doctor# OR AB doctor#	Search modes - Proximity	57,180
		Expanders - Apply equivalent subjects	
S72	TI physician# OR AB physician#	Search modes - Proximity	160,430
		Expanders - Apply equivalent subjects	
S73	TI practitioner# OR AB practitioner#	Search modes - Proximity	104,382
		Expanders - Apply equivalent subjects	
S74	TI surgeon# OR AB surgeon#	Search modes - Proximity	61,560
		Expanders - Apply equivalent subjects	
S75	(MH "Caregivers")	Search modes - Proximity	45,988
	TI (caregiver# or care-giver# or carer or		
	carers) OR AB (caregiver# or care-giver# or	Expanders - Apply equivalent subjects	
S76	carer or carers)	Search modes - Proximity	83,799
	(MH "Students, Medical") OR (MH		
	"Students, Audiology") OR (MH "Students,		
	Dietetics") OR (MH "Students, Occupational		
	Therapy") OR (MH "Students, Physical		
	Therapy") OR (MH "Students, Physician		
	Assistant") OR (MH "Students, Respiratory		
	Therapy") OR (MH "Students, Nursing")		
	OR (MH "Students, Health Occupations")		
	OR (MH "Students, Allied Health") OR		
	(MH "Students, Midwifery") OR (MH		
	"Students, Nurse Midwifery") OR (MH		
	"Students, Nursing, Associate") OR (MH		
	"Students, Post-RN") OR (MH "Students,		
	Nursing, Diploma Programs") OR (MH		
	"Students, Nursing, Graduate") OR (MH		
	"Students, Nursing, Doctoral") OR (MH		
	"Students, Nursing, Masters") OR (MH		
	"Students, Nursing, Male") OR (MH	Expanders - Apply equivalent subjects	
S77	"Students, Nursing, Practical") OR (MH	Search modes - Proximity	75,150





	HG. 1 . DI HOOD ON THE HOO		
	"Students, Pharmacy") OR (MH "Students,		
	Podiatry")		
	TI ("health care student" or "health care		
	students" or "health occupations student" or		
	"health occupations students" or "healthcare		
	student" or "healthcare students" or "med		
	school student" or "med school students" or		
	"med student" or "med students" or "medical		
	school student" or "medical school students"		
	or "medical student" or "medical students"		
	or "nursing student" or "nursing students" or		
	"pharmacy student" or "pharmacy students"		
	or "physician assistant student" or		
	"physician assistant students" or "premedical		
	student" or "premedical students" or "public	Expanders - Apply equivalent subjects	
S78	health student" or "public health students")	Search modes - Proximity	26,763
	AB ("health care student" or "health care		
	students" or "health occupations student" or		
	"health occupations students" or "healthcare		
	student" or "healthcare students" or "med		
	school student" or "med school students" or		
	"med student" or "med students" or "medical		
	school student" or "medical school students"		
	or "medical student" or "medical students"		
	or "nursing student" or "nursing students" or		
	"pharmacy student" or "pharmacy students"		
	or "physician assistant student" or		
	"physician assistant students" or "premedical		
	student" or "premedical students" or "public	Expanders - Apply equivalent subjects	
S79	health student" or "public health students")	Search modes - Proximity	35,951
	TI ("audiology student" or "audiology		
	students" or "dietetics student" or "dietetics		
	students" or "occupational therapy student"	Expanders - Apply equivalent subjects	
	or "occupational therapy students" or	Search modes - Proximity	2,248





			1
	"paramedical student" or "paramedical		
	students" or "physical therapy student" or		
	"physical therapy students" or "respiratory		
	therapy student" or "respiratory therapy		
	students") OR AB ("audiology student" or		
	"audiology students" or "dietetics student" or		
	"dietetics students" or "occupational therapy		
	student" or "occupational therapy students"		
	or "paramedical student" or "paramedical		
	students" or "physical therapy student" or		
	"physical therapy students" or "respiratory		
	therapy student" or "respiratory therapy		
	students")		
	TI (doctor or doctors or clinician# or "health		
	care professional" or "health care		
	professionals" or "health care provider" or		
	"health care providers" or "health personnel"		
	or "healthcare professional" or "healthcare		
	professionals" or "healthcare provider" or		
	"healthcare providers" or "healthcare		
	worker" or "healthcare workers" or "medical		
	staff" or nurse or nurses or "nursing staff" or		
	physician or physicians or surgeon#) OR AB		
	(doctor or doctors or clinician# or "health		
	care professional" or "health care		
	professionals" or "health care provider" or		
	"health care providers" or "health personnel"		
	or "healthcare professional" or "healthcare		
	professionals" or "healthcare provider" or		
	"healthcare providers" or "healthcare		
	worker" or "healthcare workers" or "medical		
	staff" or nurse or nurses or "nursing staff" or	Expanders - Apply equivalent subjects	
S81	physician or physicians or surgeon#)	Search modes - Proximity	808,818
	·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·





