

Trauma Edition 2023



34M 36F 64M

BP 101/84 HR 97 Tender abdomen, E-FAST negative

BP 78/54 HR 117 GCS 6 Chest and pelvic trauma Intubated on scene

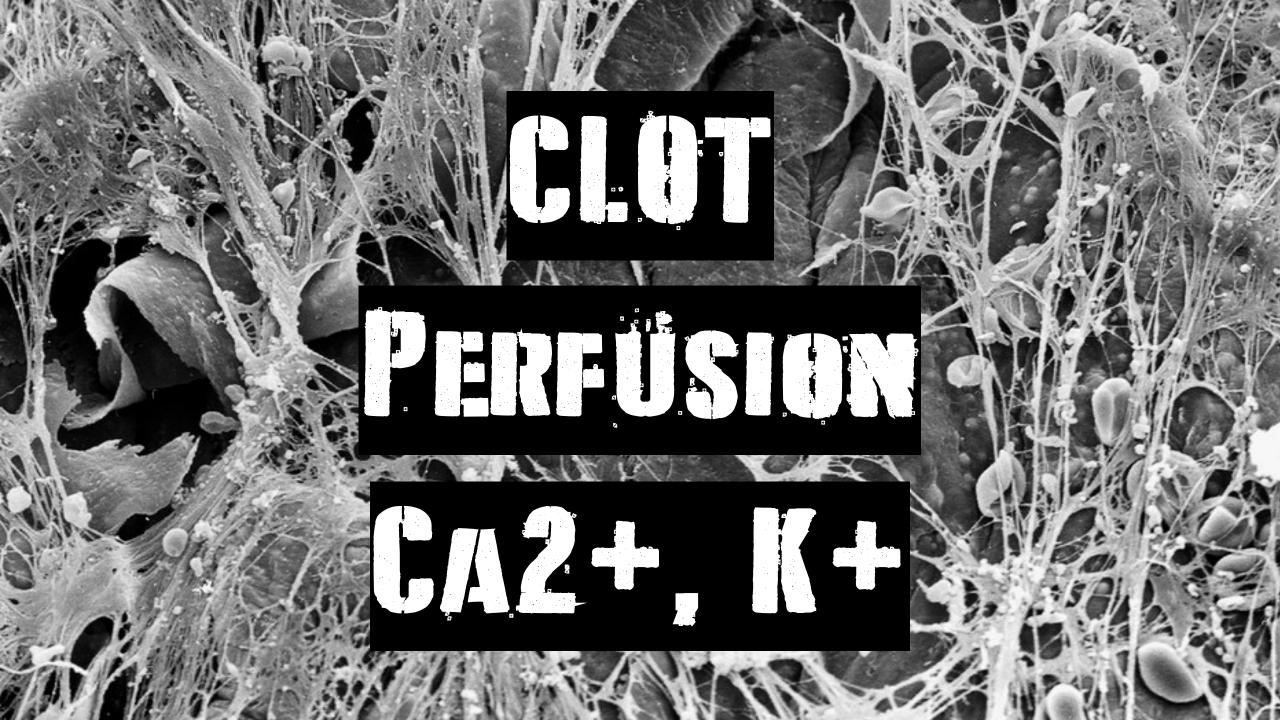
BP 145/88 HR 78 Mid-face trauma, LeFort 2 34M 36F 64M

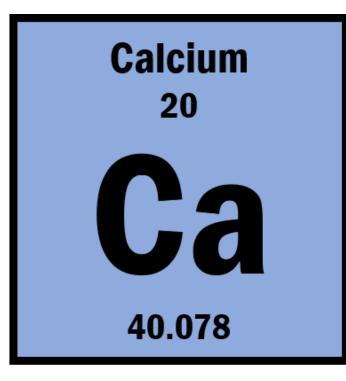
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	FUNCTION
C.OTTING	CASCADE
CONTRACT	

Systematic Review

OPEN

Hypocalcemia in trauma patients: A systematic review

Mayank Vasudeva, MBBS, Joseph K. Mathew, MBBS, FACEM, Christopher Groombridge, MBBS, FACEM, Jin W. Tee, MD, FRACS, Cecil S. Johnny, MBBS, FACEM, Amit Maini, MBBS, FACEM, and Mark C. Fitzgerald, MD, FACEM, Melbourne, Australia

