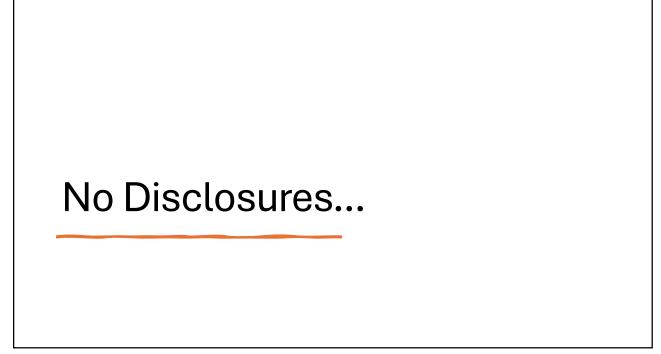
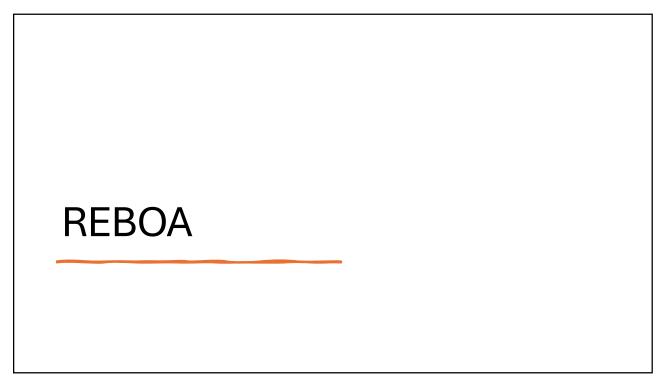
REBOA, ECPR, And Cryo... Oh My!

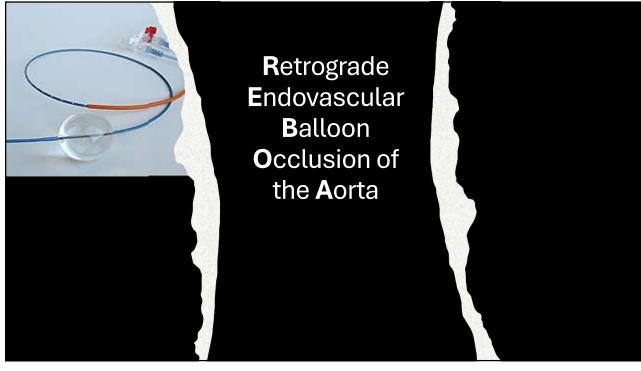
Kim Boswell, MD University of Maryland School of Medicine Critical Care Symposium 2024



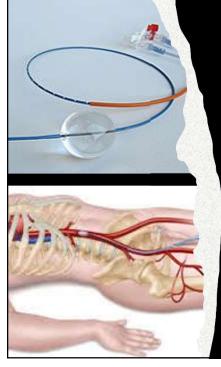
Objectives

- Know current recommendations and contraindications for the use of REBOA in the Emergency Department
- Understand current literature surrounding ECPR and what population might benefit from ECPR
- Review the literature on trauma induced coagulopathy
- Understand the role of fibrinogen concentrate and cryoprecipitate in the hemorrhaging trauma patient

