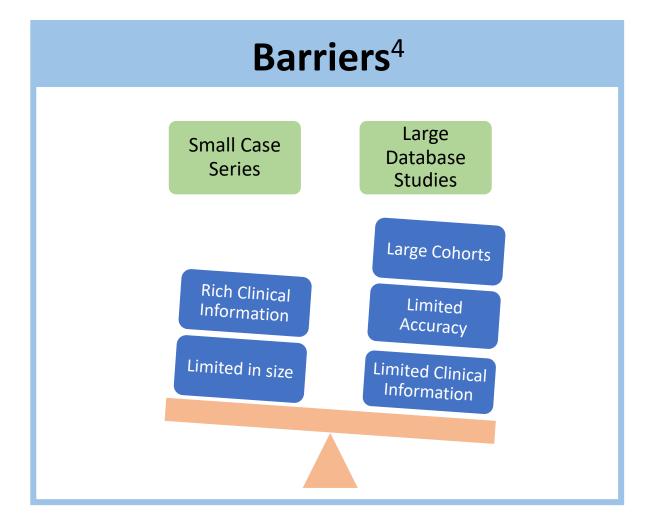




Leila Katabi, MD, Thomas Klumpner, MD, Shubhangi Singh, MD, Carlo Pancaro, MD, and David Arnolds, MD

Background^{1,2,3} Pathophysiology **Epidemiology** Maternal response to fetal tissue • Incidence: ~ 1 in 40,000 deliveries Systemic inflammatory response Mortality rate: 20-60% Presentation Treatment Acute pulmonary hypertension Cardiovascular support Cardiovascular collapse Correct coagulopathy **Amniotic Fluid** Ensure adequate circulating volume Coagulopathy **Embolism**



Hypothesis

ICD codes associated with AFE combined with anesthesia records with evidence of cardiopulmonary collapse and acute coagulopathy could identify a cohort of patients to investigate the acute management of suspected AFE.





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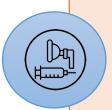
Methods



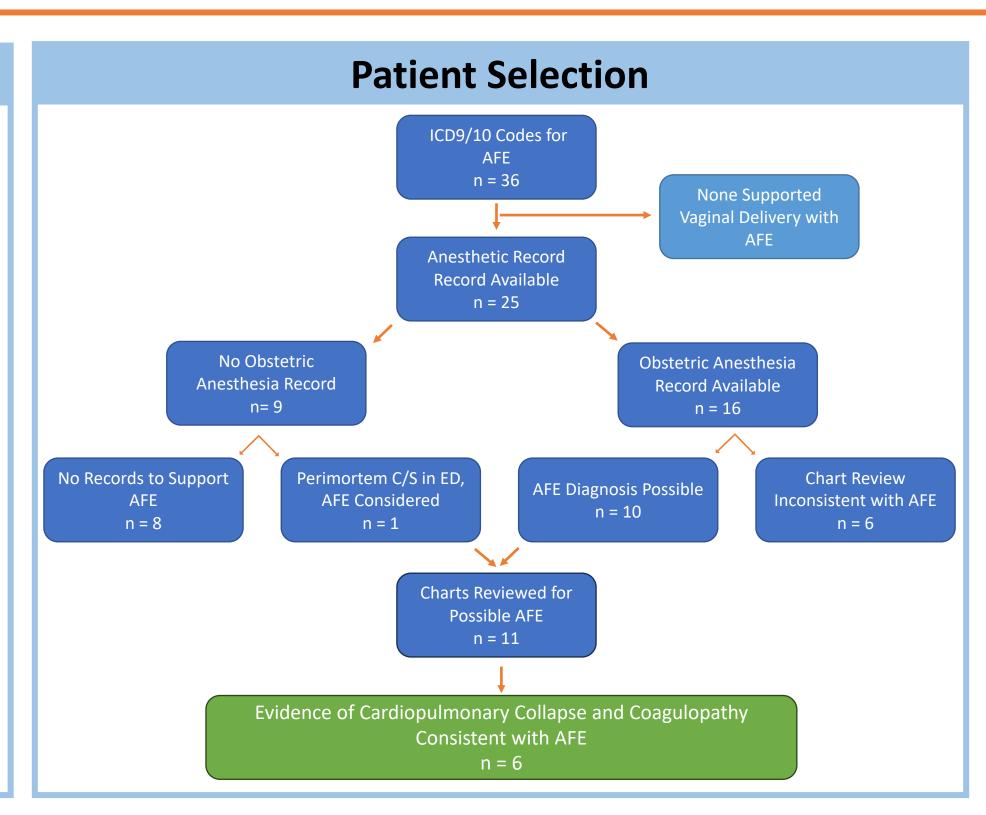
Retrospective chart review from 1/1/2000 – 1/31/2024 using AFE ICD9/10 codes