J Trauma 2021,90(2): 396-402

Death

Associated with higher mortality in all studies

Transfusion

Paralleled severity of hypocalcemia

Coagulopathy

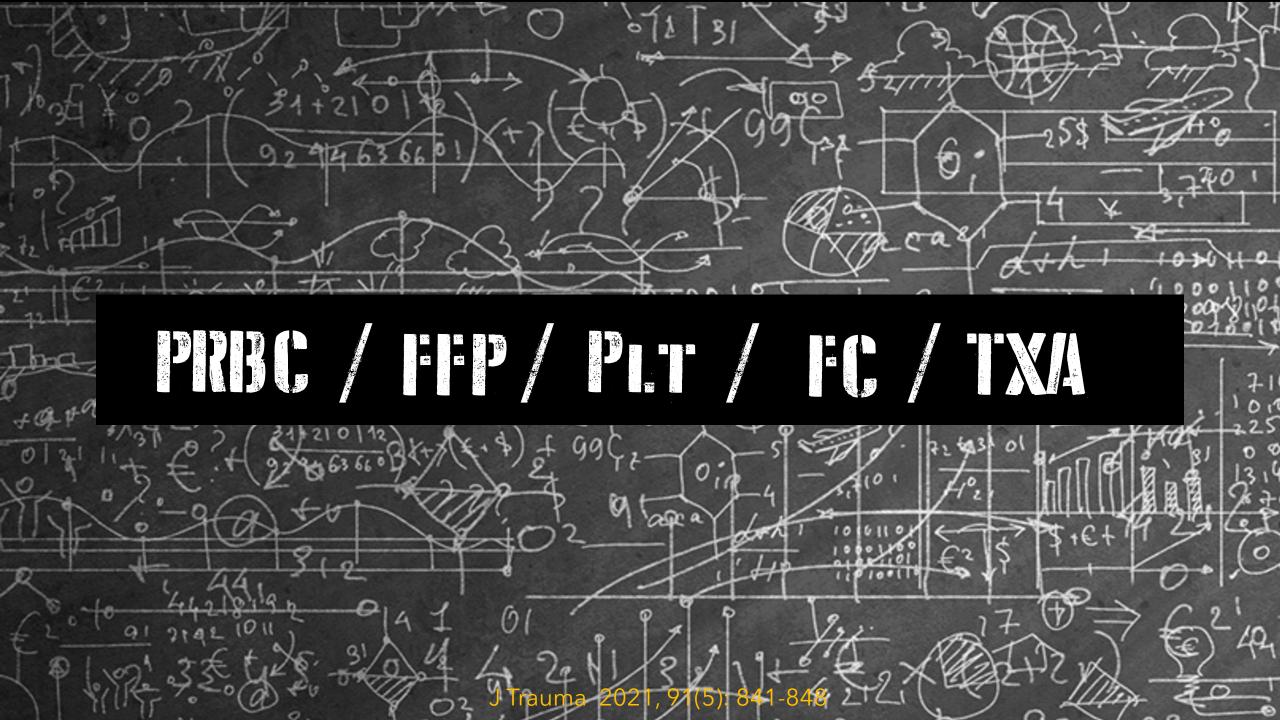
More significant and severe

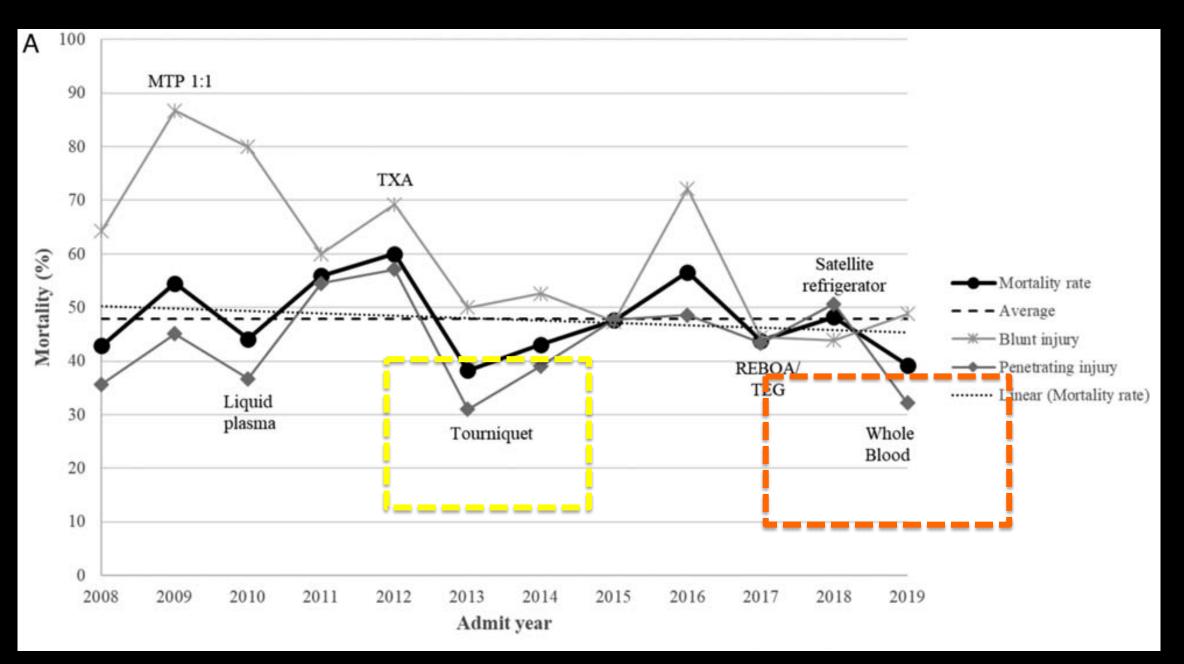
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Received: 11 February 2022 Revised: 3 March	Accepted: 4 March 2022			
DOI: 10.1111/trf.16959				
<u>REVIEW</u>	TRANSFUSIC)N		
Trauma-induced hypocalcemia				
Margot DeBot ¹ Ange	Sauaia ^{1,2} Terry Schaid ¹ Ernest E. Moore ³			

