Resuscitation

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Objectives

- At the end of my lecture, you will better . . .
 Understand and recognize shock.
 Initiate resuscitation with proper fluid selection.

 - Utilize labs as adjuncts in resuscitation.

Whi	ch of	these	patients	needs	resuscita	ted?

- A. $\,$ 73 yo female with a broken hip after a ground level fall. Normal vitals.
- B. 44 yo male restrained driver in MVC. + EtOH. HR ↑, BP normal.
- C. 81 yo female, DM, took 2 x dose of insulin. Confused. Vitals normal.
- D. 38 yo male with knife in abdomen.

Why do we resuscitate people?

What is shock?

What is shock?

- Tissue Malperfusion
- Any process that interrupts oxidative phosphorylation



Types of Shock Metabolic Diabetic/Insulin Carbon Monoxide Poisoning Cyanide Poisoning • Circulatory Hypovolemic Hemorrhagic Distributive Septic Anaphylaxis Cardiogenic Obstructive

How do we recognize shock in our patients?

How do we recognize shock in our patients?

- Vital signs
- Imaging
- Labs Lactic Acid
 - ABG
 - Which component?
- ABG
 - pH • pCO2
 - pO2
 - HCO3 BF
 - O2Hb
 - THb
 - COHb
 - MetHB

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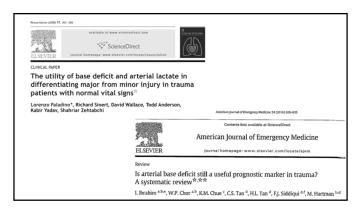
Base Deficit as a Guide to Volume Resuscitation

JAMES W. DAVIS, M.D., STEVEN R. SHACKFORD, M.D., F.A.C.S., ROBERT C. MACKERSIE, M.D., and DAVID B. HOYT, M.D., F.A.C.S.

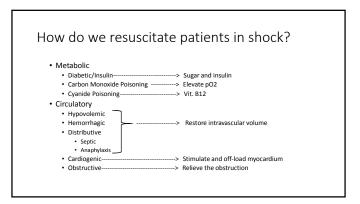
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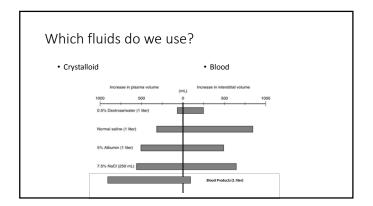
Base Deficit in the Elderly: A Marker of Severe Injury and Death

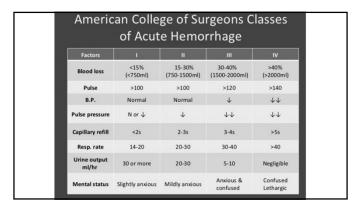
James W. Davis, MD, FACS, and Krista L. Kaups, MD, FACS

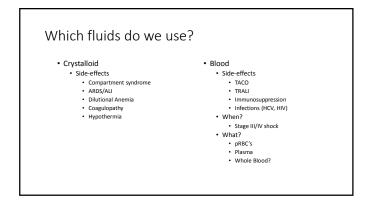


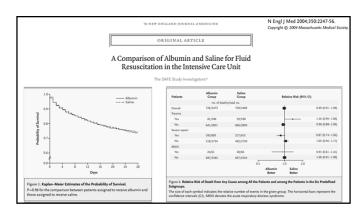


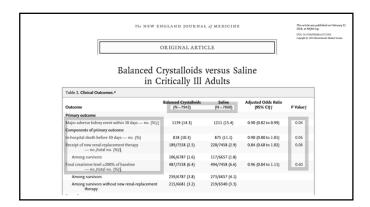


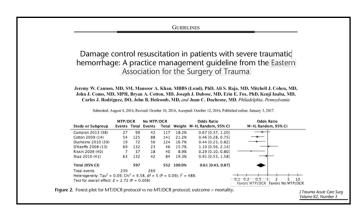


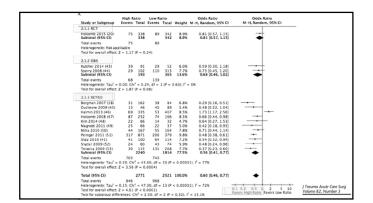


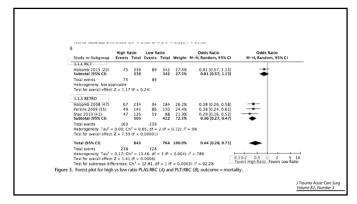










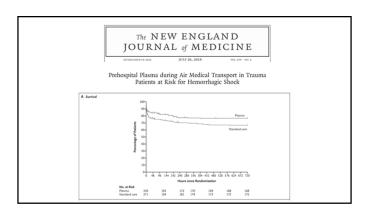


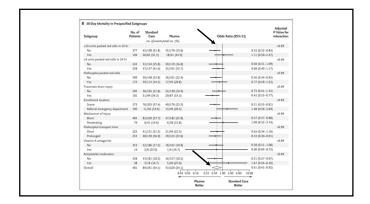
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Plasma-first resuscitation to treat haemorrhagic shock during emergency ground transportation in an urban area: a randomised trial

No benefit.





How much and how quickly do we give?