3 reviewers confirmed cardiopulmonary collapse and coagulopathy



Collected data on anesthetic management and patient outcomes







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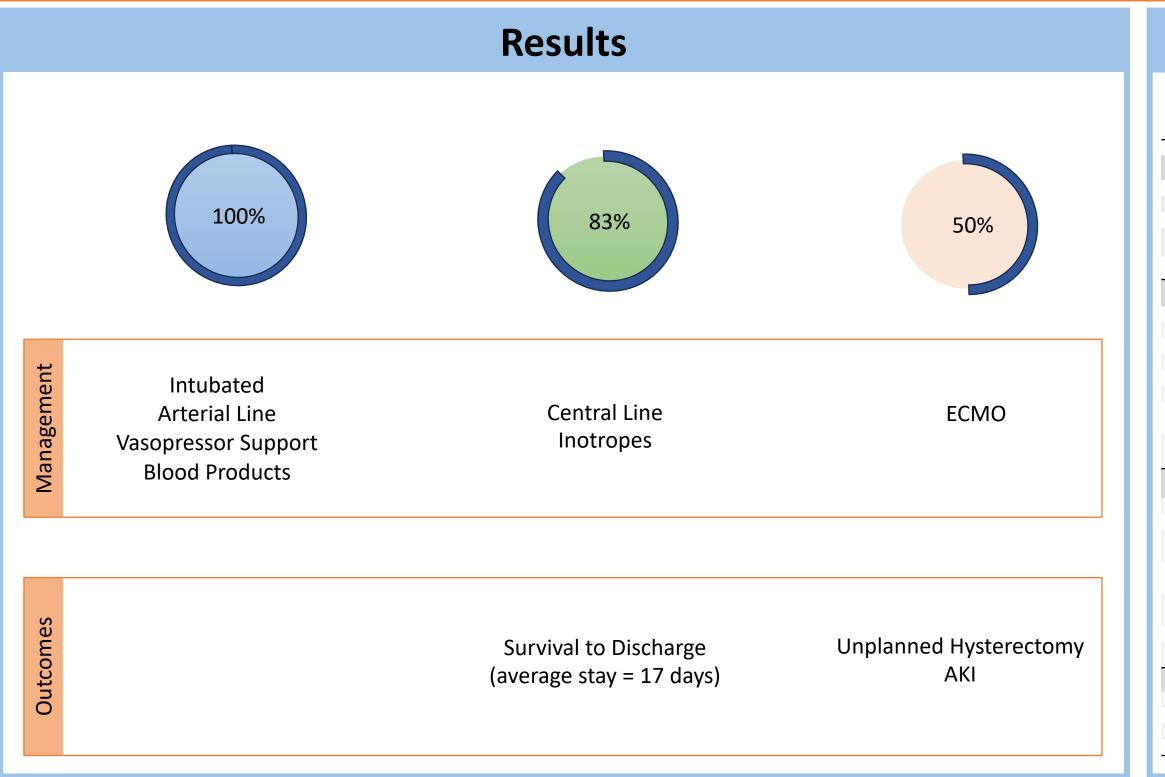


Table 1 Anesthetic management and outcomes in patients with suspected amniotic fluid embolism. Patient **Demographic Information** 42 40 30 28 37 22 Age (years) 32 27 32 33 28 BMI (kg/m²) 31 **Nulliparous** Yes No No No Yes Yes Intrapartum Intrapartum Intrapartum Perimortem Mode of Delivery D&C Vaginal C/S C/S C/S C/S 18w5d 39w1d 39w2d 39w0d Gestational Age 34w5d 25w **Cardiopulmonary Support** Intubation Yes Yes Yes Yes Yes Yes **Chest Compressions** Yes No No No Yes **Arterial Line** Yes Yes Yes Yes Yes Yes Central Line Yes Yes Yes Yes Vasopressors Yes Yes Yes Yes **Pulmonary Vasodilators** No No No No Yes No Transesophageal Yes No Yes No Yes Yes Echocardiography Extracorporeal No Yes No No Yes Yes Membrane Oxygenation **Blood Product Administration and Hemostatic Agents Blood Products** Yes Yes Yes 21 35 7 18 Red Blood Cells (units) 8 Fresh Frozen Plasma 5 17 31 11 0 (units) Platelets (apheresis 3 3 10 2 1 units) Fibrinogen 15 0 Concentrate (g) 15 Cryoprecipitate (units) 0 0 Tranexamic Acid (grams) 0 **Patient Outcomes** Yes Yes **Unplanned Hysterectomy** No No Yes No Acute Kidney Injury Yes No Yes No Yes Yes 34 5 11 15 37 Length of Stay (days) 1 Survival to discharge Yes Yes No Yes Yes Yes





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