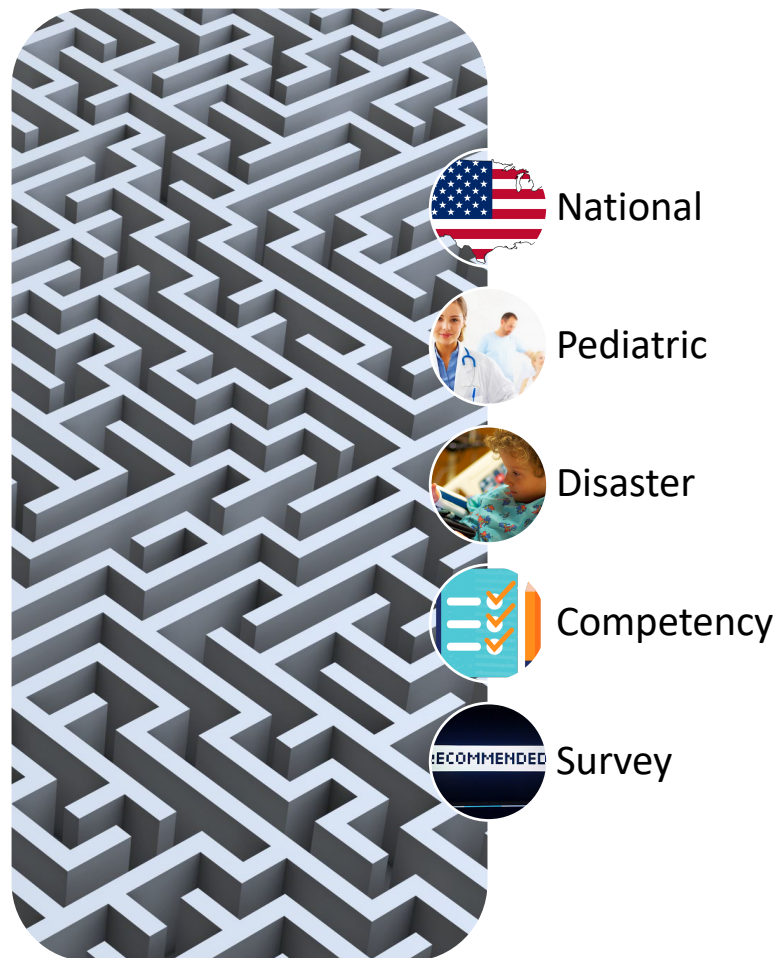


**The State of Pediatric Disaster Education:  
A Comprehensive Review & Analysis Report  
SECTION 10. NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**



This section is part of a comprehensive review and analysis of current issues and trends in pediatric disaster education. The report explores current gaps and opportunities in pediatric disaster education. A Pediatric Disaster Education Concept of Operations is recommended to assure whole community inclusion of children in all phases of the disaster.