Transfusion 2022, 62: S274-280





SHOCK 2021, 56(S1): 70-78



STORED WB 1-6C, 5-21 DAYS LOW TITLE 0+

HĊŢ	29%	38-50%
PLT		MORMAI.
COAGS	65%	100%
Fibringgen	ĨĠ	1Ġ
Volume	700 ml.	500 ml.



Low Titer O+ Whole Blood – Trauma

History

- What was the mechanism of injury blunt (MVC, fall, blow to body) vs. penetrating (stabbing, GSW, foreign body)?
- Did a medical condition contribute to the mechanism of injury? Other medical conditions?
- Medications Coumadin? Plavix? Aspirin? Pradaxa? Xarelto? Eliquis? (any blood thinners or anticoagulants)
- Beta Blockers and Calcium Channel Blockers may not allow HR to increase appropriately

Key Concepts

 Low Titer O + Whole Blood is now being used to treat severely injured trauma patients who have or are at risk for severe hemorrhage

MARCHES Protocol

- Massive bleeding control
- Airway NPA/OPA/ Crich
- Respiratory decompress chest if tension pneumothorax, occlusive dressing for open pneumothoraces
- Circulation- IV/IO Tqx, pelvic binder, wound packing
- Hypothermia care
- Eye injuries cover with rigid shield and no pressure on the eye
- Spinal motion restriction if indicated

