Videotaping Scene Cardiac Arrest Calls

Does anyone have a pin for this grenade?

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Medical Director Anchorage Fire Department
Conflict of Interest

- none
Goals and Objectives

- Consider benefits of video information
- Review Anchorage Experience
- Consider ethics
- Provider Acceptance
- Is the trade off worth it?
Anchorage Fire Dept

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<tbody>
<tr>
<td>Population</td>
<td>~300,000</td>
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<tr>
<td>EMS Calls</td>
<td>21,300</td>
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<tr>
<td>Personnel</td>
<td>~300</td>
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<tr>
<td>2013 OOHCA</td>
<td>160</td>
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Telecommunicator  CPR
We Can Measure Our CPR Performance
We Can Follow Outcomes
Utstein Survival Report
Anchorage Fire Department
Service Date: From 1/01/2013 Through 12/31/2013

Resuscitations Attempted 164

Cardiac Etiology 105

Cardiac Etiology Survival Rates
Overall: 12.4% (105)
Bystander Wit'd: 22.7% (44)
Unwitnessed: 1.9% (54)
Utstein: 47.1% (17)
Utstein Bystander: 53.8% (13)

Unwitnessed Arrest 54
*see page 2

Witnessed Arrest (Bystanders) 44

Initial Rhythm Asystole 11
Sustained ROSC in field = 1

Initial Rhythm VF/VT 17
Sustained ROSC in field = 11

Witnessed by 911 Responder 7
*see page 3

Other Initial Rhythm 16
Sustained ROSC in field = 9
Still you only know what you know

- Monitor code summary showing 0 time as onset of monitoring but doesn’t show latency
- How long did it take to organize the event?
- Guidelines followed?
We Can Lecture About Pit Stop Approach
What if you video taped the event?
Model: Trauma

• Commonplace at many trauma centers: motion activated camera in trauma bay
Goal

- Fly on the wall view of scene
- Better understanding of challenges
- Potential for improvement in system
Anchorage Trial

- 8 cases
- GoPro was brought in by EMS supervisor and affixed to monitor defib, at patient’s head
Data Integrity

- MicroSD card removed from camera at the end of call and placed in a manilla envelope, sealed and signed by supervisor

- Brought directly to Medical Director who can solely review

- Reviewed and destroyed (physically, not overwritten)
Stuttering of Lucas is film edits

*
Value Equation

- Confirmation of scene dynamics
- Understanding of challenges faced in a particular resuscitation
- Crew perspective
Challenges

- Ethics: is this an invasion of privacy?
- Consent: should you? If so, how?
- Timing: higher value if recorded from outset
- Legal issues?
- Recording of scene: what if contraband etc? Changes provider role..?
Provider Perspective

• Could this be associated with discipline?
• “I don’t like being video taped”
• Concern about patient perception of video
Lesson Learned

• Balance of value versus conflict

• Must have a thoroughly vetted process with full disclosure and buy in from providers

• …still have to weigh in perspective of family