



Realistic Training to Improve Skills Utilization

Joe Holley, MD FACEP
Memphis Fire Department

February, 2010

www.code3visualdesigns.com

Issues

- Despite training, some providers still seem uncertain and reluctant to implement their skills in the clinical setting.
- Lack of opportunity to work with other departments, and utilize ICS techniques.
- Maximize Training dollars

Concept

- Combination of:
 - Focused Didactics
 - Procedure Lab using Cadavers
 - High Fidelity Wireless Simulators
 - Realistic Scenarios
 - Combined teams from several services
 - Unfold in Real time

Didactic

- Brief lecture focused on relevant skill set:
 - Triage
 - Treatment
 - Transport
 - ICS

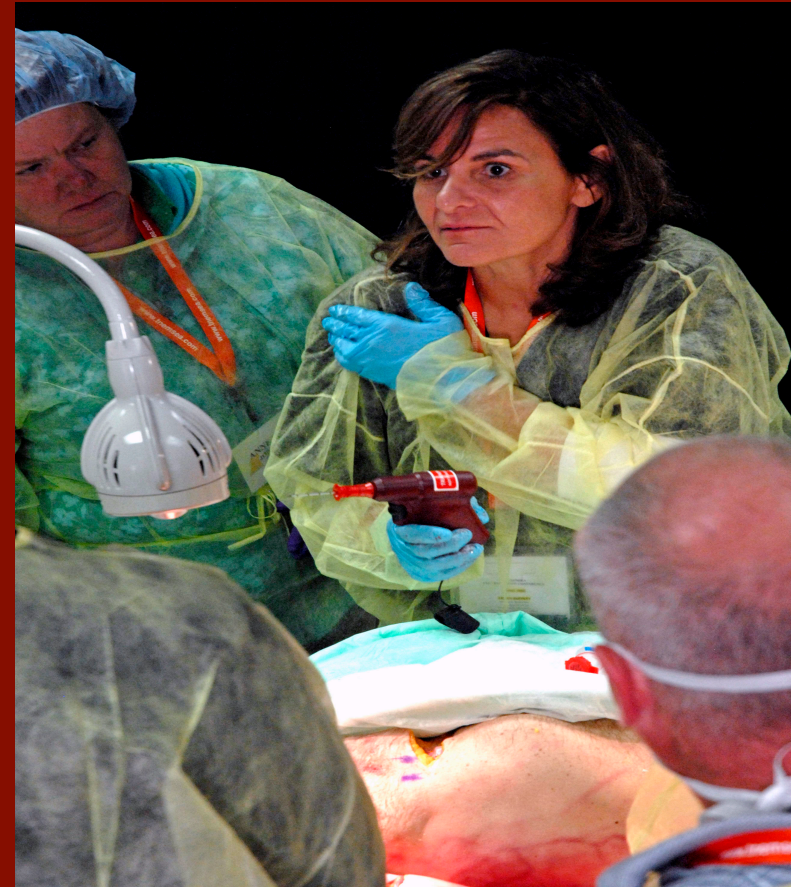
Procedure Lab

- Fresh cadaveric specimens
 - Anatomy dissection from neck to abdomen
 - Focused on relative anatomy, occasionally pathology
 - Basic airway management station
 - BVM, especially bagging technique



Procedure Lab

- Advanced Airway
 - Practice multiple advanced airways techniques
 - Practice decompression
 - High tech airway devices
- Vascular Access
 - Practice multiple advanced access techniques
 - Practice I/O
 - Hemorrhage Control