**Eastern Great Lakes Pediatric Consortium for Disaster Response: Education Workgroup**

June 2021

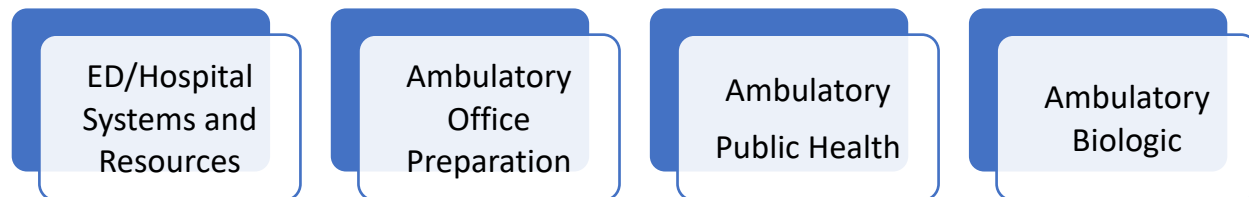




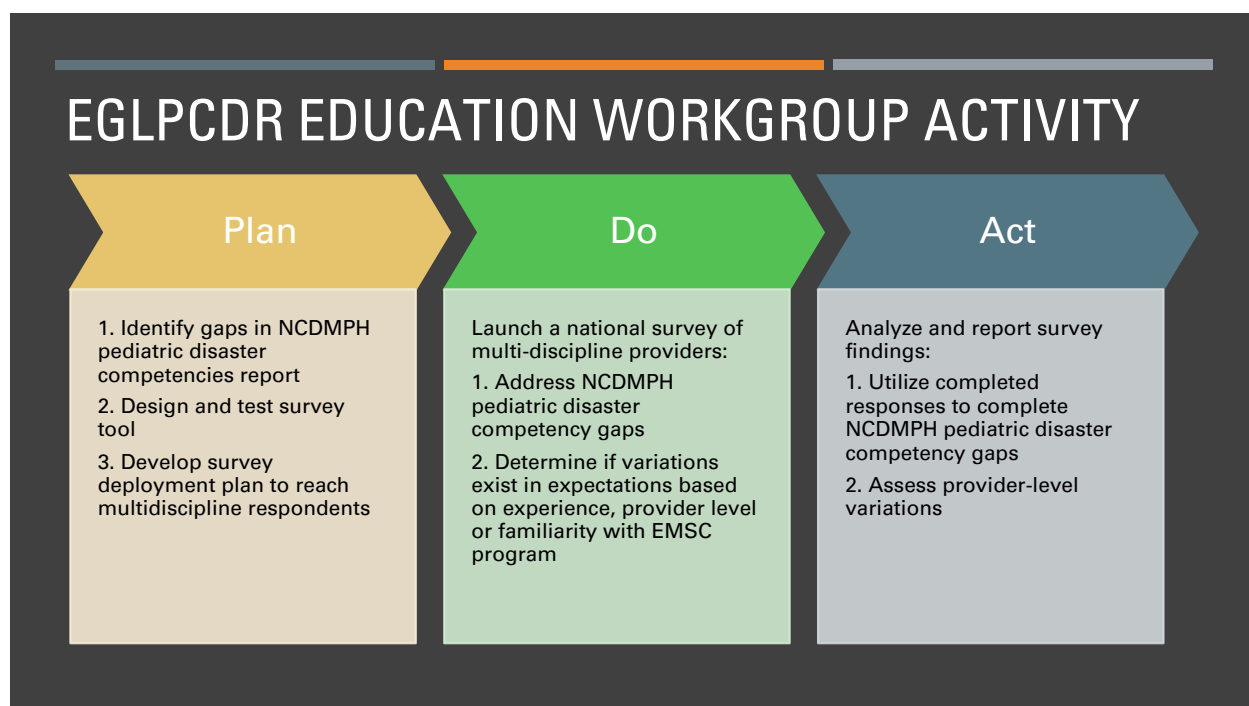


## The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report

### NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY



The conference resulted in a report focused on defining the unmet educational and training needs of medical responders in disaster.<sup>2</sup> The EGLPCDR and WRAP-EM Education workgroups reviewed the conference findings and developed a Qualtrics survey to complete the four unaddressed areas.



The survey was designed to mimic the NCDMPH conference methodology with the following exceptions:

- The survey's target population focused on a national audience of multi-discipline providers, regardless of their pediatric and/or disaster experience.
- The survey was disseminated widely in order to capture as many disciplines as possible.
- The goal was to solicit responses based on providers' "real world" experience and peer expectations, and to determine if there were any significant differences based on respondents' discipline or experience.



# The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report

## NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY

Participants were asked to anonymously describe their overall professional experience, pediatric and disaster experience, years of experience, discipline, and places of employment. In addition, respondents were surveyed about their experience with the EMS for Children (EMSC) Program. Respondent demographic characteristics and experience with EMSC were collected at the beginning of the survey. The survey analysis looked for variations between disciplines but found little variation between provider group recommendations for pediatric disaster competency.

### Methodology

The survey design was tested and revised several times prior to release. The participants were asked to respond to the four NCDMPH areas that had not been addressed in 2011. Respondents were asked to assign levels of competency based on setting, provider role, and disaster operation areas (as illustrated below). For example, in the area of ED/Hospital Systems & Resources, respondents were asked to assign competency levels (foundational to expert) to four different provider types in emergency care, surge, and disaster support tasks covering eight core disaster operational areas.



