

FULL SEARCH STRATEGY OF MEDLINE (OVID) AND EMBASE (OVID) DATABASES

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions <1946 to October 25, 2023>

- 1 *Risk/ or *Risk Factors/ or *Risk Assessment/ or *Risk adjustment/ or *machine learning/ or *regression analysis/ or *algorithms/ 150591
- 2 (((predict* or prognos* or risk) adj (finding or factor* or model* or indice* or rule* or score* or stratification)) or machine learning or algorithm* or regression).ti,ab,kw,kf. 2269180
- 3 Anesthetics, Intravenous/ or Anesthesia, General/ or Anesthesia/ or General Surgery/ or *Monitoring, Intraoperative/ or *intraoperative care/ 171764
- 4 (intra-operative or intra operative or intraoperative or surg* or anaesthe* or anesthe* or operation*).ti,ab,kw,kf. 3120953
- 5 (1 or 2) and (3 or 4) 304728
- 6 Electrocardiography/ or Heart Rate/ or physiologic monitoring/ 400309
- 7 (heart rate or electrocardiogra* or heartbeat or tachycardi* or bradycardi* or ECG or physiologic* monitor*).ti,ab,kw,kf. 380509
- 8 Oximetry/ or Plethysmography/ or Hypoxia/ 97368
- 9 (oximeter or plethysmograph* or "blood oxygen level*" or "blood oxygen saturation*" or hypoxia or spo2).ti,ab,kw,kf. 171846
- 10 Blood Pressure/ or Blood Pressure Monitors/ 293888
- 11 ("mean arterial pressure" or "blood pressure" or "systol* pressure" or "diastol* pressure" or "pulse pressure" or hypotensi* or hypertensi* or normotensi*).ti,ab,kw,kf. 825357
- 12 *Carbon Dioxide/ or Capnography/ 40989
- 13 (capnograph* or hypercapni* or hypocapni* or normocapni* or "carbon dioxide" or capnometry or EtCO2 or end-tidal carbon dioxide).ti,ab,kw,kf. 81301
- 14 Body Temperature/ 49483
- 15 ("bod* temperature" or "organ temperature" or hypothermia or hyperthermia or normothermia).ti,ab,kw,kf. 97632
- 16 Electroencephalography/ or neuromuscular monitoring/ 162332
- 17 (pEEG or EEG or electroencehalogra* or neuromuscular monitor*).ti,ab,kw,kf. 96776
- 18 Blood Gas Analysis/ or ketones/40028
- 19 (blood gas analys* or blood test* or blood result* or ketone*).ti,ab,kw,kf. 76977
- 20 spirometry/ or tidal volume/ or respiratory rate/ or Positive-Pressure Respiration/ 53093
- 21 (peak inspiratory pressure* or airway pressure* or respiratory rate* or tidal volume* or minute volume or spirometry or FiO2 or fraction of inspired oxygen).ti,ab,kw,kf. 82035
- 22 blood glucose/ 183990
- 23 (blood sugar* or blood glucose or hypoglycaemia or hyperglycaemia or normoglycaemia).ti,ab,kw,kf. 122222
- 24 glucose tolerance/ or glycated hemoglobin/ 43390
- 25 (glucose tolerance or OGTT or glycated hemoglobin or HBA1C or fasting glucose).ti,ab,kw,kf. 116626
- 26 (22 or 23) not (24 or 25)186365

27 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 26
2183066

28 *Hospital Mortality/ or *Mortality/ or *Morbidity/ or *Postoperative Complications/ 214483

29 ((post-operative or postoperative or surgery-related or surgery-associated or post-surg*) adj
(complication* or morbidity or mortality)).ti,ab,kw,kf. 123935

30 Myocardial Ischemia/ or Myocardial Infarction/ or Acute coronary syndrome/ or Atrial
Fibrillation/ or ST Elevation Myocardial Infarction/ 308613

