**Database: Ovid MEDLINE(R) Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>  
Search Strategy:**--------------------------------------------------------------------------------  
1     "Referral and Consultation"/ (60684)  
2     (consult\* or referral\*).tw,kw. (197862)  
3     1 or 2 (226764)  
4     Emergency Service, Hospital/ (57771)  
5     emergency department\*.tw,kw. (74150)  
6     4 or 5 (100814)  
7     3 and 6 (7850)  
8     organizational efficiency/ (20544)  
9     (time adj4 (reduc\* or decreas\*)).tw,kw. (107628)  
10     (response adj2 time\*).tw,kw. (23870)  
11     efficiency.tw,kw. (357755)  
12     workflow/ (3042)  
13     quality improvement/ or quality improvement\*.tw,kw. (39770)  
14     patient flow.tw,kw. (1535)  
15     timeliness.tw,kw. (3739)  
16     "Length of Stay"/sn [Statistics & Numerical Data] (17991)  
17     ((ed or emergency) adj4 (los or "length of stay" or throughput\*)).tw,kw. (1644)  
18     (time adj3 (admission\* or admit\*)).tw,kw. (9484)  
19     patient admission/sn (7930)  
20     or/8-19 (574640)  
21     7 and 20 (1073)  
22     (child/ or infant/ or adolescence/) not adult/ (1488609)  
23     21 not 22 (973)  
24     (pediatric\* or paediatric\* or child\*).jw. (571726)  
**25     23 not 24 (952)**

**Database: Embase Classic+Embase <1947 to 2018 May 11>  
Search Strategy:**--------------------------------------------------------------------------------  
1     \*emergency ward/ or \*emergency health service/ (66614)  
2     emergency department\*.tw. (108741)  
3     1 or 2 (146901)  
4     \*consultation/ or \*patient referral/ (27933)  
5     (consult\* or referral\*).tw. (311898)  
6     4 or 5 (318647)  
7     \*"length of stay"/ (9160)  
8     organizational efficiency/ or efficiency.tw. (421097)  
9     response time/ (19878)  
10     (response adj2 time\*).tw. (28624)  
11     (time adj4 (reduc\* or decreas\*)).tw,kw. (151241)  
12     patient flow.tw. (2350)  
13     timeliness.tw. (5123)  
14     ((ed or emergency) adj4 (los or "length of stay" or throughput\*)).tw. (2802)  
15     total quality management/ (48636)  
16     quality improvement\*.tw. (40351)  
17     (time adj3 (admission\* or admit\*)).tw. (16788)  
18     7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 (698354)  
19     3 and 6 and 18 (1314)  
20     remove duplicates from 19 (1282)  
21     (child/ or infant/ or adolescent/) not adult/ (1763283)  
22     20 not 21 (1168)  
23     (pediatric\* or paediatric\* or child\*).jx. (724119)  
**24     22 not 23 (1141)**

**Database: EBM Reviews - Cochrane Central Register of Controlled Trials <April 2018>  
Search Strategy:**  
--------------------------------------------------------------------------------  
1     "Referral and Consultation"/ (1636)  
2     (consult\* or referral\*).tw,kw. (13726)  
3     1 or 2 (14126)  
4     Emergency Service, Hospital/ (1811)  
5     emergency department\*.tw,kw. (6276)  
6     4 or 5 (6657)  
7     3 and 6 (531)  
8     organizational efficiency/ (105)  
9     (time adj4 (reduc\* or decreas\*)).tw,kw. (16505)  
10     (response adj2 time\*).tw,kw. (3755)  
11     efficiency.tw,kw. (10762)  
12     workflow/ or workflow.tw,kw. (457)  
13     quality improvement/ or quality improvement\*.tw,kw. (1777)  
14     patient flow.tw. (71)  
15     timeliness.tw,kw. (181)  
16     "Length of Stay"/ or "length of stay".tw,kw. (11597)  
17     throughput.tw,kw. (484)  
18     (time adj3 (admission\* or admit\*)).tw,kw. (1138)  
19     patient admission/ (529)  
20     or/8-19 (44948)  
**21     7 and 20 (99**)

**CINAHL**

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| --- | --- | --- |
| **#** | **Query** | **Results** |
|  |  |  |
| S23 | S3 AND S7 AND S22 | 529 |
| S22 | 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 | 104,517 |
| S21 | TI (time N3 admission\*) OR AB (time N3 admission\*) OR TI (time N3 admit\*) OR AB (time N3 admit\*) | 3,388 |
| S20 | (MH "Patient Admission/SN") | 1,681 |
| S19 | TI (emergency N4 los) OR AB (emergency N4 los) OR TI (emergency N4 "length of stay") OR AB (emergency N4 "length of stay") OR TI (emergency N4 throughput) OR AB (emergency N4 throughput) | 584 |
| S18 | TI (ed N4 los) OR AB (ed N4 los) OR TI (ed N4 "length of stay") OR AB (ed N4 "length of stay") OR TI (ed N4 throughput) OR AB (ed N4 throughput) | 728 |
| S17 | (MH "Length of Stay/SN") | 4,313 |
| S16 | TI (response N2 time\*) OR AB (response N2 time\*) | 4,413 |
| S15 | TI quality improvement\* OR AB quality improvement\* | 15,512 |
| S14 | TI timeliness OR AB timeliness | 1,630 |
| S13 | TI (time N4 decreas\*) OR AB (time N4 decreas\*) | 10,060 |
| S12 | TI (time N4 reduc\*) OR AB (time N4 reduc\*) | 11,954 |
| S11 | TI timeliness OR AB timeliness | 1,630 |
| S10 | TI patient flow OR AB patient flow | 1,050 |
| S9 | TI efficiency OR AB efficiency | 26,199 |
| S8 | (MH "Organizational Efficiency+") | 31,801 |
| S7 | S4 OR S5 OR S6 | 95,319 |
| S6 | TI referral\* OR AB referral\* | 34,584 |
| S5 | TI consult\* OR AB consult\* | 44,748 |
| S4 | (MH "Referral and Consultation+") | 32,248 |
| S3 | S1 OR S2 | 66,638 |
| S2 | TI emergency department OR AB emergency department | 40,063 |
| S1 | (MH "Emergency Service+") | 46,414 |