		T	1
	TI ("health care labor force" or "health care		
	labour force" or "health care work force" or		
	"health care workforce" or "health labor		
	force" or "health labour force" or "health		
	manpower" or "health occupations		
	manpower" or "health work force" or "health		
	workforce" or "healthcare labor force" or		
	"healthcare labour force" or "healthcare		
	manpower" or "healthcare work force" or		
	"healthcare workforce" or "medical		
	manpower") OR AB ("health care labor		
	force" or "health care labour force" or		
	"health care work force" or "health care		
	workforce" or "health labor force" or "health		
	labour force" or "health manpower" or		
	"health occupations manpower" or "health		
	work force" or "health workforce" or		
	"healthcare labor force" or "healthcare		
	labour force" or "healthcare manpower" or		
	"healthcare work force" or "healthcare	Expanders - Apply equivalent subjects	
S82	workforce" or "medical manpower")	Search modes - Proximity	5,012
	S36 OR S37 OR S38 OR S39 OR S40 OR		
	S41 OR S42 OR S43 OR S44 OR S45 OR		
	S46 OR S47 OR S48 OR S49 OR S50 OR		
	S51 OR S52 OR S53 OR S54 OR S55 OR		
	S56 OR S57 OR S58 OR S59 OR S60 OR		
	S61 OR S62 OR S63 OR S64 OR S65 OR		
	S66 OR S67 OR S68 OR S69 OR S70 OR		
	S71 OR S72 OR S73 OR S74 OR S75 OR		
	S76 OR S77 OR S78 OR S79 OR S80 OR	Expanders - Apply equivalent subjects	
S83	S81 OR S82	Search modes - Proximity	2,305,194
		Expanders - Apply equivalent subjects	
S84	S35 AND S83	Search modes - Proximity	1,989





		Limiters - Publication Date:	
		20230301-20240731; English	
		Language; Peer Reviewed	
		Expanders - Apply equivalent subjects	
S85	EM 20230321*-	Search modes - Proximity	238,758
		Expanders - Apply equivalent subjects	
S86	S84 AND S85	Search modes - Proximity	165

Scoping review search strategy

To inform this guideline, a scoping review was conducted to explore the current evidence on what types of non-pharmacological approaches are available for the management of pain.

In addition, panel members were asked to review personal libraries to identify key articles not found through the search strategy. Articles identified by panel members were included in the search results if two guideline development methodologists independently determined the articles had not been identified by the literature search and met the inclusion criteria.

Databases Searched: Medline, Embase

<u>Dates searched</u>: January 2017 – January 2023

Inclusion Criteria:

The following criteria were used to guide the scoping review:

- Articles that address types of non-pharmacological approaches to pain management
- Published between January 2017 and January 2023
- Published in English
- Accessible for retrieval
- Conducted in any geographic region
- Applicable to all health service organizations and academic institutions
- Applicable to all health providers and students
- Study design: randomized controlled trials, systematic reviews/meta-analyses, controlled trial studies, cohort studies, cross-sectional (prevalence studies), prospective/longitudinal/follow-up studies, qualitative studies

Exclusion Criteria:

The following criteria were used to exclude literature from the search:

- Studies not focused on types of non-pharmacological approaches to pain management
- Studies published prior to 2017
- Studies not published in English





• Study design: research in progress, conference proceeding/abstracts, dissertations/theses, books/book chapters

MEDLINE(R) 1946 to January 12, 2023

Search Strategy:

#	Searches	Results
	exp Pain/dh, nu, pc, rt, rh, th [Diet Therapy, Nursing, Prevention & Control,	
1	Radiotherapy, Rehabilitation, Therapy]	89602
2	Pain Management/	40126
	((manage* or managing or relief or relieve or relieves or reduce reduces or reduced or	
	reducing or treats or treating or treatment or treatments) adj5 (pain or pains or	
3	painful)).tw,kf.	163582
4	exp pain/	449012
5	(ache or pain or pains or painful).tw,kf.	807920
6	4 or 5	963382
	complementary therapies/ or exp acupuncture therapy/ or cupping therapy/ or dry	
	needling/ or horticultural therapy/ or exp medicine, traditional/ or mind-body therapies/	
	or exp biofeedback, psychology/ or exp breathing exercises/ or exp hypnosis/ or	
	imagery, psychotherapy/ or laughter therapy/ or meditation/ or mental healing/ or	
	relaxation therapy/ or tai ji/ or therapeutic touch/ or yoga/ or exp musculoskeletal	
7	manipulations/ or naturopathy/	148652
8	exp Medicine, Traditional/	44992
9	biofeedback, psychology/	7694
10	mindfulness/	5839
11	smart glasses/	168
12	smartphone/ or cell phone/	18320
13	video games/	7020
14	virtual reality/	5053
	(alternative medicine or alternative therapies or complementary medicine or	
15	complementary therapies).tw,kf.	22192
	(acupuncture or shonishin or electroacupuncture or electrical acupoint	
16	stimulation).tw,kf.	29974