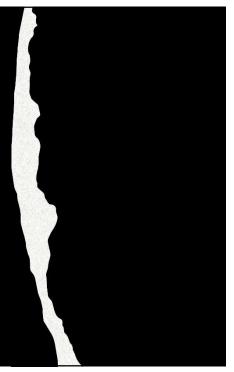


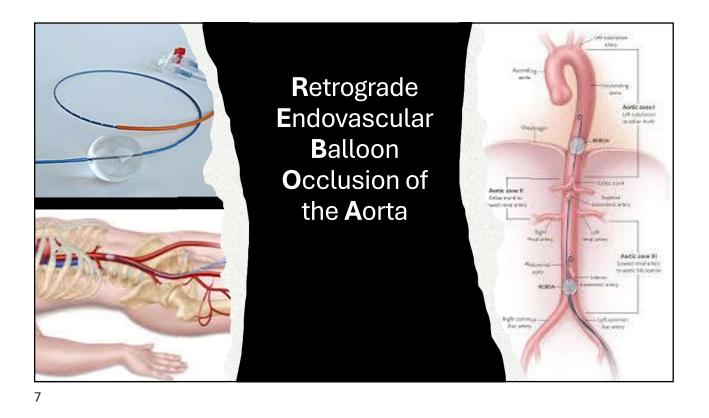


5



Retrograde Endovascular Balloon Occlusion of the Aorta







Early Experience

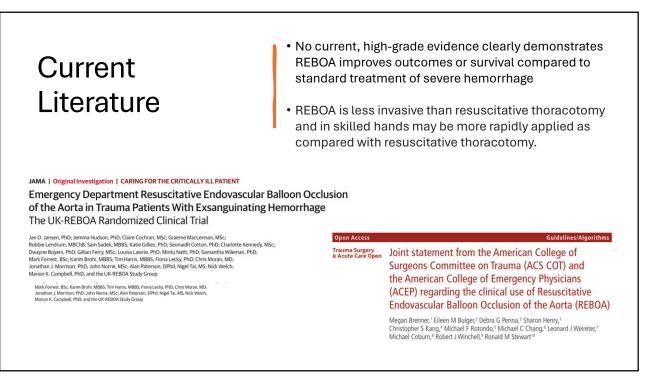
Current Literature

JAMA | Original Investigation | CARING FOR THE CRITICALLY ILL PATIENT

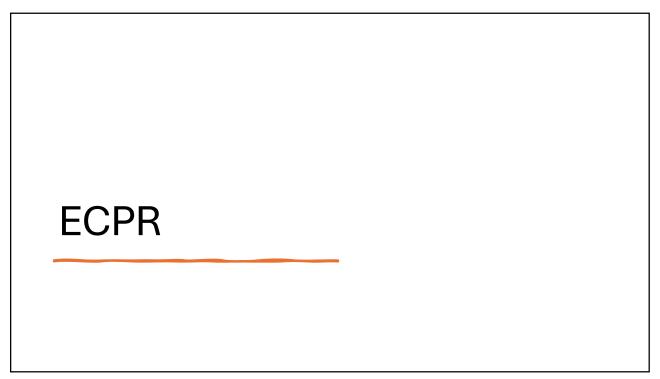
Emergency Department Resuscitative Endovascular Balloon Occlusion of the Aorta in Trauma Patients With Exsanguinating Hemorrhage The UK-REBOA Randomized Clinical Trial

Jan O. Jansen, PhD; Jemma Hudson, PhD; Claire Cochran, MSc; Graeme MacLennan, MSc; Robbie Lendrum, MBChB; Sam Sadek, MBBS; Katte Gillies, PhD; Seonaidh Cotton, PhD; Charlotte Kennedy, MSc; Dwayne Boyers, PhD; Gillian Ferry, MSc; Louist Lawire, PhD; Mint Nath, PhD; Samantha VH; Mark Forrest, BSc; Karim Brohi, MBBS; Tim Harris, MBBS; Fiona Lecky, PhD; Chris Moran, MD; Jonathan J, Mornion, PhD; John Mortin, MS; Alan Paterson, DPhili, Nigel Tai, MS; Nick Welch; Markion K. Campbell, PhD; and the UK-REBOA Study Group

Mark Forrest, BSc; Karim Brohi, MBBS; Tim Harris, MBBS; Fiona Lecky, PhD; Chris Moran, MD Jonathan J, Morrison, PhD; John Norrie, MSc; Alan Paterson, DPhil; Nigel Tai, MS; Nick Welch Marion K. Campbell, PhD; and the UK-REBOA Study Group









ECMO for OHCA

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Article

Advanced reperfusion strategies for patients with out-of-hospital cardiac arrest and refractory ventricular fibrillation (ARREST): a phase 2, single centre, open-label, randomised controlled trial

Prof Demetris Yannopoulos MD ^{© b} , Emily Walser BSN ^{© b}, Prof John Connett PhD ⁴, Thomas A Murray PhD ⁴, Garv Collins MS ⁴, Lin Zhang PhD ⁴, Rajat Kalra MBChB ^{® b}, Marinos Kosmopoulos MD ^{® b}, Prof Ranjit John MD ⁶, Andrew Shaffer MD ⁵, Prof Jakub Tolar MD [®], Keith Wesley MD ¹, Marc Contexto MD ⁹, Prof Michelle Biros MD [®], Prof Jakub Tolar MD [®], Prof Tam P Aufderheide MD ¹

February 22, 2022

THE LANCET

Effect of Intra-arrest Transport, Extracorporeal Cardiopulmonary Resuscitation, and Immediate Invasive Assessment and Treatment on Functional Neurologic Outcome in Refractory Out-of-Hospital Cardiac Arrest A Randomized Clinical Trial

Jan Belohlavek, MD, PhD¹; Jana Smalcova, MD^{1,2}; Daniel Rob, MD¹; <u>et al</u> Author Affiliations | Article Information JAMA. 2022;327(8);737-747. doi:10.1001/jama.2022.1025

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Early Extracorporeal CPR for Refractory Out-of-Hospital Cardiac Arrest

M.M. Suverein, T.S.R. Delnoij, R. Lorusso, G.J. Brandon Bravo Bruinsma, L. Otterspoor, C.V. Elzo Kraemer, A.P.J. Vaar, J.J. van der Heijden, E. Scholten, C. den Uil, T. Jansen, B. van den Bogaard, M. Kuijpers, K.Y. Lam, J.M. Montero Cabezas, A.H. G. Driessen, S.Z.H. Rittersma, B.G. Heijnen, D. Dos Reis Miranda, G. Bleeker, J. de Metz, R.S. Hermanides, J. Lopez Matta, S. Eberl, D.W. Donker, RJ. van Thiel, S. Akin, O. van Meer, J. Henriques, K.C. Bokhoven, L. Mandigers, J.J.H. Bunge, M.E. Bol, B. Winkens, B. Essers, P.W. Weerwind, J.G. Maessen, and M.C.G. van de Poil



