Welcome to the National Academies, TRB 94th Annual Meeting
“Corridors to the Future: Transportation and Technology”

The National Academies
Transportation Research Board (TRB)
EMS Transport Safety ANB10(5)
January 2015 Subcommittee Meeting

Monday January 12th 8-9.45
Marriott Marquis, Eastern Market (M3)

Transportation Research Board 94th Annual Meeting,
National Academies Washington, DC, January 12th, 2015
“Corridors to the Future: Transportation and Technology”

Emergency Medical Services Transport Safety Subcommittee ANB10 (5)
2015 January Meeting:
ANB10(5) – EMS Transport Safety and developments in Technology and Standards

Nadine Levick, MD MPH
Chair Emergency Medical Services Subcommittee ANB10 (5), TRB
CEO, Research Director, EMS Safety Foundation

Eileen Frazer RN
Co-Chair ANB10(5) TRB
Executive Director of Commission on Accreditation of Medical Transport Systems (CAMTS)

Emergency Medical Services Safety Subcommittee ANB10(5) of the Transportation Research Board
Monday January 12th, 2015
8.00 am – 9.45 am
also via Webinar, Washington DC

Chair – Nadine Levick MD, MPH
Co-Chair – Eileen Frazer RN
Sponsored by Transportation Safety Management Committee (ANB10) –

TRB Annual Symposium

Inaugural 2008 ANB10(5) Subcommittee meeting

94th TRB www.TRB.org
What is EMS?

- Emergency Medical Services – (EMS)
- Emergency medical care, public health, public safety and patient transport
- Bridge between the community and the hospital
- Volunteer – professional
- Urban – rural
- Disaster response
- Majority of transports NOT critical or life threatening – (<3% are critical)

Transport related aspects of EMS

- dispatch of EMS vehicles
- transport policies and protocols
- vehicle fleets and vehicle design
- vehicle purchase standards
- Intelligent Transportation Systems technology
- driver training
- driver performance monitoring
- roadside and road design
- integrated traffic safety technologies
- scene safety and visibility
- safety data capture
- safety oversight

For the transportation folks…

Why is EMS Transportation Safety a focus

- Data state that per vehicle and per mile travelled high fatality rates
- Driven by drivers overrepresented in high risk group: under 25 years of age/male
- Designed outside of the automotive safety and occupant protection arena
- Dangerous driving practice: Travel at high speed and run red lights

Yet….

- In less than 3% of transports is it a life threatening emergency

Balance of concerns and risk during transport

- Response and transport time
- Clinical care provision
- Occupant safety/protection
- Public Safety

Ambulance Transport Safety IS Complex AND Multidisciplinary
Negative impact on system performance...

- A medical error may kill a patient
- An EMS crash can kill all those involved AND wipe out a rural EMS system AND negatively impact a region's response capacity.

USA EMS transport safety data estimates

- ~81,000 vehicles
- Upto 9,000 crashes a year
- ~One fatality each week
  - ~2/3 pedestrians or occupants of other car
- ~10 serious injuries each day
  - >50% not ambulance occupants
- Cost estimates > $500 million annually

Ambulance transport a serious USA transport safety problem...

- The most lethal vehicle on the road both per mile travelled and per vehicle
- Is exempt from federal commercial fleet safety oversight (FMCSA)
- 2/3 fatalities not in the ambulance
- More than half injuries are not in the ambulance
- Exempt from most FMVSS standards

In the USA there are more safety standards for moving cattle than for moving patients

Today's AGENDA

1. Opening Remarks - Nadine Levick and Eileen Frazer 8:00 - 8:15 AM
2. Subcommittee Meeting 8:15 - 9:45 AM
   2.1 Introduction
   2.2 Review and Approval of Minutes from 2014
   2.3 Review of Subcommittee activities 2014
   2.4 Sub-committee work program updates:
      2.4.1 Ambulance Transport Safety Summit 2015
      2.4.2 Research Needs Statements - Research Topics Database
      2.4.3 Administrative issues
      2.4.3.1 Liaison organizations
      2.4.3.2 TRB Changes/Communications/Website
      2.4.3.3 Membership/Recruitment
      2.4.3.4 2016 TRB Session Topics and Calls for Papers
3. EMS National Updates –
   3.1 Standards developments in 2014
   3.2 TIMS
   3.3 NAEMT Safety Course Update
   3.4 VFIS
   3.5 Federal Projects
   3.6 New communications technologies
4. Research needs

