Closing the Gap Pediatric Disaster Planning

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Identify critical elements of Pediatric preparedness and response relative to emergency disaster planning.

Learn to incorporate vulnerable population considerations in policies and protocols.







slido



Do you have a PECC?

i) Start presenting to display the poll results on this slide.

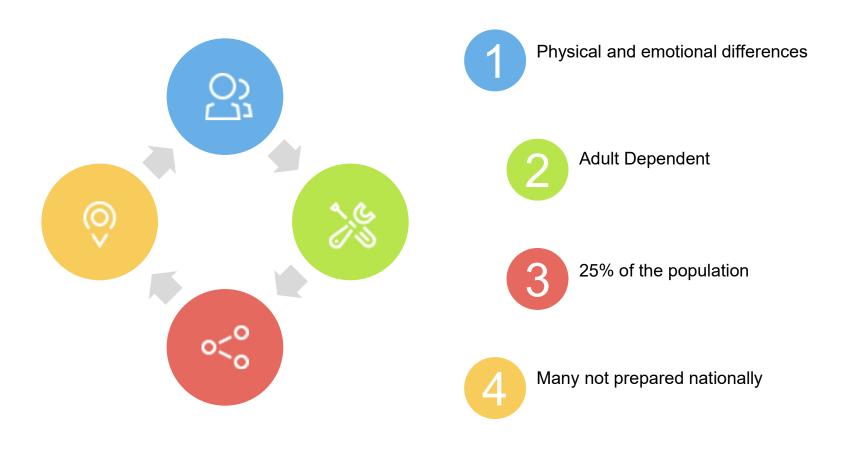
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What are your identified gaps in pediatric disaster preparedness?



Why peds specifially?



Children As (Partial Listing)

1974 Maalot School occupation a
1995 Murrah Building, Oklahoma
1998 Elementary school, Jonesbo
1999 Columbine High School, Col
2000- Intifada, Israel
2003 Jerusalem Children's Bus (§
2004 Baghdad US troops giving o
2004 Beslan, Russia (186 dead, so
2006 Platte Canyon High School,
2011 Norway (69/77 dead, sum

1838 Blaukaans River, South Afri

- 28 dead (20 children), 2 i
 2014 Syria: Chemical Weapons
 2015 Nigeria, Pakistan Schools (
 2015 IRAQ/Syria: Killings, Slaver
- 2015 Paris Theatre (89)
- 2016 Truck Attack France
- 2017 Concert attack England
- Mass Shooting Nevada
- 2023 Middle East Conflict

And the list goes on...and

2012 France Ozar Hatorah Tould 2012 - Sandy Hook Elementary Sch

Parkland

14 children, 3 adults

Boston Marathon

11 children, 54 adults

Newtown

20 children, 6 adults

Asiana Crash

26 children, 27 adults

Haiti Earthquake

~53% of patients were children

>Half a million children impacted



National GAP

SILOS

Numerous silos among community partners in planning, training, exercise, and response

Lack of Resources

For community physicians to build confidence in their care.



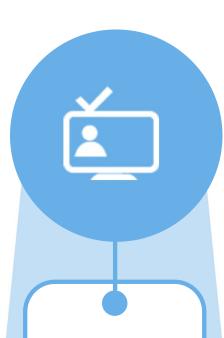
Training

Deficits in training and capabilities for transporting pediatric patients among emergency and non-emergency ambulance providers

Lack of PECC

Lack of designated pediatric champion in the emergency departments and among EMS providers

Other Gaps



Children and
Youth with special
needs





Children are

different.