	1
(acupressure or "chih ya" or shiatsu or shiatzu or "zhi ya" or acupressure or Shiatsu or	
"Tui Na").tw,kf.	1605
(aroma therapies or aroma therapy or aromatherapies or aromatherapy).tw,kf.	1605
("bio feed back?" or "bio feedback?" or biofeedback? or myobiofeedback or	
myofeedback? or "psychophysiologic feedback?").tw,kf.	8137
(bodywork or bodyworks or "craniosacral massage?" or "manipulation therapies" or	
"manipulation therapy" or "manual therapies" or "manual therapy" or reflexology or	
rolfing).tw,kf.	4267
("breathing exercises" or "breathing therapies" or "breathing therapy" or "ch'i kung" or	
"qi gong" or qigong or "respiration exercise?" or "respiration therapies" or "respiration	
therapy" or "respiratory exercise?" or "respiratory physiotherapies" or "respiratory	
physiotherapy").tw,kf.	3170
("cupping manipulation" or "cupping therapies" or "cupping therapy" or "cupping	
treatment" or "cupping treatment" or "cupping treatments" or "dry cupping" or "fire	
cupping" or "flash cupping" or "moving cupping" or "suction cupping" or "vacuum	
cupping" or "wet cupping").tw,kf.	416
diffuse noxious inhibitory control.tw,kf.	146
("directed reverie therapies" or "directed reverie therapy" or "guided affective imagery"	
or "guided imagery").tw,kf.	883
(distract* and (computer* or robot? or ipad? or visual* or print or auditory or audio or	
or techniques or technic or technics)).tw,kf.	15147
("dry needle technique?" or "dry needle therapies" or "dry needle therapy" or "dry	
needling?" or "intramuscular stimulation?").tw,kf.	945
(ecotherapies or ecotherapy or "nature therapies" or "nature therapy").tw,kf.	47
("bioenergy healing" or "energy healing" or "energy medicine" or "energy psychology"	
	1288
medicine" or "folk remedies" or "folk remedy" or "home remedies" or "home remedy"	
or "indigenous medicine" or "native healing" or "native medicine" or "traditional	
healing" or "traditional indigenous medicine" or "traditional medicine" or "traditional	
remedies" or "traditional remedy").tw,kf.	24273
	"Tui Na").tw,kf. (aroma therapies or aroma therapy or aromatherapies or aromatherapy).tw,kf. ("bio feed back?" or "bio feedback?" or biofeedback? or myobiofeedback or myofeedback? or "psychophysiologic feedback?").tw,kf. (bodywork or bodyworks or "craniosacral massage?" or "manipulation therapies" or "manipulation therapy" or "manipulation therapy" or "remainipulation therapy" or "remainipulation therapy" or "remainipulation therapy" or "respiration therapies" or "breathing exercises" or "breathing therapies" or "respiration therapies" or "respiration therapies" or "respiration therapy" or "respiratory exercise?" or "respiratory physiotherapies" or "respiratory physiotherapy").tw,kf. ("cupping manipulation" or "cupping therapies" or "cupping therapy" or "cupping treatment" or "cupping treatment" or "cupping treatments" or "dry cupping" or "fire cupping" or "flash cupping" or "moving cupping" or "suction cupping" or "vacuum cupping" or "wet cupping").tw,kf. (diffuse noxious inhibitory control.tw,kf. ("directed reverie therapies" or "directed reverie therapy" or "guided affective imagery" or "guided imagery").tw,kf. (distract* and (computer* or robot? or ipad? or visual* or print or auditory or audio or audiovisual or music or multimedia or "multi media" or active or passive or technique or techniques or technique?" or "dry needle therapies" or "dry needle therapy" or "dry needling?" or "intramuscular stimulation?").tw,kf. ("dry needle technique?" or "dry needle therapies" or "nature therapy").tw,kf. ("bioenergy healing" or "energy healing" or "energy medicine" or "energy psychology" or "energy therapy" or "healing touch" or "laying-on-of-hands" or reiki or "therapeutic touch" or "thought field therapy" or "vibrational medicine").tw,kf. ("ethnomedicinal practice" or "ethnomedicinal use" or "ethnomedicine" or "folk medicine" or "folk remedy" or "home remedies" or "home remedy" or "indigenous medicine" or "rative healing" or "native medicine" or "traditional healing" or "traditional indigenous medicine" o





