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Authors

Moore, Brian
Shah, Manish I
Owusu-Ansah, Sylvia
et al.

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Pediatric Readiness in Emergency Medical Services Systems

Brian Moore, MD, FAAP,^a Manish I. Shah, MD, MS, FAAP,^b Sylvia Owusu-Ansah, MD, MPH, FAAP,^c Toni Gross, MD, MPH, FAAP,^d Kathleen Brown, MD, FAAP,^{e,f} Marianne Gausche-Hill, MD, FACEP, FAAP, FAEMS,^g Katherine Remick, MD, FACEP, FAAP, FAEMS,^{h,jj} Kathleen Adelgais, MD, MPH, FAAP,^k John Lyng, MD, FAEMS, FACEP, NRP,^l Lara Rappaport, MD, MPH, FAAP,^m Sally Snow, RN, BSN, CPEN, FAEN,ⁿ Cynthia Wright-Johnson, MSN, RNC,^o Julie C. Leonard, MD, MPH, FAAP,^p and the AMERICAN ACADEMY OF PEDIATRICS COMMITTEE ON PEDIATRIC EMERGENCY MEDICINE AND SECTION ON EMERGENCY MEDICINE EMS SUBCOMMITTEE, AMERICAN COLLEGE OF EMERGENCY PHYSICIANS EMERGENCY MEDICAL SERVICES COMMITTEE, EMERGENCY NURSES ASSOCIATION PEDIATRIC COMMITTEE, NATIONAL ASSOCIATION OF EMERGENCY MEDICAL SERVICES PHYSICIANS STANDARDS AND CLINICAL PRACTICE COMMITTEE, NATIONAL ASSOCIATION OF EMERGENCY MEDICAL TECHNICIANS EMERGENCY PEDIATRIC CARE COMMITTEE

This is a joint policy statement from the American Academy of Pediatrics, American College of Emergency Physicians, Emergency Nurses Association, National Association of Emergency Medical Services Physicians, and National Association of Emergency Medical Technicians on pediatric readiness in emergency medical services systems.

Prehospital emergency care typically involves emergency medical technicians, paramedics, and other licensed medical providers who work in emergency medical services (EMS) systems in ground ambulances and fixed- or rotor-wing aircraft that are dispatched to an emergency when either a bystander calls 9-1-1 or when a patient requires interfacility transport for a medical illness or traumatic injury. Because prehospital emergency care of children plays a critical role in the continuum of health care, which also involves primary prevention, hospital-based acute care, rehabilitation, and return to the medical home, the unique needs of children must be addressed by EMS systems.¹⁻⁵ Pediatric readiness encompasses the presence of equipment and medications, usage of guidelines and policies, availability of education and training, incorporation of performance-improvement practices, and integration of EMS physician medical oversight to equip EMS systems to deliver optimal care to children.⁶⁻⁸ It has been shown that emergency departments are more prepared to care for children when a pediatric emergency care coordinator is responsible for championing and making recommendations for policies, training, and resources pertinent to the emergency care of children.^{9,10} The specialty of EMS medicine has the potential to derive similar benefits when members of the EMS community are personally

abstract

^aDepartment of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, New Mexico; ^bSection of Emergency Medicine, Department of Pediatrics, Baylor College of Medicine and Texas Children's Hospital, Houston, Texas; ^cDivision of Emergency Medical Services, Department of Pediatrics and Emergency Department, University of Pittsburgh Medical Center Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania; ^dDepartment of Emergency Medicine, Children's Hospital New Orleans and Louisiana State University Health New Orleans, New Orleans, Louisiana; ^eDepartments of Pediatrics and Emergency Medicine, School of Medicine and Health Sciences, The George Washington University, Washington, District of Columbia; ^fDivision of Emergency Medicine, Children's National Medical Center, Washington, District of Columbia; ^gDepartments of Emergency Medicine and Pediatrics, David Geffen School of Medicine, University of California, Los Angeles and Harbor-University of California, Los Angeles Medical Center, Los Angeles, California; ^hSan Marcos Hays County Emergency Medical Services, San Marcos, Texas; ⁱAustin-Travis County Emergency Medical Services System, Austin, Texas;

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invested in pediatric patient care. Although a critical aspect of pediatric readiness in EMS involves strong EMS physician oversight of these investments, a discussion of physician oversight of pediatric care in EMS is outside the scope of this article. This topic is, however, well addressed in the National Association of Emergency Medical Services Physicians position statement “Physician Oversight of Pediatric Care in Emergency Medical Services.”¹ This policy statement is accompanied by a technical report published simultaneously in this issue of *Pediatrics*.¹¹

RECOMMENDATIONS

To provide infrastructure designed to support the prehospital emergency care of children, the American Academy of Pediatrics, American College of Emergency Physicians, Emergency Nurses Association, National Association of Emergency Medical Services Physicians, and National Association of Emergency Medical Technicians believe that EMS systems and agencies should do the following:

- Include pediatric considerations in EMS planning and the development of pediatric EMS dispatch protocols, operations, and physician oversight (for example, as outlined in the National Association of Emergency Medical Services Physicians position statement “Physician Oversight of Pediatric Care in Emergency Medical Services”).¹
- Collaborate with medical professionals with significant experience or expertise in pediatric emergency care, public health experts, and family advocates for the development and improvement of EMS operations, treatment guidelines, and performance-improvement initiatives.²
- Integrate evidence-based, pediatric-specific elements into the

direct and indirect medical oversight that constitute the global EMS oversight structure.⁴

