TRB EMS Subcommittee ANB10(5)

EMS Safety Summit 2012 Safety Systems, Strategies and Solutions

Dispatch Sytems – Basic to Cutting Edge Jim Augustine

February 29th, 2012

TRANSPORTATION RESEARCH BOARD

Dispatch Systems, Basic to Cutting Edge

- IT and Communication System
- Direct Relationship to Safe Vehicle Operations
- Community Needs
- Public Safety Integrated Systems
- Reporting Integration
- Instruction Help to Callers

 TRANSPORTATION RESEARCH BOARD

 Of the National Academies

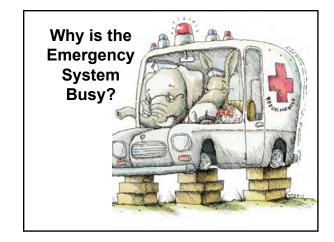
Integrated Public Safety



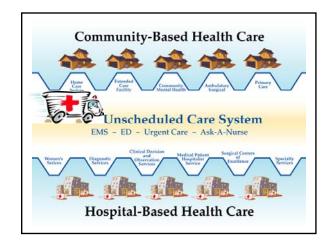


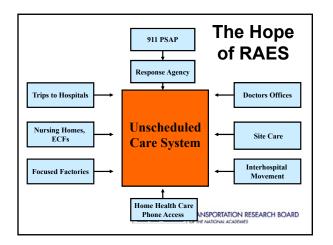
- 15,000 or so often integrated at county level
- Public Safety under EMA or Law Enforcement
- · Conflicts

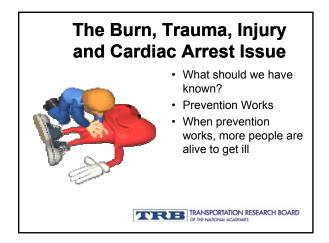


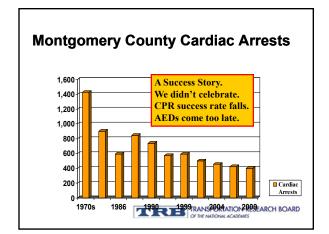


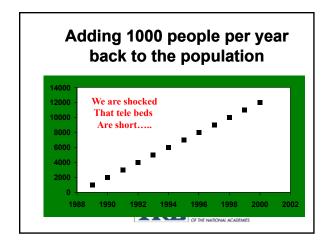


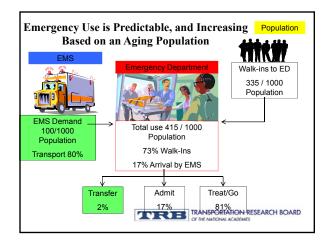








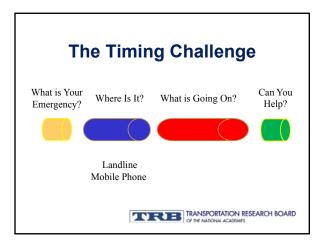




Dispatch Systems: Simple to Complex

- · Text to address outline
- Inhally Israelian regression Centers
- But... Large software producers with integrated programs
- · Tiered Levels of Response
- Challenge of Fewer Landline 911 Calls





Ideal EMS Call Tiering

- Highest Priority Calls get Pre-Alert Dispatching and Full Responses
- Medium Priority Calls get Pre-Alert and One or Two Vehicle Responses
- Low Priority Calls get One Vehicle, no lights or siren response
- Lowest Priority Calls get phone advice and referral to followup care RANSFORMATION RESEARCH BOARD

 REASSORMATION RESEARCH

Fully Integrated

- · Predictive Algorithms Deploy Resources
- Call Taking and Dispatch Computer-Aided
- · Call Management Assistance to Get to Call
- · On-Scene Patient Management
- · Communicate to Hospital or Tele-Medicine
- · Electronic Patient Care Report
- · Quality Assured
- · Integrated Billing, Reports, System Learning



Reduce Call Layers

- CAD
- AVLGPS
- Caller Talks Directly to Lead Responder



Erase Boundaries

- Reduced reliance on "volunteer" and private vehicle responses
- Still dangerous: Public Safety responders running into each other





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Uniform EMS Call Management

- · Call Taking
- · Medical Interview
- Pre-Arrival Instructions
- · Timely Alerts for Response

Access to EMS System
Bystanders cell 5-1-1

Triage by Drop stoher:
Emergency Medical
Copysion

Fest Travel Resistance
Basic Life Support (ELS)
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Medical Transport

- Right Facility
- · NOT on Diversion
- Surge Capable
- · Reduce Emergency Transports
- · Provide Safe Transport



Major Challenges

- · Unpredictable Callers
- · Time Limitations
- 911 Calls in the Public Domain (should be Privileged and Confidential)
- Call Locating with the Challenge of Mobile Phones
- Can't use Text, SMS, Twitter....
- Newest Challenge to 911 Centers "Lift Assist". At home = Good. "How Big"



Summary Of Communication Integration for Safety

- · Systems Become More Integrated
- Strategies Include Use of New Call Taking and Information Sharing in Public Safety



Solutions

- Call Taking Assistance
- Resource Management to Reduce Time to Response and Get Appropriate Response with Minimal Duplication
- Support for Medical Mgt and Transport
- Training the Community