Gaps in Pediatric Disaster Preparedness (source materials)

2015 National Pediatric Disaster Conference Arizona

Chest Consensus: Care of the Critically III and Injured During Pandemics and Disasters: CHEST Consensus Statement

http://journal.publications.chestnet.org/ on 03/23/2015 e90S:Evidence-Based Medicine [146#4 CHEST OCTOBER 2014 SUPPLEMENT

AJPH: American Journal of Public Health:

Child's Health Is the Public's Health: Progress and Gaps in Addressing Pediatric Needs in Public Health Emergencies

National Pediatric Disaster Conference: Arizona 2022

New York City Pediatric Disaster Coalition: Pediatric Disaster Surge Plan Gap Analysis 2023 Florida



2021 Median State

State MEDIAN Hospital

Score out of 100

(n=170)



Florida 2021 National Pediatric Readiness State Summary

2021 Pediatric Readiness Response Rate

Numerator: 170 Denominator: 295 Response Rate: 58%

> 2021 Average State Score

75
State AVERAGE Hospital

ate AVERAGE Hospital Score out of 100 (n=170)

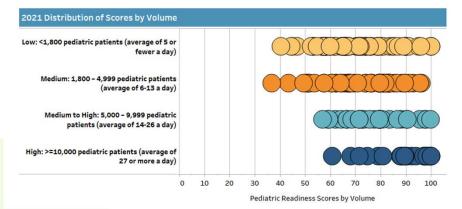
Do

Numerator: 127 Denominator: 209 Response Rate: 61%

The overall 2021 National Pediatric Readiness scores (based on the 2018 Joint Policy Guidelines) are not directly comparable with the 2013-14 state scores (based on the 2009 Joint Policy Guidelines). These were two unique assessments based on two different published sets of guidelines. Questions were added/removed and point values changed based on the new guidelines. Although the overall scores are not comparable, several individual questions remained the same and these components can be compared over time.

2013-14 Pediatric Readiness Response Rate

Filter chart below by urbanicity:







2021 National Pediatric Readiness Gap Report

2021 National Pediatric Readiness Response Rate

NOTE: There are 89 records in this dataset that did not have answers to all the scored questions and are not included in the

Numerator: 3,647 Denominator: 5,150 Response Rate: 70.8%

2021 Average National Score

71

National AVERAGE Hospital Score out of 100 (n=3,557)

scores shown above.

2021 Median National Score

National MEDIAN

Hospital Score out of 100 (n=3,557)

2013-14 National Pediatric Readiness Response Rate

Numerator: 4,150 Denominator: 5,017 Response Rate: 82.7%

The overall 2021 National Pediatric Readiness scores (based on the 2018 Joint Policy Guidelines) are not directly comparable with the 2013-14 national scores (based on the 2009 Joint Policy Guidelines). These were two unique assessments based on two different published sets of guidelines. Questions were added/removed and point values changed based on the new guidelines. Although the overall scores are not comparable, several individual questions remained the same and these components can be compared over time.

Low: <1,800 pediatric patients (average of 5 or fewer a day) Medium: 1,800 - 4,999 pediatric patients (average of 6-13 a day) Medium to High: 5,000 - 9,999 pediatric patients (average of 14-26 a day) High: >=10,000 pediatric patients (average of 27 or more a day) O 10 20 30 40 50 60 70 80 90 100 Pediatric Readiness Scores by Peds Volume

Breakdown of Scores by Volume Type:	Urbanicity: All				
Annual Pediatric Volume	# of Hospitals	Avg. Score	Median Score	Min. Score	Max. Score
Low: <1,800 pediatric patients (average of 5 or fewer a day)	63	70	68	40	100
Medium: 1,800 – 4,999 pediatric patients (average of 6-13 a day)	56	73	76	37	96
Medium to High: 5,000 – 9,999 pediatric patients (average of 14-26 a day)	28	78	79	57	100
High: >=10,000 pediatric patients (average of 27 or more a day)	23	89	91	61	100
Grand Total	170	75	76	37	100

Breakdown of Scores by Trauma Designation													
	# of Hospitals	Avg. Score						Annu All	al Pediatr	ic Volume:	Trauma I	Designatio	n:
Designated	33	79						0	00				
No Trauma Designation	137	74					00	X	MI				
			0	10	20	30	40) 5	50 6	50 70	80	90	100