Follow hashtags #TRBEMS15, #ANB10(5), #EMSSafety on twitter!
Introductions

2.2 Review and Approval of Minutes from 2014

A HUGE Thank you from ANB10(5) to Rick Pain PhD for steadfast, inspiring and insightful mentorship
Without Rick’s visionary leadership, none of the activities of ANB10(5) would have ever been possible

This years TRB theme - “Corridors to the Future: Transportation and Technology”
Letter to Abe Lincoln – 1864 re: safety of ambulance design

1864 Ambulance Design Patent and diagrams
Almost 150 years ago

and tweeted...

Big Data and Mobile Health
From our very first Subcommittee meeting

- facilitating translation of relevant related transportation safety research and knowledge to EMS

Safe Systems Approach

Source: Road Safety Branch, Infrastructure and Surface Transport Policy, Department of Infrastructure, Transport, Regional Development and Local Government, Australia.

Systems safety of:

- Dispatching a vehicle
- Getting you, your patient and equipment to, in and out of the vehicle
- Providing patient care inside the vehicle
- Occupant protection in crash and near miss situations
- Public safety

System Design Constraints

- Do the clinical work that is required and essential
- Not get hurt or killed
- Not hurt or kill anyone else
  
  So...
  
  Clinical need
  
  Human tolerance of injury
Intelligent Transport Safety Systems

Miniaturize this interface?
Now can be done on a smartphone platform!!

Much of this is now in our hands and on our heads!!

Wireless patient monitoring
July 17, 2014

CrowdOptic Signs Software Deal With ProTransport - 1 to Install Google Glass in Ambulances
Companies Aim to Enhance Emergency Medical Services Using Google Glass

San Francisco, CA, and Sacramento, CA, Jul 17, 2014-- (PR Newswire) -- CrowdOptic, an innovator in mobile and wearable broadcasting solutions, and ProTransport 1, Northern California's premier medical transport provider, today announced a software sales agreement under which ProTransport 1 will deploy the CrowdOptic Google Glass broadcasting solution in its ambulances and mobile medical units.

ProTransport 1 will use Google Glass to broadcast real-time video evaluations of patients from ambulances during transport to the receiving healthcare institutions. This technology solution will help improve documentation and expand medical consultative opportunities for patients in need.

July 22, 2014

Why Paramedics Might Soon Get Google Glass

By Avital Abraham

While Google Glass potential as a consumer device remains to be seen, Laurel Robinson-Morris is excited about its possibilities in the workplace.

Robinson-Morris is president and chief executive officer of Medix, an ambulance service in Skokie, Ill., that provides transportation to hospitals and other health care sites throughout the Chicago area.

The company has acquired two pairs of Google Glass, installed with software and connected to the Internet, allowing paramedics to transmit live videos and audio from an ambulance to a doctor in an emergency room who will be able to watch the video stream on a tablet or desktop computer.

The additional eyes on a patient’s face can provide paramedics with a wealth of information for treatment options. Medix plans to launch a trial with Advocate Illinois Masonic Medical Center in Chicago.

Breaking down the silos between:

- EMS practice
- Automotive occupant protection
- Fleet management
- Human factors and ergonomics
- New technologies in monitoring, communication
- Interoperability
- Fragmented oversight
This morning’s meeting

- Will cover:
  - Review of TRB EMS Safety Subcommittee’s activities
  - An overview of the TRB and opportunities for EMS
  - Research funding pathways via the TRB
  - National updates
  - Research Needs/Problems/Statements
The TRB and EMS

- **TRB Mission:**
  To provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multi-modal.
- **TRB Goals:**
  - Being prepared for challenges.
  - Conduct and promote knowledge.
  - Provide timely and informed advice.
  - Act as an effective and impartial forum.
  - Promote collaboration.
  - Contribute to the professional development.
  - Conduct and promote communications efforts.
  - Contribute to public’s understanding.
  - A resource to the nation and to the transportation community worldwide.

What is ANB 10 (5)?

