

## **Conflicts and Funding**

I have no relevant financial conflicts of interest to disclose

### FUNDING

•Integrating Evidence-Based Pediatric Prehospital Protocols into Practice Health Resources and Services Administration (HRSA) EMS for Children (EMSC) Targeted Issues Grant (09/10-08/14) - PI

•Pediatric Evidence-Based Guidelines: Assessment of EMS System Utilization in States (PEGASUS) - HRSA EMSC Targeted Issues Grant (09/13-08/17) – PI

•Charlotte, Houston, and Milwaukee Prehospital (CHaMP) Research Node - HRSA EMSC Targeted Issues Grant (09/13-08/19) - Site PI (PI: Lerner)

•EMSC Innovation and Improvement Center (EIIC) - HRSA EMSC Grant (07/16-06/20) - Co-I (PI: Macias)













































# Texas Emergency Department Configuration Types for Children















# **Equipment on Ground Ambulances**

# **JOINT POLICY STATEMENT**

### EQUIPMENT FOR GROUND AMBULANCES

American Academy of Pediatrics American College of Emergency Physicians American College of Surgeons Committee on Trauma Emergency Medical Services for Children Emergency Nurses Association National Association of EMS Physicians National Association of State EMS Officials

Only 34% of ambulances in the U.S. have ALL of the recommended equipment

ACS-COT, et al. Prehosp Emerg Care. 2014. 18 (1): 92-97. Texas Children's Hospital

Baylor













EBG Development	<b>TABLE 1.</b> Final Clinical and System Topics in Priority           Rank Order			
	Clinical Topics		System Topics	
<ul> <li>Initial EMSC and NHTSA</li> </ul>	Rank	Topic	Rank	Topic
Collaboration - Seizure	1	Airway management	1	Effectiveness of out-of-hospital
- Pain Assessment + Management - Helicopter EMS	2	Respiratory distress	2	Interventions Knowledge and skill deterioration
<ul> <li>Integrating Evidence-Based</li> </ul>	3	Trauma	3	Patient outcomes
Pediatric Prehospital Protocols into	4	Asthma	4	Evaluation of the
Practice				EMS system changes
- Asthma				on children
- Bronchiolitis	5	Head trauma	5	Training effectiveness
- Croup	6	Shock		
<ul> <li>Pediatric Evidence-Based</li> </ul>	7	Pain		
Guidelines: Assessment of EMS	0	Respiratory arrest		
System Utilization in States	10	C-spine immobilization		
(PEGASUS)	11	Cardiac arrest		
- Allergic Reactions	12	Injury prevention		
- Airway Management	13	Children with special needs		
- Spinal Care	14	Poisoning		
- Shock	15	Abuse and neglect		
Foltin GL, et al. <i>Pediatr Emer Care.</i> 2010; 26: 773-777 <i>Prehospital Emerg Care.</i> 2014; 18 (Suppl 1). www.bcm.edu/pediatrics/emsc Texas Children's Homital				







### Pediatric Simulation Training for Emergency Prehospital Providers (PediSTEPPs)

- •BLS and ALS providers in the Houston Fire Department (HFD) – 13 each class
- •2 courses/month since Feb '12
- >800 providers trained (>10% of HFD)
- •Combination of skills stations and high-fidelity simulation scenarios





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# Summary

- •Emergency care begins well before arrival at the hospital
- •EMS agencies and local hospitals need to collaborate
- •Numerous ways exist to optimize emergency care through EMS
- •Every ambulance and ED must be ready to care for children

