Arizona Emergency Medical Services and Trauma System Strategic Plan

2013-2018



Arizona Department of Health Services



Bureau of Emergency Medical Services and Trauma System



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2013-2018

September 2013

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September 9, 2013

In 2008, Arizona's Trauma System was really in its infancy. There were 7 Level I Trauma Centers located in Phoenix, Tucson, and Flagstaff and none in rural Arizona. Arizona's injury surveillance data clearly illustrated that the biggest improvement in traumatic injury outcomes would come from preventing injuries and improving access to care, particularly in the rural parts of Arizona.

In 2013, the state of Arizona now has a functional statewide trauma system involving 32 trauma centers. Of these 32 hospitals formally designated, 8 are level I, 3 are level III, and 21 are level IV trauma centers. Seventeen trauma centers now serve rural Arizona.

Our trauma system has changed dramatically in 5 short years. This is why, in November 2012, we asked the American College of Surgeons (ACS) to review our entire trauma system. Typically we would ask the ACS to conduct a system review every 10 years, but we requested an early review due to the remarkable expansion and progress in order to provide guidance in the further development and refinement of our state trauma system.

We have great faith in the future of our trauma system. A few top-tier trauma system priorities are: 1) intensifying our efforts on preventing injury from happening in the first place (prevention is always the best cure); 2) helping our Level III and IV trauma centers implement performance improvement practices in their facilities to ensure that trauma patients get the highest high quality and timely care, whether in the rural or urban setting; 3) updating our trauma plan which contains a five year, comprehensive package of goals and measurement strategies that were developed in conjunction with the trauma experts in our state; and 4) recruiting a few key, rural hospitals to serve as regional level III trauma centers. The following document is a roadmap for how we will mitigate the impact of traumatic injuries and improve the access to, and quality of, trauma care in Arizona.

Will Humble Director Arizona Department of Health Services

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The Arizona Trauma System

Introduction

The Arizona Department of Health Services and the State Trauma Advisory Board (STAB) recognize that a strategic plan is essential in a changing health care environment. Many components make up a statewide trauma care system. Detailed planning is required for all components to interface successfully and for health professionals to cohesively interact, enabling the trauma system to work effectively. This statewide network or system of health care delivery requires a multidisciplinary team approach. Such an approach is a requirement for an inclusive, seamless system of health care delivery in which all involved health care providers function in pre-planned concert with one another.

In 2012, the American College of Surgeons (ACS) performed a comprehensive evaluation of the Arizona State Trauma System. The overall goals of the system remain committed to state and regional integration of a high quality, cost effective trauma care, and significantly reducing the morbidity and mortality due to injuries in Arizona. The ACS recommended continuous development and appraisal of a guiding vision and operational plan for the future of the Arizona trauma system.

Methodology

In response, the Bureau of Emergency Medical Services and Trauma System (BEMSTS), the STAB, and other dedicated trauma system stakeholders established a trauma plan workgroup to collectively assess and evaluate the current trauma system. This plan represents input from a broad spectrum of health care providers, researchers, epidemiologists, hospital and EMS managers and administrators, local, regional, and statewide public health leaders who came together to provide their expertise in developing the content and format of this document. The trauma plan workgroup reviewed the State of Arizona's previous trauma system plan, the ACS system evaluation, the HRSA-Model Trauma System Planning and Evaluation (MTSPE) document, and the results of the assessment made using the MTSPE to construct a dynamic strategic trauma plan. This 5-year plan will serve as the blueprint to guide the further development and assessment of an inclusive and integrated trauma system for Arizona.

The plan is arranged into eight major goals. Each goal is supported with parallel objectives and measureable strategies to achieve those goals. Accountability and responsibility are defined, as is the timeline in which each strategy will be reviewed and evaluated on a regular basis.

Our robust trauma data clearly illustrates that the greatest opportunity for saving lives and improving outcomes from traumatic injury currently lies in rural Arizona. This plan largely focuses on addressing this significant public health challenge.

Acknowledgements

The Arizona State Department of Health Services Bureau of EMS and Trauma System would like to acknowledge our partners that assisted in the development and success of this Strategic Plan.

We would like to give special recognition to Mark Venuti, CEP, and Chris Salvino, MD, who were cochairs for the State of Arizona Trauma Plan Workgroup and Jennifer Herbert, MS, who served as consultant.

