APPENDIX – Draft MEDLINE Search Strategy

1. Critical Illness/ or Critical Care/ or Intensive Care/ or Intensive Care Units/ or Burn Units/ or Respiratory Care Units/
2. (ICU* or SICU* or critical illness or critically ill or intensive care unit* or surgical intensive care or or ((intensive or critical) adj3 care)).ab,ti
3. Sepsis/ or Shock, septic/
4. (sepsis or septic* or SIRS or systemic inflammatory response syndrome or blood poisoning or pyaemia or pyemia or pyohemia or septic shock).ab,ti
5. Exp Shock/
6. (cardiogenic shock or traumatic shock or hemorrhag* or haemorrhag* or hemorrhagic shock or haemorrhagic shock or surgical shock).ab,ti
7. Exp Heart arrest/ or Exp Cardiopulmonary resuscitation/ or Anoxia/
8. (heart arrest* or out-of-hospital cardiac arrest* or sudden cardiac death or cardiac arrest* or cardiopulmonary resuscitation or cardio-pulmonary resuscitation or advanced cardiac life support or respiratory arrest or pulseless or anox*).ab,ti
9. Cranioencephalic Trauma/ or Brain Injuries/ or Brain Hemorrhage, Traumatic/ or Diffuse Axonal Injury/
10. (craniocerebral trauma or craniocerebral injur* or crushing skull injury or frontal region trauma or head injur* or multiple head injuries or head trauma or occipital region trauma or occipital trauma or parietal region trauma or temporal region trauma or brain injur* or brain contusion or TBI or brain lacerations or cortical contusion or post-traumatic encephalopathy or traumatic encephalopathy or traumatic brain hemorrhage or diffuse axonal inj*).ab,ti
11. Exp Positive-pressure Respiration/ or Respiration, artificial/ or High-frequency Ventilation/ or Noninvasive Ventilation/ or Ventilator weaning/ or Respiratory Insufficiency/ or Lung Injury/ or Acute Lung Injury/ or Ventilator-induced Lung Injury/ or Respiratory Distress Syndrome, Adult/
12. (positive-pressure respiration or positive end-expiratory pressure or positive-pressure ventilation or continuous positive airway pressure or intermittent positive-pressure breathing or intermittent positive-pressure ventilation or artificial respiration or mechanical ventilat* or (high-frequency adj3 ventilat*) or noninvasive ventilation or non-invasive ventilation or ventilator weaning or mechanical ventilator weaning or respirator weaning or respiratory insufficiency or respiratory failure or respiratory depression or ventilatory depression or lung inj* or pulmonary inj* or acute lung inj* or ALI or acute respiratory distress syndrome or adult respiratory distress syndrome or ARDS).ab,ti
13. exp Acute Kidney Injury/ or Renal Replacement Therapy/ or Renal Dialysis/ or Hemofiltration/
14. (acute kidney injury or AKI or acute kidney failure or acute kidney insufficiency or acute renal injury or acute renal insufficiency or acute renal failure or ARF or renal replacement therapy or RRT or kidney replacement therapy or renal dialysis or extracorporeal dialysis or hemodialysis or continuous renal replacement therapy or CRRT or continuous venovenous hemodiafiltration or CVVHDF or continuous venovenous hemofiltration or CVH or multiple organ failure or multiple organ system dysfunction or multisystem organ failure or multi-organ failure* or life support* or MODS or MSOF).ab,ti
15. Exp extracorporeal circulation/
16. (extracorporeal circulation or extracorporeal membrane oxygenation or ECMO or extracorporeal life support or ECLS).ab,ti.
17. or/1-16
18. limit 17 to systematic reviews
19. randomized controlled trial.pt.
20. controlled clinical trial.pt.
21. randomized.ab.
22. placebo.ab.
23. clinical trials as topic.sh
24. randomly.ab.
25. trial.ti.
26. or/19-25
27. exp animals/ not humans.sh
28. 26 not 27
29. 17 and 28
30. 18 or 29
31. exp Animals/ not (exp Animals/ and Humans/)
32. 30 not 31
33. (comment or editorial or interview or letter or news).pt.
34. 32 not 33
35. New England Journal of Medicine.jn
36. lancet.jn
37. (JAMA or Journal of the American Medical Association).jn
38. or/35-37
39. 34 and 38