		I
30	("forest bathing" or "shinrin yoku" or "shinrin'yoku").tw,kf.	105
	("garden therapy" or "garden* therapy" or "gardening therapy" or "horticultural	
31	therapy" or "horticultural therapy" or "therapeutic horticulture").tw,kf.	152
32	(homeopathia or homeotherapy or homoeopathy or homeopathic).tw,kf.	3335
	(hypnoanalysis or hypnogenesis or hypnosis or hypnotherapies or hypnotherapy or	
33	hypnotism or mesmerism).tw,kf.	9745
	("humor intervention?" or "humor therapies" or "humor therapy" or "humour	
	intervention?" or "humour therapies" or "humour therapy" or "laughter intervention?" or	
34	"laughter meditation?" or "laughter therapies" or "laughter therapy").tw,kf.	137
	(massage or massages or massotherapy or "masso-therapy" or "zone therapies" or "zone	
35	therapy").tw,kf.	12190
	("ching lo" or "jing luo" or "jing mai" or jingluo or jingmai or meridian or	
36	meridians).tw,kf.	6013
	("mind body medicine" or "mind body therapies" or "mind-body medicine" or "mind-	
37	body therapies" or "mind-body therapy").tw,kf.	795
38	mindfulness.tw,kf.	11956
	("relaxation method" or "relaxation methods" or "relaxation technic" or "relaxation	
	technics" or "relaxation technique" or "relaxation techniques" or "relaxation therapies"	
39	or "relaxation therapy").tw,kf.	2959
40	(naturopathy or "naturopathic medicine").tw,kf.	844
	("smart glasses" or "ar glasses" or "ar head-mounted device?" or "ar head-mounted	
	display?" or "ar headset?" or "augmented reality glasses" or "augmented reality head	
	mounted device?" or "augmented reality head mounted display?" or "google glass" or	
41	"google glasses" or "head mounted display" or "head mounted displays").tw,kf.	1815
	("smart phone" or "smart phones" or "smartphone" or "smartphones" or "cell phone" or	
	"cell phones" or "cellphone" or "cellphones" or "cellular phone" or "cellular phones" or	
	"cellular telephone" or "cellular telephones" or "mobile device" or "mobile devices" or	
	"mobile phone" or "mobile phones" or "mobile telephone" or "mobile	
42	telephones").tw,kf	44686
	((therapy or therapeutic or therapies) adj1 (art or color or colour or dance or music or	
43	play)).tw,kf.	20935
44	("tai chi" or "t'ai chi" or "tai ji" or taiji or taijiquan).tw,kf.	2451





	(videogame or videogames or "computer game" or "computer games" or "video game"	
45	or "video games").tw,kf.	6675
46	(virtual reality or virtual realities or VR).tw,kf.	21353
47	yoga.tw,kf.	6358
	physical therapy modalities/ or animal assisted therapy/ or exp exercise movement	
48	techniques/ or exp exercise therapy/ or hydrotherapy/ or aquatic therapy/	110119
49	exp Balneology/	12772
50	cryotherapy/	5666
51	hyperthermia, induced/	18998
	("physical therapies" or "physical therapy" or "physical treatment" or "physio therapy"	
52	or "physiotherapies" or "physiotherapy").tw,kf.	49988
	("exercise therapies" or "exercise therapy" or "exercise treatment?" or	
	"kinesiotherapeutic" or kinesiotherapy or kinesiotherapies or "rehabilitation exercise?"	
53	or "remedial exercise?" or "therapeutic exercise?").tw,kf.	10244
	("active stretching" or "ballistic stretching" or "dynamic stretching" or "isometric	
	stretching" or "muscle stretching exercise?" or "passive stretching" or "pnf stretching"	
	or "pnf stretchings" or "static active stretching" or "static passive stretching" or "static	
54	stretching").tw,kf.	1621
	(hydrotherapies or hydrotherapy or "water immersion therapy" or "whirlpool bath" or	
55	"whirlpool baths").tw,kf.	1553
	("aquatic exercise therapy" or "aquatic therapy" or "pool exercise therapy" or "pool	
56	therapy" or "water exercise therapy" or "water tai chi therapy").tw,kf.	243
57	(balneology or balneotherapy).tw,kf.	2934
	("cold bath" or "cold bathes" or "cold baths" or "cold therapies" or "cold therapy" or	
	"cryogenic therapies" or "cryogenic therapy" or cryotherapies or cryotherapy or	
	cryothermy or cryotreatment or "heat pack" or "heat packs" or "heat therapy" or "ice	
	pack" or "ice packs" or "induced hyperthermia" or "infra red therapies" or "infrared	
	therapies" or "infra red therapy" or "infrared therapy" or "therapeutic hyperthermia" or	
58	"thermal packs" or thermotherapies or thermotherapy).tw,kf.	14177
59	(noninvasive or non-invasive or nonpharmacologic* or non-pharmacologic*).tw,kf.	238727
60	drug free intervention*.tw,kf.	12