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Contributing Advisory Committees and Subcommittees Representing Arizona Partners & Constituent Groups

- Arizona Emergency Medical Systems, Inc. (AEMS)
- Northern Arizona EMS (NAEMS)
- Southeast Arizona EMS (SAEMS)
- Western Arizona Council of EMS (WACEMS)
- Emergency Medical Services Council

- Education Standing Committee
- Medical Direction Commission
- Protocols, Medications & Devices Standing Committee
- State Trauma Advisory Board
- Trauma & EMS Performance Improvement Standing Committee

Goal 1: System Leadership

Objective 1.1: Diversify to provide more inclusive statewide STAB representation.

Strategy	Measure(s)	Lead	Partners	Timeline
Increase rural trauma representation.	The addition of two more rural trauma members:	ADHS	STAB	2014
	1. Trauma surgeon			
	Trauma coordinator from a designated			
	trauma center.			

Objective 1.2: Increase active participation by STAB members.

Strategy	Measure(s)	Lead	Partners	Timeline
Implement limits on the number of	Track and publish meeting attendance and	ADHS	STAB	Ongoing
reappointments for STAB members.	participation.			

Objective 1.3: Develop a Trauma Program Managers Group.

Strategy	Measure(s)	Lead	Partners	Timeline
Regularly convene and empower a Trauma	Participation of urban and rural trauma managers.	ADHS	Trauma Managers	Ongoing
Program Managers Group.		CFRH		

Goal 2: System Development/Integration

Objective2.1: Build and improve a tiered integrated trauma system.

Strategy	Measure(s)	Lead	Partners	Timeline
Increase Level III and Level IV trauma centers in	1. Number of Level III and Level IV designated	ADHS	Statewide trauma	Ongoing
rural/tribal areas.	trauma centers.	CFRH	centers & AZTrACC	
	Move towards all rural/tribal hospitals			
	becoming Level IV Trauma Centers.			
	3. Recruit key rural hospitals to serve as regional			
	level III trauma centers			

Objective 2.2: Establish guidelines for regional trauma care.

Strategy	Measure(s)	Lead	Partners	Timeline
Improve system integration including	1. Reduction in incidence of traumatic injuries	ADHS	All level trauma	Ongoing
prevention, capacity, communication and	as well as over and under trauma triage.		centers and acute	
referral capabilities.			care hospitals, EMS	
			Regions	

Objective 2.3: Improve trauma training to all level providers statewide.

Strategy	Measure(s)	Lead	Partners	Timeline
Provide rural trauma education, including pediatric, geriatric, and burn populations, to surgeons, emergency physicians, nurses and EMCTs.	 Number of training sessions. Increase in Level I trauma center involvement. 	Level I trauma centers	Regional EMS councils, Trauma Centers, EMS agencies	Ongoing
Assign additional support for RTTDC coordinator.	Number of RTTDCs	AZCOT AZTrACC	Trauma centers	Ongoing

Goal 3: Prehospital Care & Transport

Objective3.1: Maximize the effectiveness of regionalized trauma triage.

Strategy	Measure(s)	Lead	Partners	Timeline
Define regional scene and inter-facility transport	 Over and under trauma triage rates. 	ADHS, TEPI	Regional EMS	Ongoing
protocols directing patients to the most	2. Pass non-punitive EMS trauma destination		Councils,	July 2014
appropriate level hospital and trauma center by	protocols that take into account EMS Region		STAB, EMSC,	
the most appropriate mode.	variations and resources		EMSRUG, TRUG	

Objective3.2: Better inclusion of EMS data in the Arizona State Trauma Registry (ASTR).

Strategy	Measure(s)	Lead	Partners	Timeline
Require electronic data submission of all EMS	Proportion of trauma events in the ASTR with	ADHS, TEPI,	EMS Agencies,	2018
agencies including ground and air services.	complete pre-hospital data.	Regional EMS	EMSC, MDC	
Confirm data for trauma triage elements.		Councils		
Provide regionalized prehospital trauma reports.				

Objective3.3: Require EMS education on trauma for adult, pediatric, geriatric, and burn populations.

Strategy	Measure(s)	Lead	Partners	Timeline
Modify current certification requirements to include mandatory age specific continuing education.	Implementation of standards for prehospital trauma education.	ADHS, Regional EMS Councils	EMSC, Education Committee, Training Programs, Trauma Centers	2015
Develop event calendar/web references of available trauma education from all trauma centers and other sources.	Trauma center outreach education.	ADHS, Regional EMS Councils	Trauma Centers Training Programs Regions	Ongoing

Objective3.4: Develop a central communication system to facilitate field-to-facility, inter-facility, and all-hazards response communication.