- Emergency Medical Services Safety Subcommittee, ANB 10 (5)
  - Subcommittee of the Transportation Safety Management Committee ANB 10, of the Transportation Research Board of the National Academies

EMS Safety Subcommittee ANB10(5)

- Subcommittee supported by Transportation Safety Management ANB10
- Established July 2007
- First Subcommittee meeting – Jan 2008
- Chair, Nadine Levick MD, MPH
- Co-Chair, Eileen Frazer, RN
- Scope – Medical Transport Safety

Multidisciplinary research

- Encompassing all aspects of transportation
- The expertise that EMS needs to address its transportation safety challenges includes:
  - Systems design
  - Transport systems safety
  - Human factors
  - Vehicles
  - Fleet operations
  - Air medical transport safety
  - Managing impaired operators
  - Road design and egress and access
  - Highway and operational hazards

Fragmentation

- There are now numerous and variably sound or technically sophisticated events occurring sporadically on ambulance safety – none under a transportation umbrella
ANB10 (5) TRB EMS Subcommittee Mission

• 'Bridging the gap between what we do and what is known - Enhancing ambulance transport safety through shared knowledge of technical data'.

Integration

ANB10(5) is an independent platform for:
• Bringing fragmented information together
• Uniting diverse disciplines
• Focus on technically robust information

The Transportation Research Board (TRB)

• History
TRB was established in 1920 as the National Advisory Board on Highway Research to provide a mechanism for the exchange of information and research results about highway technology.

TRB MISSION

• To provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

TRB divisions

• Technical Activities supports standing committees and task forces.
• Studies and Special Programs convenes specially appointed expert committees to conduct policy studies and program reviews, maintains the TRIS database, provides library services, prepares synthesis reports on behalf of the Cooperative Research Programs, and manages the Innovations Deserving Exploratory Analysis (IDEA) programs.

TRB research programs

• Cooperative Research Programs manages
  – National Cooperative Highway Research Program - NCHRP
  – Transit Cooperative Research Program - TCRP
  – Airport Cooperative Research Program – ACRP
  – National Cooperative Freight Research Program - NCFRP
  – Hazardous Materials Cooperative Research Program -HMCRP
• Strategic Highway Research Program 2 (SHRP-2)
  – manages a targeted, short-term, results-oriented program of contract research designed to advance highway performance and safety for U.S. highway users.
• Administration and Finance provides financial, information technology, and other administrative support, including financial oversight of the contracts and grants that support the work of TRB, administration of publications sales and distribution, and maintenance of benefits and services for sponsor and affiliate organizations.
Special role for EMS at TRB

- One of the Key 4 E’s
  - Engineering
  - Education
  - Enforcement
  - Emergency Medical Services

Transportation Research Board is an excellent resource… we should be using it!!

Emergency Medical Services Response to Motor Vehicle Crashes in Rural Areas
http://www.trb.org/Main/Blurbs/169523.aspx

In Summary TRB Services

- A resource to the nation and to the transportation community worldwide
- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world.

Who is attending the 94th TRB meeting

- >12,000 transportation related researchers and technical personnel from all over the globe

TRB 2015

- Making Ambulances Safer for EMS Personnel
  - James Green, National Institute of Occupational Safety and Health
  - P15-0240
- A Mathematical Formulation and Heuristic Method for Relocation and Dispatching of Heterogeneous Fire Department Fleet
  - Elham Sharifi, University of Maryland, College Park
  - Ali Haghani, University of Maryland, College Park
  - Hadi Sadrsadat, University of Maryland, College Park
  - 15-0492
- A Double Standard Model For Emergency Medical Services Allocation Considering Resource Uncertainty
  - Yi Li, Illinois Institute of Technology
  - Zonghui Li, Illinois Institute of Technology
  - Harshingar Patel, Illinois Institute of Technology
  - 15-4705
TRB Resources and Structured Transportation Research Programs

TRID  http://trid.trb.org/
the TRIS and ITRD

TRB Resources

Resources and Databases
TRB maintains a number of databases and other resources designed to help researchers identify existing, ongoing, needed, and potential areas to test outcomes and recorded sessions that are available for review.

TRB's Online Conference Room
TRB has developed a searchable database of conference papers and proceedings. The database can be searched by conference, year, and title. The searchable database is available at the Conference Papers and Proceedings page of the TRB website.

