



Successful Cesarean Section in a COVID-19 Patient on ECMO

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Background

- COVID-19 has increased ECMO utilization
- COVID-19 morbidity and mortality is increased in pregnancy
- ECMO supported by a small body of literature as salvage therapy in pregnancy
- Successful delivery and survival of fetus while mother on ECMO rare

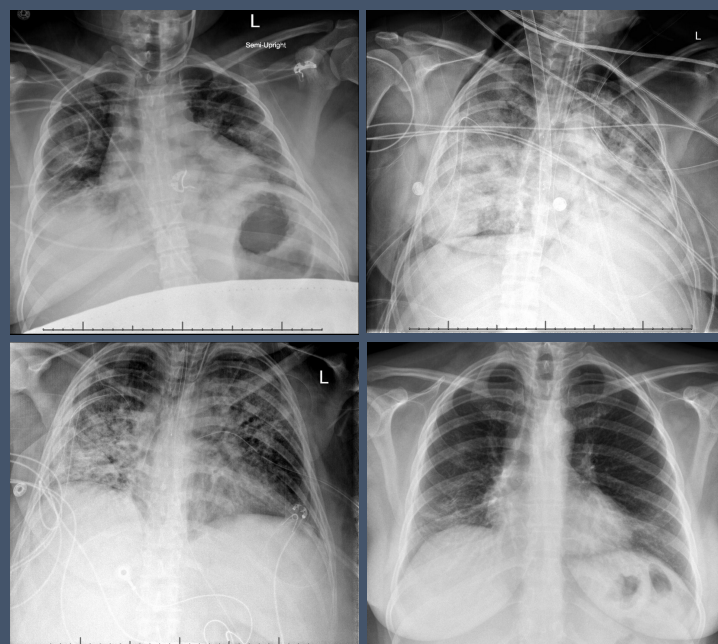
Case Report

Patient Details

- 37 years old
- G3P2002
- 26 weeks 3 days gestation at presentation
- No other significant past medical history

ECMO Details

- Veno-venous
- Right internal jugular vein placement
- 32 Fr dual-lumen Crescent cannula



Discussion

- Sustained fetal HR decelerations prompted emergent CS. Heparin was not held prior to procedure, only for 6 hr after.
- HIT positive on hospital day 18, switched to argatroban
- Nursing administered breast pumping able to provide 40mL Q4h of breast milk for neonate while on ECMO
- Total blood products: 3 PRBCs, 2 of which were given perioperatively after CS.
- Despite multiple complicating factors, ECMO provided a successful outcome to a situation that would likely have otherwise been a mortality for mother and fetus.

Day -3
+ COVID Test

Presentation
Dyspnea

Hour 6
Intubation

Day 7
Cannulation

Day 10
C-Section

Day 22
Decannulation

Day 49
DC to Rehab