Strategy	Measure(s)	Lead	Partners	Timeline
Gap analysis to identify opportunities to improve	Analysis of communication system.	ADHS	ADOA Public Safety	2015
the communication system.			Interoperability	
			Communications	
Identify funding.	Funding search.	ADHS		2015
		Emergency		
		Preparedness		

Goal 4: Special Populations Pediatric

Objective4.P.1: Development of a pediatric specific injury report.

Strategy	Measure(s)	Lead	Partners	Timeline
Create a pediatric trauma report.	Pediatric injury, incidence, process, and outcome report	EMSC, ADHS	PACES	2014
	(exclusive of drowning, poisonings, and strangulation).	utilizing the		
		trauma		
		registry report		

Objective4.P.2: Outline roles and responsibilities of definitive pediatric care facilities.

Strategy	Measure(s)	Lead	Partners	Timeline
Expansion of existing pediatric prepared	Increased level of participation.	AzAAP	AzAAP	Ongoing
emergency care (PPEC) program.			Hospitals	

Objective4.P.3: Develop pediatric trauma triage protocols.

Strateg	у	Measure(s)	Lead	Partners	Timeline
1.	Evaluate existing pediatric trauma	Evaluate over and under pediatric triage.	ADHS, EMSC,	STAB	2015
	protocols and data including those		Regional EMS	TEPI, Trauma	
	critically injured.		Councils	Registrars, Trauma	
2.	Development of recommendations for	See Objective 3.1 (2)		Centers	
	which patients require transport to the				
	closest facility.				

Objective4.P.4: Comprehensive assessment of pediatric trauma beds within the system.

Strategy	Measure(s)	Lead	Partners	Timeline
Query state license for number of all pediatric	Number of pediatric trauma beds.	ADHS, AZHHA,	PACES	2014
trauma beds.		EMSC		

Objective4.P.5: Lower the pediatric injury mortality rate by 20% in 2 years.

Strategy	Measure(s)	Lead	Partners	Timeline
1. Track epidemiology.	Pediatric mortality rate.	Pediatric	Safe Kids, EMS for	2018
2. Institute effective injury prevention		Trauma	Children, Office of	
and outreach.		Centers	Injury Prevention	
			for DHS	

Geriatrics

Objective 4.G.1: Incorporate use of American College of Surgeons Committee on Trauma geriatric guidelines for outcome data collection.

Strategy	Measur	re(s)	Lead	Partners	Timeline
Expand ASTR inclusion criteria and include the	1.	Length of stay	ADHS	Trauma centers	2014
following data element to be submitted to the	2.	Mortality and morbidity			
ASTR.	3.	ED dwell time			
	4.	Time to OR			
	5.	Ground level falls with extremity fractures			

Objective 4.G.2: Improve timely discharge of geriatric patients to appropriate rehabilitation facility.

Strategy	Measure(s)	Lead	Partners	Timeline
Partner with Rehabilitation Centers.	Timely discharge to rehabilitation facility.	ADHS	Rehabilitation	2014
			hospitals, Trauma	
			centers, AzHHA	

Burns

Objective 4.B.1: Incorporate American Burn Association burn collection data.

Strategy	Measure(s)	Lead	Partners	Timeline
Include the following burn injury data elements	1. Incidence	ADHS, TEPI,	Burn center	2015
into the ASTR.	2. Etiology	TRUG	directors	
	3. Geographic distribution			
	4. Length of stay			
	5. Mortality			

Objective4.B.2: Develop statewide burn triage and transfer plan.

Strategy	Measure(s)	Lead	Partners	Timeline
Develop burn triage and transfer criteria based	Burn over and under triage.	ADHS, Burn	Trauma centers	2015
upon American Burn Association (ABA)		center directors	and burn centers	
guidelines.				

Objective 4.B.3.: Promote effective disaster management, including surge capacity, at the state level using existing comprehensive burn disaster network.

Strategy	Measure(s)	Lead	Partners	Timeline
Incorporate current Arizona burn disaster	1. AZ Burn Disaster Network Plan developed by	ADHS,	Trauma staff and	Ongoing
network into the trauma disaster plan. Review	the AZ Burn Center	PHEP,	the planning team	
and modify AZ burn disaster network plan.	2. Number trained and retrained	Burn center		
	3. Number of supplies to burn centers	directors		

Goal 5: Injury Prevention

Objective5.1:Reduce injury related morbidity and mortality through primary injury prevention.