### National Survey Deployment Outreach and Timeline

Significant outreach was conducted inviting survey participation via the AAP's Disaster Council; Pediatric Disaster Centers of Excellence SMEs; industry leaders in EMS and disaster, including pharmacy associations, the National Pediatric Disaster Coalition, and NASEMO. The survey was also featured and promoted through social media. Members of EMS-1 (a prehospital industry news and educational publication) promoted the survey to the publication's 246,000 members.



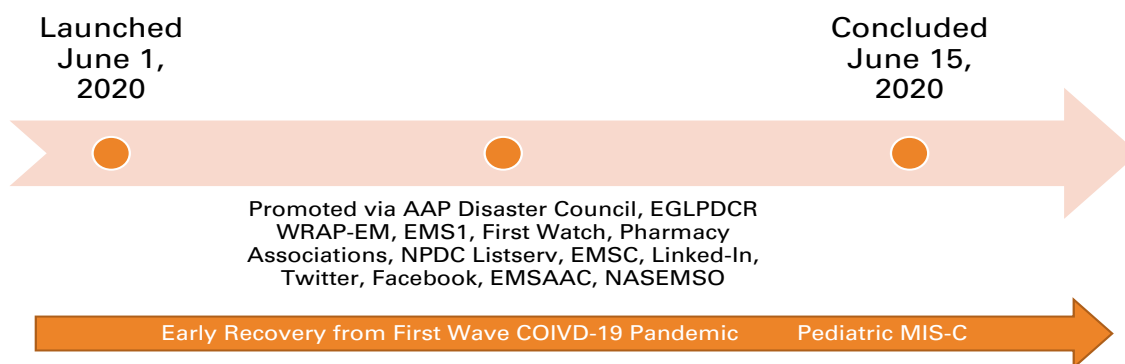
# The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report

## NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY

In addition, it is estimated that the survey was distributed to more than 4,000 individuals through various listservs and distribution lists.

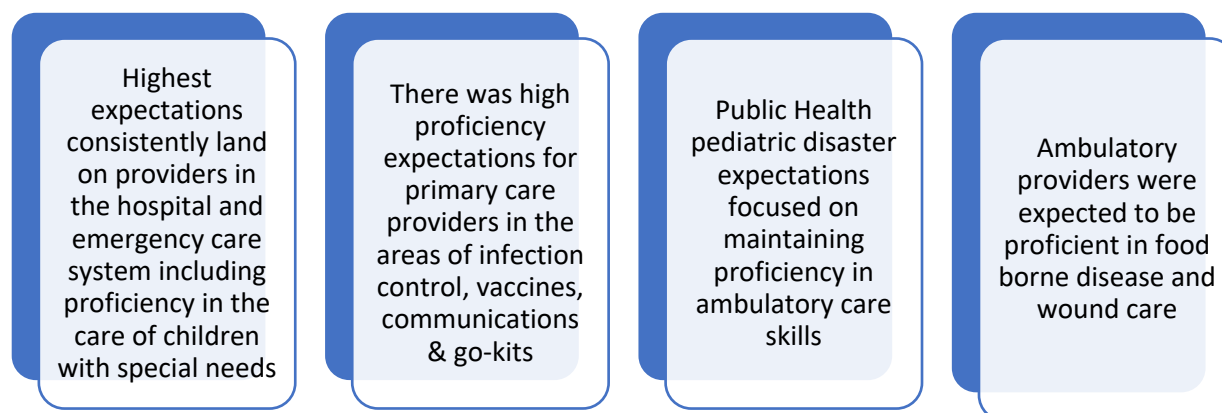
The survey was launched over a 15-day period. This period was concurrent with the early recovery from the first wave of COVID-19 and the emergence of Pediatric MIS-C. It is unknown how the fact that the survey was conducted during the COVID-19 pandemic and the emergence of Pediatric MIS-C influenced participation and/or responses.

