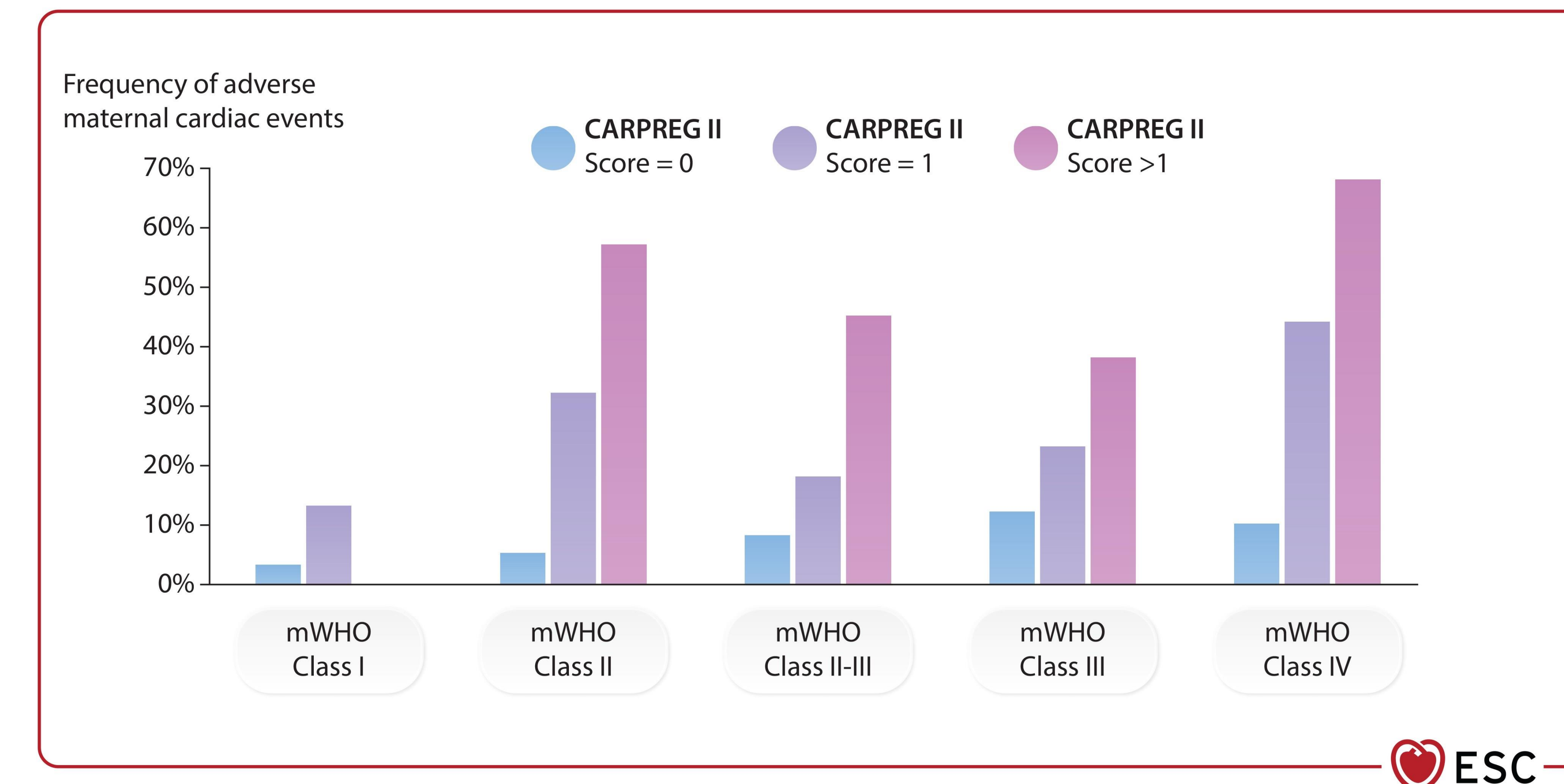
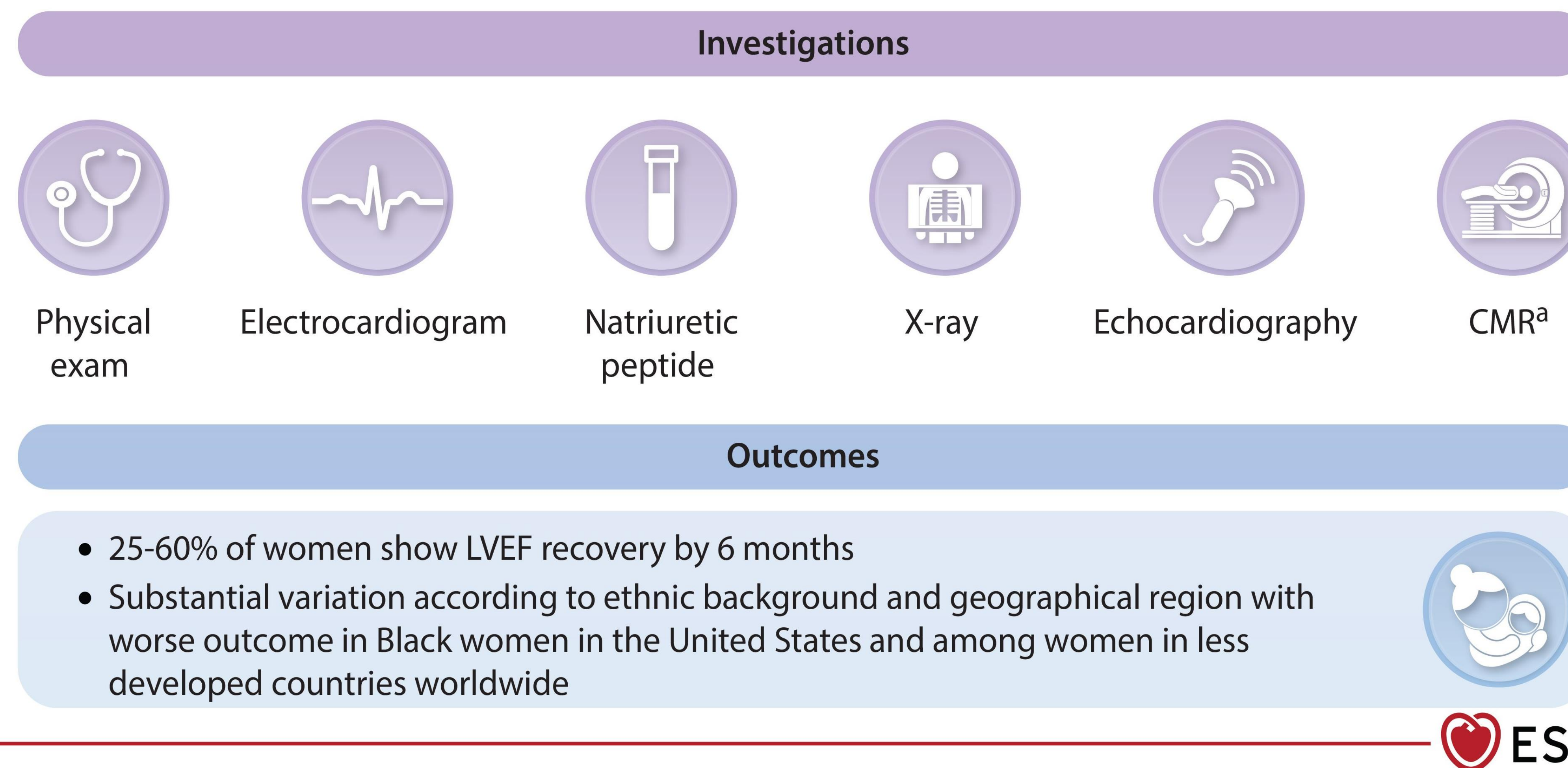


