

Appendix 1. Ovid Medline Search Strategy

1. randomized controlled trial.pt.
2. controlled clinical trial.pt.
3. randomized.ab.
4. placebo.ab.
5. drug therapy.fs.
6. randomly.ab.
7. trial.ab.
8. groups.ab.
9. or/1-8
10. exp animals/ not humans.sh.
11. 9 not 10
12. exp Hydrocolloid/
13. exp Hetastarch/
14. ((amylopectin and hydroxyethyl) or asl 607 or colloid\$ or elo hes or elohes or elohaest or elohast or Elohes or Expafusin or expahes or haes or haessteril or haes steril or haes-steril or hemohes or hes steril or hespan or hespander or hestar or estar or hesteril or hetastarch\$ or Hextend or hydrocolloid\$ or hydroxy ethyl starch\$ or hydroxyathyl\$ or hydroxyethyl starch\$ or hydroxyethyl starke or hydroxyethylamidon\$ or hydroxyethylamylopectin or hydroxyethylstarch\$ or hyperhaes or isohas or hetastarch or lomol or lonol or onko #s or onkohaes or pentafraction or pentaspan or pentastarch or pentastarch\$ or plasmafusin or plasmasteril or rheohes or salinhes or salines or starch\$ or tetrakis or tetrastarch or varihes or venofundin or volex or voluven).tw.
15. (HES not (hypereosinophil\$ or embryo\$ or HES-1 or HES1 or HES-6 or HES6 or hospital episode stat\$ or health examination survey\$)).tw.
16. or/12-15
17. exp albumins/
18. exp colloids/
19. exp dextrans/
20. exp gelatin/
21. exp serum albumin/
22. exp hypertonic solutions/
23. exp hypotonic solutions/
24. exp isotonic solutions/
25. exp plasma substitutes/
26. exp plasma/
27. exp rehydration solutions/
28. exp serum/
29. (blood expander\$ or blood substitute\$ or isotonic saline solution\$ or plasma volume expander\$ or volume expander\$).tw.
30. ((ringe\$ adj lactat\$) or albumen\$ or albumin\$ or crystalloid\$ or dextran\$ or gelatin\$ or gelofus\$ or gentran\$ or haemaccel\$ or hartman or hemaccel\$ or hypertonic or hypotonic or isotonic or plasma\$ or potassium chloride or salin\$ or serum\$ or sodium chloride).ti,ab.

- 31. or/17-30
- 32. exp resuscitation/
- 33. exp burns/
- 34. exp emergency treatment/
- 35. exp fluid therapy/
- 36. exp hemorrhage/
- 37. exp sepsis/
- 38. exp shock/
- 39. exp septic shock/
- 40. exp traumatic shock/
- 41. exp hemorrhagic shock/
- 42. exp toxic shock syndrome/
- 43. exp cardiogenic shock/
- 44. exp hypovolemic shock/
- 45. exp Injury/
- 46. exp wounds/ and Injuries/
- 47. osmotic pressure/
- 48. ((fluid\$ or volume or plasma or rehydrat\$) adj3 (solution\$ or replace\$ or therap\$ or substitut\$ or restorat\$ or resuscitat\$ or rehydrat\$ or challenge or perfusion or intravenous or shock or trauma or burn\$ or h?emorrhage)).ti,ab.
- 49. or/32-48
- 50. 16 and 31
- 51. 49 and 50
- 52. 11 and 51