### QUALTRICS SURVEY RESPONSE TIMELINE 439 RESPONDENTS 51% (N=226) SURVEY COMPLETION RATE



### National Survey Findings

Of the 226 respondents who completed the survey, there was little variation in pediatric disaster competency level recommendations associated with professional experience, discipline, or pediatric experience. Proficiency level expectations were consistently assigned to hospital and emergency providers, as follows:





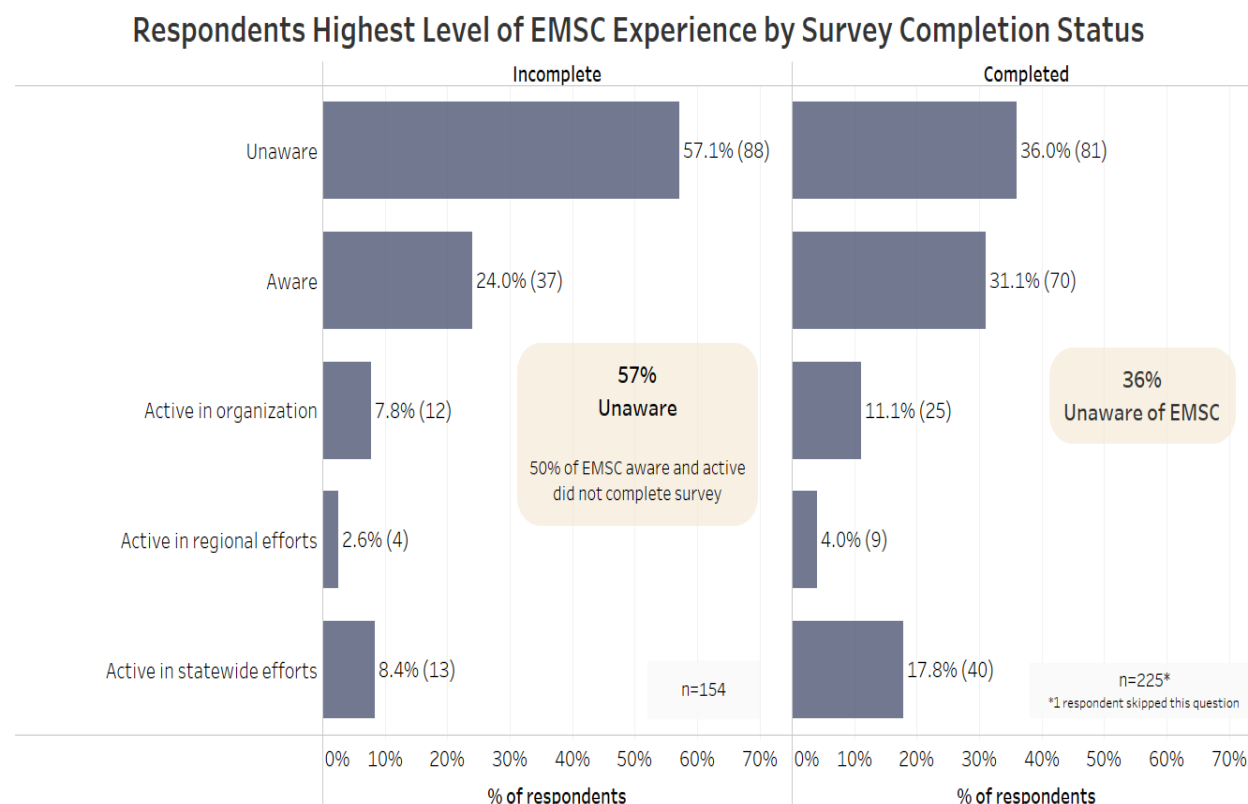
# The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report

## NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY

The finding that cross-discipline providers expect “proficiency” in the care of pediatrics during disaster suggests a significant disconnect between provider expectations and real-world pediatric capability to achieve proficiency at the expected scale.

### EMS for Children Program Experience

One of the most significant findings of the national survey was a general lack of awareness about the EMS for Children Program. This finding was significant, regardless of whether the respondent completed the entire survey or not.



