WELCOME!

to the EMS Safety Foundation
at a PC/Laptop near you, March 21, 2013
Innovation, Collaboration and Knowledge Transfer and Policy
Starting at 2pm USA EDT today
Please do log in for sound checks from 1pm

EMS Safety Foundation’s 5th Birthday, EMS Today, TRB EMS Activities, Neonatal Transport Safety Project, New Sirens project, Standards Update, iRescu Project, and Rettmobil 2013

Background:

• EMS Safety Foundation has been established to fill a gap in
  – technical knowledge transfer
  – practical interdisciplinary R & D
  – evaluation and implementation of system safety enhancements for EMS and Medical Transport

• It is a not-for-profit institute

Mission

• This is a team of like minded innovators across EMS Medical Transport and a number of technical disciplines, who share the common mission of enhancing the safety of EMS delivery for all involved by promoting and advancing EMS safety innovation, collaboration, research, knowledge transfer, education and safety information dissemination

In a nutshell

• EMS Safety Foundation is a not-for-profit multidisciplinary virtual think – tank and test bed for safety innovation and knowledge transfer
• It is a virtual network integrating the end users and the technical experts
• A tool to enhance the safety of delivery of EMS services

R & D

“Ripoff and Duplicate”

• Avoid reinventing the wheel at all costs
• Where are the best practices that we need to transfer knowledge from

Webinar Basics, new interface

The "hand"
Raise Hand
Whiteboard tools
Text messaging
Send to others
we are your location

use white board tools to mark your location...
- pick up the 'pen tool' and choose your color

Innovation

Collaboration

Knowledge transfer
Today's Webinar is recorded!
The presentation and all comments typed in the text box will be available for viewing via the www.EMSSafetyFoundation.org website within 72 hours.

Fifth Year Anniversary!!

Today's Webinar
- Will cover:
  - 5 Year Review
  - TRB EMS Fleet Seminar
  - EMS Today 2013
  - Neonate Transport Safety Project
  - NAEMT Safety Course Update
  - Social networking and you – etags and twitter
  - The iRescU project
  - EMS Expo 2013
  - Rettmobil Delegation Plans for May 14-17 2013

Before embarking on what we have done in 5 years, I am going to take us back 5 years to our very first webinar and I think you will be a bit surprised – coz I was.

Goals
- The primary goals of bringing this unique group of folks together are to:
  - Share pooled best practices
  - Integrate key technical expertise to address common challenges
  - Advance new multidisciplinary research projects
  - Translate safety technology from appropriate related technical areas to EMS
  - Knowledge transfer from research to practice

Key 5 Safety Priority areas of focus
Here is what you sent in: n = 155

Relative Priority Issues
- Priority Number one
  - Vehicle ops - 29%
  - Ambulance design - 27%
- Priority Number two
  - Ambulance design - 35%
  - Vehicle ops - 29%

Big issues are
- Transport
  - Vehicle
  - Vehicle operations
  - Scene
- Patient handling
- Equipment
  - Protective and other

Happy 5th Birthday!!
A resource in demand!

- Over 350 folks directly involved –
- Collaboration with the National Academies of Science Medicine and Engineering
- 3 EMS Safety Summits with TRB
- Over 100 webinars
- Dozens of Seminars and Workshops
- Hundreds of thousands of downloads
- Intra mural and extramural awards
- Over 100 handout and recordings

5 Years - and what have we done?

- 5 Years and what have been the outcomes?
  - Dozens of Seminars and Workshops
  - Hundreds of handouts and recordings
  - Over 100 webinars
  - Collaboration with the National Academies of Science Medicine and Engineering
  - Established a global platform for EMS safety that has resulted in global connections
  - Early adoption of web based communication and meeting technology to enable financially viable global collaboration to occur on a regular basis
  - Key involvement in establishing new design precedents for ambulances. In particular, moving from box to van based designs to capture OEM vehicle safety features.
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- Intra mural and extramural awards
- Reaching now 100's of thousands with accessible technical science to help drive decision making
- Invited to present at the Whitehouse!
- Invited meeting with Administrator of FMCSA
- Invited booths at major national and international congresses
- Scientific papers at numerous conferences
- Keynote presentations across USA & internationally

