

Peer reviewed resources

- Prehospital Emergency Care (PEC)
- Annals of Emergency MedicineAcademic Emergency Medicine
- Journal of Trauma
- Journal of Critical Care Medicine
- Resuscitation

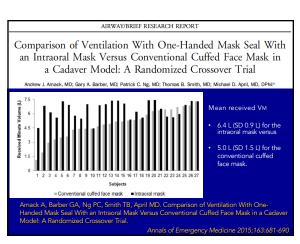


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Airway / Ventilation

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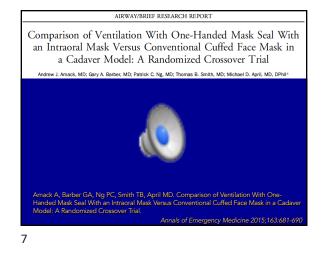
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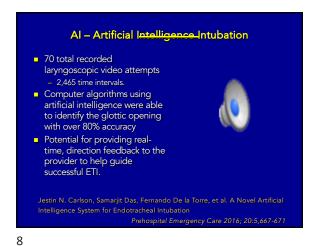
AIRWAY/BRIEF RESEARCH REPORT

Comparison of Ventilation With One-Handed Mask Seal With an Intraoral Mask Versus Conventional Cuffed Face Mask in a Cadaver Model: A Randomized Crossover Trial Andrew J. Amack, MD; Gary A. Barber, MD; Patrick C. Ng, MD; Thomas B. Smith, MD; Michael D. April, MD, DPhil*

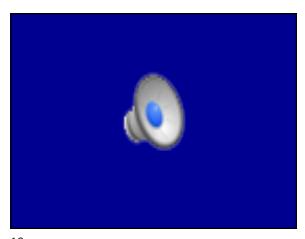
- A one handed seal technique was used to simulate single
- operator ventilation.
 ventilator delivered 10 breaths each with a standardized tidal volume of 750 ml.
- After a 5-minute washout period, they performed ventilation using the alternative device.
- Primary outcome measure was air leak (VT received VT delivered) as measured by the ventilator

Amack A, Barber GA, Ng PC, Smith TB, April MD. Comparison of Ventilation With One-Handed Mask Seal With an Intraoral Mask Versus Conventional Cuffed Face Mask in a Cadaver Model: A Randomized Crossover Trial.

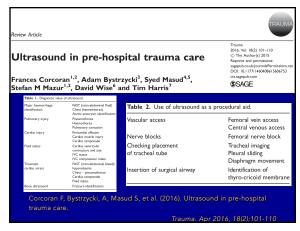




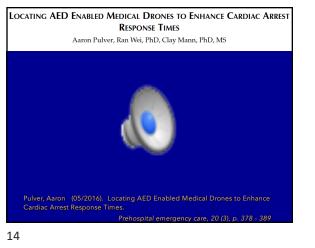
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New airway device
The Vie Scope
Great rescue device
Cheap
Tasy to use



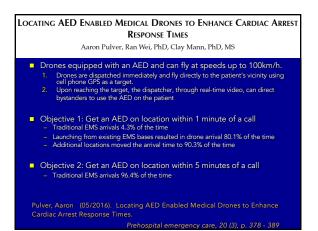






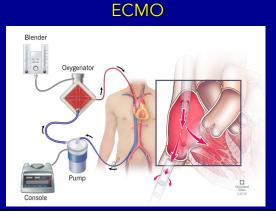


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15







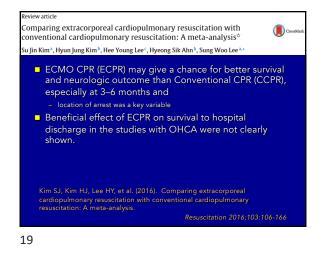
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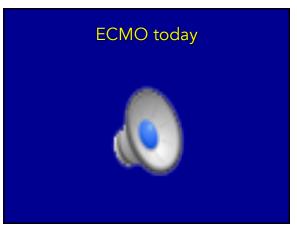
Practice characteristics of Emergency Department extracorporeal 0 cardiopulmonary resuscitation (eCPR) programs in the United States: The current state of the art of Emergency Department extracorporeal membrane oxygenation (ED ECMO)*

oseph E. Tonna^{a, h,e}, Nicholas J. Johnson^c, John Greenwood^d, David F. Gaieski^e, Zachary Shinar¹, Joseph M. Bellezo¹, Lance Becker¹, Atman P. Shah¹, Scott T. Youngquist^hJ, Michael P. Mallin⁶, James Franklin Fair III¹⁰, Kyle J. Gunnerson⁸, Cindy Weng¹, Brephen McKellar², for the Extracorporeal REsuscitation ConsorTium (ERECT) esearch Group