	("non pharmacologic intervention*" or "non pharmacologic therap*" or "non	
	pharmacologic treatment*" or "nonpharmacologic intervention*" or "nonpharmacologic	
61	therap*" or "nonpharmacologic treatment*").tw,kf.	3379
62	("nonpharmacologic pain treatment*" or "non pharmacologic pain treatment*").tw,kf.	18
	("nonpharmacologic evidence based pain treatment*" or "non pharmacologic evidence	
63	based pain treatment*").tw,kf.	1
64	("cognitive behavioral therapy" or "cognitive behavioral therapies").tw,kf.	13054
65	Therapy Animals/	23
	("animal assisted therapies" or "animal assisted therapy" or "animal facilitated	
	therapies" or "animal facilitated therapy" or "pet therapies" or "pet therapy" or "pet	
	assisted therapies" or "pet assisted therapy" or "therapy animal" or "therapy	
66	animals").tw,kf.	785
67	or/7-66 [non-pharmacological interventions]	736618
68	(2 or 3) and 67 [pain management AND non-pharmacological interventions]	28125
69	1 or 68	108151
70	6 and 67 [pain AND non-pharmacological interventions]	74868
71	69 or 70	144274
72	limit 71 to english language	126178
73	limit 72 to yr="2017 -Current"	41617
74	exp "Attitude of Health Personnel"/	168787
75	exp Health Personnel/	599741
76	exp Personnel, Hospital/	94900
77	exp Health Occupations/	1835122
78	exp Patient Care Team/	72508
79	Social Work/	16193
80	Social Workers/	1045
81	Nurse's Role/	42656
82	Licensed Practical Nurses/	97
83	exp Nurses/	96942
84	exp Nursing Staff/	69502
85	Nursing Staff, Hospital/	47708
86	exp Nursing/	262367





87	Nursing, Practical/	3444
88	Health Educators/	489
89	exp Administrative Personnel/	42130
	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or	
90	occupation? or practitioner? or worker?)).tw,kf.	313337
	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or	
91	occupation? or practitioner? or worker?)).tw,kf.	21072
92	nurs*.tw,kf.	522063
93	(patient care? adj2 team?).tw,kf.	1014
94	(health* adj2 educator?).tw,kf.	3769
95	(social adj2 worker?).tw,kf.	12483
96	(support* adj2 (worker? or staff?)).tw,kf.	8018
97	practitioner?.tw,kf.	175290
98	Caregivers/	48301
99	(caregiver? or care-giver? or carer or carers).tw,kf.	104889
	students, health occupations/ or students, medical/ or students, nursing/ or students,	
100	pharmacy/ or students, premedical/ or students, public health/	78271
	(health care student or health care students or health occupations student or health	
	occupations students or healthcare student or healthcare students or med school student	
	or med school students or med students or medical school student or	
	medical school students or medical student or medical students or nursing student or	
	nursing students or pharmacy student or pharmacy students or physician assistant	
	student or physician assistant students or premedical student or premedical students or	
101	public health student or public health students).tw,kf.	75453
	(audiology student or audiology students or dietetics student or dietetics students or	
	occupational therapy student or occupational therapy students or paramedical student or	
102	paramedical students or physical therapy student or physical therapy students or	1307
102	respiratory therapy student or respiratory therapy students).tw,kf. (doctor or doctors or clinician? or health care professional or health care professionals	1307
	or health care provider or health care providers or health personnel or healthcare	
	professional or healthcare professionals or healthcare provider or healthcare providers	
	or healthcare worker or healthcare workers or medical staff or nurse or nurses or	
103	nursing staff or physician or physicians or surgeon?).tw,kf.	1423906





104	Health Workforce/	14328
	(health care labor force or health care labour force or health care work force or health	
	care workforce or health labor force or health labour force or health manpower or health	
	occupations manpower or health work force or health workforce or healthcare labor	
	force or healthcare labour force or healthcare manpower or healthcare work force or	
105	healthcare workforce or medical manpower).tw,kf.	7745
106	or/74-105 [Students or Health Providers terms]	3665778
107	73 and 106 [pain AND non-pharmacological interventions AND healthcare providers]	9637
108	review/	3101546
	(medline or medlars or pubmed or grateful med or CINAHL or scisearch or psychinfo	
	or psycinfo or psychlit or psyclit or handsearch* or hand search* or manual* search* or	
	electronic database* or bibliographic database* or embase or lilacs or scopus or web of	
109	science).mp.	365141
110	108 and 109	193246
111	meta-analysis.tw,kf.	223964
112	meta-analysis as topic/	22056
113	meta-analysis/	173879
114	systematic review*.tw.	270642
115	cochrane database*.jn.	16096
116	or/110-115	498497
117	107 and 116 [Reviews]	1356
	Are Nonpharmacologic Pain Interventions Effective at Reducing Pain in Adult Patients	
118	Visiting the Emergency Department?.m_titl.	1
119	Use of animal-assisted interventions in relieving pain in healthcare settings.m_titl.	1
120	118 or 119 [Sample Cites]	2
121	117 and 120 [test if sample cites found]	1
122	107 and 120 [test if sample cites in bigger set]	1
123	73 and 116 [pain AND non-pharmacological interventions AND reviews]	5636
124	123 and 120 [samples cites in pain AND non-pharmacological interventions set]	2
125	123 not 117 [SRs missed with healthcare provider terms]	4280
126	from 125 keep 2, 8, 13, 15, 20, 33	524





Embase Classic+Embase 1947 to January 12, 2023

Search Strategy:

#	Searches	Results
1	exp pain/dm, pc, rt, rh, th [Disease Management, Prevention, Radiotherapy, Rehabilitation, Therapy]	110724
	((manage* or managing or relief or relieve or relieves or reduce reduces or reduced or reducing or treats or treatment or treatments) adj5 (pain or pains or	
2	painful)).tw,kw.	241277
3	exp pain/	1648072
4	(ache or pain or pains or painful).tw,kw.	1233324
5	3 or 4	2029468
	alternative medicine/ or aromatherapy/ or breathwork/ or cupping therapy/ or dry	
	needling/ or exp energy medicine/ or forest bathing/ or homeopathy/ or horticultural	
6	therapy/ or exp laughter therapy/ or moxibustion/ or exp naturopathy/	65052
7	acupuncture/ or exp acupressure/ or electroacupuncture/	54559
8	body meridian/	913
9	exp traditional medicine/	128818
10	exp yoga/	10691
11	biofeedback/	3344
12	breathing exercise/	10533
13	hypnosis/	17741
14	guided imagery/	1636
15	mindfulness/ or mindfulness meditation/	14102
16	mindfulness-based stress reduction/	600
17	relaxation training/	11913
18	Tai Chi/	3824
19	bodywork/ or rolfing/	162
20	massage/	18828
21	art therapy/	4769
22	augmented reality system/ or smart glasses/	466
23	smartphone/ or mobile phone/	43695
24	video game/	5554





25	virtual reality/	24334
	(alternative medicine or alternative therapies or complementary medicine or	
26	complementary therapies).tw,kw.	30746
	(acupuncture or shonishin or electroacupuncture or electrical acupoint	
27	stimulation).tw,kw.	42154
	(acupressure or "chih ya" or shiatsu or shiatzu or "zhi ya" or acupressure or Shiatsu or	
28	"Tui Na").tw,kw.	2189
29	(aroma therapies or aroma therapy or aromatherapies or aromatherapy).tw,kw.	2449
	("bio feed back?" or "bio feedback?" or biofeedback? or myobiofeedback or	
30	myofeedback? or "psychophysiologic feedback?").tw,kw.	12075
	(bodywork or bodyworks or "craniosacral massage?" or "manipulation therapies" or	
	"manipulation therapy" or "manual therapies" or "manual therapy" or reflexology or	
31	rolfing).tw,kw.	5897
	("breathing exercises" or "breathing therapies" or "breathing therapy" or "ch'i kung" or	
	"qi gong" or qigong or "respiration exercise?" or "respiration therapies" or "respiration	
	therapy" or "respiratory exercise?" or "respiratory physiotherapies" or "respiratory	
32	physiotherapy").tw,kw.	5436
	("cupping manipulation" or "cupping therapies" or "cupping therapy" or "cupping	
	treatment" or "cupping treatment" or "cupping treatments" or "dry cupping" or "fire	
	cupping" or "flash cupping" or "moving cupping" or "suction cupping" or "vacuum	
33	cupping" or "wet cupping").tw,kw.	565
34	diffuse noxious inhibitory control.tw,kw.	230
	("directed reverie therapies" or "directed reverie therapy" or "guided affective imagery"	
35	or "guided imagery").tw,kw.	1303
	(distract* and (computer* or robot? or ipad? or visual* or print or auditory or audio or	
	audiovisual or music or multimedia or "multi media" or active or passive or technique	
36	or techniques or technic or technics)).tw,kw.	18422
	("dry needle technique?" or "dry needle therapies" or "dry needle therapy" or "dry	
37	needling?" or "intramuscular stimulation?").tw,kw.	1169
38	(ecotherapies or ecotherapy or "nature therapies" or "nature therapy").tw,kw.	63
	("bioenergy healing" or "energy healing" or "energy medicine" or "energy psychology"	
	or "energy therapy" or "healing touch" or "laying-on-of-hands" or reiki or "therapeutic	
39	touch" or "thought field therapy" or "vibrational medicine").tw,kw.	1698





