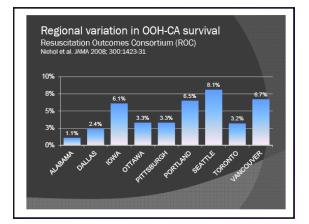
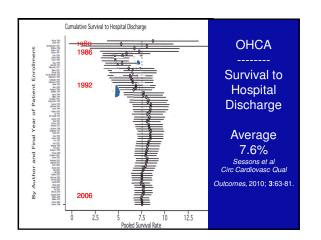
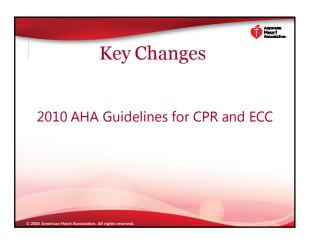


Regional Variation in Out-of-Hospital Cardiac Arrest Incidence and Outcome	
Graham Nichol, MD, MPH	
Elizabeth Thomas, MSc	
Clifton W. Callaway, MD, PhD Jerris Hedges, MD, MS	 Chosen "ROC" sites represent some
Judy L. Powell, BSN	of the best EMS systems in U.S. and Canada Rates of survival to discharge varied significantly, from 7.7% in Alabama to 39.9% in Seattle
Tom P. Aufderheide, MD	
Tom Rea, MD	
Robert Lowe, MD, MPH	
Todd Brown, MD	
John Dreyer, MD	
Dan Davis, MD	
Ahamed Idris, MD	
Ian Stiell, MD, MSc	

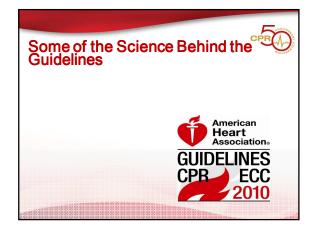


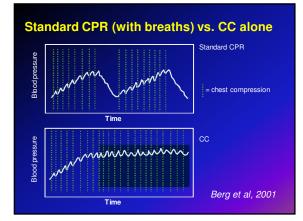


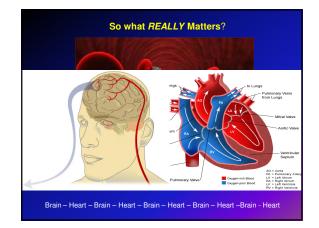


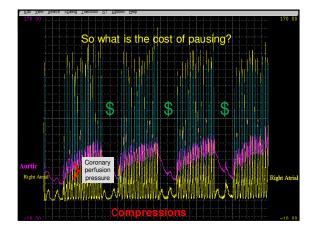
KEY BLS CHANGES

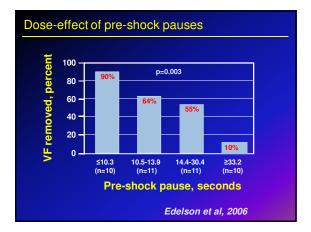
- Recognition
- ≻ CAB (not ABC)
- ➤ Hands-only CPR
- ➢ CPR Quality
- Integrated Team Approach

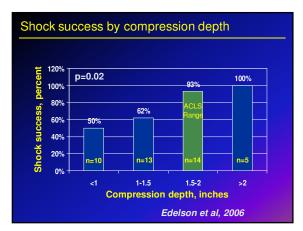


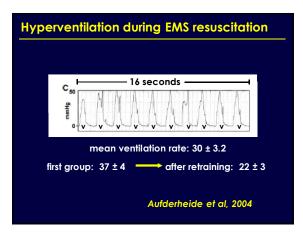


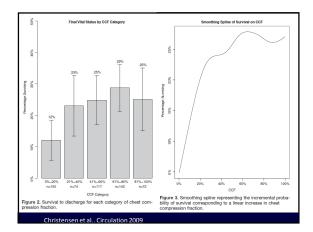








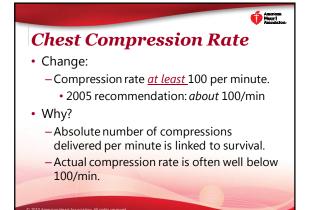






CPR Quality

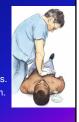
- Push Hard (at least 2 inches)
- Push Fast (at least 100/min)
- Allow complete chest recoil
- Minimize interruptions
- Avoid Excessive Ventilation
 30:2 without advanced airway
 - 8-10/minute with advanced airway



