

Supplementary Material Search strategies

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process and Other Nonindexed Citations and Daily

Search history sorted by search number ascending

No.	Searches	Results	Type
1	exp *Medical Records Systems, Computerized/	24,961	Advanced
2	(emr or ehr or ((paperless or automated or computer* or electronic) adj3 (health or medical or record*)) or cpoe).ti,ab,kw.	47,299	Advanced
3	1 or 2	59,733	Advanced
4	3 and (documentation* or order* or discharg* or summar* or charting).mp.	13,114	Advanced
5	4 and ((workflow or workload).mp. or "task performance and analysis"/ or "time and motion studies"/ or (work adj2 (flow* or load* or sampl* or redesign*))).mp. or video*.mp.) [mp = title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1,217	Advanced
6	4 and (efficiency, organizational/ or efficien*.mp. or inefficient*.mp. or time management/) [mp = title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1,556	Advanced
7	(4 and (data adj2 entry adj3 (error*1 or inaccurac* or inaccurate* or mistake*1 or omission* or omit*).tw.) or (mouse adj3 (click* or move* or mile*1)).tw.	735	Advanced
8	5 or 6 or 7	3,172	Advanced
9	limit 8 to (english language and yr = "1990 -Current")	2,981	Advanced
10	exp education, medical/ or exp specialties, medical/ or exp specialties, surgical/ or "internship and residency"/ or students, medical/ or exp physicians/ or physician*.mp. or internist*.mp. or doctor*.mp. or resident*.mp. or gp.mp. or practitioner*.mp. or hospitalist*.mp. or surgeon*.mp. or osteopath*.mp. or icu. mp. or picu.mp. or micu.mp. or sicu.mp. or nicu.mp. or (intensive adj2 (unit* or ward*))).mp. or (operating adj2 (suite or room* or theater*))).mp. [mp = title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2,138,624	Advanced
11	9 and 10	1,244	

Embase <1988 to 2018 Week 49>

Search history sorted by search number ascending

No.	Searches	Results	Type
1	exp *Medical Records Systems, Computerized/ or exp *electronic health record/ or exp *medical information system/	10,398	Advanced
2	(emr or ehr or ((paperless or automated or computer* or electronic) adj3 (health or medical or record*)) or cpoe).ti,ab,kw.	81,343	Advanced
3	1 or 2	88,336	Advanced
4	3 and (documentation* or order* or discharg* or summar* or charting).mp.	22,073	Advanced
5	4 and ((workflow or workload).mp. or "task performance and analysis"/ or "time and motion studies"/ or (work adj2 (flow* or load* or sampl* or redesign*)).mp. or video*.mp.) [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	1,876	Advanced
6	4 and (efficiency, organizational/ or efficien*.mp. or inefficient*.mp. or time management/) [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	3,038	Advanced
7	(4 and (data adj2 entry adj3 (error*1 or inaccurac* or inaccurate* or mistake*1 or omission* or omit*).tw.) or (mouse adj3 (click* or move* or mile*1)).tw.	946	Advanced
8	5 or 6 or 7	5,277	Advanced
9	limit 8 to (english language and yr = "1990 -Current")	5,087	Advanced
10	exp education, medical/ or exp specialties, medical/ or exp specialties, surgical/ or "internship and residency"/ or students, medical/ or exp physicians/ or clinician*.mp. or physician*.mp. or internist*.mp. or doctor*.mp. or resident*.mp. or gp.mp. or practitioner*.mp. or hospitalist*.mp. or surgeon*.mp. or osteopath*.mp. or icu.mp. or picu.mp. or micu.mp. or sicu.mp. or nicu.mp. or (intensive adj2 (unit* or ward*)).mp. or (operating adj2 (suite or room* or theater*)).mp. [mp = title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word]	7,306,445	Advanced
11	9 and 10	3,029	Advanced
12	remove duplicates from 11	2,990	Advanced
13	12 not case report/	2,948	

Cumulative Index to Nursing and Allied Health Literature

S18	S14 or S16	Narrow by language: - English Search Modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	334
S17	S14 or S16	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	644
S16	S13 and S15	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	320
S15	(MH "productivity") OR (MH "workload") OR (MH "workflow")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	22,120
S14	S12 and S13	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	364
S13	S3 or S7	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	12,335

(Continued)

(Continued)

S12	S10 or S11	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	146,306
S11	(MH "time management")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	3,138
S10	(MH "time and motion studies + ") OR (MH "time factors")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	143,329
S9	S3 and S8	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	1,444
S8	Time or hours or day	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	796,707
S7	S1 and S6	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	602
S6	(MH "Charting + ") OR (MH "record review")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	56,474
S5	S1 and S4	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	377
S4	Charting	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	3,795
S3	S1 and S2	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	12,335
S2	(MH "documentation + ") OR (MH "clinical documentation improvement") OR (MH "documentation (Iowa NIC)")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	161,211
S1	(MM "patient record systems") OR (MM "electronic health records") OR (MM "clinical information systems")	Search modes - Boolean/Phrase	Interface - EBSCOhost research databases search screen - basic search database - CINAHL with full text	18,546

Scopus
((TITLE-ABS KEY (((electronic OR computer* OR paperless OR automated) W/2 (health OR medical OR patient* OR record)) OR emr OR emrs OR ehr OR hrs OR "order entry" OR cpoe) AND TITLE-ABS-KEY ((documentation OR charting))) AND PUBYEAR > 1989) AND (workflow OR workload OR time OR productivity) AND NOT (INDEX (medline)) AND NOT (INDEX (embase)) AND (LIMIT-TO (LANGUAGE, "English"))) 392