

Obesity and ECMO Challenges in Postpartum Code Blue

Fiona Chambers, M.D., Lindsey Gouker, M.D., Michael Hart, M.D.
University of North Carolina- Chapel Hill

Background

- A 37-year-old G1P0 female at 19w3d
- Past medical history of chronic hypertension, fibroids, obesity (BMI 44)
- Admitted for new-onset pre-viable super-imposed pre-eclampsia
- Additional findings: transaminitis, proteinuria, and early-onset fetal growth restriction

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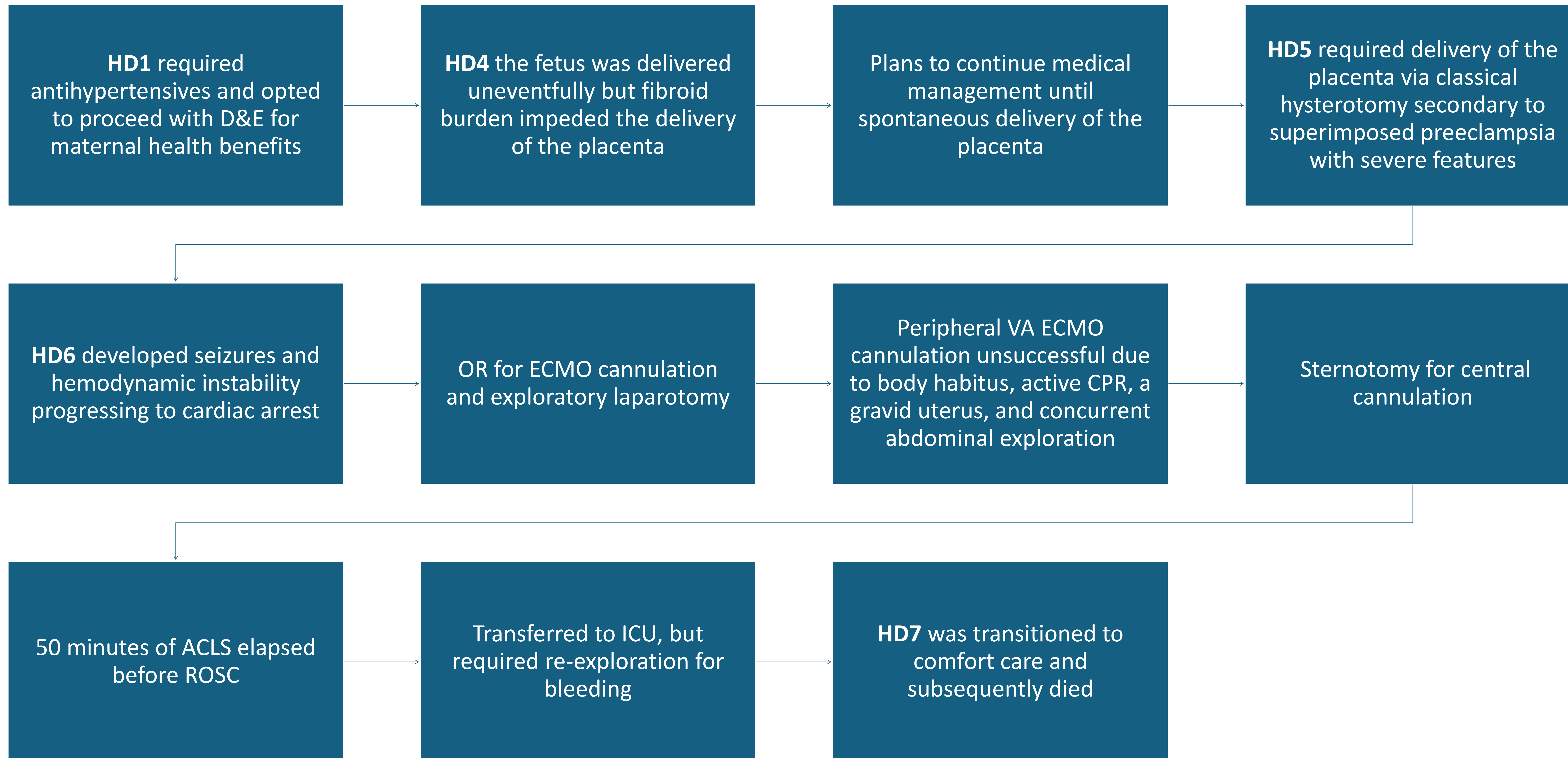
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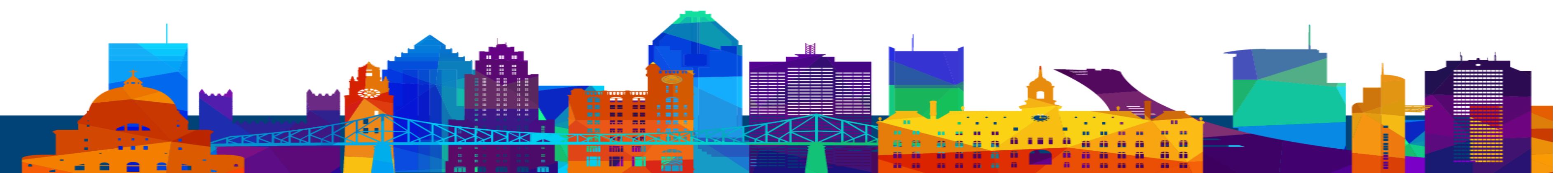
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Discussion & Conclusion

- Prevalence of obesity continues to increase and the implications relative to pregnancy are often unrecognized or overlooked¹
- Previously, a BMI >40 was considered a relative contraindication to ECMO²
- Although studies evaluating mortality in obese patients on ECMO have shown mixed results, it is recognized that obesity increases complications.
- Increased adiposity can obscure underlying vessels and result in suboptimal cannula positioning for ECMO³
- Early ECMO mobilization should be considered to offset unanticipated cannulation challenges

References

1. ACOG. Obstet Gynecol. 2021 Jun 1;137(6):1137-1139.
2. Ripoll JG et al. J Cardiothorac Vasc Anesth. 2024 Jan;38(1):285-298.
3. Huang X et al. BMC Pulm Med. 2024 Mar 28;24(1):157.



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