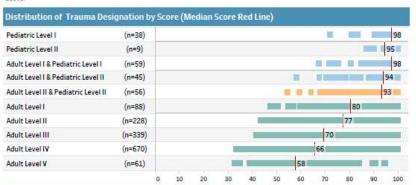
Average Scores By Section						
Section	Missing Records	Avg Section Score	Possible Score			
Guidelines for Administration and Coordination of the ED for the Care of Children (19 pts)	0	7.8	19			
Physicians, Nurses, and Other Health Care Providers Who Staff the ED (10 pts)	0	6.2	10			
Guidelines QI/PI in the ED (7 pts)	0	3.0	7			
Guidelines for Improving Pediatric Patient Safety in the ED (14 pts)	0	13.5	14			
Guidelines for Policies, Procedures, and Protocols for the ED (17 pts)	0	12.1	17			
Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 pts)	0	32.3	33			

NOTE: If there are missing values from any of the assessments (specifically from PDF assessments), they are shown in the "Missing Records" column. This indicates records that were missing scored questions and could not be included in the calculation of the average section score.

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Annual Pediatric Volume	# of Hospitals	Avg. Score	Median Score	Min. Score	Max. Score
Low: <1,800 pediatric patients (average of 5 or fewer a day)	1,806	66	64	25	100
Medium: 1,800 – 4,999 pediatric patients (average of 6-13 a day)	1,103	73	72	20	100
Medium to High: 5,000 – 9,999 pediatric patients (average of 14-26 a day)	367	77	77	46	100
High: >=10,000 pediatric patients (average of 27 or more a day)	281	90	94	47	100
Grand Total	3,557	71	70	20	100

NOTE: There are 89 records in this dataset that did not have answers to all the scored questions and are not included in the scores shown above.



National Average Scores By Section			
Section	Missing Responses	Avg Section Score	Possible Score
Guidelines for Administration and Coordination of the ED for the Care of Children (19 pts)	3	7.0	19
Physicians, Nurses, and Other Health Care Providers Who Staff the ED (10 pts)	31	5.6	10
Guidelines QI/PI in the ED (7 pts)	11	2.8	7
Guidelines for Improving Pediatric Patient Safety in the ED (14 pts)	7	12.7	14
Guidelines for Policies, Procedures, and Protocols for the ED (17 pts)	36	11.2	17
Guidelines for Equipment, Supplies, and Medications for the Care of Pediatric Patients in the ED (33 pts)	41	31.8	33

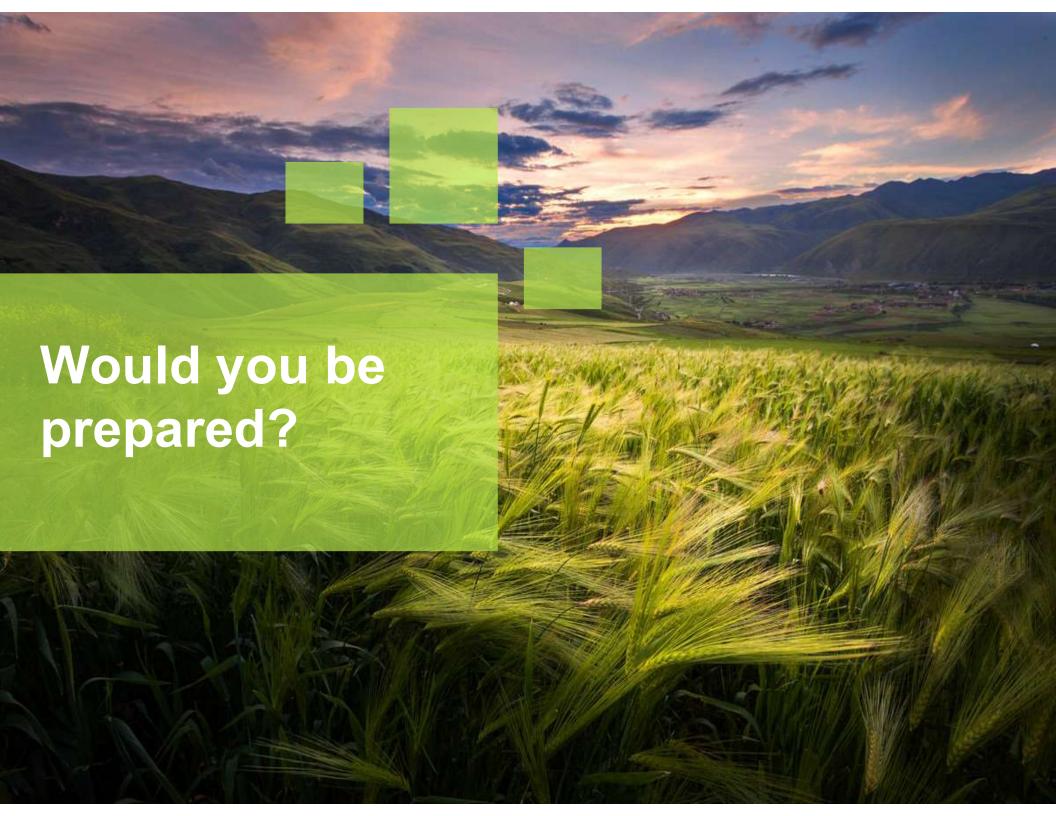
NOTE: If there are missing values from any of the assessments (specifically from PDF assessments), they are shown in the "Missing Responses" column. This indicates records that were missing scored questions and could not be included in the calculation of the average section score.

