EMS & HTS
A Public Safety Partnership

- Education
- Enforcement
- Engineering
- EMS
EMS & HTS
A Public Safety Partnership

Emergency Care System

- Prevention
- Bystander Care & 9-1-1 Access
- Emergency Medical Dispatch
- First Responders
- BLS Transport
- ALS Transport
- Emergency Department Care
- Trauma & Specialty Care
- Rehabilitation
- Home

**EMS**
EMS & HTS
A Public Safety Partnership

- Share ideas
- Share resources
- Share goals

- EMS
EMS & HTS
A Public Safety Partnership

❖ National Highway Traffic Safety Administration
Office of EMS

❖ Federal Interagency Committee on EMS (FICEMS)
❖ National EMS Advisory Council (NEMSAC)
❖ Culture of Safety Project

❖ National Association of EMS Officials (NASEMSO)

❖ Highway Incident & Traffic Safety Committee
❖ Rural EMS Committee / Joint Committee on Rural Emergency Care
Montana EMS & Highway Traffic Safety
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Montana Fatal Crashes by County: 2001-2008

Legend:
- Fatal Crashes 2001-2008
- MT Counties
- Fatal Crashes:
  - 1 - 13
  - 14 - 25
  - 26 - 45
  - 46 - 94
  - 95 - 150
Montana EMS & Highway Traffic Safety

**Strategies**

- **EM-1 Improve EMS Education System**
  - Training EMTs re: Health Information & Resource Management System
  - Distance learning – LearningZen
  - WebEx and other educational opportunities for EMS service managers

- **EM-2 Public Access & Communications**
  - Assure hospitals and EMS are upgraded to digital P-25 radio capability
Montana EMS & Highway Traffic Safety

- **Strategies**
  - EM-3  Preventable Mortality Study
    - Follow-up to 1992 and 1998 studies
  - EM-4  Advanced Automatic Crash Notification (AACN) project
    - Collaborate with DOT on proof of concept
    - Study implementation of AACN for EMS
  - EM-5  EMS Review and Assessment of National Research Strategies
    - Distribution and Evaluation of Towards Zero Deaths (TZD) NHTSA EMS paper
EMS & HTS
A Public Safety Partnership

- EMS System Development
- Trauma System Development
- Injury Prevention
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
EMS System Development
- Emergency Care Committee
- EMS Plan
- EMS Leadership
EMS System Development

Emergency Care Committee

<table>
<thead>
<tr>
<th>Emergency Care Committee – 18 Members</th>
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</thead>
<tbody>
<tr>
<td>9-1-1 / Public Safety Dispatch</td>
</tr>
<tr>
<td>EMS – Volunteer / Career / Ground / Non-Transporting</td>
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<tr>
<td>Trauma Nurses – Urban &amp; Rural Facilities</td>
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<tr>
<td>Medical Directors – Urban &amp; Rural</td>
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<tr>
<td>Hospitals</td>
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<tr>
<td>IHS / Tribal EMS &amp; Hospital</td>
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<tr>
<td>Pediatric Care</td>
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<tr>
<td>Citizen At-Large</td>
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<tr>
<td>Law Enforcement EMS</td>
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<tr>
<td>Fire-based EMS</td>
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<tr>
<td>Air Medical Services</td>
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EMS System Development

EMS Plan

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<thead>
<tr>
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<tbody>
<tr>
<td>Leadership, Organization &amp; Policy</td>
</tr>
<tr>
<td>Financial Infrastructure</td>
</tr>
<tr>
<td>Medical Oversight</td>
</tr>
<tr>
<td>Workforce &amp; Human Resources</td>
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<tr>
<td>Response &amp; Transportation</td>
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<tr>
<td>Public Access &amp; Communications</td>
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<tr>
<td>Facilities and Specialty Care</td>
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<tr>
<td>Public Information, Education &amp; Prevention</td>
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<tr>
<td>Preparedness &amp; Medical Response to Disaster</td>
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<tr>
<td>Information, Evaluation &amp; Research</td>
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Montana EMS & Highway Traffic Safety

- EMS System Development
  - EMS Leadership
Montana EMS & Highway Traffic Safety

- EMS System Development
- **Trauma System Development**
- Injury Prevention
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
Montana EMS & Highway Traffic Safety

- **Trauma System Development**
  - State Trauma Care Committee
  - Regional Trauma Advisory Committees
  - Trauma Facility Designation
  - Central Trauma Registry
  - Preventable Death Study
Montana EMS & Highway Traffic Safety

