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No financial interests......

This material in no way gives you.....

By The Numbers

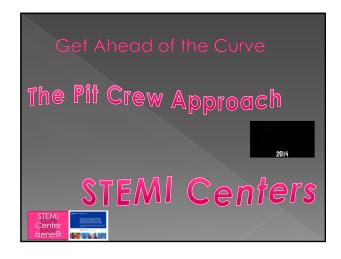
- 460,000 deaths from CAD/year
- ½ die before reaching the hospital
- Only 60% of STEMIs called 911
- 1 in 300 POV have a cardiac arrest in route

Statins in Acute Coronary Syndrome Very Early Initiation and Benefits Fabio Angeli, MD, Gianpaolo Reboldi, MD, PhD, MSc, Giovanni Mazzotta, MD, Marta Garololi, MD, Maria Francesca Cerasa, MD, Paolo Verdecchia, MD, FACC, FESH | Ther Adv Cardiovasc Dis. 2012;6(4):183-174. Statins in ACS Stochemic Remote Coro

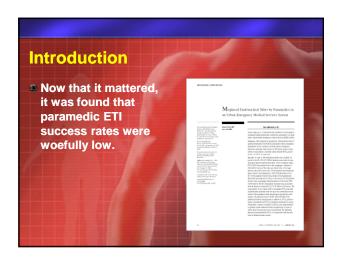
SCA (Sudden Cardiac Arrest)

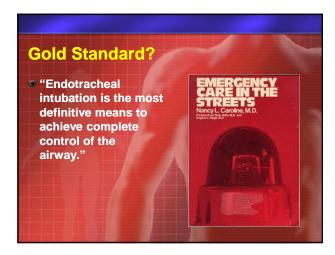
- 3 Phase model
 - > Electrical (0-5 min)
 - > Circulatory (5-15 min)
 - Metabolic
- ALS versus BLS

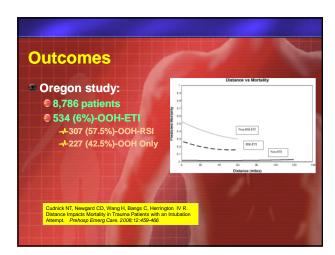
The impact of advanced life support for the out of hospital cardiac arrest patient remains unproven. The Ontario Prehospital Life Support (OPALS) study, which is the largest prospective prehospital study ever conducted, failed to show any survival advantage to cardiac arrest patients treated by EMT-Ds versus a tiered system with paramedics. This is despite a huge emphasis on early ALS for cardiac arrest patients, including advanced airways, a variety of medications, and intravenous and intraosseous access.

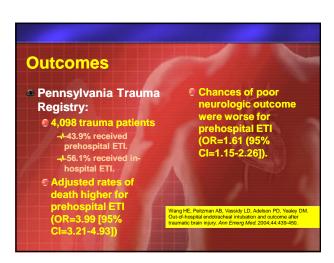


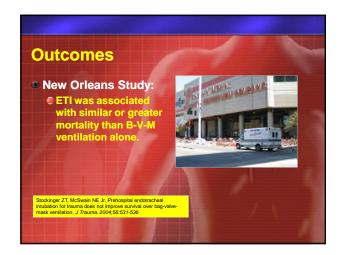






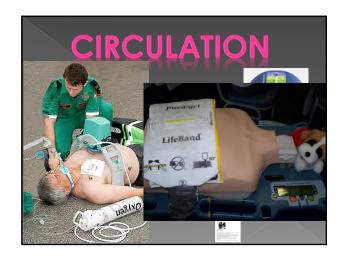


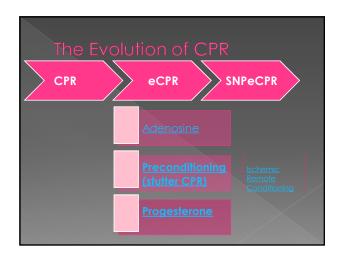


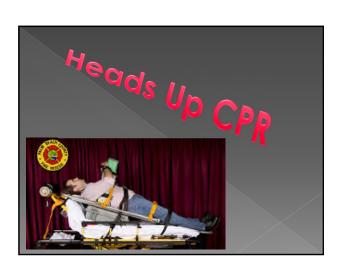








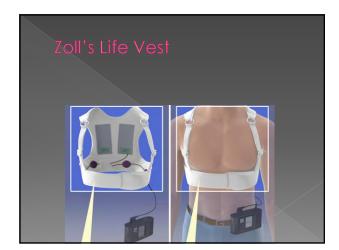




Defibrillation

3 Phase model Electrical (0-5 min) Circulatory (5-15 min) Metabolic

- Defibrillation
 - > Timing of the first defibrillatory shock?
 - Monophasic versus Biphasic energy
 - > To shock or not to shock
 - Smart defibrillators (read amplitude of fib waves)
 - Energy limits on your defibrillator



Medication Use in SCA

- Medication use in Cardiac Arrest
 - > Epinephrine has been shown not to improve

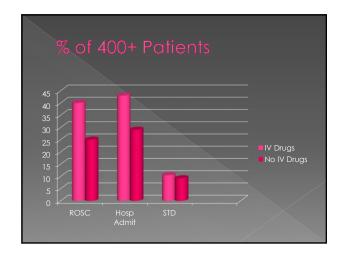
Intravenous Drug Administration During Out-of-Hospital Cardiac Arrest

A Randomized Trial

Theresa M. Olasveengen, MD; Kjetil Sunde, MD, PhD; Cathrine Brunborg, MSc; Jon Thowsen; Petter A. Steen, MD, PhD; Lars Wik, MD, PhD

JAMA. 2009;302(20):2222-2229.

spontaneous circulation Hospital 43 29 1.81 (1.36-2.40) 0 admission	n					
Spontaneous circulation Hospital 43 29 1.81 (1.36-2.40) 0 admission Survival to 10.5 9.2 1.16 (0.74-1.82) 0 hospital	р	i% CI)	OR (95%			End point
admission Survival to 10.5 9.2 1.16 (0.74-1.82) 0 hospital	0.001	.48-2.67)	1.99 (1.48	25	40	spontaneous
hospital	0.001	.36-2.40)	1.81 (1.36	29	43	
	0.61	.74-1.82)	1.16 (0.74	9.2	10.5	hospital





Well Not So Fast.... Vasopressin, Steroids, and Epinephrine and Neurologically Favorable Survival After In-Hospital Cardiac Arrest A Randomized Clinical Trial Conclusion and Relevance Among patients with cardiac arrest requiring vasopressors, combined vasopressine-pinephrine and methylprednisolone during CPR and stress-dose hydrocortisone in postresuscitation shock, compared with epinephrine/saline placebo, resulted in improved survival to hospital discharge with favorable neurological status. JAMA. 2013;310(3):270-279. doi:10.1001/jama.2013.7832.