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	КРІ	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessment
Involving families and caregivers in medication safety processes		118/170 (Missing = 0)	69.4%		
Family and guardian presence during all aspects of emergency care, including resuscitation		123/170 (Missing = 0)	72.4%		
Education of the patient, family, and caregivers on treatment plan and disposition		124/170 (Missing = 0)	72.9%		
Bereavement counseling	•	98/170 (Missing = 0)	57.6%		
Disaster plan includes availability of medications, vaccines, equipment, supplies, and appropriately trained providers	•	73/170 (Missing = 0)	42.9%		
Disaster plan includes decontamination, isolation, and quarantine of families and children	•	75/170 (Missing = 0)	44.1%		
Disaster plan includes minimization of parent-child separation and methods for reuniting separated children with their families	•	75/170 (Missing = 0)	44.1%		
All disaster drills include pediatric patients	*	70/170 (Missing = 0)	41.2%		
Disaster plan includes pediatric surge capacity for both injured and non-injured children	*	70/170 (Missing = 0)	41.2%		
Disaster plan includes access to behavioral health resources for children	•	65/170 (Missing = 0)	38.2%		
Disaster plan includes care of children with special health care needs	•	69/170 (Missing = 0)	40.6%		
Written inter-facility transfer guidelines		136/170 (Missing = 0)	80.0%	86.5%	-6.5% ▼

	KPI	2021 Number of EDs that Have Item	2021 Percent that Have Item	2013-14 Percent that Had Item	Difference Between Assessment
Involving families and caregivers in medication safety processes	•	2,060/3,636 (Missing = 10)	56.7%		
Family and guardian presence during all aspects of emergency care, including resuscitation	•	2,131/3,636 (Missing = 10)	58.6%		
Education of the patient, family, and caregivers on treatment plan and disposition	Δ	2,228/3,636 (Missing = 10)	61.3%		
Bereavement counseling	•	1,672/3,635 (Missing = 11)	46.0%		
Disaster plan includes availability of medications, vaccines, equipment, supplies, and appropriately trained providers	•	1,556/3,635 (Missing = 11)	42.8%		
Disaster plan includes decontamination, isolation, and quarantine of families and children	•	1,616/3,635 (Missing = 11)	44.5%		
Disaster plan includes minimization of parent-child separation and methods for reuniting separated children with their families	•	1,580/3,636 (Missing = 10)	43.5%		
All disaster drills include pediatric patients	•	1,359/3,636 (Missing = 10)	37.4%		
Disaster plan includes pediatric surge capacity for both injured and non-injured children	•	1,457/3,636 (Missing = 10)	40.1%		
Disaster plan includes access to behavioral health resources for children	•	1,400/3,637 (Missing = 9)	38.5%		
Disaster plan includes care of children with special health care needs	•	1,368/3,636 (Missing = 10)	37.6%		
Written inter-facility transfer guidelines	Λ	2,603/3,639 (Missing = 7)	71.5%	70.5%	1.0% 🛦

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Pediatric Disaster

Who practices these plans with drills?