5 Years and what have been the outcomes?

- Three + fleets of innovative ambulances rolled out
- Funded neonatal transport project

- Intra mural and extramural awards
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Achievements - the tech experts view

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From a volunteer service

1. Awareness
2. Buckling EVERYTHING and EVERYONE up
3. New innovations in safety
4. What works, what doesn’t
5. Awareness

From a large corporate EMS system

1. Kept us up to date with importance of EMS Safety
2. Research based information
3. Introduction of new equipment for safer operation
4. A unified voice for EMS Safety

From a Fire EMS Service

1. Use of safety belts in the patient compartment by providers
2. Construction of ambulances & testing
3. Securing of equipment in the patient compartment to prevent movement
5 years really important achievements

- Made MANY new friends and colleagues all over the world
- INNOVATION
- COLLABORATION
- KNOWLEDGE TRANSFER

A TRUE CHANGE IN SAFETY CULTURE

CONGRATULATIONS to our many award winners!!!

- EMS Safety Foundation 2009, 10, 11 and 12 recognition and achievement awards
  - EMS Safety Foundation Leadership Award
  - Technical Expert Award
  - Industry Partner Award
- Objective Safety 2008, 9, 10, 11 and 12 Award
  - Innovation and Practice Award

EMS Safety Foundation & Objective Safety 2012 recognition & achievement award recipients:

- The "Bill" Leonard Commitment to EMS Safety Award - Dr. Sarah Shaikh Abdul Karim, Malaysia
- EMS Safety Foundation 2012 Leadership Award – Japanese Paramedic Association
- EMS Safety Foundation 2012 Technical Expert Award – Shahid DeViLle
- EMS Safety Foundation 2012 Industry Partner Award – JEMS
- Objective Safety 2012 Innovation and Practice Award – Bill McClincy and Eric Henry, EMMCO & Meadville Ambulance, Erie PA

EMS Safety Foundation & Objective Safety 2012 recognition & achievement award recipients:

World Expo/EMS Safety Foundation 2012 Safety Innovation Awards

- 12 product winners
- 4 special mentions
- Criteria
  - Safety Innovation
  - Practical/Usability
  - Cost Efficiency

EMS World/EMS Safety Foundation Awards

1. Ferno – Mondial Stretcher
2. Ferno – Acetech Fleet System
3. Zoll – v-Insight
4. ZOLL – Road Safety/Rescuer!
5. Miller Coach – forward facing seating, second patient capacity and console
6. Miller introduced LED side lights
7. ADV – Integrated Flat panel switches
8. Credaro – integrating a fleet safety hardware system in vehicle promotion
9. Priority Care EMS – Smart Gear bags – Prophylaxis - Sls Suicide Shield
10. Pacific – EMS internet
11. New Orleans EMS for operationalizing clever clothing

Honorable mentions – Doty Belt Stryker Stretcher Platform VFIS Safety Training Materials Blauer clothing

EMS World/EMS Safety Foundation

http://www.emsworld.com/magazine/ems/issue/2013/mar

March 2013 Fleet Tools Webinar
- Outline:
  - An overview of the TRB ad ANB10(5)
  - A review of ANB10(5) EMS Fleet activities
  - Fleet Management Tools update
  - Introductory presentation by Nancy Bendickson, AON
  - Operational presentations:
    - Bruce Farr
    - Charlene Cobb
- Handout:
EMS World Expo EMS Safety Foundation Presentation, Nov 2, 2012

- “Bang for buck: Ambulance Safety, Standards and Survival - What do you need to know”
  - http://www.EMSSafetyFoundation.org/2012EMSEXPONewsStandardsH0.pdf

EMS Safety Foundation Neonatal Transport Safety Project progress report

EMS Safety Foundation Neonatal Transport Project Award –

Safe Emergency Transport of Neonatal Patients – Phase I Project
- (Funded by Medevac 2013)

Specific aims:
- To determine key interdisciplinary technical data for design of a safe system for transport of neonatal patients.
Research hypothesis:
- Key technical data for neonatal transport safety design can be determined with an interdisciplinary team.