❖ Trauma System Development

❖ State Trauma Care Committee

<table>
<thead>
<tr>
<th>Trauma Care Committee – 15 Members</th>
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</thead>
<tbody>
<tr>
<td>Chairman, Committee on Trauma, College of Surgeons</td>
</tr>
<tr>
<td>Representatives – East, Central, West Regions</td>
</tr>
<tr>
<td>Trauma Coordinators</td>
</tr>
<tr>
<td>Montana Medical Association</td>
</tr>
<tr>
<td>American College of Emergency Physicians</td>
</tr>
<tr>
<td>Emergency Nurses Association</td>
</tr>
<tr>
<td>Montana Hospital Association</td>
</tr>
<tr>
<td>Ambulance / EMS</td>
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<tr>
<td>Indian Health Services</td>
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</table>
Montana EMS & Highway Traffic Safety

- **Trauma System Development**
  - Regional Trauma Advisory Committees
Montana EMS & Highway Traffic Safety

- Trauma System Development
  - Trauma Facility Designation
Montana EMS & Highway Traffic Safety

❖ Trauma System Development
  ❖ Central Trauma Registry
    ○ More severely injury patients requiring
      ▪ Higher levels of resources
      ▪ Team approach to optimal trauma care
    ○ Provides trauma data for:
      ▪ Demographics of severe injury in Montana
      ▪ Identification of patient care issues for all phases of care
      ▪ Development of trauma system performance improvement indicators
      ▪ Injury prevention
Trauma System Development

Preventable Death Study

- Conducted around the country as an evaluation tool
- Montana’s 1rst study conducted in 1992 – first rural study in the country
  - Overall preventable death rate = 13%
- Follow-up study conducted in 1998
  - Overall preventable death rate = 8%
- Now conducting a 3rd study of 2008 deaths
Montana EMS & Highway Traffic Safety

- EMS System Development
- Trauma System Development
- **Injury Prevention**
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
Montana EMS & Highway Traffic Safety

- Injury Prevention
  - SBIRT
    Screening Behavioral Intervention and Referral to Treatment
Montana EMS & Highway Traffic Safety

- EMS System Development
- Trauma System Development
- Injury Prevention
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
Montana EMS & Highway Traffic Safety

- Data & Analysis
  - EMS
  - Trauma
  - Hospital Discharge
  - Medicaid
- Advanced Automatic Crash Notification
Montana EMS & Highway Traffic Safety

- EMS System Development
- Trauma System Development
- Injury Prevention
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
Advanced Automatic Crash Notification

The Event
Advanced Automatic Crash Notification
Advanced Automatic Crash Notification
Montana EMS & Highway Traffic Safety

- Advanced Automatic Crash Notification
Montana EMS & Highway Traffic Safety

- EMS System Development
- Trauma System Development
- Injury Prevention
- Data & Analysis
- Advanced Automatic Crash Notification
- Towards Zero Deaths – EMS Initiative
Towards Zero Deaths – EMS Initiative

- Considerations for “Toward Zero Deaths: A National Strategy for Highway Safety”
- Prepared for NHTSA by NASEMSO, August 2010
Towards Zero Deaths – EMS Initiative

Detection Systems

- Telematics data definitions & standards (standardize crash notification projects)
- Advanced Automatic Collision Notification
- AACN Predictors

9-1-1 Access and Capabilities

- Enhanced 9-1-1 and Phase II Compliance
- Next Generation 9-1-1
Montana EMS & Highway Traffic Safety

- Towards Zero Deaths – EMS Initiative

EMS Response and Capacity
- National EMS Scope of Practice Model and National EMS Education Standards
- Vehicle Extrication and Competency Standards
- Regionalization of Emergency Care
- Integrated Ambulance-based Safety Systems
- Evidence-based Emergency Vehicle Operation Standards
Towards Zero Deaths – EMS Initiative

On Scene Medical Care
- Field Triage Decision Scheme
- National Unified Goal for Traffic Incident Management

Patient Transportation
- Engineering and Design Standards for Ambulances
- Helicopter EMS Utilization Criteria
- Ground Ambulance Access to Intelligent Transportation Systems Infrastructure
Towards Zero Deaths – EMS Initiative

Definitive Care: Hospital and Specialty Care

- Trauma Systems
- Prehospital and Interfacility Telemedicine Applications

EMS Data, Registries & Records Linkage

- National EMS Information System (NEMSIS)
- Trauma Registry – severe injury data
- Records Linkage