31 (cardiovascular or acute coronary syndrome or STEMI or NSTEMI or myocardial infarct* or
heart attack* or cardiac attack or heart infarct* or cardiovascular death* or non-fatal cardiac arrest or
coronary revascularisation* or major adverse cardiac event* or atrial fibrillation*).ti,ab,kw,kf. 854667

32 Pulmonary Embolism/ or Respiratory Distress Syndrome/ or Pulmonary Atelectasis/ or
Thromboembolism/ or Venous Thromboembolism/ or Venous Thrombosis/ or Pneumonia/ 185030

33 (venous thromboembolism or deep vein thromb* or pulmonary embol* or respi* complication or
lung* complication* or pulmonary complication* or pneumonia or acute respiratory distress syndrome or
ARDS or pulmonary aspiration* or atelectas* or lung collapse).ti,ab,kw,kf. 278786

34 Brain Ischemia/ or Stroke/ or Intracranial Embolism/ or Embolic Stroke/ or Cerebrovascular
Disorders/ or coma/ or Delirium/ 243086

35 (neuro* complication* or stroke* or cerebral vascular event* or cerebrovascular event* or
cerebrovascular accident* or brain vascular accident* or deliriu* or coma or focal deficit*).ti,ab,kw,kf.
409926

36 Acute Kidney Injury/ or Renal Replacement Therapy/ or Renal dialysis/ 155417

37 (acute kidney injur* or acute renal injur* or acute renal insufficienc* or acute kidney
insufficienc* or acute renal failure or acute kidney failure or AKI or Renal Replacement Therap* or renal
dialysis or kidney dialysis).ti,ab,kw,kf. 82077

38 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 2089227

39 5 and 27 and 38 12319

40 limit 39 to (english language and humans and yr="2013 -Current" and "all adult (19 plus years)")
3748

Embase <1974 to 2023 October 25>

1 *risk assessment/ or *risk/ or *surgical risk/ or *risk model/ or *risk algorithm/ or *prediction/ or
*machine learning/ 253200

2 (((predict* or prognos* or risk) adj (finding or factor* or model* or indice* or rule* or score* or
stratification)) or machine learning or algorithm* or regression).ti,ab,kw. 3167397

3 1 or 2 3288021

4 Anesthesia/ or surgery/ or General Surgery/ or *Monitoring, Intraoperative/ or *intraoperative
period/ 895081

5 (intra-operative or intra operative or intraoperative or surg* or anaesthe* or anesthe* or
operation*).ti,ab,kw. 4020449

6 4 or 5 4232312

7 Electrocardiography/ or Heart Rate/ or electrocardiography monitoring/ or physiologic monitoring/ 414417

8 (heart rate or electrocardiogra* or heartbeat or tachycardi* or bradycardi* or ECG or physiologic* monitor*).ti,ab,kw. 532393

9 Oximetry/ or pulse oximetry/ or Plethysmography/ or Hypoxia/ 177917

10 (oximeter or plethysmograph* or "blood oxygen level*" or "blood oxygen saturation*" or hypoxia or spo2).ti,ab,kw. 237023

11 Blood Pressure/ or Blood Pressure Monitors/ or blood pressure monitoring/ or blood pressure monitor/ 333707

12 ("mean arterial pressure" or "blood pressure" or "systol* pressure" or "diastol* pressure" or "pulse pressure" or hypotensi* or hypertensi* or normotensi*).ti,ab,kw. 1216416

13 end tidal carbon dioxide tension/ or capnography/ or capnometry/ or *carbon dioxide/ 59184

14 (capnograph* or hypercapni* or hypocapni* or normocapni* or "carbon dioxide" or capnometry or EtCO2 or end-tidal carbon dioxide).ti,ab,kw. 90320

15 Body Temperature/ 60687

16 ("bod* temperature" or "organ temperature" or hypothermia or hyperthermia or normothermia).ti,ab,kw. 114744