TRB's Online Bibliography
TRB has developed a searchable database of transportation research literature. The database can be searched by keyword, author, title, and year. The searchable database is available at the Bibliography page of the TRB website.

Other TRB Online Resources

• Research in Progress (RiP) Database
• RiP provides access to more than 10,000 descriptions of current or recently completed transportation research projects from federal and state transportation agencies, universities, and international organizations
• The TRB Publications Index is a searchable index of the Board’s papers and reports.

Transportation Research Information Services (TRIS)

• Online Research Information
• TRB produces and maintains the Transportation Research Information Services (TRIS), the world’s largest and most comprehensive online bibliographic database of published and ongoing transportation research.
• Through a cooperative agreement with the Bureau of Transportation Statistics, the TRIS Database is available on the Internet through the website of the National Transportation Library. This service, TRIS Online, can be accessed through the TRB homepage at www.TRB.org. TRIS is also available through two fee-based services, Dialog and Silverplatter’s TRANSPORT CD-ROM.

Other TRB Online Resources

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Synthesis Program

- Reports on current knowledge and practice
- Synthesize fragmented, scattered, and unevaluated existing information
- Initiation of ~ 12 syntheses per year
- Selection process for synthesis topics:
  - widespread enough to generate broad interest
  - timely and critical for expediting delivery, improving the quality, or lowering the cost of transportation programs
  - current practice is non-uniform or inconsistent from agency to agency, or if the validity of some practices appears to be questionable
  - a need to organize and compress that which has already been learned and written on the topic
  - ongoing research or other activities in progress should not render the synthesis obsolete shortly after completion

National Cooperative Highway Research Program (NCHRP) Synthesis

- New NCHRP Synthesis topics submissions due February, 2015

Strategic Highway Research Program (SHRP 2)

- Congress established the second strategic highway research program (SHRP 2) in 2006 to investigate the underlying causes of highway crashes and congestion in a short-term program of focused research. Focus areas:
  - Safety: Significantly improve highway safety by understanding driving behavior in a study of unprecedented scale
  - Renewal: Develop design and construction methods that cause minimal disruption and produce long-lived facilities to renew the aging highway infrastructure
  - Reliability: Reduce congestion and improve travel time reliability through incident management, response, and mitigation
  - Capacity: Integrate mobility, economic, environmental, and community needs into the planning and design of new transportation capacity

IDEA Program
Research Approaches

- Submission avenues:
  - Synthesis topic - NCHRP
  - SHARP 2 – Safety
  - Research questions/Problem statements

Sample Research Question

ANB10(5) Umbrella Committee
is
ANB10 Transportation Safety Management

How do TRB Subcommittees work?
Problem statement development in progress from 2008-2014

- Development and application of standardized definitions to capture EMS transport data across all agencies.
- Identifying ambulance fleet mix by state.
- Determination of current state based emergency vehicle crash data capture and analysis; police, fire and EMS.
- Identifying the regional essential and optional equipment payload for ambulances.
- Evidence for ambulance visibility and conspicuity.
- Effectiveness and cost effectiveness of real time driver monitoring feedback devices for EMS services.

NCHRP 17 - 51

- The Framework developed by NCHRP 17-51 will be a tool that Stakeholders can use to formulate their Highway Safety Plans which integrate EMS, at the National, State, or Local Level. More information about the Framework Project is available at:
  http://www.strategicsafetyplan.com
2.3 Review of Subcommittee activities 2014

- EMS Today, 2014
  - INDEMO & Outreach with TRB Summit multimedia info
- EMS World Expo 2014
  - INDEMO & Outreach with TRB Summit multimedia info
- Input to NAEMSP Transport Safety Position Statement

Subcommittee Meeting stats

Sure took us by surprise!

