

Additional File 1: Search strategies

MEDLINE

- 1 emergency medical services.sh.
- 2 Emergency Medical Technicians/st, sn [Standards, Statistics & Numerical Data]
- 3 Ambulances/st, sn [Standards, Statistics & Numerical Data]
- 4 paramed\$.tw.
- 5 prehospital.tw.
- 6 pre-hospital.tw.
- 7 ambulance.tw.
- 8 ems.tw.
- 9 emt.tw.
- 10 "first respond\$.tw.
- 11 "emergency medical technician\$.tw.
- 12 "emergency services".tw.
- 13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
- 14 Quality Improvement/st, sn, td [Standards, Statistics & Numerical Data, Trends]
- 15 Quality Assurance, Health Care/mt, st, sn, td [Methods, Standards, Statistics & Numerical Data, Trends]
- 16 "Information Storage and Retrieval"/mt, st, sn, td [Methods, Standards, Statistics & Numerical Data, Trends]
- 17 Data Collection/
- 18 Medical Records/
- 19 Electronic Health Records/
- 20 Health Records, Personal/
- 21 Medical Record Linkage/
- 22 Medical Records Systems, Computerized/
- 23 Registries/mt, og, st, sn [Methods, Organization & Administration, Standards, Statistics & Numerical Data]
- 24 (data\$ adj3 (quality, or link\$ or accu\$ or digit\$ or electronic\$ or record or paramed\$ or prehospital or pre-hospital)).tw.
- 25 "electronic medical record".tw.
- 26 "record linkage".tw.
- 27 "paramedic record".tw.
- 28 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27
- 29 13 and 28
- 30 limit 29 to yr="2011 -Current"

EMBASE

- 1 emergency health service/
- 2 rescue personnel/
- 3 ambulance transportation/
- 4 ambulance/
- 5 paramed\$.tw.
- 6 prehospital.tw.
- 7 pre-hospital.tw.
- 8 ambulance.tw.
- 9 ems.tw.
- 10 "first respond\$".tw.
- 11 "emergency medical technician\$".tw.
- 12 "emergency services".tw.
- 13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
- 14 total quality management/
*clinical effectiveness/ or *performance measurement system/ or *program evaluation/ or *public
- 15 health systems research/
- 16 information retrieval/
- 17 information storage/
- 18 data extraction/
- 19 medical information system/
- 20 electronic medical record/ or electronic medical record system/
- 21 *electronic health record/ or *electronic patient record/
- 22 *patient registry/ or *clinical trial registry/ or *death registry/ or *disease registry/
(data\$ adj3 (quality, or link\$ or accu\$ or digit\$ or electronic\$ or record or paramed\$ or prehospital or
pre-hospital)).tw.
- 23 pre-hospital).tw.
- 24 "electronic medical record".tw.
- 25 "record linkage".tw.
- 26 "paramedic record".tw.
- 27 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
- 28 13 and 27
- 29 limit 28 to yr="2011 -Current"

Scopus

- 1 KEY "emergency medical services"
- 2 KEY "emergency medical technicians"
- 3 KEY "ambulance"
- 4 KEY paramedic
- 5 KEY prehospital
- 6 KEY pre-hospital
- 7 KEY "first respond**"
- 8 KEY "emergency services"
- 9 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9
- 10 KEY "quality improvement"
- 11 KEY "quality assurance, health care"
- 12 KEY "information storage"
- 13 KEY "information retrieval"
- 14 KEY "data collection"
- 15 KEY "medical records"
- 16 KEY "electronic health records"
- 17 KEY "health records, personal"
- 18 KEY "medical record linkage"
- 19 KEY "medical records systems, computerized"
- 20 KEY "patient regist**"
- 21 TITLE-ABS-KEY data* W/3 ("quality" OR "link*" OR "accu*" OR "digit*" OR "electronic*" OR "record" OR "paramedic" OR "prehospital" OR "pre-hospital")
- 22 TITLE-ABS-KEY "electronic medical record"
- 23 TITLE-ABS-KEY "record linkage"
- 24 TITLE-ABS-KEY "paramedic record"
- 25 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24
- 26 9 AND 25
- 27 LIMIT 26 (2011 - CURRENT)

CINAHL

1	(MH "Emergency Medical Services")	Expanders - Apply equivalent subjects
2	(MH "Emergency Medical Technicians")	Expanders - Apply equivalent subjects
3	(MH "Ambulances")	Expanders - Apply equivalent subjects
4	TX paramedic	Expanders - Apply equivalent subjects
5	TX prehospital	Expanders - Apply equivalent subjects
6	TX pre-hospital	Expanders - Apply equivalent subjects
7	TX ambulance	Expanders - Apply equivalent subjects
8	TX ems	Expanders - Apply equivalent subjects
9	TX emt	Expanders - Apply equivalent subjects
10	TX "first respond#"	Expanders - Apply equivalent subjects
11	TX "emergency medical technician#"	Expanders - Apply equivalent subjects
12	TX "emergency services"	Expanders - Apply equivalent subjects
13	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12	Expanders - Apply equivalent subjects
14	(MH "Quality Improvement/TD/SN/ST")	Expanders - Apply equivalent subjects
15	(MH "Quality of Health Care/TD/SN/ST/MT")	Expanders - Apply equivalent subjects
16	(MH "Information Retrieval/MT/ST/TD/EV")	Expanders - Apply equivalent subjects
17	(MH "Information Storage/EV/MT/ST/TD")	Expanders - Apply equivalent subjects
18	(MH "Data Collection")	Expanders - Apply equivalent subjects
19	(MH "Medical Records")	Expanders - Apply equivalent subjects
20	(MH "Electronic Health Records")	Expanders - Apply equivalent subjects
21	(MH "Medical Records, Personal")	Expanders - Apply equivalent subjects
22	(MH "Medical Record Linkage")	Expanders - Apply equivalent subjects
23	(MH "Registry Personnel/MT/ST/SN/TD")	Expanders - Apply equivalent subjects
24	TX data# N3 (quality or link# or accu# or digit# or electronic# or record or paramedic or prehospital or pre-hospital)	Expanders - Apply equivalent subjects
25	TX "electronic medical record"	Expanders - Apply equivalent subjects
26	TX "record linkage"	Expanders - Apply equivalent subjects
27	TX "paramedic record"	Expanders - Apply equivalent subjects
28	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	Expanders - Apply equivalent subjects
29	S13 AND S28	Limiters - Published Date: 20110101-20211231