Strategy	Measure(s)	Lead	Partners	Timeline
Strengthen and coordinate statewide trauma	 Trauma Center site surveys 	ADHS	Trauma Center	Ongoing
center primary injury prevention programs.	2. Office of Injury Prevention report		survey teams,	
			Trauma Centers,	
			EMS agencies,	
			EMSC, Safe Kids	
			Coalitions	

Objective 5.2: Improve rural injury prevention.

Strateg	У	Measu	re(s)	Lead	Partners	Timeline
1.	Identify high leverage rural injury	1.	Specific rural trauma issues identified in the	ADHS	Trauma Centers,	Ongoing
	events.		ASTR.		IPAC, Safe Kids	
2.	Disseminate these data to the rural				Coalition, MADD	
	trauma prevention community.				DUI Courts, SBIRT,	
3.	Coordinate primary prevention	2.	Rural Highway EMS Resource Assessment		Fall Prevention	July 2014 -
	activities of the rural trauma centers.		Projects		GOHS	ongoing

Objective 5.3: Coordinate the implementation of this Trauma Plan with the 2012-2016 Arizona Injury Prevention Plan.

•	• •			
Strategy	Measure(s)	Lead	Partners	Timeline
1. Coordinate with the IPAC.	Degree of the implementation of the Arizona Injury	ADHS	IPAC, OIP, Trauma	Ongoing
2. Make the Injury Prevention 101	Prevention Plan.		Centers and EMS	
course available to trauma center			providers	
staff. (www.safestates.org)				

Objective 5.4: Facilitate linkage between trauma centers and state and local primary injury prevention programs.

Strategy	Measure(s)	Lead	Partners	Timeline
Establish collaborations focused on fall-related	1. Representation of falls coalition within trauma	ADHS	Trauma Centers,	Ongoing
injury prevention.	centers.		OIP, Office of	
	2. Incidence and mortality due to falls reported in		Chronic Disease,	
	the annual trauma report.		EMS	

Objective 5.5: Initiate and implement a statewide burn prevention program focusing on the common causes of burn injuries.

Strategy	Measure(s)	Lead	Partners	Timeline
Implement American Burn Association	Documentation of prevention programs	Burn Center	AZ Burn Found.,	Ongoing
prevention programs.	Annual review of burn etiologies	Director	Maricopa Health	
	3. Number of programs, interventions, outcomes		Foundation, ADHS	

Page 9 Goal 5: Injury Prevention

Goal 6: Medical Rehabilitation Rehabilitation

Objective6.1: Integrate trauma center, inpatient rehabilitation facilities, and long term acute care hospitals statewide.

Strategy	Measure(s)	Lead	Partners	Timeline
Develop a model for incorporating medical	, , , , , , , , , , , , , , , , , , , ,	ADHS	Rehabilitation	2015
rehabilitation facilities into the state trauma	current trauma rehabilitation status.		Centers, Trauma	
system.	Identify nationally recognized standards and	Task Force	Centers, Task Force	
	processes.			
	3. Assess feasibility of establishing standards and			
	designation in Arizona.			

Objective6.2: Ensure adequate medical rehabilitation services are available to meet the needs of trauma patients throughout the state.

Strategy	Measure(s)	Lead	Partners	Timeline
 Integrate Rehabilitation data elements into the ASTR. 	1. Analysis of rehabilitation care through the ASTR.	ADHS	STAB, TRUG	2014
Conduct a survey of current medical rehabilitation resources, including availability of specialty beds within	2. Assessment results.	ADHS	OMFL at ADHS; providers; AzHHA	2015
the state. 3. Ensure transfers to medical rehabilitation facilities is determined based upon patient criteria and services provided by the facility.	 Develop document identifying criteria for appropriate admission to rehabilitation facility. 	STAB	Providers, AzHHA	2014

Objective6.3: Efficient transfer of patients between trauma centers and medical rehabilitation facilities.

Strategy	Measure(s)	Lead	Partners	Timeline
Remove financial barriers to efficient patient	 Data on transfers to rehabilitation services. 	ADHS	AHCCCS, Health	2015
transfers.	Development of reimbursement policies.	STAB	Plans/Carriers,	
	Develop advocacy strategy.		AzHHA	

Acute-Stress Recovery (ASR)

Objective6.ASR.1: Perform SWOT analysis.