### Summary & Recommendations

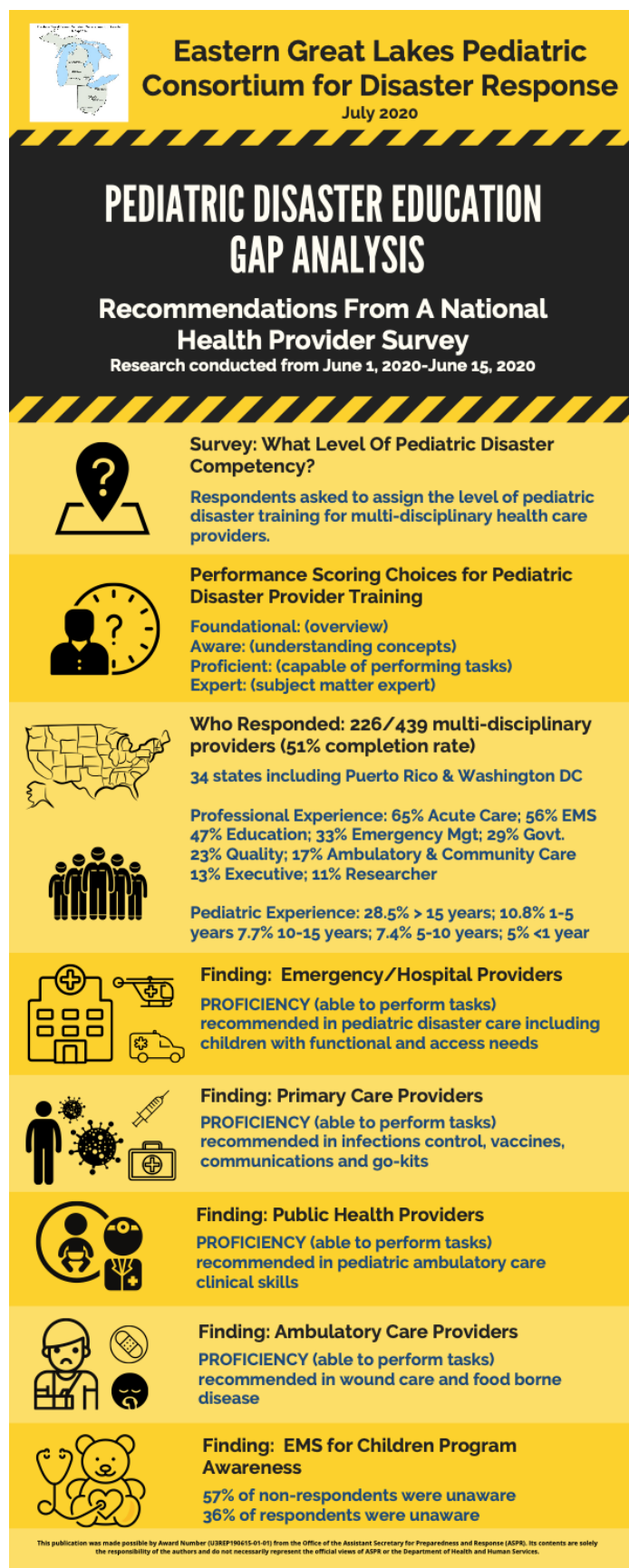
This national survey results were surprising in that it appeared to reveal that providers expect a lot from each other, especially when it comes to children. The results illustrate that significant assumptions are at play and gaps exist across disciplines. It also reveals the importance of opportunities to engage providers, communities, policy makers and disaster leaders in EMSC Innovation and Improvement and National Pediatric Readiness Programs.

The EGLPCDR infographic summarizes the findings of the national pediatric disaster competency survey and is posted on the [EIIC website](#). Gaps in pediatric disaster expectations across disciplines must be addressed to support the collaborative and coordinated operations required of a disaster that disproportionately impacts children.