- >11,300 downloads of Subcommittee meeting handout
- >50,300 downloads of Synopsis of the 2012 Safety, Systems, Strategies and Solutions Summit handout
- >10,100 Fleet Tech Innovation handout
- >9,200 Standards Update handout

The Safety Systems, Strategies and Solutions Summit Feb 2012

- ~50 onsite – lead representatives
- Live online participation with international representation
- 7 focus areas and a panel
- >120,000 downloads of presentation handouts
- Multi-Media ‘e-document’ with QR tags
- You tube overview

EMS Safety Systems Strategies and Solutions Summit, February, 29, 2012

- What are global best practice models
- Making it happen
- How can we translate global interdisciplinary best practice initiatives to North American EMS
2012 TRB Summit opening address

For the audio track click:
- click on the "Audio" link below with your mouse, or
- capture the QR code below with your smart phone of any type (after downloading any free QR reader)

Agendas
- Opening Gala in Washington, DC
- Opening Address:
  - 8:00-8:15: Opening Address: E. Bratter
- Introductions and Safety Developments Update:
  - 8:25-8:30: Overview: M. Newton, M.S.
- Research Needs Assessment (R&AS):
  - 8:35-8:50: Research needs assessment process explained – J. Frazier
- Data and Recent Initiatives – moderator – C. Coble:
  - 8:50-9:15:
    - Safety data update – N. Lyle
    - NHTSA/FMEMC/NHTS Update – C. Coble
    - NASMT Safety Course – G. Lesslie

2.4 Sub-committee work program updates:

2.4.1 Ambulance Transport Safety Summit April 2015
- Synopsis of 2008, 2009, 2012 Summit resources
- Focus on: A Road Map to Safety
  - Integrating existing data, knowledge and resources
    - A systems engineering approach to applying safety concepts
  - Data supported practices, policies and standards
    - Fleet operations/transport clinical aspects
  - New technologies
    - Fleets/vehicles/human factors/patient monitoring/communications

2.4.2 Research Needs Statements - Research Topics Database

2.4.3 Administrative issues
- 2.4.3.1 Liaison organizations
- 2.4.3.2 TRB Changes/Communications/Website
- 2.4.3.3 Membership/Recruitment
- 2.4.3.4 2016 TRB Session Topics & Calls for Papers
Research Problem Statements

Developed 3 small and 2 larger project outlines

1. Data definitions of:
   i. ambulance
   ii. emergency response
   iii. ambulance crash

2. Essential/Optional Ambulance Equipment
   What does each state require? Expert panel to identify:
   i. essential equipment
   ii. optional equipment
   iii. equipment specific to regional needs

3. Fleet mix, by state

4. Effectiveness and cost effectiveness of EMS monitoring feedback devices

5. Determination of State based emergency vehicle data capture and analysis: police, fire and EMS

2.4.3 Administrative issues

2.4.3.1 Liaison organizations
2.4.3.2 TRB Changes / Communications / Website
2.4.3.3 Membership/Recruitment
2.4.3.4 2016 TRB Session Topics and Calls for Papers

ANB10 Committee
https://sites.google.com/site/trbcommitteeanb10

3. EMS National Updates

3.1 Standards developments in 2014
3.2 TIMS
3.3 NAEMT Safety Course Update
3.4 VFIS
3.5 Federal Projects
3.6 New communications technologies
The Challenge as We See It

NASEMSO Perspective on Ambulance Vehicle Design

January 16, 2014

- KKK
- NFPA
- SAE
- ASTM 2020
- NASEMSO MVDR
- CAAS
- CAMTS
- FMVSS
- FMCSA
- State required ambulance equipment
- And international CEN, ASA, India, Malaysia

GSA KKK

- A purchase specification - not a safety design standard
- Sunset is extended to Oct 1, 2016

Standards ?
State EMS Offices’ Typical Roles

- Setting EMS educational standards
- Licensure of EMS personnel
- EMS response data collection
- Trauma system regulation
- Licensure of EMS agencies, including requirements for the design of ambulances
- Enforcement, inspections, investigations, sanctions

States Regulate the Design of Ambulances

- 14,500 ambulance services licensed in the US
- State approaches fall into 5 categories:
  - KKK specs incorporated in whole or part in rule
  - KKK specs in policy
  - Regulate design, but not using KKK specs
  - No design regulation
  - “Other”

For restraint systems – not vehicle design & not based on crashworthy vehicles

Again, for equipment anchors, NOT vehicle crashworthiness
Energy transfer is not a consensus process

Opinion Consensus
vs
Technical Science

3.2 TIMS
Traffic Incident Management

- Planned and coordinated multi-disciplinary process to detect, respond to, and clear traffic incidents so that traffic flow may be restored as safely and quickly as possible. Effective TIM reduces the duration and impacts of traffic incidents and improves the safety of motorists, crash victims and emergency responders.

