

Supplementary Table 2. Evidence-Based Guidelines Mapped to the Core Content of EMS Medicine

AMERICAN BOARD OF EMERGENCY MEDICINE CORE CONTENT IN EMS MEDICINE	PUBLISHED EVIDENCE-BASED GUIDELINES
<u>1.0 CLINICAL ASPECTS OF EMS MEDICINE</u>	
1.1 Time / Life-Critical Conditions	
1.1.1 Cardiac Arrest	Atkins 2015 Brooks 2015 Brugger 2013 Callaway 2015 Ching 2017 de Caen 2015 Elsensohn 2006 Gordon 2015 Hock Ong 2013 Kleinman 2015 Lavonas 2015 Millin 2013 Wyckoff 2015 Zafren 2014
1.1.2 Airway Compromise / Respiratory Failure	Adelson 2003 Ahn 2011 Badjatia 2008 Berlac 2008 Hossfeld 2016 Kanani 2017 Mayglothling 2012 Moss 2013 O'Driscoll 2017 Rehn 2016
1.1.3 Hypotension and Shock	de Caen 2015 Kanani 2017 Neugebauer 2012 Singletary 2015
1.1.4 Altered Mental Status	Sanello 2018
1.2 Injury	
1.2.1 Trauma	Ahn 2011 Battaloglu 2017 British Trauma Society 2003 Bulger 2014 Cotton 2009 Chalkias 2009 Connor 2013 Ellerton 2009 Gausche-Hill 2014 Harmsen 2017 Kanani 2017

	Kornhall 2017 Kreinst 2016 Leech 2016 Millin 2013 Neugebauer 2012 Quinn 2013 Singletary 2015 Sasser 2012 Stanton 2017 Strosberg 2016 Stuke 2011 Theodore, Arabi 2013 Theodore, Hadley 2013 Thomas 2014 Velopulos 2018
1.2.2 Orthopedics	Battaloglu 2017 Ellerton 2009 Singletary 2015
1.2.3 Traumatic Brain Injuries	Adelson 2003 Badjatia 2008 Hebb 2007
1.2.4 Assault – Domestic / Sexual / Elder Abuse / Child Abuse	
1.2.5 Environmental	Belval 2018 Brugger 2013 Gordon 2015 MacDonald 2006 Zafren 2014
1.3 Medical Emergencies	
1.3.1 Respiratory	O'Driscoll 2017 Singletary 2015
1.3.2 Cardiovascular	Adams 2003 Atkins 2015 Bowles 2017 Ching 2017 Kubica 2017 O'Connor 2015 Pre-Hospital Fibrinolysis 2004 Savino 2015 Singletary 2015
1.3.3 Neurological	Boulanger 2018 Furyk 2017 Kobayashi 2018 Powers 2018 Pride 2017 Sanello 2018 Shah 2014 Silverman 2017

	<p>Singletary 2015</p> <p>Stroke Foundation 2017</p>
1.3.4 Diabetic Emergencies	Singletary 2015
1.3.5 Renal	
1.3.6 Obstetric and Gynecologic Emergencies	<p>Battaloglu 2017</p> <p>Lavonas 2015</p>
1.3.7 Poisoning / Toxicologic Emergencies	<p>Singletary 2015</p> <p>Manoguerra 2005</p>
1.3.8 Dermatology	
1.3.9 Communicable Diseases	
1.3.10 Behavioral Emergencies	
1.4 Special Clinical Considerations	
1.4.1 Airway Management in Adverse Conditions	<p>Brugger 2013</p> <p>Zafren 2014</p>
1.4.2 Procedures	<p>Ahn 2011</p> <p>Battaloglu 2017</p> <p>Berlac 2008</p> <p>British Trauma Society 2003</p> <p>Brugger 2013</p> <p>Chalkias 2009</p> <p>Ching 2017</p> <p>Connor 2013</p> <p>Cotton 2009</p> <p>de Caen 2015</p> <p>Ellerton 2009</p> <p>Hossfeld 2016</p> <p>Kanani 2017</p> <p>Kobayashi 2018</p> <p>Kornhall 2017</p> <p>Kreinst 2016</p> <p>Leech 2016</p> <p>Link 2015</p> <p>Mayglothling 2012</p> <p>Moss 2013</p> <p>Neugebauer 2012</p> <p>O'Connor 2015</p> <p>Quinn 2013</p> <p>Rehn 2016</p> <p>Savino 2015</p> <p>Stanton 2017</p> <p>Stuke 2011</p> <p>Theodore, Arabi 2013</p> <p>Theodore, Hadley 2013</p> <p>Velopulos 2018</p> <p>Zafren 2014</p>
1.4.3 Pain Assessment and Management in the Field	<p>Gausche-Hill 2004</p> <p>Kanani 2017</p>