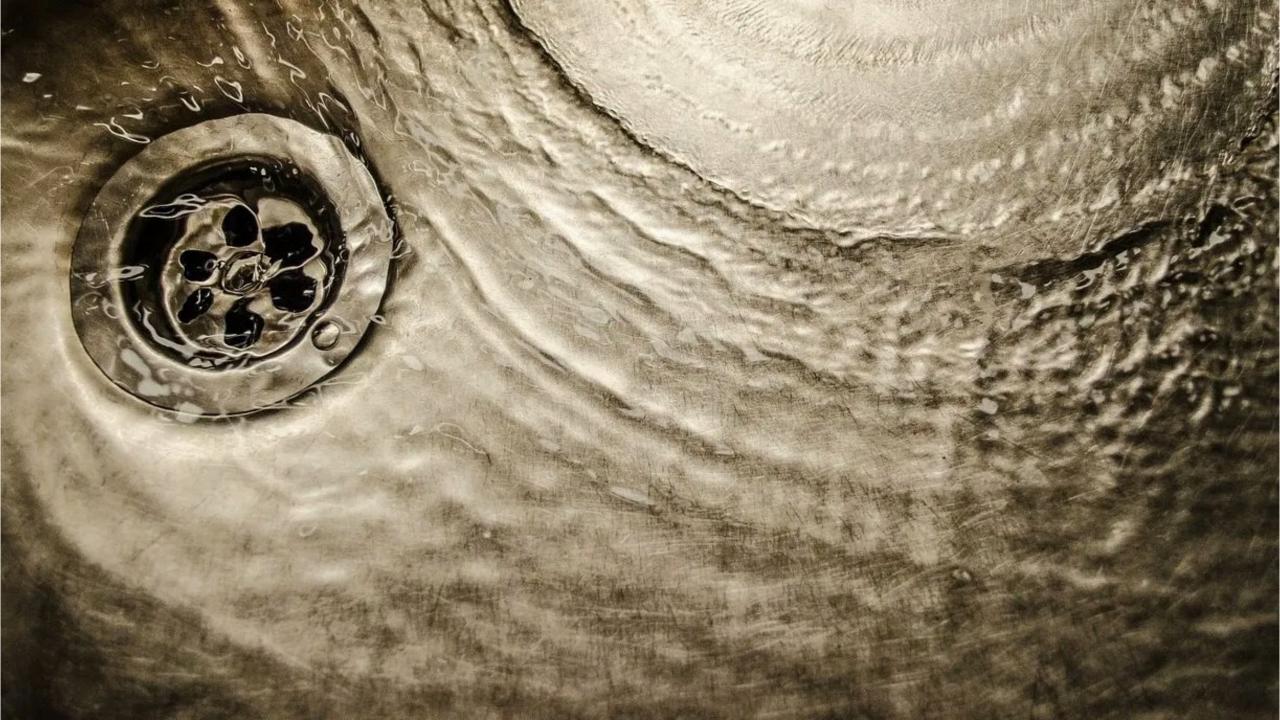


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C PAUL KULYK, PAUL OLSZYNSKI







Prehospital Narrow Pulse Pressure Predicts Need for Resuscitative Thoracotomy and Emergent Intervention after Trauma

Morgan Schellenberg, MD, MPH,* Natthida Owattanapanich, MD, Joelle Getrajdman, MD, Kazuhide Matsushima, MD, and Kenji Inaba, MD

Division of Trauma and Surgical Critical Care, LAC+USC Medical Center, University of Southern California, Los Angeles, California