  - Emergency Medical Services
  - Fire and Rescue
  - Law Enforcement
  - Towing and Recovery
  - Transportation
  - Medical Examiners/Coroners
  - Metropolitan Planning Organizations
  - Public Emergency Access Points (911 centers)

3.3 NAEMT Safety Course Update

Glenn Luedtke NREMT/P
Immediate Past Chair NAEMT Safety Course

- 50 Years in EMS/Public Safety
- Director, Sussex County EMS (retired)
Course Design

- One-day program
- Interactive lecture, discussion, group activities
- Case studies using real incidents
- 8 hours continuing education credit (CECBEMS)
- Presented in 8 modules

EMS Safety Course Committee

Course Leadership

- Chairman, Mike Szczygiel (Segal)
  - Over 40 years experience in EMS
  - Nationally Registered Paramedic
  - Senior Loss Control Representative, Thomco Insurance
  - Part of the original design team for the EMS Safety Course

Course Revision

- Revision project in progress
- Jones & Bartlett will produce all course materials
- Increased student participation
- Additional video and new photos
- Rollout planned for EMS World Expo
  - September, 2015
  - Las Vegas, NV
- Remains a one-day course

NAEMT EMS Safety Course

For more information on how to sponsor a course,

✓ go to www.naemt.org, click “EMS Safety”
✓ call 1-800-346-2368 (1-800-34NAEMT)
✓ email info@naemt.org
✓ visit “NAEMT EMS Safety” on Facebook

3.4 VFIS
3.5 Federal Projects

- FHWA Strategic Highway Safety Plans & EMS
- Culture of Safety
- NIST/NIOSH/DHS
- DHS wireless
- NEMSAC

Federal Agencies and National Organizations

Dia Gainor, MPA, QAS
Executive Director
NASEMSO

NIOSH

Final document released

Occupational Injuries and Illnesses among Emergency Medical Services (EMS) Workers

This is a collaborative project with the National Highway Traffic Safety Administration (NHTSA), NIOSH, and the Office of Emergency Medical Services (EMS). The purpose of this project is to conduct research to evaluate and describe the nature, incidence, and outcomes of injuries and illnesses reported to NIOSH by EMS workers, including the nature, circumstances, and outcomes of the injuries and illnesses reported to NIOSH by EMS workers.
Automotive Safety & occupant protection remain unresolved, with serious automotive safety concerns.

DHS Wireless Patient Monitoring

TSAG
http://www.tsag-its.org/

3.6 New Safety Communication Technologies
New Tech

- 36% of Google Ventures’ investments in 2014 were in healthcare and life sciences. Upping its funding in the sector from just 9% in 2013, the tech giant plans to continue exploring the area with an emphasis on big data next year. Wall Street Journal

Ambulance drones could be saving lives soon! Earlier this year, the Netherlands developed a prototype that can deliver a defibrillator to a patient suffering a heart attack. Once it lands, the drone uses live stream video conferencing to connect emergency responders to people on the ground.

And even now AED Drones!

EMS Safety Foundation’s new demonstration Project: Ambulance Safety INDEMO 1.0

- Designs so that you can do your work with optimum safety and efficiency.
- Based on state of the art science, practice and input from the world’s leading experts in automotive safety and human factors.
- Designs that are cheaper, better, safer.
Even use of scale lego models

Simplicity is the Ultimate Sophistication
- Leonardo da Vinci
Would you like a virtual tour of INDEMO 1.0 or an onsite to visit your site/conference?
http://www.emssafetyfoundation.org/INDEMScheduleForm.htm

Deploying new virtual tools for sharing innovation in design globally

And even mobile Virtual presence

Virtual presence

TRB ANB10(5) 2015
Forthcoming ANB10(5) 2015 Plans:
• White paper focusing on Technical Science underpinning guidelines and standards
• Minitopic seminars
• Preparation for Safety Systems Strategies & Solutions Summit April 2015
• Enhance social media foot print

Proposed mini session topics
• Data driven transport related practices:
  – Fleet
  – Clinical
• Pediatric/Neonatal transport safety
• Motorcycles in EMS

Sign up for ANB10(5) here...
http://www.objectivesafety.net/TRBSubcommitteesignup.htm

New Business
• New projects
• Task Force?

Any questions or comments?