Who has pediatric disaster plans?

Surge?
Reunification?
Decontamination?
Special Needs?

Pediatric Surge of 2022



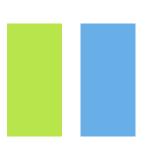
Tripledemic

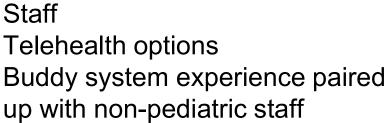
RSV, Flu, Covid

Consolidation of Pediatric Services over the years

Children's Hospitals were at Capacity

Community Hospitals with less capability, limited equipment, limited peds nurses, no inpatient services, and increased anxiety





Space Lack of space at community hospitals

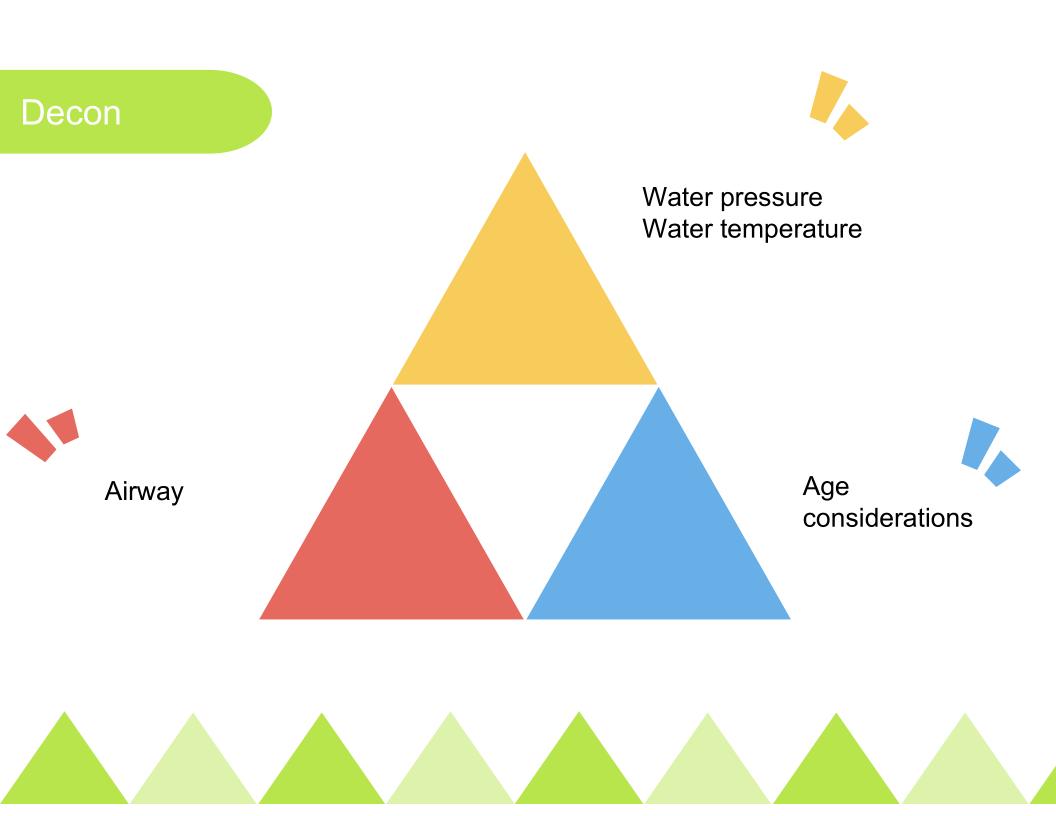
System
Develop a Pediatric Medical
Coordinating Call
Identify gaps in the region
Training