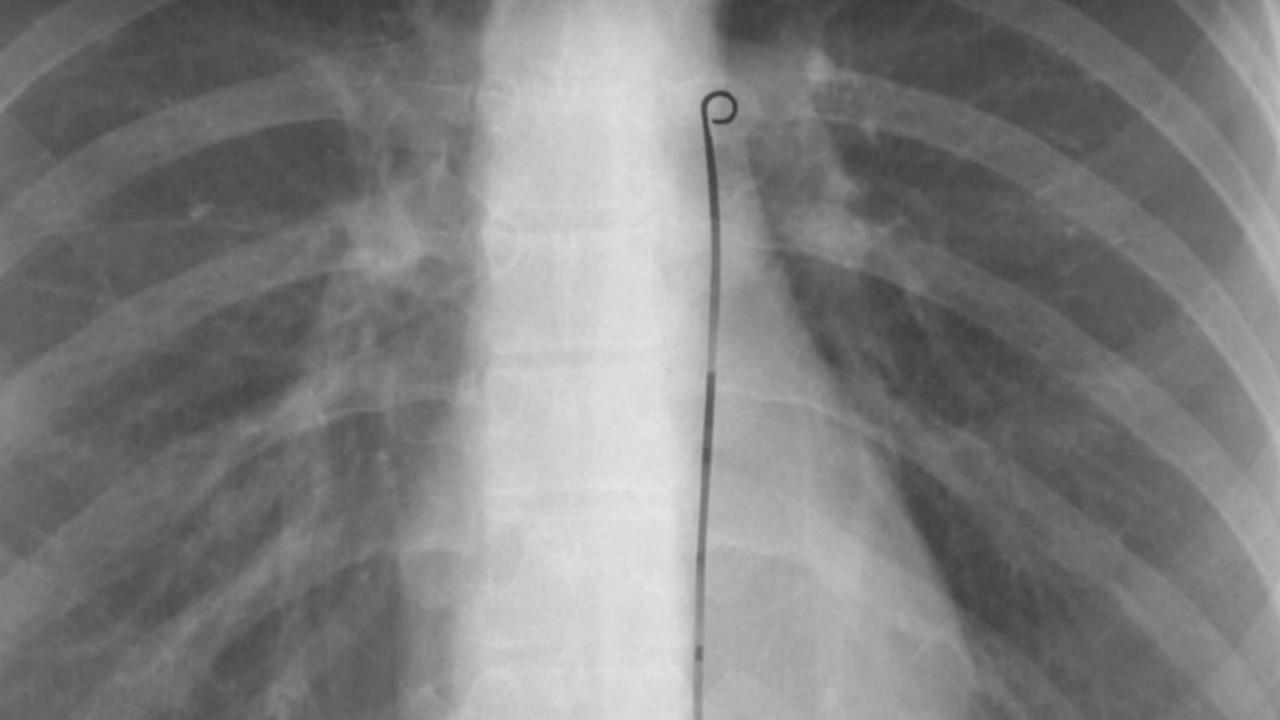
J Surg Research 2021, 268: 284-290

NFTI Resuscitative thoracotomy Emergent intervention

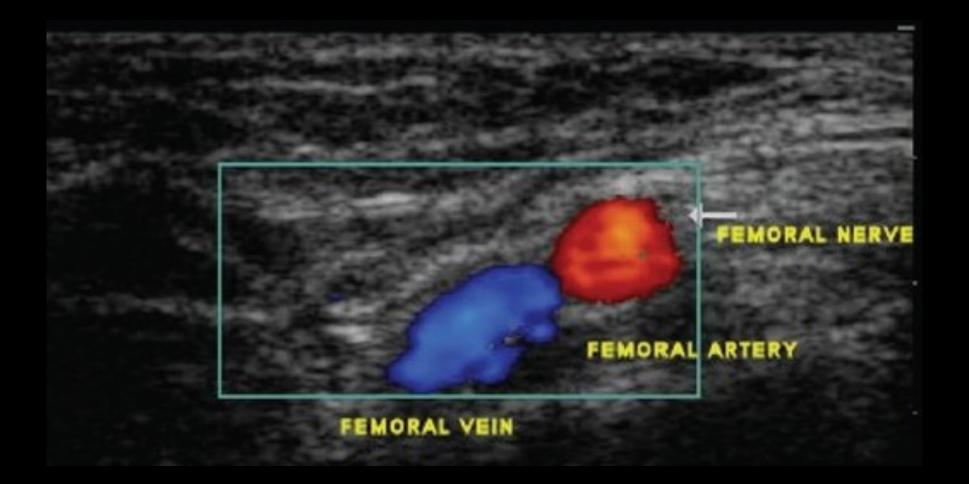
Prehospital narrow PP should be recognized as a proxy for major trauma