17 Electroencephalography/ or electroencephalography monitoring/ or neuromuscular monitoring/ 122279

18 (pEEG or EEG or electroencehalogra* or neuromuscular monitor*).ti,ab,kw. 141933

19 Blood Gas Analysis/ 24092

20 (blood gas analys* or blood test* or blood result*).ti,ab,kw. 65213

21 Ketone/ or ketone body/31144

22 (blood ketone* or ketos*).ti,ab,kw. 9822

23 glucose blood level/ 318234

24 (((blood or serum or plasma) adj (sugar or glucose)) or (hypoglycaemia or hyperglycaemia or normoglycaemia)).ti,ab,kw,kf. 241925

25 glucose tolerance/ or hemoglobin A1c/ 179514

26 (glucose tolerance or OGTT or glycated hemoglobin or HBA1C or fasting glucose).ti,ab,kw,kf. 201148

27 (23 or 24) not (25 or 26)279287

28 spirometry/ or tidal volume/ or breathing rate/ or Positive-Pressure ventilation/ 132716

29 (peak inspiratory pressure* or airway pressure* or respiratory rate* or tidal volume* or minute volume or spirometry or FiO2 or fraction of inspired oxygen).ti,ab,kw. 130278

30 7 or 8 or 9 or 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 27 or 28 or 29 2850581

31 *excess mortality/ or *surgical mortality/ or *in-hospital mortality/ or *mortality/ or *mortality risk/ or *hospital mortality/ or *all cause mortality/ or *mortality rate/ or *out-of-hospital mortality/ or *Postoperative Complications/ 190979

32 ((post-operative or postoperative or surgery-related or surgery-associated or post-surg*) adj (complication* or morbidity or mortality)).ti,ab,kw. 171791

33 heart Infarction/ or Acute coronary syndrome/ or Atrial Fibrillation/ or acute heart infarction/ or ST segment elevation myocardial infarction/ 565827

- 34 (cardiovascular or acute coronary syndrome or STEMI or NSTEMI or myocardial infarct* or heart attack* or cardiac attack or heart infarct* or cardiovascular death* or non-fatal cardiac arrest or coronary revascularisation* or major adverse cardiac event* or atrial fibrillation*).ti,ab,kw.
1250031
- 35 Lung Embolism/ or Respiratory Distress Syndrome/ or Atelectasis/ or thromboembolism/ or arterial thromboembolism/ or venous thromboembolism/ or Pneumonia/ 462585
- 36 (venous thromboembolism or deep vein thromb* or pulmonary embol* or respi* complication or lung* complication* or pulmonary complication* or pneumonia or acute respiratory distress syndrome or ARDS or pulmonary aspiration* or atelectas* or lung collapse).ti,ab,kw,kf. 409380
- 37 hyperactive delirium/ or delirium/ or postoperative delirium/ or hypoactive delirium/ or cerebrovascular accident/ or postanoxic coma/ or Brain Ischemia/ or Stroke/ or Intracranial Embolism/ or Embolic Stroke/562925
- 38 (neuro* complication* or stroke* or cerebral vascular event* or cerebrovascular event* or cerebrovascular accident* or brain vascular accident* or deliriu* or coma or focal deficit*).ti,ab,kw.
634202
- 39 Acute Kidney Failure/ or Renal Replacement Therapy/ or hemodialysis/ 290871
- 40 (acute kidney injur* or acute renal injur* or acute renal insufficienc* or acute kidney insufficienc* or acute renal failure or acute kidney failure or AKI or Renal Replacement Therap* or renal dialysis or kidney dialysis or haemodialysis or hemodialysis).ti,ab,kw. 250875
- 41 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 3090935
- 42 3 and 6 and 30 and 41 25797
- 43 limit 42 to (human and english language and english and yr="2013 -Current" and (adult or aged))
13219
- 44 limit 43 to (article or article in press or conference paper or "preprint (unpublished, non-peer reviewed)") 6217