**Supplemental Appendix 1**

**Database**

Cochrane Central Register of Controlled Trials (CENTRAL) in the Cochrane Library

**Searchfilter**

#1MeSH descriptor Hemodilution explode all trees
#2hemodilution\*
#3haemodilution\*

#4MeSH descriptor Blood Transfusion, Autologous explode all trees
#5autologous blood transfus\*
#6autotransfusion\*
#7auto-transfusion\*
#8(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7)
#9MeSH descriptor Blood Transfusion explode all trees
#10MeSH descriptor Hemorrhage explode all trees
#11MeSH descriptor Anesthesia explode all trees
#12transfusion\*

#13bleed\*
#14blood loss\*
#15hemorrhag\*

#16haemorrhag\*
#17(#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16)
#15(#8 AND #17)

**Database**

Medline (Pubmed)

**Searchfilter**

(Hemodilution[Mesh] or hemodilution\* or haemodilution\* or Blood Transfusion, Autologous[Mesh] or autologous blood transfus\* or autotransfusion\* or auto-transfusion\* ) AND (Blood Transfusion[Mesh] or Hemorrhage[Mesh] or Anesthesia[Mesh] or transfusion\* or bleed\* or blood loss\* or hemorrhag\* or haemorrhag\*) AND (randomized controlled trial [pt] OR controlled clinical trial [pt] OR randomized controlled trials [mh] OR random allocation [mh] OR double-blind method [mh] OR single-blind method [mh] OR clinical trial [pt] OR clinical trials [mh] OR ("clinical trial" [tw]) OR ((singl\* [tw] OR doubl\* [tw] OR trebl\* [tw] OR tripl\* [tw]) AND (mask\* [tw] OR blind\* [tw])) OR placebos [mh]OR placebo\* [tw] OR random\* [tw] OR research design [mh: noexp]) NOT (animals [mh] NOT human [mh])

**Database**

EMBASE (Ovid SP)

**Searchfilter**

1.exp Hemodilution/
2.hemodilution\*.mp.
3.haemodilution\*.mp.
4.exp blood autotransfusion/
5.autologous blood transfus\*.mp.
6.autotransfusion\*.mp.
7.auto-transfusion\*.mp.
8.or/1-7
9.exp Blood Transfusion/
10.exp Bleeding/
11.exp Anesthesia/
12.transfusion\*.mp.
13.bleed\*.mp.
14.blood loss\*.mp.
15.hemorrhag\*.mp.
16.haemorrhag\*.mp.
17.or/9-16
18.8 and 17
19.exp crossover procedure/
20.exp double blind procedure/
21.exp single blind procedure/
22.exp randomized controlled trial/
23.(random\* or factorial\* or (crossover\* or (cross\* and over\*)) or placebo\* or (double\* and blind\*) or (singl\* and blind\*) or assign\*
or allocat\* or volunteer\*).af.
24.or/19-23
22.18 and 24

**Database**

Science Citation Index Expanded (http://portal.isiknowledge.com)

**Searchfilter**

#1Topic=(hemodilution\* or haemodilution\* or autologous blood transfus\* or autotransfusion\* or auto-transfusion\*)

#2Topic=(transfusion\* or Bleed\* or blood loss\* or hemorrhag\* or haemorrhag\*)

#3Topic=(random\* or rct\* or crossover or masked or blind\* or placebo\* or meta-analysis or systematic review\* or meta-analys\*)

#4#1 and #2 and #3