Strateg	у	Measure(s)	Lead	Partners	Timeline
1.	Develop an ASR tool to assess	Creation of the post-trauma ASR tool.	ADHS	State Trauma/EMS	2015
	resources available for victims and		Division of	regions. Behavioral	
	families post trauma.		Behavioral	health partners,	
2.	Identify and disseminate best		Health Services	Social Work, Case	
	practices.			Management	
3.	Collaborate with regional behavioral			community agencies	
	health authorities				

Objective 6.ASR.2: Develop resources to assist EMS Agencies and Trauma Centers with ASR.

Strategy	Measure(s)	Lead	Partners	Timeline
Develop and disseminate the trauma plan to	Education to regional ASR stakeholders.	ADHS	Community	2016
community partners involved with ASR.			partners identified	
			in the SWOT	
			analysis and STAB.	

Page 11 Goal 6: Rehabilitation

Goal7: Trauma System Evaluation

Objective 7.1: Significantly reduce the injury mortality rate in the state of Arizona.

Strategy	Measure(s)	Lead	Partners	Timeline
Iterative measurement, evaluation, and publication of the incidence and outcomes of traumatic injuries in Arizona.	Assessing factors related to rural/urban, blunt/penetrating, age, transportation method and time, and level of hospital care through the ASTR.	ADHS	STAB, AZTrACC, EMS Regional Councils,	Ongoing
Seek partnerships to increase access to trauma care in rural Arizona	Assess the ASTR and HDD to assess delays in transfers, transfers after admission, deaths in non-trauma centers and improve trauma billing efficiency	CFRH	Level I Trauma Program Managers	3 to 4 times per year

Objective 7.2: Perform a biennial review benchmarking the objectives and progress towards the goals in the State Trauma Plan.

Strategy	Measure(s)	Lead	Partners	Timeline
Perform mid-course assessments of the	Annual STAB workgroup report	ADHS	STAB	Annually,
trauma plan assessment on a yearly basis				beginning
				in 2014

Objective 7.3: Evaluate urban and rural regional mode of transportation and transport times.

Strategy	Measure(s)	Lead	Partners	Timeline
Identify audit filters for appropriate	Review transportation times in regional	TEPI	EMS	2014
utilization for mode of transport and	aggregate.			
transport times for trauma patients.	2. Evaluation of transport time: Time call received			
	to dispatch, dwell times at sending hospital,			
	arrival at tertiary care facility.			

Objective 7.4: Establish a monitoring and evaluation system for the Trauma Plan.

Strategy	Measure(s)	Lead	Partners	Timeline
Develop a system for measuring	1. Timely access to trauma care	ADHS	All trauma	Ongoing
implementation and impact of the Trauma	2. Preventable deaths		stakeholders	
Plan.	3. Overall mortality			
	4. Preventable morbidity			
	5. Time to transfer			
	6. Transfer after admission			
	7. ED dwell times pre-transfer			
	8. Length of stay in hospital			
	9. Trauma billing efficiency			

Objective 7.5: Require annual review of local EMS QI activities.

Strategy	Measure(s)	Lead	Partners	Timeline
 Require all EMS agencies to submit an annual QI plan with quarterly reporting to BEMSTS. Develop rules and guidelines for submission. 	% of participation.	ADHS	Regions, EMS Agencies, EMSC, MDC	2018
Define trauma specific indicators necessary for EMS to report.	Obtain data from Premier EMS Agency registry.	ADHS	Regions, EMS Agencies, EMSC, MDC	2018

Goal 8: Statutory Authority/Administrative Rules/Funding

Objective 8.1: Increase statutory authority to regulate the Arizona trauma system.

Strategy	Measure(s)	Lead	Partners	Timeline
Amend current trauma system statutes and rules.	 Design trauma center needs criteria for new and existing trauma centers, as well as performance benchmarks and standards of 	ADHS	Trauma centers, System stakeholders	Ongoing
2. Identify evidence based guidelines	care.			
to increase trauma funding.	 Change trauma center funding legislation and evaluate alternative trauma funding strategies to include all trauma centers. Appoint a State Trauma Medical Director with trauma surgical expertise based upon feasibility. 			
	 Establish State pediatric trauma center verification and designation levels. 			
	Establish State burn center verification and designation levels.			