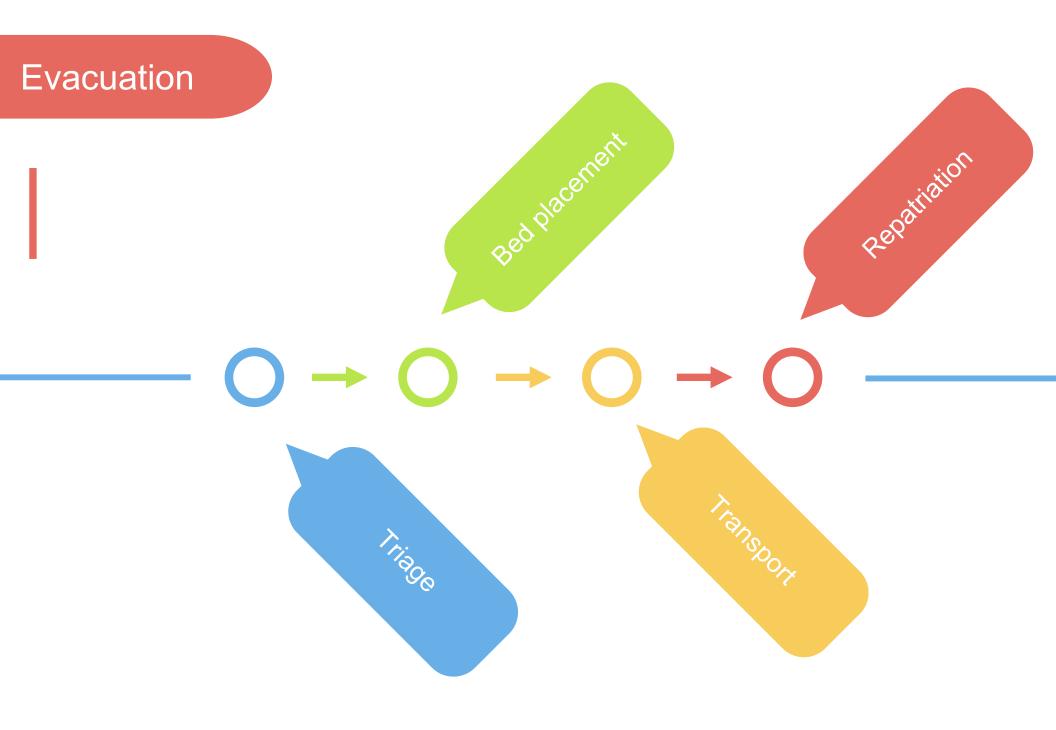
Surge



Short term surge	
Do you have a plan for uninjured, unaccompanied children?	What team members do you need to add?
Pediatric safe room?	Have you drilled?
How long do you keep them?	







Reunification



What resources do you have?
What form of ID is acceptable?
School system?

Mental Health



What resources do you have?

What resources do you need?

What if a bus full of autistic children?

What about special needs kids?

What extra resources do you need?

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What have you learned that is a new gap identified? Or what will you take away from here to work on?

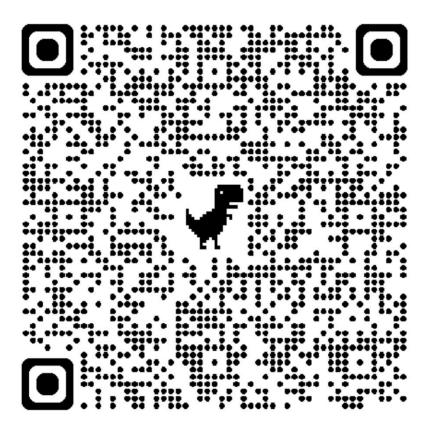
Resources

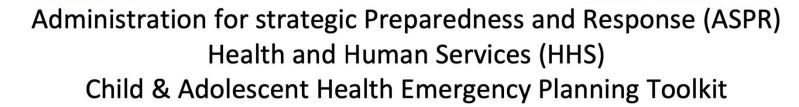
Organizations





American
Academy of
Pediatrics
Disaster and
Children

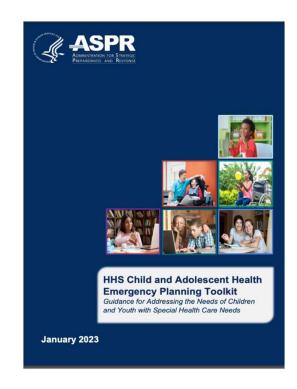




Comprehensive Guidance & Resource

Compendium of Resources for all phases

6-page list of trusted national, federal and state organizations





https://aspr.hhs.gov/atrisk/Documents/HHS-Child-Adolescent-Health-Emergency-Planning-Toolkit-7Feb2023.pdf