# The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report

## NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY





# **The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report**

## **NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**

*This **publication** was made possible by Award Number (U3REP190615-01-01) from the Office of the Assistant Secretary for Preparedness and Response (ASPR). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of ASPR or the Department of Health and Human Services.*

*Illustrations and Graphics that are not referenced are provided via courtesy of Microsoft Word Stock Images  
& Opensource Online Photos*



**The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report**  
**NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**

**Appendix A. Education Workgroup Members & Sites**

Deanna Dahl Grove, MD (EGLPCDR Grant Co-PI)  
Professor of Pediatrics, Pediatric Emergency Medicine  
University Hospital Rainbow Babies & Children's Hospital

Patricia Frost RN, PHN, MS, PNP (Lead)  
National Pediatric Disaster Coalition

Amie Janeth Barda PhD  
Data Scientist, Department of Pediatrics  
University Hospital Rainbow Babies & Children's Hospital

Stuart Bradin, DO, FAAP, FACEP  
Associate Professor of Pediatrics  
Assistant Medical Director of Pediatric Patients - Survival Flight  
CS Mott Children's Hospital

Julie Bulson DNP, MPA, RN, NE-BC  
Director, Business Assurance  
Spectrum Health/Helen DeVos Children's Hospital

Kimberly Burkhart, PhD  
Assistant Professor  
University Hospitals Rainbow Babies and Children's Hospital

Cullen Clark, MD  
Attending Physician, Emergency Medicine  
Nationwide Children's Hospital  
Assistant Professor of Clinical Pediatrics  
Ohio State University College of Medicine

Nellie Coghlin MSN, APRN, PPCNP-BC  
Nurse Practitioner, Pediatric Specialties  
University Hospitals Rainbow Babies and Children's Hospital

Michael Dingeldein, MD  
Pediatric Trauma Director, Department of Pediatric Surgery  
University Hospitals Rainbow Babies and Children's Hospital  
Assistant Professor  
Case Western Reserve University School of Medicine



# **The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report**

## **NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**

Larry Flint MD, FAAP  
AAP Education Council

Richard Grossberg MD  
Center for Comprehensive Care, Pediatric Neurodevelopmental Disabilities  
University Hospitals Rainbow Babies and Children's Hospital

Brent Kaziny, MD  
Director, Disaster Preparedness Domain  
National EMS for Children Innovation and Improvement Center  
Medical Director of Emergency Management  
Texas Children's Hospital  
Assistant Professor  
Baylor College of Medicine

Michelle Moegling RN, BSN, CPN,  
Coordinator, Rainbow Community Pediatric Emergency Services  
University Hospitals Rainbow Babies and Children's Hospital

Sandra Nasca  
EICC Functional and Access Needs Representative  
National EMS for Children Innovation and Improvement Center

April Parish, BS  
Project Manager, RI Emergency Medicine  
Nationwide Children's Hospital

Meredith Rodriquez PhD, CCRC  
Senior Project Manager  
National EMS for Children Innovation and Improvement Center

Ron Ruffing, MD, MPH, MSP  
Chief, Division of Pediatric Emergency Medicine  
Children's Hospital of Michigan

Daniel Scherzer, MD  
Division of Emergency Medicine, Simulation Program  
Associate Medical Director, Trauma Executive Board Member  
Nationwide Children's Hospital  
Professor of Clinical Pediatrics  
The Ohio State University College of Medicine



**The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report**  
**NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**

Rachel Stanley MD, MHSA  
Division Chief, Emergency Medicine  
Nationwide Children's Hospital

Jennifer Talley  
Special Needs Project Manager  
National EMS for Children Innovation and Improvement Center

Nathan Timm, MD, FAAP  
Medical Director, Office of Emergency Preparedness and Response, Division of Emergency  
Medicine  
Cincinnati Children's Hospital Medical Center  
Professor, Department of Pediatrics  
University of Cincinnati College of Medicine

Regina Yaskey, MD, FAAP  
Attending Physician, Division of Pediatric Emergency Medicine, Department of Pediatrics  
University Hospitals Rainbow Babies and Children's Hospital  
Assistant Professor  
Case Western Reserve University School of Medicine



# **The State of Pediatric Disaster Education: A Comprehensive Review & Analysis Report**

## **NATIONAL PEDIATRIC DISASTER COMPETENCY SURVEY**

### **References**

---

<sup>1</sup> NCDMPH (June 13, 2011) Pediatric Disaster Preparedness Curriculum Development Conference Report  
Uniformed Services University of the Health Sciences

<sup>2</sup> NCDMPH (June 13, 2011) Pediatric Disaster Preparedness Curriculum Development Conference Report  
Uniformed Services University of the Health Sciences