**Appendix continued**

**Appendix 2: Search Strategies for PubMed**

**Note**: Search phrase was translated for Embase (Elsevier), Cochrane Central (Wiley), Cinahl (Ebscohost), and Web of Science (Clarivate Analytics).

**Last date searched**: March, 16 2020

**Search Phrase**: ((((("Extracorporeal Membrane Oxygenation"[Mesh] OR ecmo[tw] OR vaecmo[tw] OR ecls[tw] OR "va ecmo"[tw]))) OR ((extracorporeal\*[tw] OR extra corporeal\*[tw]) AND (membrane\*[tw] AND oxygenat\*[tw]))) OR (((extracorporeal\* AND life[tw]) AND (support[tw] OR supports[tw])))) AND ((("Pulmonary Embolism"[Mesh]) OR ((lung[tw] OR lungs[tw] OR pulmonary[tw]) AND (blood clot\*[tw]))) OR ((lung[tw] OR lungs[tw] OR pulmonary[tw]) AND (emboli[tw] OR embolus[tw] OR embolisms[tw] OR embolism[tw])))

**Appendix 3: Definitions of Bleeding Complications**97

**Major Bleeding in Surgical Patients**: fatal bleeding, symptomatic bleeding, critical site bleeding (see below), bleeding that causes fall in hemoglobin level > 2 g/dL, or bleeding that leads to transfusion of > 2 units of whole blood or red blood cells.

**Critical Site Bleeding**:any bleeding in a critical area or organ (i.e., intracranial, intraspinal, intraocular, retroperitoneal, intraarticular or pericardial, or intramuscular with compartment syndrome).