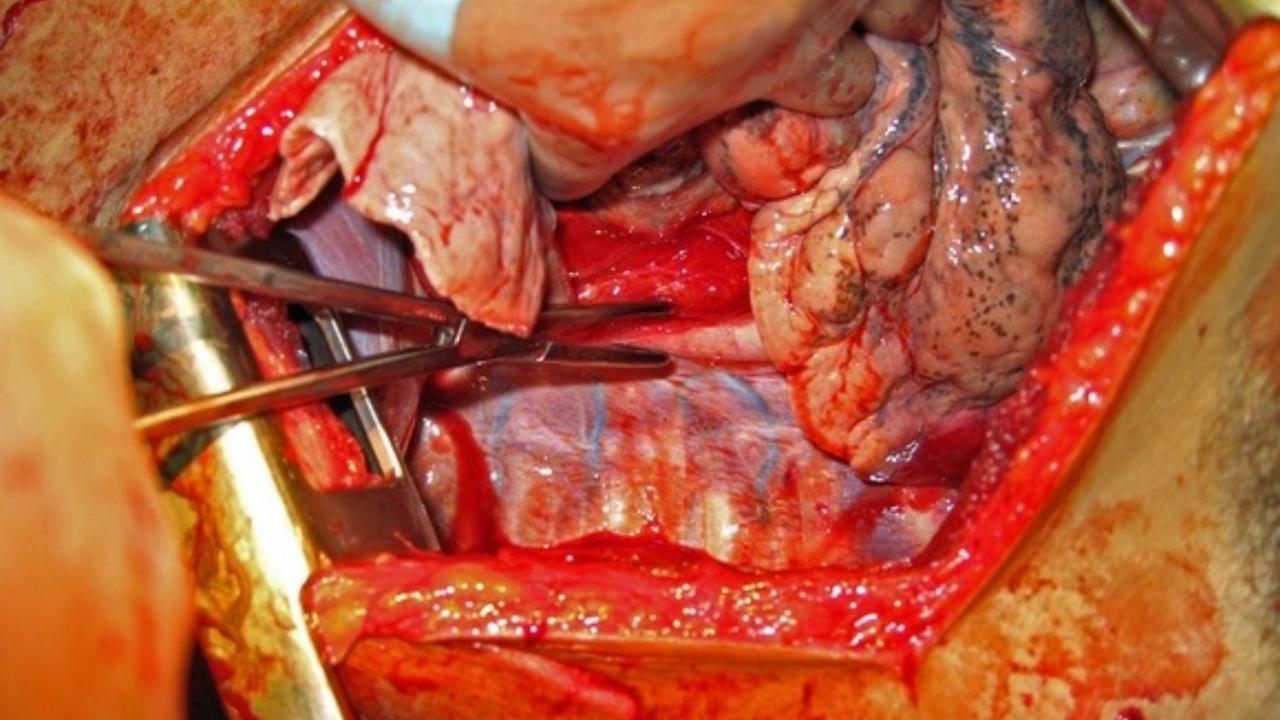
Schellenberg et al

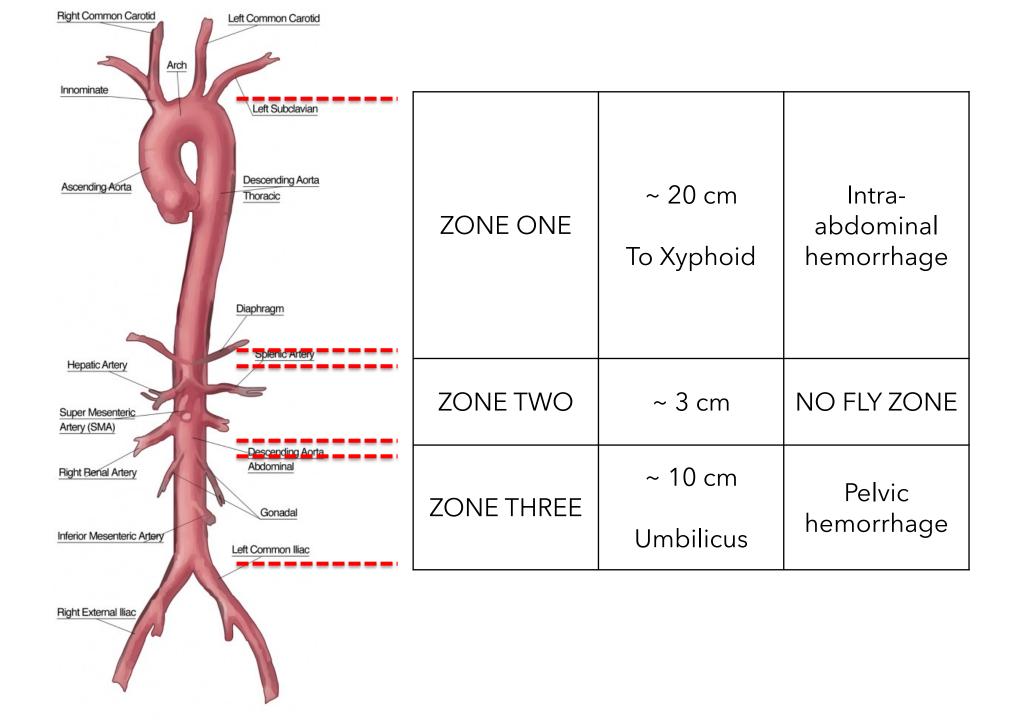


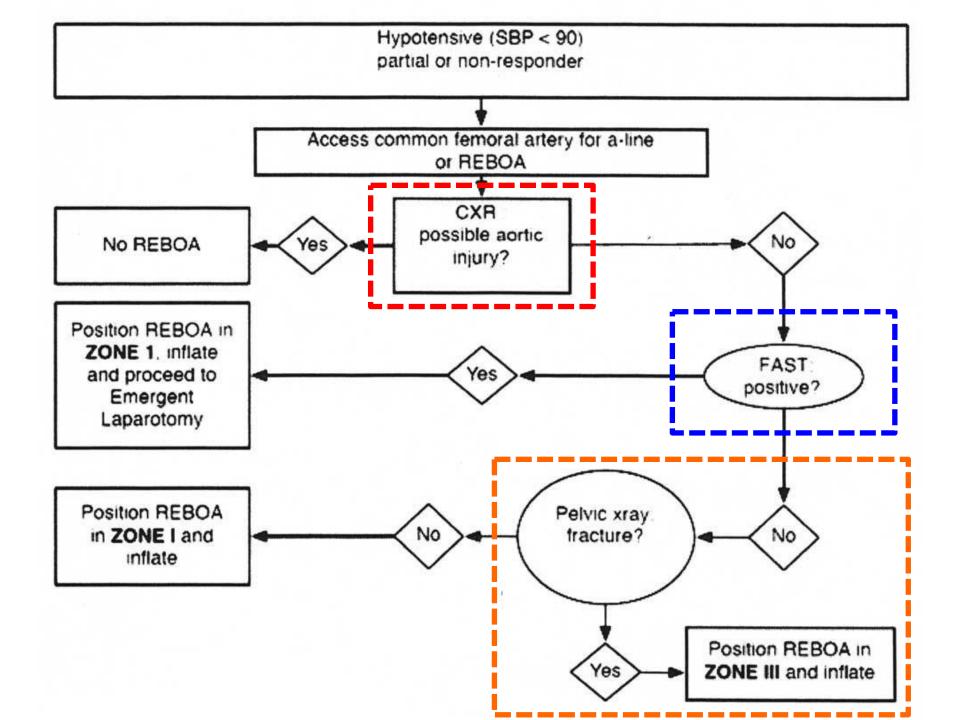