List of Acronyms

ACCS Arizona Health Care Cost Containment System ADHS Arizona Department of Health Services ADOA Arizona Department of Administration AEMS Arizona Emergency Medical Systems Council ASTR Arizona State Trauma Registry ATLS Advanced Trauma Life Support AZAAP Arizona Chapter of the American Academy of Pediatrics AZCOT Arizona Committee on Trauma AZHHAA Arizona Hospital and Healthcare Association AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTrACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSI National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council TRUG Trauma Patis Development Course SAEMS Southern Arizona EMS Council OSDOT U.S. Department of Transportation WACEMS Western Arizona Council of EMS	ABA	American Burn Association
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ADOA Arizona Department of Administration AEMS Arizona Emergency Medical Systems Council ASTR Arizona State Trauma Registry ATLS Advanced Trauma Life Support AZAAP Arizona Chapter of the American Academy of Pediatrics AZCOT Arizona Committee on Trauma AZHHA Arizona Hospital and Healthcare Association AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTRACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury STAB State Trauma Advisory Board TBI Trauma Registry Users Group USDOT U.S. Department of Transportation	AHCCCS	Arizona Health Care Cost Containment System
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ATLS Advanced Trauma Life Support AZAAP Arizona Chapter of the American Academy of Pediatrics AZCOT Arizona Committee on Trauma AZHHA Arizona Hospital and Healthcare Association AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTRACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury STAB State Trauma Advisory Board TBI Traumatic Brain Injury TEPI Trauma na EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	AEMS	Arizona Emergency Medical Systems Council
AzAAP Arizona Chapter of the American Academy of Pediatrics AZCOT Arizona Committee on Trauma AzHHA Arizona Hospital and Healthcare Association AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTrACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	ASTR	Arizona State Trauma Registry
AZCOT Arizona Committee on Trauma AZHHA Arizona Hospital and Healthcare Association AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTRACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Performance Improvement Standing Committee TRUG Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	ATLS	Advanced Trauma Life Support
AZ-PIERS Arizona Prehospital Information and EMS Registry System AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTRACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Performance Improvement Standing Committee TRUG Spinal Cord Injury TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	AzAAP	Arizona Chapter of the American Academy of Pediatrics
AZ-PIERS Arizona Prehospital Information and EMS Registry System AZTRACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury STAB State Trauma Advisory Board TEPI Trauma Registry Users Group USDOT U.S. Department of Transportation	AZCOT	Arizona Committee on Trauma
AZTrACC Arizona Trauma & Acute Care Consortium BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury STAB State Trauma Advisory Board TBI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	AzHHA	Arizona Hospital and Healthcare Association
BIS Benchmarks, Indicators, & Scoring CDC Centers of Disease Control CFRH Center for Rural Health DQA Data and Quality Assurance Section EMCT Emergency Medical Care Technician EMSC Emergency Medical Services for Children GOHS Governor's Office of Highway Safety HDD ED and Hospital Discharge Database IPAC Injury Prevention Advisory Council LLIS Lessons Learned Information Sharing MDC Medical Direction Commission MOU Memorandum of Understanding MTOS/SRR Major Trauma Outcome Study/Survival Rick Ratio MTSPE Model Trauma System Planning & Evaluation NAEMS Northern Arizona EMS Council NEMSIS National EMS Information System NHTSA National Highway Traffic Safety Administration NTDB National Trauma Data Base OIP Office of Injury Prevention PACES Pediatric Advisory Council on Emergency Services PHEP Public Health Emergency Preparedness PI Performance Improvement PMD Protocols, Medications and Devices Standing Committee PPEC Prescribed Pediatric Extended Care RTTDC Rural Trauma Team Development Course SAEMS Southern Arizona EMS Council SCI Spinal Cord Injury STAB State Trauma Advisory Board TBI Traumatic Brain Injury TEPI Trauma Registry Users Group USDOT U.S. Department of Transportation	AZ-PIERS	Arizona Prehospital Information and EMS Registry System
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SCI Spinal Cord Injury STAB State Trauma Advisory Board TBI Traumatic Brain Injury TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	RTTDC	Rural Trauma Team Development Course
STAB State Trauma Advisory Board TBI Traumatic Brain Injury TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	SAEMS	Southern Arizona EMS Council
TBI Traumatic Brain Injury TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	SCI	Spinal Cord Injury
TEPI Trauma and EMS Performance Improvement Standing Committee TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	STAB	State Trauma Advisory Board
TRUG Trauma Registry Users Group USDOT U.S. Department of Transportation	TBI	Traumatic Brain Injury
USDOT U.S. Department of Transportation	TEPI	Trauma and EMS Performance Improvement Standing Committee
	TRUG	Trauma Registry Users Group
WACEMS Western Arizona Council of EMS	USDOT	U.S. Department of Transportation
	WACEMS	Western Arizona Council of EMS