

eAppendix 1: Complete search strategy

Database: CINAHL – 1982 – present

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- 1 S4 AND S15 AND S24
 - 2 S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23
 - 3 TI prognos* OR AB prognos* OR TI predict* OR AB predict*
 - 4 TI outcome*
 - 5 TI hospital stay OR AB hospital stay OR TI hospitali?ation OR AB hospitali?ation OR TI institutional?ation OR AB institutional?ation
 - 6 TI discharge* OR AB discharge*
 - 7 TI ((dead or died)) OR AB ((dead or died))
 - 8 TX death OR AB death
 - 9 TI mortality OR AB mortality
 - 10 (MH "Mortality") OR (MH "Hospital Mortality")
 - 11 S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14
 - 12 TI (femoral N2 surger*) OR AB (femoral N2 surger*) OR TI (femoral N2 fracture*) OR AB (femoral N2 fracture*)
 - 13 TI (hip N2 surger*) OR AB (hip N2 surger*) OR TI (hip N2 fracture*) OR AB (hip N2 fracture*)
 - 14 TI (surgery or surgical or operative or operation*)
 - 15 TI surgical patient* OR AB surgical patient*
 - 16 (MH "Surgical Patients")
 - 17 TI (noncardiac N1 surg*) OR AB (noncardiac N1 surg*) OR TI (non cardiac N1 surg*) OR AB (non cardiac N1 surg*)
 - 18 TI (following N2 surg*) OR AB (following N2 operat*) OR TI (after N2 surg*) OR AB (after N2 operat*)
 - 19 TI ((postoperat* or post operat*)) OR AB ((postoperat* or post operat*)) OR TI ((postsurg* or post surg*)) OR AB ((postsurg* or post surg*))
 - 20 (MH "Postoperative Care")
 - 21 (MH "Postoperative Complications")
 - 22 S1 OR S2 OR S3
 - 23 TI (cognit* N1 dysfunction) OR AB (cognit* N1 dysfunction) OR TI (cognit* N1 impair*) OR AB (cognit* N1 impair*)
 - 24 TI ((delirium or delirious or acute* confus*)) OR AB ((delirium or delirious or acute* confus*))
 - 25 (MH "Delirium")

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present> Search Strategy:

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- 1 Delirium/ or Confusion/
 - 2 (delirium or delirious or acute\$ confus\$).tw.
 - 3 (cognit\$ adj1 (dysfunction or impair\$)).tw.
 - 4 or/1-3
 - 5 Postoperative Complications/ or Postoperative Care/
 - 6 (postoperat\$ or post operat\$).tw.
 - 7 (postsurg\$ or post surg\$).tw.

8 ((following or after) adj2 (surg\$ or operat\$)).tw.
 9 ((noncardiac or non cardiac) adj1 surg\$).tw.
 10 surgical patient\$.tw.
 11 (surgery or surgical or operative or operation\$).ti.
 12 Hip Fractures/ or Femoral Fractures/
 13 ((hip or femoral) adj2 (surger\$ or fracture\$)).tw.
 14 or/5-13
 15 4 and 14
 16 mortality/ or hospital mortality/
 17 (mortality or death or dead or died or discharge\$ or hospital stay or hospitali?ation or
 institutional?ation).tw.
 18 outcome\$.ti.
 19 (prognos\$ or predict\$).tw.
 20 16 or 17 or 18 or 19
 21 15 and 20
 22 animals/ not humans/
 23 21 not 22
 24 limit 23 to yr="1981 -Current"

Database: Embase Classic+Embase <1947 to Present> Search Strategy:

1 *delirium/ or *confusion/ or acute confusion/
 2 (delirium or delirious or acute\$ confus\$).tw.
 3 (cognit\$ adj1 (dysfunction or impair\$)).tw.
 4 or/1-3
 5 *postoperative complication/
 6 (postoperat\$ or post operat\$).tw.
 7 (postsurg\$ or post surg\$).tw.
 8 ((following or after) adj2 (surg\$ or operat\$)).tw.
 9 ((noncardiac or non cardiac) adj1 surg\$).tw.
 10 surgical patient\$.tw.
 11 (surgery or surgical or operative or operation\$).ti.
 12 *hip fracture/ or *femur neck fracture/
 13 ((hip or femoral) adj2 (surger\$ or fracture\$)).tw.
 14 or/5-13
 15 4 and 14
 16 postoperative delirium/
 17 15 or 16
 18 *mortality/ or *surgical mortality/
 19 (mortality or death or dead or died or discharge\$ or hospital stay or hospitali?ation or
 institutional?ation).tw.
 20 outcome\$.ti.
 21 (prognos\$ or predict\$).tw.
 22 or/18-21
 23 17 and 22
 24 exp animals/ not humans/

25 23 not 24
26 limit 25 to yr="1981 -Current"

Database: PsycINFO <1806 to Present> Search Strategy:

1 Delirium/ or Cognitive Impairment/ or Mental confusion/
2 (delirium or delirious or acute\$ confus\$).tw.
3 (cogniti\$ adj1 (dysfunction or impair\$)).tw.
4 1 or 2 or 3
5 Postsurgical Complications/ or Surgery/ or Surgical Patients/
6 (postoperat\$ or post operat\$).tw.
7 (postsurg\$ or post surg\$).tw.
8 ((following or after) adj2 (surg\$ or operat\$)).tw.
9 ((noncardiac or non cardiac) adj1 surg\$).tw.
10 (surgery or surgical or operative or operation\$).ti.
11 ((hip or femoral) adj2 (surger\$ or fracture\$)).tw.
12 surgical patient\$.tw.
13 or/5-12
14 4 and 13
15 "Death and Dying"/
16 (mortality or death or dead or died or discharge\$ or hospital stay or hospitali?ation or
institutionali?ation).tw.
17 outcome\$.ti.
18 (prognos\$ or predict\$).tw.
19 or/15-18
20 14 and 19
21 limit 20 to yr="1981 -Current"
22 limit 21 to human

Database: Pubmed

(((((((((delirium[Title/Abstract]) OR delirious[Title/Abstract]) OR confusion[Title/Abstract]) OR
cognitive dysfunction*[Title/Abstract]) OR cognitive impairment*[Title/Abstract]))) AND
(((((((((((postoperat*[Title/Abstract]) OR post operat*[Title/Abstract]) OR postsurg*[Title/Abstract])
OR post surg*[Title/Abstract]) OR following surg*[Title/Abstract]) OR after surg*[Title/Abstract]) OR
following operat*[Title/Abstract]) OR after operat*[Title/Abstract]))) OR (((((surgical
patient*[Title/Abstract]) OR hip surger*[Title/Abstract]) OR femoral surger*[Title/Abstract]) OR hip
fracture*[Title/Abstract]) OR femoral fracture*[Title/Abstract]))) OR (((surgery[Title]) OR
surgical[Title]) OR operative[Title]) OR operation[Title]))) AND (((((((((((mortality[Title/Abstract]) OR
death[Title/Abstract]) OR dead[Title/Abstract]) OR discharge*[Title/Abstract]) OR hospital
stay[Title/Abstract]) OR hospitalization[Title/Abstract]) OR hospitalisation[Title/Abstract]) OR
institutionalization[Title/Abstract]) OR institutionalisation[Title/Abstract]) OR outcome*[Title]) OR
prognos*[Title/Abstract]) OR predict[Title/Abstract]))) AND (((((pubstatusaheadofprint[All Fields] OR
publisher[sb] OR pubmednotmedline[sb]))))