- Have pediatric-specific equipment and supplies available, using national consensus recommendations as a guide, and verify that EMS providers are competent in using them.^{3,4,12–15}
- Develop processes for delivering comprehensive, ongoing, pediatric-specific education and evaluating pediatric-specific psychomotor and cognitive competencies of EMS providers.^{13,14,16–18}
- Promote education and awareness among EMS providers about the unique physical characteristics, physiologic responses, and psychosocial needs of children with an illness or injury.^{19–21}
- Implement practices to reduce pediatric medication errors.^{22,23}
- Include pediatric-specific measures in periodic performance-improvement practices that address morbidity and mortality.⁴
- Submit data to a statewide database that is compliant with the most recent version of the National Emergency Medical Services Information System and work with hospitals to which it transports patients to track pediatric patient-centered outcomes across the continuum of care.⁴
- Develop, maintain, and locally enforce policies for the safe transport of children in emergency vehicles.⁴
- Develop protocols for the destination of pediatric patients, with consideration of regional resources and weighing of the risks and benefits of keeping children in their own communities.⁴
- Collaborate, along with receiving emergency departments, to provide pediatric readiness across the care continuum.^{4–10}
- Include provisions for caring for children and families in emergency

preparedness planning and exercises, including the care and tracking of unaccompanied children and timely family reunification in the event of disasters.^{3,4,24}

- Promote overall patient- and family-centered care, which includes using lay terms to communicate with patients and families, having methods for accessing language services to communicate with non-English-speaking patients and family members, narrating actions, and alerting patients and caregivers before interventions are performed. In addition, allow family members to remain close to their children during resuscitation activities and to practice cultural or religious customs as long as they are not interfering with patient care.¹⁹
- Have policies and procedures in place to allow a family member or guardian to accompany a pediatric patient during transport when appropriate and feasible.¹⁹
- Consider using resources compiled by the Emergency Medical Services for Children program when implementing the recommendations noted here.²⁵

CONCLUSIONS

Ill and injured children and their families have unique needs that can be magnified when the child’s ailment is serious or life-threatening. Resource availability and pediatric readiness across EMS agencies are variable. Providing high-quality EMS care to children requires an infrastructure that is designed to support the care of pediatric patients and their families. Therefore, it is important that EMS physicians, administrators, and personnel collaborate with pediatric acute care experts to optimize EMS care through the development of care models to minimize morbidity and mortality in children as a result of illness and injuries.

LEAD AUTHORS

Brian Moore, MD, FAAP
Manish I. Shah, MD, MS, FAAP
Sylvia Owusu-Ansah, MD, MPH, FAAP
Toni Gross, MD, MPH, FAAP
Kathleen Brown, MD, FAAP
Marianne Gausche-Hill, MD, FACEP, FAAP, FAEMS
Katherine Remick, MD, FACEP, FAAP, FAEMS
Kathleen Adelgais, MD, MPH, FAAP
John Lyng, MD, FAEMS, FACEP, NRP
(Paramedic)
Lara Rappaport, MD, MPH, FAAP
Sally Snow, RN, BSN, CPEN, FAEN
Cynthia Wright-Johnson, MSN, RNC
Julie C. Leonard, MD, MPH, FAAP

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Natalie Lane, MD, FAAP
Lois Lee, MD, MPH, FAAP
Suzan Mazor, MD, FAAP
Prashant Mahajan, MD, MPH, MBA, FAAP
Nathan Timm, MD, FAAP

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Andrew Eisenberg, MD – *American Academy of Family Physicians*
Cynthia Wright-Johnson, MSN, RNC – *National Association of State EMS Officials*
Cynthiana Lightfoot, BFA, NRP – *American Academy of Pediatrics Family Partnerships Network*
Charles Macias, MD, MPH, FAAP – *Emergency Medical Services for Children Innovation and Improvement Center*
Brian Moore, MD, FAAP – *National Association of EMS Physicians*
Diane Pilkey, RN, MPH – *Maternal and Child Health Bureau*
Katherine Remick, MD, FACEP, FAAP, FAEMS – *National Association of Emergency Medical Technicians*
Mohsen Saidinejad, MD, MBA, FAAP, FACEP – *American College of Emergency Physicians*
Sally Snow, RN, BSN, CPEN, FAEN – *Emergency Nurses Association*
Mary Fallat, MD, FAAP – *American College of Surgeons*

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(Paramedic)

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Kyle Bates, MS, NREMT-P, CCEMT-P
Frank Flake, EMT-P
Gustavo Flores, MD, EMT-P

ABBREVIATION

EMS: emergency medical services

^jDepartment of Pediatrics, Dell Medical School, The University of Texas at Austin, Austin, Texas; ^kDepartment of Pediatrics, School of Medicine, University of Colorado, Aurora, Colorado; ^lLevel I Adult Trauma Center and Level II Pediatric Trauma Center, North Memorial Health Hospital, Minneapolis, Minnesota; ^mDepartment of Pediatric Emergency Medicine and Urgent Care Center, Denver Health Medical Center, Denver, Colorado; ⁿPediatric Emergency and Trauma Nursing, Fort Worth, Texas; ^oEmergency Medical Services for Children, Maryland Institute for Emergency Medical Services Systems, Baltimore, Maryland; and ^pDivision of Emergency Medicine, Department of Pediatrics, Nationwide Children's Hospital and College of Medicine, The Ohio State University, Columbus, Ohio

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Address correspondence to Brian Moore, MD, FAAP. Email: brmoore@salud.unm.edu

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