	("ethnomedicinal practice" or "ethnomedicinal use" or "ethnomedicine" or "folk	
	medicine" or "folk remedies" or "folk remedy" or "home remedies" or "home remedy"	
	or "indigenous medicine" or "native healing" or "native medicine" or "traditional	
	healing" or "traditional indigenous medicine" or "traditional medicine" or "traditional	
40	remedies" or "traditional remedy").tw,kw.	36558
41	("forest bathing" or "shinrin yoku" or "shinrin'yoku").tw,kw.	114
	("garden therapy" or "garden* therapy" or "gardening therapy" or "horticultural	
42	therapy" or "horticultural therapy" or "therapeutic horticulture").tw,kw.	207
43	(homeopathia or homeotherapy or homoeopathy or homeopathic).tw,kw.	5035
	(hypnoanalysis or hypnogenesis or hypnosis or hypnotherapies or hypnotherapy or	
44	hypnotism or mesmerism).tw,kw.	12456
	("humor intervention?" or "humor therapies" or "humor therapy" or "humour	
	intervention?" or "humour therapies" or "humour therapy" or "laughter intervention?" or	
45	"laughter meditation?" or "laughter therapies" or "laughter therapy").tw,kw.	196
	(massage or massages or massotherapy or "masso-therapy" or "zone therapies" or "zone	
46	therapy").tw,kw.	18677
47	("ching lo" or "jing luo" or "jing mai" or jingluo or jingmai or meridians).tw,kw.	2968
	("mind body medicine" or "mind body therapies" or "mind-body medicine" or "mind-	
48	body therapies" or "mind-body therapy").tw,kw.	1193
49	mindfulness.tw,kw.	15155
	("relaxation method" or "relaxation methods" or "relaxation technic" or "relaxation	
	technics" or "relaxation technique" or "relaxation techniques" or "relaxation therapies"	
50	or "relaxation therapy").tw,kw.	4340
51	(naturopathy or "naturopathic medicine").tw,kw.	1082
	("smart glasses" or "ar glasses" or "ar head-mounted device?" or "ar head-mounted	
	display?" or "ar headset?" or "augmented reality glasses" or "augmented reality head	
	mounted device?" or "augmented reality head mounted display?" or "google glass" or	
52	"google glasses" or "head mounted display" or "head mounted displays").tw,kw.	2091
	("smart phone" or "smart phones" or "smartphone" or "smartphones" or "cell phone" or	
	"cell phones" or "cellphone" or "cellphones" or "cellular phone" or "cellular phones" or	
	"cellular telephone" or "cellular telephones" or "mobile device" or "mobile devices" or	
	"mobile phone" or "mobile phones" or "mobile telephone" or "mobile	
53	telephones").tw,kw.	51476





		1
	((therapy or therapeutic or therapies) adj1 (art or color or colour or dance or music or	
54	play)).tw,kw.	29514
55	("tai chi" or "t'ai chi" or "tai ji" or taiji or taijiquan).tw,kw.	3456
	(videogame or videogames or "computer game" or "computer games" or "video game"	
56	or "video games").tw,kw.	8245
57	(virtual reality or virtual realities or VR).tw,kw.	29146
58	yoga.tw,kw.	9273
59	physiotherapy/	110900
60	kinesiotherapy/	40398
61	stretching exercise/	4482
62	hydrotherapy/ or aquatic therapy/	5094
63	cryotherapy/ or thermotherapy/	25738
	("physical therapies" or "physical therapy" or "physical treatment" or "physio therapy"	
64	or "physiotherapies" or "physiotherapy").tw,kw.	81868
	("exercise therapies" or "exercise therapy" or "exercise treatment?" or	
	"kinesiotherapeutic" or kinesiotherapy or kinesiotherapies or "rehabilitation exercise?"	
65	or "remedial exercise?" or "therapeutic exercise?").tw,kw.	14192
	("active stretching" or "ballistic stretching" or "dynamic stretching" or "isometric	
	stretching" or "muscle stretching exercise?" or "passive stretching" or "pnf stretching"	
	or "pnf stretchings" or "static active stretching" or "static passive stretching" or "static	
66	stretching").tw,kw.	1980
	(hydrotherapies or hydrotherapy or "water immersion therapy" or "whirlpool bath" or	
67	"whirlpool baths").tw,kw.	2268
	("aquatic exercise therapy" or "aquatic therapy" or "pool exercise therapy" or "pool	
68	therapy" or "water exercise therapy" or "water tai chi therapy").tw,kw.	419
69	(balneology or balneotherapy).tw,kw.	2576
	("cold bath" or "cold bathes" or "cold baths" or "cold therapies" or "cold therapy" or	
	"cryogenic therapies" or "cryogenic therapy" or cryotherapies or cryotherapy or	
	cryothermy or cryotreatment or "heat pack" or "heat packs" or "heat therapy" or "ice	
	pack" or "ice packs" or "induced hyperthermia" or "infra red therapies" or "infrared	
	therapies" or "infra red therapy" or "infrared therapy" or "therapeutic hyperthermia" or	
70	"thermal packs" or thermotherapies or thermotherapy).tw,kw.	20277
71	(noninvasive or non-invasive or nonpharmacologic* or non-pharmacologic*).tw,kw.	347389