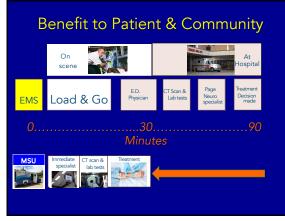
- 99 resuscitation centers in the US with protocols to institute ECMO CPR in the Emergency Department.
- ED Physicians are placing the catheters and the ECMO is managed by RN's supervised by Perfusionists
 Data is favorable but sample size is small.
- Critical Care Paramedics (and some RN's) are transporting ECMO with perfusionist support. Surgeons are beginning to travel to referring centers to initiate ECMO prior to travel. transport

Emergency Department extraocorporeal cardiopulmonary resuscitation (eCPR) programs in the United States: The current state of the art of Emergency Department extracorporeal membrane oxygenation (ED ECMO) Resuscitation 2016:107:38-4



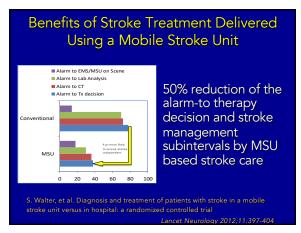


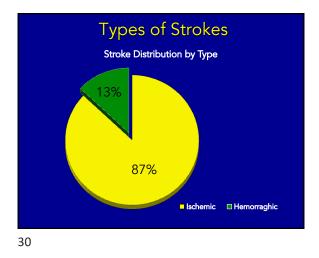






Mobile Stroke Unit





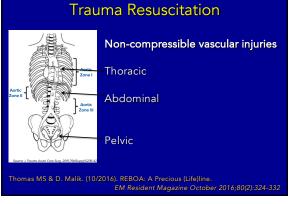


21

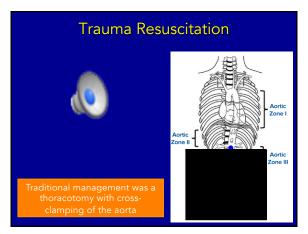
Trauma Resuscitation

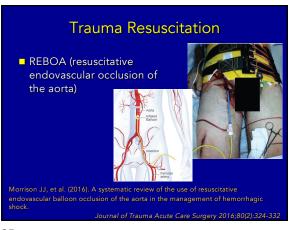
A 25-year-old male is brought in by EMS with a gunshot wound. Vital signs are as follows: HR 130 BPM, BP 60/palp, RR 24, and SpO2 99% RA. He appears pale, is unable to follow commands, and has a gunshot wound on the anterior aspect of his pelvis. You know the patient needs emergent surgical intervention, but is he even going to make it out of the emergency department (ED)?

Hemorrhage, especially non-compressible hemorrhage, is the number 1 cause of death in trauma





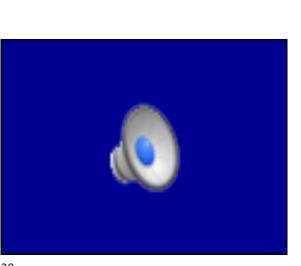




Trauma Resuscitation

A 25-year-old male is brought in by EMS with a gunshot wound to his thigh. Vital signs are as follows: HR 130 BPM, BP 60/palp, RR 24, and SpO2 99% RA. He appears pale, is unable to follow commands, and has a gunshot wound on the anterior aspect of his left thigh. What do you do?

Hemorrhage, especially non-compressible hemorrhage, is the number 1 cause of death in trauma



38

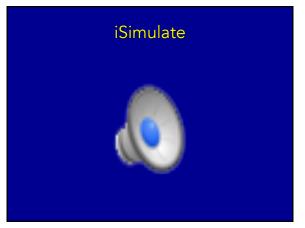
36



37

Education/Training

39



THANK YOU!!

For handouts or further information wkrost@gwu.edu