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	September 10, 2013 Email Drint Comment RSS
	Texas EMS patient killed in collision with truck The force of the impact caused the patient and medics to be tossed around inside the ambulance
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	The Houston Chronicle
	HOUSTON, Texas — A man died after a pickup struck the ambulance taking him to the hospital, authorities said.
	A Ford F-150 truck collided with a Houston Fire Department ambulance about 9:20 a.m. Monday along the 9800 block of Bissonnet, Houston police said.
	The ambularice was flashing its lights and using the siren, police said.
	A 45-year-old heart attack victim was being taken to an area hospital. The force of the impact caused the patient and attending HFD paramedics to be tossed around inside the ambulance, HPD officials said.
	The patient stopped breathing after the collision and was pronounced dead at the scene. No other injuries were reported, police said.
	The driver of the pickup truck was questioned at the scene. HPD later cited him for failing to yield the right of way to the ambulance.
ENACC	Release of the man's identity was pending verification by Harris County medical examiners.
E INI Sydiety	The investigation into the fatal crash is continuing, police said.

September 7, 2013		
Two injured in Wayne County ambu	llance crash	
Monday, September 9, 2013 Southeast Missourian		
Two men suffered moderate injuries Saturday when an ambulance in which they were riding ran off the road and hit an embankment, the Missouri State Highway Patrol reported.		
Michael D. Irions, 34, and Harry Shearrer, 73, both of Patterson, Mo., were passengers in a 2009 Ford E450 ambulance driven by David Ross, 27, of Piedmont, Mo., according to a crash report from the patrol.		
The ambulance was traveling south about 6:05 p.m. Saturday on U.S. 67 two-tenths of a mile south of County Road 344 in Wayne County when it ran off the left side of the road, hit an embankment and came to rest in the median, the report stated.		
Irions and Shearrer both suffered minor injuries in the crash, according to the report.		
Irions was taken by air evac to Saint Francis Medical Center in Cape Girardeau, and Shearrer was taken by ambulance to Poplar Bluff Regional Medical Center in Poplar Bluff, Mo., the report said.		
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Patients must be in the over the shoulder harness, medics restrained in seat belts, equipment secured

EMS Safety timeline Didn't know it was an issue – 60's-70's Knew it was an issue – but didn't really know what to do – 80's-90's Safety technical data rolls out – past 10 years Change and adoption challenges – we are here now















Very Important Principle

Ambulance transport safety is part of a SYSTEM, the overall balance of risk involves the safety of all occupants and the public

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Helbourne, Australia Neonatal Ambulance – in transit mode





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.













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Change and Innovation

- Improved data systems for injury
- Enhanced data on denominator
- New technologies
- New policies/standards
- Interdisciplinary colloboration

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Caution!!!

- Just because it has been '<u>Tested</u>' does not necessarily mean it has been crash tested – nor that it is crashworthy and/or going to protect you
- Even if it has been <u>'Crash tested</u>' it depends upon to which standard, whether or not it is actually safe under real world crash conditions
- Appropriate technical expertise is key!!

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Technical Collaboration is key

- We are NOT the experts in this science
- We cannot afford to play the silo game here, it is costing lives, time and money
- We MUST have a meaningful evidenced based approach to design, operations and policy
- We must be outcomes driven

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What do we know works...

- Tiered dispatch
- Vehicle Operations Safety Policies
- Ideally, forward and rear facing seating
- If not, use squad bench lap seat belts
- Patient over the shoulder belts
- Securing equipment
- Fleet management electronic technical devices
- Safety awareness
- Cultural change

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Risk/Hazards

- Predictable risks
- Predictable fatal injuries
- Serious occupational hazard
- Public safety hazards

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Conclusion

- EMS transport has serious hazards and safety issues
- Major advances in EMS safety research, infrastructure and practice over the past 5 years
- Design must integrate occupant protection and ergonomic principles
- Multidisciplinary safety issue that EMS cannot solve internally
- Failure to transfer knowledge from transportation and automotive safety and ergonomics is unacceptable and dangerous
- EMS is still way behind the state of the art in vehicle, transportation and occupational safety

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