Methodology
1. Assemble Interdisciplinary Advisory Panel
2. Comprehensive search of clinical, epidemiological, biomechanical and anthropometric data and literature
3. Assessment of spectrum of clinical nature/type of transports & existing practices/devices used in neonatal transport
4. Determination of key interdisciplinary issues (biomechanical integrated with clinical operational needs) required for addressing safe neonatal transport
5. Identification of biofidelic models for neonatal occupant safety determination
6. Determine key technical data required for effective neonatal transport safety model design
7. Development core preliminary neonatal transport safety recommendations based on this Phase I data and present findings.


EMS Safety Foundation Innovation Consortium Members

- Vehicle development
- Policies
- Equipment
- AND research initiatives!
Evaluation of the limitations of emergency vehicle sirens and development of a Public Safety Awareness Video
Peter Dworsky MPH, EMT-P
Corporate Director, Support Services, MONOC

Objective
To evaluate the general public’s ability to detect emergency warning devices while operating privately owned vehicles on public roadways.

Results

<table>
<thead>
<tr>
<th>Siren</th>
<th>Window</th>
<th>Lid</th>
<th>Radio</th>
<th>dB Level</th>
<th>Distance (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wail</td>
<td>Open</td>
<td>Off</td>
<td>Off</td>
<td>80</td>
<td>1500</td>
</tr>
<tr>
<td>Yelp</td>
<td>Open</td>
<td>Off</td>
<td>Off</td>
<td>80</td>
<td>1500</td>
</tr>
<tr>
<td>T3</td>
<td>Open</td>
<td>Off</td>
<td>Off</td>
<td>80</td>
<td>600</td>
</tr>
<tr>
<td>Air Horn</td>
<td>Closed</td>
<td>On</td>
<td>Local</td>
<td>75</td>
<td>210</td>
</tr>
<tr>
<td>T3</td>
<td>Closed</td>
<td>On</td>
<td>Local</td>
<td>75</td>
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<td>10</td>
</tr>
</tbody>
</table>

There are numerous other variables:
- Person age and auditory acuity
- Their vehicle type
- Siren type (not just mode)
- Environment (e.g., Times Square or rural or urban)

Some next steps:
Careflite spreading the word
http://texasweb.tamu.edu/file/Swartz.pdf

Collaborations and Interdisciplinary outreach
Collaboration with National Academies TRB

- Subcommittee Meetings
  - Each January
- Summits
  - 2008
  - 2009
  - 2012

TRB Safety Systems, Strategies and Solutions Summit Feb 2012

- ~50 onsite – lead representatives
- Live online participation with international representation
- 7 focus areas and a panel
- >50,000 downloads of presentation handouts
- Multi-Media ‘e-document’ with 2D etags
- You tube overview

Google Crisis response team

http://www.youtube.com/watch?v=rlLt-sXil1ug&feature=youtu.be&t=6m12s
2012 Summit Synopsis on YouTube
http://youtube.googleapis.com/v/avFjl06bYcY

March 2012 EMSSF TRB Synopsis Webinar
http://www.emssafetyfoundation.org/Recorded2012March15ICTEPWebinarlogininfo.htm

TRB Summit Simulcast Opening Address
– AJ Heightman

Fleet & Ambulance Standards & Guideline Issues Panel
Audio -
http://onlinepubs.trb.org/onlinepubs/evu/AF000/EMS
SUBCOMMITTEE MEETING TRB 92 AM/MZ000011.MP3
• Nadine Levick, EMS Safety Foundation
• Ron Thackery, AMR
• Dia Gainor, NASEMSO
• Eileen Frazer, CAMTS
Handout -
http://www.EMSSafetyFoundation.org/TRBANB10(5)2013
SubcommitteeStandards&GuidelinesHO.pdf