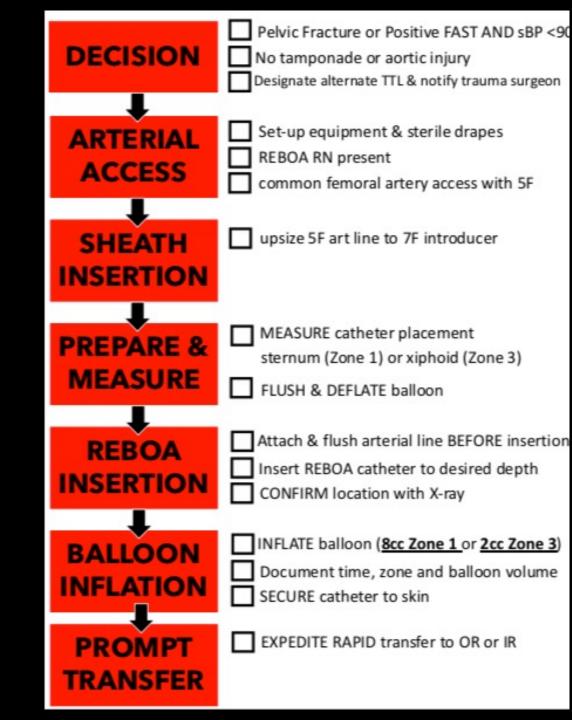


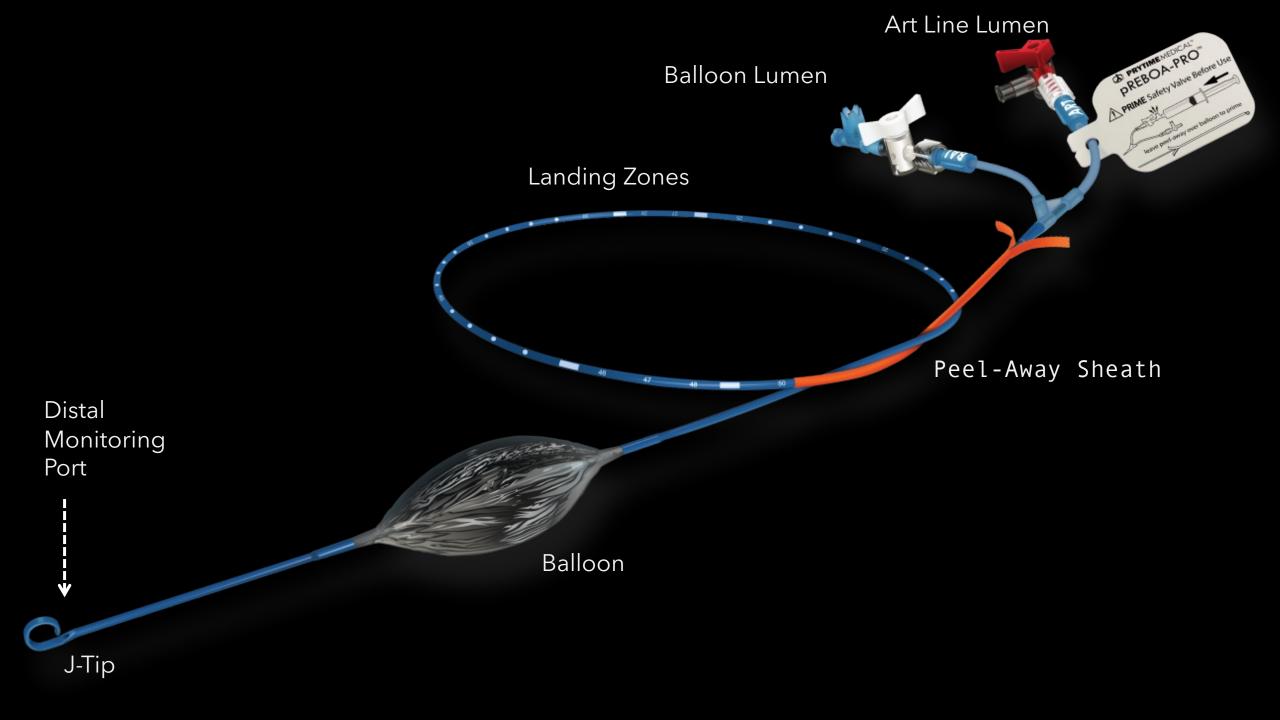


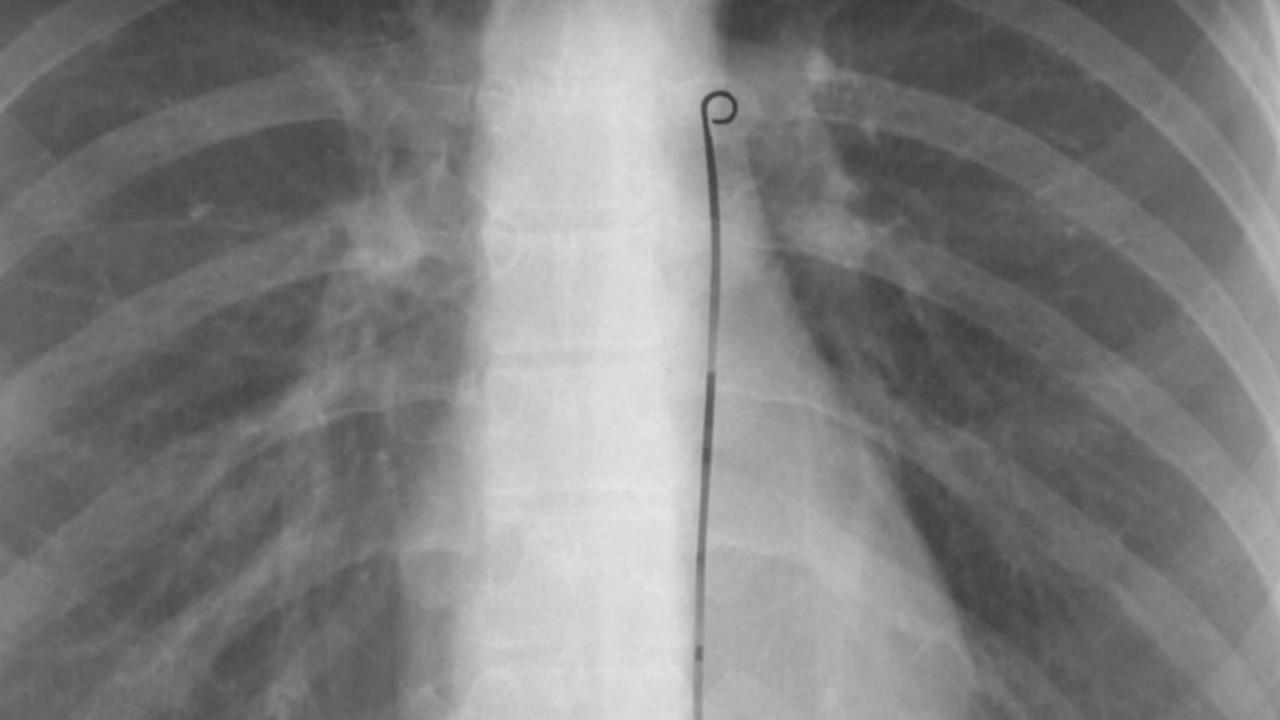


