**SUPPLEMENTAL DIGITAL CONTENT 2. Search strategies**

**Medline (Ovid) and EMBASE (Ovid)**

1. exp emergency treatment/ or \*critical care/ or \*intensive care/ or exp perioperative care/ or \*preoperative care/ or \*surgical procedures, operative/

2. exp Hemorrhage/

3. (h?emorrhage or bleeding).tw.

4. (intensive care or ICU or critical care or acute care).tw.

5. (intraoperative or perioperative or postoperative).tw.

6. 1 or 2 or 3 or 4 or 5

7. blood transfusion/ or erythrocyte transfusion/

8. ((erythrocyte\* or RBC or red blood cell\* or h?ematocrit or h?emoglobin) adj5 (therapy or transfusion or administration or trigger or level or threshold or strategy or management)).tw.

9. (restrictive or liberal).tw.

10. 7 or 8 or 9

11. 6 and 10

12. exp clinical trials as topic/ or intervention studies/

13. Random Allocation/

14. random\*.tw.

15. placebo.tw.

16. randomi#ed controlled trial\*.pt.

17. trial.tw.

18. groups.tw.

19. 12 or 13 or 14 or 15 or 16 or 17 or 18

20. exp animals/ not humans.sh.

21. 19 not 20

22. 11 and 21

**CENTRAL**

#1 MeSH descriptor: [Critical Care] explode all trees

#2 MeSH descriptor: [Perioperative Care] explode all trees

#3 MeSH descriptor: [Perioperative Period] explode all trees

#4 MeSH descriptor: [Specialties, Surgical] explode all trees

#5 MeSH descriptor: [Hemorrhage] explode all trees

#6 perioperative:ab,ti or preoperative:ab,ti or surg\*:ab,ti or intensive care:ab,ti or bleeding:ab,ti or h?emorrhage:ab,ti

#7 #1 or #2 or #3 or #4 or #5 or #6

#8 MeSH descriptor: [Blood Transfusion] this term only

#9 MeSH descriptor: [Erythrocyte Transfusion] explode all trees

#10 ((erythrocyte\* or RBC or red blood cell\*) near/5 (therapy or transfusion or administration)):ab,ti

#11 ((h?ematocrit or h?emoglobin) near/5 (trigger or level or threshold)):ab,ti

#12 (transfusion near/5 (strategy or management or restrictive or liberal)):ab,ti

#13 #8 or #9 or #10 or #11 or #12

#14 #7 and #13