Background

- **Peripartum cardiomyopathy:** HF with reduced left ventricular ejection fraction (LVEF) <45%, without any other cause of HF, that occurs mainly during the peripartum period or in the months following delivery, termination, or miscarriage



Case Study: Severe PPCM (LVEF <15%) Management

28yo G1P0 at 35 weeks; severe heart failure with critical LVEF <15% (mWHO 2.0 class IV condition)



Anesthetic Plan:

- **Combined Spinal-Epidural (CSE)**
- Low dose spinal; slowly titrated to surgical levels to maintain hemodynamics

Hemodynamic Support:

- Prophylactic **Norepi & Epinephrine** gtts
- Continuous TTE & arterial line monitoring

High-Risk Contingency:

- Multidisciplinary team on standby
- **Primed ECMO circuit** and femoral sheaths in place

Outcome: Successful delivery; 500cc EBL; stable recovery & currently undergoing transplant evaluation



Teaching Points: Safe Neuraxial Anesthesia in Severe PPCM



Multidisciplinary Preparedness

- Requires seamless coordination between Anesthesiology, OB, Cardiology, and CT Surgery.
- **Crucial:** Immediate, primed access to Mechanical Circulatory Support (ECMO, VAD, or IABP) in case of sudden decompensation



Preload Optimization

- Prevent both volume overload (pulmonary edema) and hypovolemia (cardiovascular collapse).
- Requires dynamic, personalized fluid and vasopressor management.



Echocardiographic Assessment

- Real-time, continuous TTE provides instant feedback on ventricular function, filling pressures, and response to interventions.