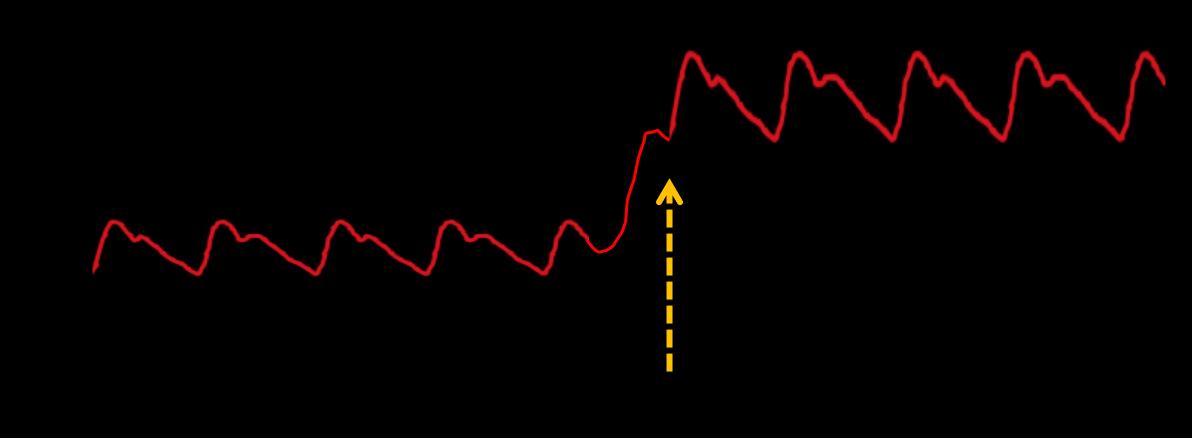












MHP Starter Pack Whole Blood is the Future Pulse Pressure D-REBOA