1.4.4 Flight Physiology	MacDonald 2006
1.4.5 Pediatrics	Adelson 2003 Atkins 2015 de Caen 2015 Furyk 2017 Hebb 2007 Miller 2004 Shah 2014 Wyckoff 2015
1.4.6 Geriatrics	
1.4.7 Bariatric Issues	
1.4.8 End-of-Life Issues	
1.4.9 Social Issues	
1.5 Special Considerations for Evaluation, Treatment, Transport, and Destinations	
1.5.1 Time-Life Critical Conditions	Lavonas 2015
1.5.2 Special Patient Populations	
2.0 MEDICAL OVERSIGHT OF EMS	
2.1 Medical Oversight	
2.1.1 Medical Oversight of EMS Systems	
2.1.2 Legal Issues	
2.2 EMS Systems	
2.2.1 Public Safety Answering Points	
2.2.2 Design of System Components	
2.2.3 Delivery Systems with Special Considerations	Thomas 2014
2.3 EMS Personnel	
2.3.1 Scope of Practice Models	
2.3.2 Education	Bhanji 2015 Miller 2004 Powers 2018
2.3.3 EMS Provider Health and Wellness	Patterson 2018
2.4 System Management	
2.4.1 System Finance	
2.4.2 Legislation and Government	
2.4.3 Public Health	
2.4.4 System Status Management	
3.0 QUALITY MANGEMENT AND RESEARCH	
3.1 Quality Improvement Principles and Programs	
3.1.1 Data Collection, Management, and Analysis	
3.1.2 Quality Improvement Programs	Kronick 2015
3.1.3 Evidence-based Practice	
3.2 Research	
3.2.1 Data Collection, Management, and Analysis	
3.2.2 Fundamental Knowledge of Biostatistics and Epidemiology	
3.2.3 EMS Research Design	
4.0 SPECIAL OPERATIONS	

4.1 Mass Casualty Management	
4.1.1 Incident Command System (ICS)	
4.1.2 Triage	
4.1.3 Patient Care in Mass Casualty Events / Scene Management	
4.2 Chemical / Biological / Radiological / Nuclear / Explosive (CBRNE)	
4.2.1 Toxic Exposure / Poisoning / Hazardous Materials (HAZMAT)	
4.2.2 Explosive Incidents	
4.2.3 Weapons of Mass Destruction and Related Injury	
4.3 Mass Gathering	
4.3.1 Planning and Operations	
4.3.2 Personnel Needs	
4.3.3 Training and Drills	
4.3.4 Design of Temporary Treatment Facilities	
4.3.5 Equipment	
4.3.6 Communications	
4.4 Disaster Management	
4.4.1 National Incident Management System (NIMS) & National Response Framework	
4.4.2 Catastrophic Events	
4.4.3 Health and Medical Resources	
4.4.4 Special Response Considerations	
4.5 EMS Operations	
4.5.1 Tactical	
4.5.2 Technical Rescue	
4.5.3 Wilderness EMS Systems	Brugger 2013 Ellerton 2009 Elsensohn 2006 Quinn 2013 Zafren 2014
4.5.4 Mobile Integrated Healthcare / Community Paramedicine	