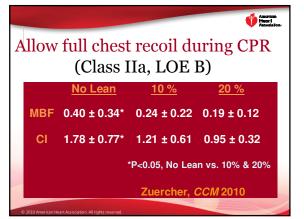
Adult Chest Compression Depth

Change:

- Compress <u>at least</u> 2 inches
 2005 recommendation was 1¹/₂ to 2 inches.
- Why?
 - Compressions of at least 2 inches (5cm)
 - are more effective than those of 11/2 inches
 - Rescuers often do not "push hard" enough
 - Shallow compressions similar to interruptions.

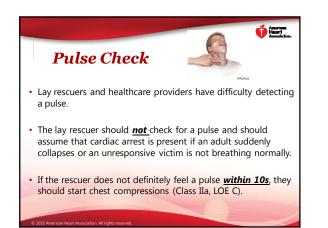


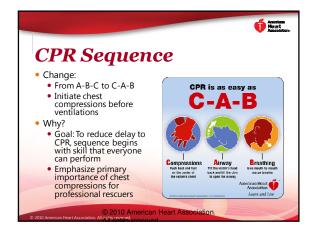
Ansonia Ansoni

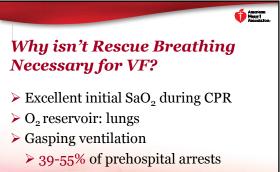


Heart Associate Elimination of "Look, Listen. and Feel" for Breathing

- Change:
 - Rescuer checks for response and "no breathing or no normal breathing" in adult before beginning CPR.
 - -After delivery of 30 compressions, lone
- rescuer opens airway and delivers 2 breaths. Why?
- - Starting CPR with compressions minimizes delays.







Compression-induced ventilation



Our **BIG** Problem **Bystander CPR Rates**

- >32% New York (Gallagher, 1995)
- 21% Detroit (Swor, 1995)
- ▶ 15% Ontario, Canada (Stiell, 2004)
 ▶ 28% SOS KANTO (Nagao, 2007)
- 27% Osaka, Japan (Iwami, 2007)
- >25% Singapore (Ong, 2008)
- >25% CARES Registry (McNally, 2009)
- >25% Arizona SHARE (Vadeboncoeur, 2007)

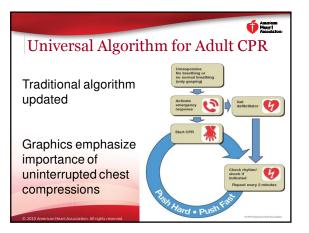


Dispatch Assisted CPR



Because dispatcher CPR instructions substantially increase the likelihood of bystander CPR performance and improve survival from cardiac arrest, <u>ALL</u> dispatchers should be appropriately trained to provide telephone CPR instructions (Class I, LOE B).



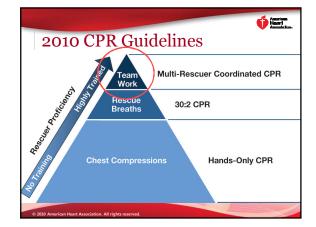


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American Hear I Association





Team Resuscitation

- Change:
 - Increased focus on using a team approach during resuscitations
- Why:
 - Why:
 Many CPR interventions performed simultaneously
 Collaborative work minimizes interruption in compressions
 Clear communication minimizes errors



 More Information

 To view a copy of this presentation please go to www.heart.org/cprscience.

 To learn more about upcoming products and information related to CPR and ECC visit www.heart.org/cpr.

 Write to me:

 Bobrowb@azdhs.gov

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www.azshare.gov

Thank you!