New Disaster Response Collaborative

- Recording and slides from the Disaster Response Collaborative launch webinar held on March 18, 2024 now available
- Each team leader for a children's hospital may register a team of 2 or more participants. Only one registration per hospital is needed.
- Learn more and register <u>today</u>



One Page Overview



NATIONAL PERFORMANCE MEASURES







1

PEDIATRIC READINESS

DISASTER PREPAREDNESS

FAMILY PARTNERSHIPS





Mission

Partnering with EDs, EMS agencies, disaster preparedness organizations, and families in the care of ill and injured children to enhance pediatric readiness across the continuum of care

- PEDReady@jax.ufl.edu
- 904-244-4986
- flemsc.emergency.med.jax.ufl.edu/
- @floridaemsforchildren
- @flemsforchildren

Program Manager:

Katelyn Perl, MS, CHES®

Program and Medical Director: Phylis Hendry, MD, FAAP, FACEP

Funded by Florida EMSC State Partnership Program (HRSA)

Updated 11/07/2023

Resources Flyer (updated)





Partnering with Florida emergency departments, emergency medical service agencies, disaster preparedness organizations, and families in the care of ill and injured children to enhance pediatric readiness across the continuum of care















Funded by Florida EMSC State Partnership Program (HRSA)

Prehospital PECC Flyer

- Intended to provide an overview of the role and responsibilities of a prehospital PECC
- If you are interested in becoming a prehospital PECC or know someone who may be, email pedready@jax.ufl.edu







- PEDReady@jax.ufl.edu
- 904-244-4986
- flemsc.emergency.med.jax.ufl.edu/
- @floridaemsforchildren
- @flemsforchildren

RESPONSIBILITES

- Ensures that the pediatric perspective is included in the development of EMS protocols
- Ensures that EMS providers from their agency follow pediatric clinical practice quidelines
- Promotes pediatric training opportunities
- Ensures the availability and correct use of pediatric medications, equipment, and supplies per agency protocols
- Promotes agency participation in pediatric prevention programs
- Works to incorporate pediatrics into disaster plans and training
- Collaborates with local hospital PECC(s)
- Promotes family-centered care
- Works to include the needs of children with special healthcare needs in agency protocols, procedures, or guidelines

Help us make all EMS agencies in Florida PEDReady!

ED PECC Flyer

- Intended to provide an overview of the role and responsibilities of an ED PECC
- If you are interested in becoming an ED PECC or know someone who may be, email pedready@jax.ufl.edu

















RESPONSIBILITES

- Ensures that the pediatric perspective is included in ED policies and protocols
- Promotes pediatric training opportunities
- Ensures availability and correct use of pediatric medications and equipment
- Promotes hospital and ED participation in pediatric-related prevention programs
- Ensures disaster plans address the needs of children
- Collaborates with local emergency medical services PECC(s)
- · Promotes family-centered care
- Addresses the care of children with special healthcare needs
- Please note: hospital EDs are encouraged to have a physician and nurse PECC

Help us make all EDs in Florida PEDReady!

Additional Resources: National Pediatric Disaster Coalition





Support the development of a unified medical and health emergency management community to prepare, respond, and recover from emergencies and disasters.

VALUES

- 1. Multi-discipline inclusiveness
- 2. Mutual respect
- 3. Leadership that prioritizes the growth and well-being of others
- 4. Non-competitive collaboration
- 5. Integrity
- 6. Advocacy







Disaster and Families of Children with Disabilities: What Every Health Care Provider Needs to Know

To Access and Link to
4-minute Video, Infographic
& Teaching Checklist Scan QR Code









Are the Families of Children with Disabilities and Medical Needs In Your Community Disaster Ready?

Now They Can Be!