72	drug free intervention*.tw,kw.	15
	("non pharmacologic intervention*" or "non pharmacologic therap*" or "non	
	pharmacologic treatment*" or "nonpharmacologic intervention*" or "nonpharmacologic	
73	therap*" or "nonpharmacologic treatment*").tw,kw.	4619
74	("nonpharmacologic pain treatment*" or "non pharmacologic pain treatment*").tw,kw.	25
	("nonpharmacologic evidence based pain treatment*" or "non pharmacologic evidence	
75	based pain treatment*").tw,kw.	1
76	("cognitive behavioral therapy" or "cognitive behavioral therapies").tw,kw.	17747
77	animal assisted therapy/ or pet therapy/	986
	("animal assisted therapies" or "animal assisted therapy" or "animal facilitated	
	therapies" or "animal facilitated therapy" or "pet therapies" or "pet therapy" or "pet	
	assisted therapies" or "pet assisted therapy" or "therapy animal" or "therapy	
78	animals").tw,kw.	1084
79	or/6-78 [non-pharmacological approaches]	1056673
80	2 and 79 [pain management AND non-pharmacological approaches]	38425
81	1 or 80	135282
82	5 and 79 [pain AND non-pharmacological approaches]	149656
83	81 or 82	223839
84	limit 83 to english language	197740
85	limit 84 to yr="2017 -Current"	70962
	limit 85 to (books or chapter or conference abstract or conference paper or "conference	
86	review" or editorial)	13643
87	85 not 86	57319
88	exp health personnel attitude/	204561
89	exp health care personnel/	1958168
90	exp hospital personnel/	149004
91	exp multidisciplinary team/	23983
92	social work/	30177
93	social worker/	16324
94	licensed practical nurse/	376
95	exp nurse/	217231
96	nursing staff/	77585





07		415000
97	exp nursing/	415800
98	practical nursing/	167
99	exp health educator/	3416
100	exp administrative personnel/	34875
101	nurse attitude/	43328
	(health* adj2 (provider? or staff? or personnel? or employe* or profession* or	
102	occupation? or practitioner? or worker?)).tw,kw.	400755
	(hospital* adj2 (provider? or staff? or personnel? or employe* or profession* or	
103	occupation? or practitioner? or worker?)).tw,kw.	29060
104	nurs*.tw,kw.	627406
105	(patient care? adj2 team?).tw,kw.	862
106	(health* adj2 educator?).tw,kw.	4348
107	(social adj2 worker?).tw,kw.	21192
108	(support* adj2 (worker? or staff?)).tw,kw.	11374
109	practitioner?.tw,kw.	226398
110	caregiver/	106356
111	(caregiver? or care-giver? or carer or carers).tw,kw.	147658
112	health student/	1828
113	medical student/ or physician assistant student/	88467
114	premedical student/	148
115	public health student/	127
	paramedical student/ or audiology student/ or dietetics student/ or occupational therapy	
	student/ or pharmacy student/ or physical therapy student/ or respiratory therapy	
116	student/	10587
	nursing student/ or baccalaureate nursing student/ or graduate nursing student/ or male	
117	nursing student/	32220
	(health care student or health care students or health occupations student or health	
	occupations students or healthcare student or healthcare students or med school student	
	or med school students or med student or med students or medical school student or	
118	medical school students or medical student or medical students or nursing student or	98136





	nursing students or pharmacy student or pharmacy students or physician assistant	
	student or physician assistant students or premedical student or premedical students or	
	public health student or public health students).tw,kw.	
	(audiology student or audiology students or dietetics student or dietetics students or	
	occupational therapy student or occupational therapy students or paramedical student or	
	paramedical students or physical therapy student or physical therapy students or	
119	respiratory therapy student or respiratory therapy students).tw,kw.	1777
	(doctor or doctors or clinician? or health care professional or health care professionals	
	or health care provider or health care providers or health personnel or healthcare	
	professional or healthcare professionals or healthcare provider or healthcare providers	
	or healthcare worker or healthcare workers or medical staff or nurse or nurses or	
120	nursing staff or physician or physicians or surgeon?).tw,kw.	2004913
121	health workforce/	3188
	(health care labor force or health care labour force or health care work force or health	
	care workforce or health labor force or health labour force or health manpower or health	
	occupations manpower or health work force or health workforce or healthcare labor	
	force or healthcare labour force or healthcare manpower or healthcare work force or	
122	healthcare workforce or medical manpower).tw,kw.	8625
123	or/88-122	3780495
124	87 and 123	12025
125	review/	2874012
	(medline or medlars or pubmed or grateful med or CINAHL or scisearch or psychinfo	
	or psycinfo or psychlit or psyclit or handsearch* or hand search* or manual* search* or	
	electronic database* or bibliographic database* or embase or lilacs or scopus or web of	
126	science).mp.	459979
127	125 and 126	185447
128	meta-analysis.tw,kw.	286566
129	meta analysis (topic)/	51625
130	meta analysis/	268249
131	systematic review*.tw,kw.	332562
132	cochrane database*.jn.	22841
133	or/127-132	638933
I		
134	124 and 133 [Reviews]	1289





	Are Nonpharmacologic Pain Interventions Effective at Reducing Pain in Adult Patients	
135	Visiting the Emergency Department?.m_titl.	1
136	Use of animal-assisted interventions in relieving pain in healthcare settings.m_titl.	1
137	135 or 136 [Sample Cites]	2
138	137 and 134 [test if sample cites found]	1
139	137 and 87 [test if sample cites in bigger set]	2
140	87 and 133 [pain AND non-pharmacological interventions AND reviews]	6934
141	137 and 140 [samples cites in pain AND non-pharmacological interventions set]	2
142	140 not 134 [SRs missed with healthcare provider terms]	5645
143	from 142 keep 11, 40, 47, 53, 55, 82	532