SIMULATION IN PREHOSPITAL EDUCATION

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OBJECTIVES

• List simulation modalities
• Outline benefits and barriers to use of simulation in EMS education
• Describe benefits of interprofessional simulation
• Identify benefits and draw-backs to mass casualty simulations
WHAT IS SIMULATION?

Techniques that imitate prehospital patient situations and are designed to demonstrate procedures, decision-making, and critical thinking.

Jeffries, 2005; McKenna et al. 2015
ADVANTAGES OF SIMULATION

• Provides ‘standard’ experiences
• Allows practice for low frequency high-risk situations
• Permits skill development without patient risk
BARRIERS TO SIMULATION

• Faculty training
• Personnel support
• Equipment

31% of programs have simulation equipment sitting idle or unused

SUPER, McKenna et al. 2015
HOW DO WE USE SIMULATION?

- Hiring or promotion
- Skills
- Situational awareness
- Improving safety
- Communication
- Clinical decision-making
- Remediation
- Promoting team work
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MASS CASUALTY INCIDENT TRAINING

• Goals should be to improve core response competencies such as
  • Communication
  • Incident management
  • Triage
• Should include multiple disciplines to prevent “silos”, identify problems, and build teams

Glow et al., 2013
INTERPROFESSIONAL SIMULATION?

BENEFITS

• More positive attitudes toward teamwork and collaboration
• Improved relationships
• Role clarification
• Viewing others in a positive manner

BARRIERS

• Scheduling
• Class size
• Program proximity
• Administrative buy-in
• Faculty resistance
• Scope of practice boundaries
2011 – STRUCTURAL COLLAPSE – KMART
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Mayday
MEMC – MANUFACTURER WITH HAZMAT
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TORNADO AFFECTING A WIDE AREA - 2013
Augusta Missouri

Bus collision with car
Patients were guests at a winery
Night-time challenges
GOAL: RESPOND TO A MASS SHOOTING EVENT

• Four stations followed by a scenario
  • Triage
  • Moving patients
  • “Walking with police”
  • Chest decompression/TK application
TORNADO IN A RURAL PARK
Objectives:

❤️ Introduce pit crew approach to resuscitation
❤️ Use feedback modes to improve CPR effectiveness
❤️ Review MACC procedure
❤️ Practice a variety of scenarios.
❤️ Review incident command
CARDIOCEREBRAL RESUSCITATION
FUTURE GOALS

• CCR refresher training November
• Planning meeting for 2016 MCI scheduled in January
  • Plan to introduce SALT triage
REFERENCES

