

Appendix 1 – Search strategy

Search strategy used for the general search

- 1 exp anesthesia
- 2 exp surgery
- 3 1 or 2
- 4 bleeding.m_titl.
- 5 blood loss.m_titl.
- 6 4 or 5
- 7 3 and 6
- 8 limit 7 to yr="2000 -Current"

Search strategy used for the specific searches

- 1 temperature.m_titl.
- 2 thermal.m_titl.
- 3 "hypotherm*".m_titl.
- 4 warming.m_titl.
- 5 thermogenesis.m_titl.
- 6 pH.m_titl.
- 7 acid-base.m_titl.
- 8 bicarbonate.m_titl.
- 9 calcium.m_titl.
- 10 ca2+.m_titl.
- 11 "hypocalc?em*".m_titl.
- 12 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11
- 13 blood loss.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug

manufacturer]

14 bleeding.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

15 h?emorrhag*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

16 coagulation.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

17 13 or 14 or 15 or 16

18 12 and 17

19 limit 18 to yr="2001 -Current"

1 Bleeding.m_titl.

2 Blood loss.m_titl.

3 "h?emorrhag*".m_titl.

4 "coagulop*".m_titl.

5 1 or 2 or 3 or 4

6 ICU.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

7 ITU.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

8 Intensive care.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

9 critical care.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

10 6 or 7 or 8 or 9

11 5 and 10

12 limit 11 to yr="2001 -Current"

- 1 preoperative
- 2 anemia
- 3 1 and 2
- 4 iron
- 5 autologous
- 6 erythropoietin
- 7 EPO
- 8 4 or 5 or 6 or 7
- 9 3 and 8
- 10 limit 9 to yr="2001 -Current" and "clinical trials"

- 1 "fluid*".m_titl.
- 2 volume.m_titl.
- 3 "hypovolemia*".m_titl.
- 4 "crystalloid*".m_titl.
- 5 "colloid*".m_titl.
- 6 hyperoncotic.m_titl.
- 7 hypertonic.m_titl.
- 8 albumin.m_titl.
- 9 dextran.m_titl.
- 10 starch.m_titl.
- 11 hydroxyethylstarch.m_titl.
- 12 isotonic saline.m_titl.
- 13 gelatin.m_titl.
- 14 "anemia*".m_titl.
- 15 oxygen delivery.m_titl.
- 16 "tissue oxygenation*".m_titl.
- 17 oxygen consumption.m_titl.
- 18 hemoglobin.m_titl.

- 19 acute renal failure.m_titl.
- 20 h?ematocrit.m_titl.
- 21 acetate.m_titl.
- 22 lactate.m_titl.
- 23 "vasopress*".m_titl.
- 24 tolerance to an?emia.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 25 critical oxygen delivery.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 26 critical h?ematocrit.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 27 critical h?emoglobin concentration.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 28 supply dependency.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 29 physiological transfusion trigger.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 30 side effects of transfusion.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 31 viscosity.m_titl.
- 32 osmolarity.m_titl.
- 33 functional capillary density.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 34 glycolix.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 35 fluid restriction.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 36 goal directed therapy.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 37 goal directed treatment.mp. [mp=title, abstract, subject headings, heading word, drug trade

name, original title, device manufacturer, drug manufacturer]

38 protocol based fluid.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

39 1 or 2 or 3 or 4 or 5 or 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 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38

40 (surg* or an?esth*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

41 (bleeding or blood loss or h?emorrhag* or coagulopath*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

42 39 and 40 and 41

43 limit 42 to yr="2001 -Current"

1 "obstetric*".m_titl.

2 "gyn?ecolog*".m_titl.

3 (peri-partum or peripartum).m_titl.

4 (post-partum or postpartum).m_titl.

5 (post-natal or postnatal).m_titl.

6 1 or 2 or 3 or 4 or 5

7 (bleeding or blood loss or h?emorrhag* or coagulopath*).mp. [mp=protocol supplementary concept, rare disease supplementary concept, title, original title, abstract, name of substance word, subject heading word, unique identifier]

8 6 and 7

9 limit 8 to yr="2001 -Current"

1 Fibrinogen.m_titl.

2 Prothrombin.m_titl.

3 factor XIII.m_titl.

4 factor IX.m_titl.

5 factor VIII.m_titl.

6 factor VII.m_titl.
7 factor VIIa.m_titl.
8 rFVIIa.m_titl.
9 factor 7.m_titl.
10 von Willebrand.m_titl.
11 protein C.m_titl.
12 "anti-fibrinolytic*.m_titl.
13 tranexamic acid.m_titl.
14 aprotinin.m_titl.
15 aminocaproic acid.m_titl.
16 trasylol.m_titl.
17 amicar.m_titl.
18 DDAVP.m_titl.
19 desmopressin.m_titl.
20 vitamin K.m_titl.
21 1 or 2 or 3 or 4 or 5 or 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
22 (surg* or an?esth*).mp. [mp=title, abstract, subject headings, heading word, drug trade
name, original title, device manufacturer, drug manufacturer]
23 21 and 22
24 limit 23 to yr="2001 -Current"

1 hip.m_titl.
2 knee.m_titl.
3 spinal surgery.m_titl.
4 scoliosis surgery.m_titl.
5 orthop?edic.m_titl.
6 1 or 2 or 3 or 4 or 5
7 (bleeding or blood loss or h?emorrhag* or coagulopath*).mp. [mp=title, abstract, subject
headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
8 (surg* or an?esth*).mp. [mp=title, abstract, subject headings, heading word, drug trade name,

original title, device manufacturer, drug manufacturer]

9 6 and 7 and 8

10 limit 9 to yr="2001 -Current"

1 liver.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

2 hepat*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

3 prostat*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

4 pancreat*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

5 Whipple*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

6 kidney transplant*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

7 renal transplant*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

8 variceal.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

9 peptic ulcer.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

10 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9

11 (h?emorrhag* or coagulopath*).m_titl.

12 (surg* or an?esth*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

13 10 and 11 and 12

1 heart.m_titl.

2 cardiac.m_titl.

- 3 bypass.m_titl.
- 4 coronary.m_titl.
- 5 "valv*".m_titl.
- 6 cardiopulmonary.m_titl.
- 7 vascular.m_titl.
- 8 "aort*".m_titl.
- 9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
- 10 (surg* or an?esth*).m_titl.
- 11 (bleeding or blood loss or h?emorrhag* or coagulopath*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
- 12 9 and 10 and 11
- 13 limit 12 to yr="2001 -Current"

Search strategy used to find all relevant systematic reviews

- 1 systematic review.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 2 meta-analysis.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 3 metaanalysis.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 4 1 or 2 or 3
- 5 perioperative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 6 peri-operative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 7 intraoperative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]

- 8 intra-operative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 9 postoperative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 10 post-operative.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 11 PACU.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 12 recovery.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 13 post?an?esth*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 14 ambulatory care.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 15 an?esth*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 16 post-an?esth*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 17 postan?esth*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer]
- 18 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
- 19 4 and 18