• Neither NFPA nor KKK/AMD is a SAFETY standard – they
do not use any injury outcome data, meeting NFPA/KKK
requirements DOES NOT predicate safety for occupants
• The manufacturers understandably want to have one
standard to design to
• “Certified testing labs” have nothing to do with injury criteria
or the safety of occupants. These are NOT automotive
safety testing centers, they have no injury outcomes that
• It is important that any standard does not conflict with
existing technical safety science and does not obstruct
scientifically proven safety developments

The big picture issues

92nd TRB – Jan 13-17 2013
Deploying Transportation Research -
Doing Things Smarter, Better, Faster

AMD ambulance ‘safety testing’? – Is NOT
consistent with accepted automotive safety
and occupant protection practice…
Yes a “nationally recognized testing lab” – BUT - NOT an automotive/occupant safety crash test lab!!

ISO/IEC Various types of bodies performing inspection
ISO/IEC 17020:2012
Conformity assessment – Requirements for the operation of various types of bodies performing inspection

The CEN Process: A Technical Consensus
http://www.cen.eu/boss/supporting/Pages/default.aspx

Zoll EMS Safety Foundation International Fellowship
- Candidate from Innovation Consortium Member Service
- 2 weeks, outside USA
- Matching funds from Candidates Service
- Report/Paper to be produced

New Safety Text
CAMTS reference entitled: "Safety and Quality in Medical Transport Systems: Creating an Effective Culture"

Safe Systems Approach

Occupant Systems Safety
- Occupant Safety in EMS is driven by both operational and biomechanical systems.
- Systems Safety integrating these two issues is key
- There is interaction of occupants with the system, with each other and with available seating options and vehicle interior, equipment and operational tasks.
Culture of Safety document
Reviewed at NEMSAC, Jan 30, 2013

1. layout difficult to follow
2. audience not as well clarified
3. context not well fleshed out
4. strong case not made for strategy being proposed
5. a mismatch between details and granularity and audience

Proposed: A major rewrite required
Join in the New AED geolocation Challenge!! www.iRescu.info/AED.htm

- First Few Moments
  - Kyle Bates from Rettmobil!

- EMS Classroom Conundrums
  - David Aber
    www.blogtalkradio.com
    and Search for The EMS Roundtable Movin' and Shakin' - Proper Patient Movement and Transport

- Reference Guides for Decision Makers
  - Standards Development process based on international best practice
  - Ambulance and Fleet Design

Come Join us @Rettmobil 2013
Fulda, Germany, May 14-17
http://www.rettmobil.org

http://www.EMSSafetyFoundation.org/ Protected ICTEP/RETTmobilICTEP2013interestForm.htm
Join the EMS Safety Foundation Rettmobil Delegation 2013 – May 14-17th

http://www.EMSSafetyFoundation.org/amember/ProtectedICTEP/RETTmobilICTEP2013InterestForm.htm

Rettmobil 2013 Interest Sign Up link
http://www.emssafetyfoundation.org/amember/ProtectedICTEP/RETTmobilICTEP2013interestForm.htm

Hot off the Press!!!
CAMTS reference entitled:
“Safety and Quality in Medical Transport Systems: Creating an Effective Culture”

Get it at Amazon
Or CAMTS website
http://www.camts.org/
pre-order here shipping free

TIME LINE
March 2013 – Sept 2013
- Neonatal Transport Safety Project Webinar March 28, 3pm
- Rettmobil 2013 Delegation, Fulda, May 14-17
- EMS Safety Foundation Live from Rettmobil Webinar, May 16, 2013
- iRescu Challenge 2013 ends June 3 CPR AED Week
- EMS World Expo 2013, Hands on Design ‘Clinics’, Sept 2013

Thank you!
Any Questions??
an electronic recording and a .pdf handout of this presentation awaits EMS Safety Foundation Members online
www.EMSSafetyFoundation.org