Simulations

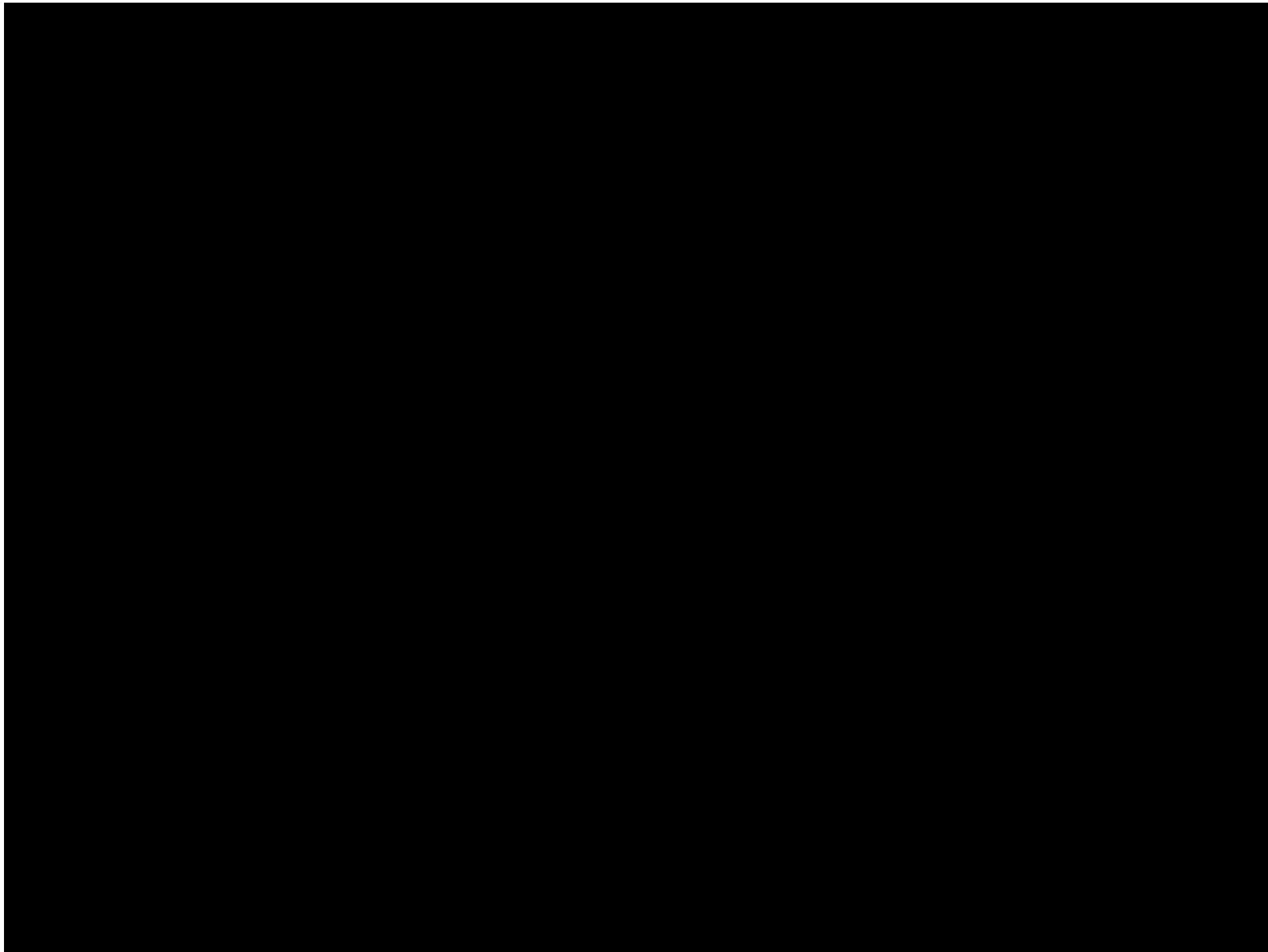
- Focused on
 - Teamwork
 - ICS
 - Assessment
 - Treatment
 - Transport



Real World Scenario

- Grand Scenario pulls all elements together
- Requires teams to use all skills from the day





Recap

- All components filmed
- Review and feedback end of day
- Instructors and Students discuss each component



Results

- Improved Cross Service Cooperation
- Improved skills (anecdotal)
 - “More intubations here than last 3 years on the street”
 - “More comfortable with the Procedure”
 - “Best Training in 19 years in EMS”

Results

- Skills now employed in the field, especially by providers who were reluctant or insecure.
- Most improved technique: BVM



Logistics

- Medical Education and Research Institute
- Vacant Nearby Building
- Support from vendors
- Cost: \$300 per student



Questions

joeholley@earthlink.net

■ **Memphis Fire Department**