Connect to the "Be Ready" Toolkit
An ADA, Multi-lingual Just-in-Time Videos,
and Infographics





For Toolkit Scan QR Code or Visit https://bit.ly/2XYrxJJ



Health & EM **Provider Training**



https://emscimprovement.center/domains/pre paredness/asprcoe/eglpcdr/cyshcn/toolkit/need _to_know/



Children with Disabilities and Disaster: What Every Health Care Provider Needs to Know





the US has a special health care need.

Children with disabilities rely on their parents and caretakers including school personnel to assure their safety in a disaster. Families of disabled children need "facilitated" pre-event disaster risk reduction planning.

Families vary in their understanding of what they need to prepare for in a disaster as does their ability to cope with disaster preparedness information.

Disaster preparedness including equipment troubleshooting should be a regular part of discharge planning of every medically complex child. It should be reviewed at the first follow-up visit after discharge and periodically as the child's medical needs change.

Parents of children with disabilities report that they can be easily overwhelmed with information

Disaster readiness information is best shared using a variety of methods including 1:1 instruction, online forums, videos, brochures, and applications. Educational material should be provided in the language the family understands and be American Disabilities Act (ADA) compliant.

Families may not know what will happen if their child is at school during a disaster.

Parents and school leaders should be advised to discuss emergency and disaster procedures as part of the child's Individual Education Plan (IEP). Parents should know how to communicate with the school and reunify with their child during a disaster.



Medically complex children who depend on technology to survive are prone to equipment failures during a disaster.

Families with children who have disabilities are more likely to seek

Children with disabilities rely on on their parents and caretakers including school personnel to assure their safety in disaster.

Disaster information is best shared inwith one-on-one training, and via online forums hosted by schools and service organizations. Brochures, videos, and web-based resources for use by medical personnel should be available. Assure that there are plans for schools to send emergency messages to parents and families via phone, text and/or social media.

Families of children with disabilities in disaster-prone areas are known to be less resilient and struggle to recover from disasters.

These families have higher rates of adverse consequences when disaster strikes including life threats, food insecurity, poverty, disrupted access to health care, medication, medical supplies, and homelessness.



When disaster preparedness is included as part of routine anticipatory guidance, families are more likely to engage in home preparedness activities.

Current anticipatory guidance does not address disaster readiness as part of essential child safety. It is the responsibility of the provider to include

Families of children with disabilities report that they need help connecting to local resources for sheltering in place and evacuation.

Disaster risk reduction relies on the primary and specialty care health providers being willing to communicate to the family the importance of being informed, making a plan, and building a kit.









Pediatric Training & Exercise Kits

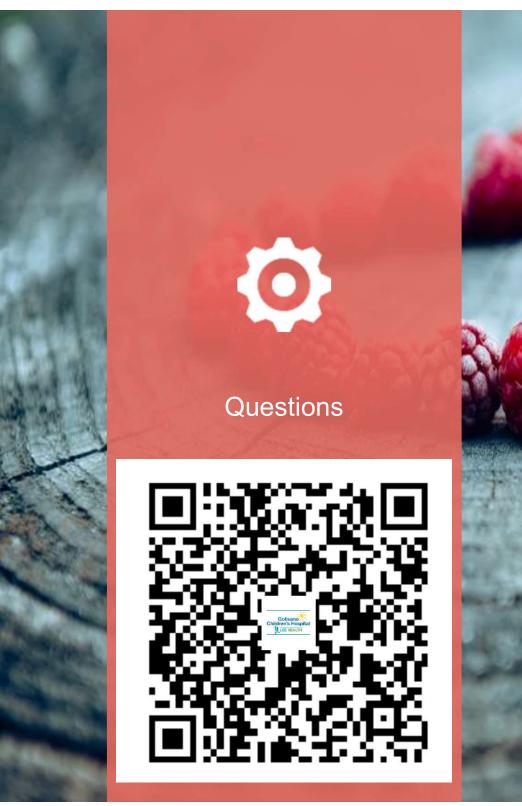




Disaster Drills & Triaging Tiny Traumas



One day you will of how you've overcome what you're going through now, and it will become Part of someone else's survival quide. or





THANKS