

DISASTER RESPONSE COLLABORATIVE

INFORMATIONAL WEBINAR

"Disaster Response for Children's Hospitals: Strategies for Effective Planning and Response Monday, March 18, 2024: 1:00 to 2:00 pm CST

Acknowledgements & Disclaimer

The Pediatric Pandemic Network is supported in part by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of cooperative agreements U1IMC43532 and U1IMC45814 with 0 percent financed with nongovernmental sources.

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Reminders



We are sorry that the chat box was disabled.



Add questions to Q&A box



Questions will be answered during the presentation or Q&A session at the end



The webinar is being recorded. You will be notified when the recording and slides are available online





Kevin M McCulley
Chief Operating Officer
Pediatric Pandemic Network



The Time is NOW!



PPN Hub Sites and Key Partners













ID, Evaluation, Mental Health

Ann & Robert H. Lurie Children's Hospital of Chicago

Children's Mercy

Emergency Management



Prehospital, CYSHCN/CMC



Mariana

Puerto

EIIC/EMSC, QI, Readiness, Eval Legal, Exercises, MOCC

NORTON Children's

Children's

of Alabama

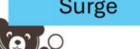


Analytics, QI, Equity, EM YaleNewHavenHealth

Yale New Haven Children's Hospital

Communication Education

Reunification, Surge



Children's National

EM, Telehealth, Mental Health, Research



Research Innovation







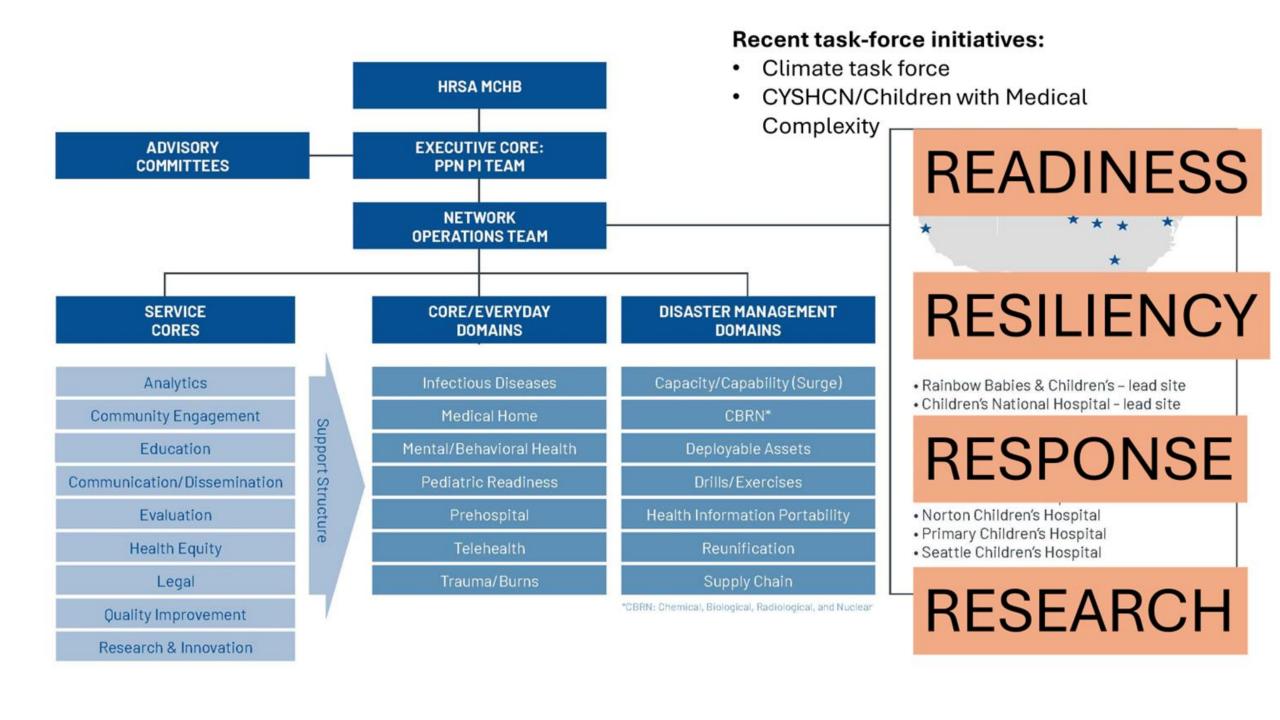


Equity, Engagement

Trauma,

Burn







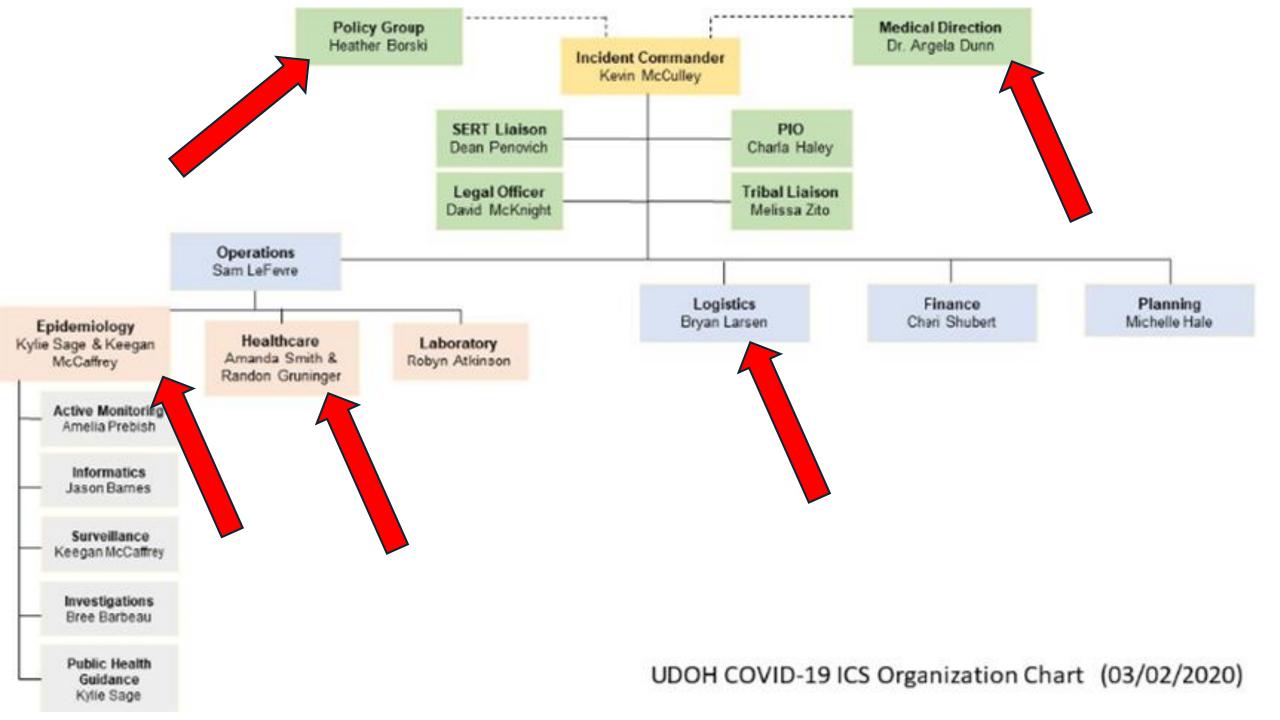






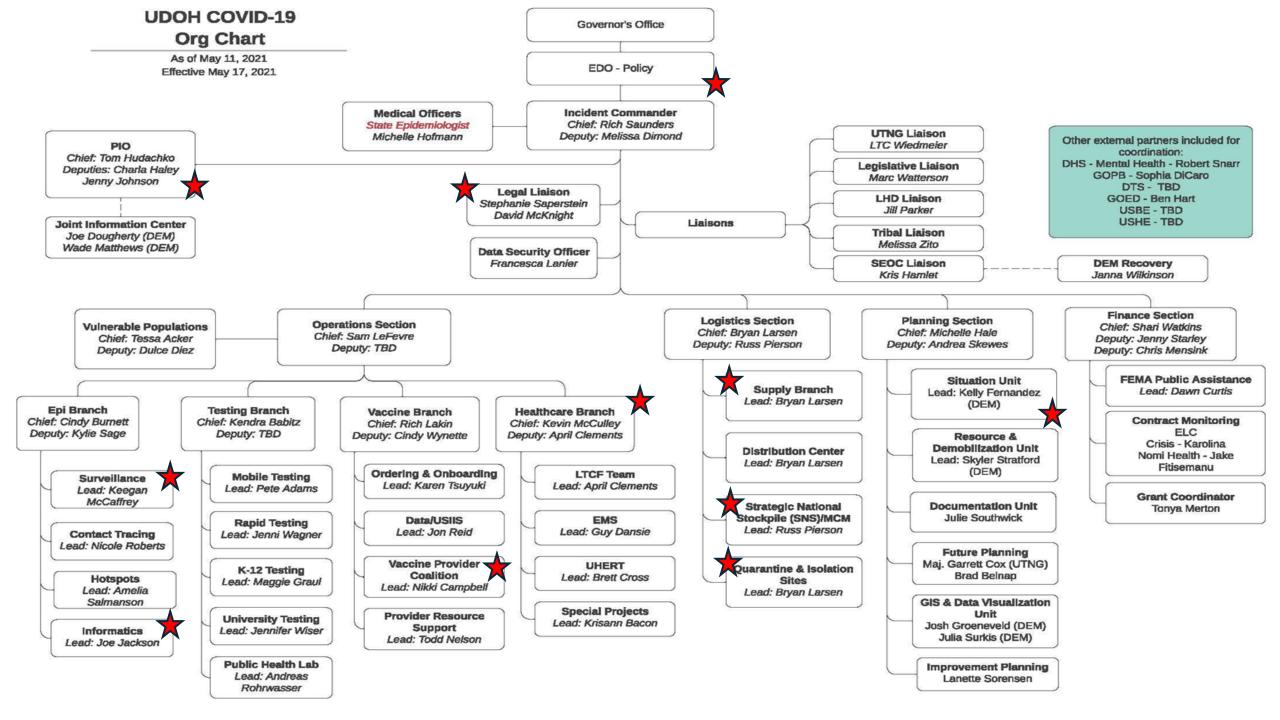










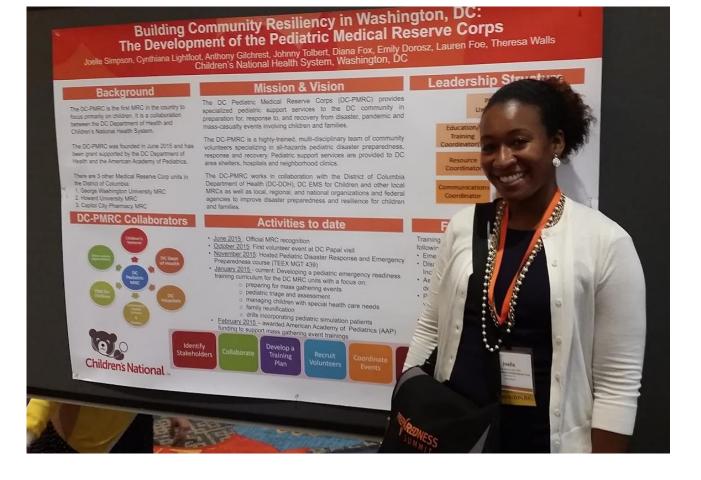


Joelle Simpson, MD, MPH

Associate Professor, Pediatrics and Emergency Medicine
Chief of Emergency Medicine
Medical Director for Emergency Preparedness
Children's National Hospital

Pediatric Pandemic Network

- Lead PI, PPN
- Hub Site Leader Washington DC
- Podcast Presenter (Origins)





https://pedspandemicnetwork.org/ready-prep-go/origins/

The "WHY"?

- Prioritizing Children and Pediatrics
- Address Leadership Priorities
 - Motivation
 - Money
 - Metrics
- Advocate for Collaboration come together in a disaster
- Connect in with PPN hub sites and Pediatric Disaster Care Centers of Excellence
- QI science and strategies can advance change much more quickly using evidencebased approaches



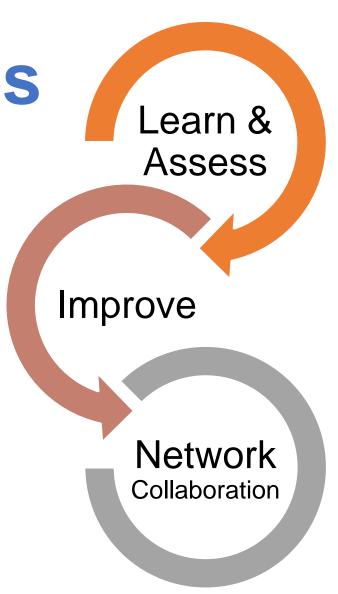
PPN and Collaboratives



DNC: Support in-hospital pediatric preparedness infrastructure, outreach



DRC: Enhance pediatric disaster response capability and capacity







Katherine Remick, MD, FAAP, FACEP, FAEMS
Associate Professor, Pediatrics and Surgery/Perioperative Medicine
Associate Chair, Quality, Innovation, and Outreach
Co-Director, National EMS for Children Innovation and Improvement Center
Dell Medical School at the University of Texas at Austin
Medical Director, San Marcos/Hays County EMS System



What is the current state of pediatric disaster preparedness in the U.S.?

- <50% of hospitals include pediatric-specific needs in disaster plans.
- Deficiencies in day-to-day operational readiness are exacerbated during a disaster.
- Current state and local disaster plans often do not include specific considerations for children and families.
- General hospitals often "rely" on children's hospitals during disaster events.











Pediatric Disaster Capacity and Capabilities of our Hospital System

- Among the ~200 children's hospitals:
 - 90.8% with NICU
 - 89.4% with PICU
 - 96.3% with peds ward
 - 72% with newborn nursery
- All hospitals (~5000):
 - 27.9% with NICU
 - 9.7% with PICU
 - 30.8% with peds ward
 - 56.3% with newborn nursery



Checklist of Essential
Pediatric Domains and
Considerations for Every
Hospital's Disaster Policies

https://media.emscimprovement.center/documents/EIICDisasterChecklist Current081822.pdf

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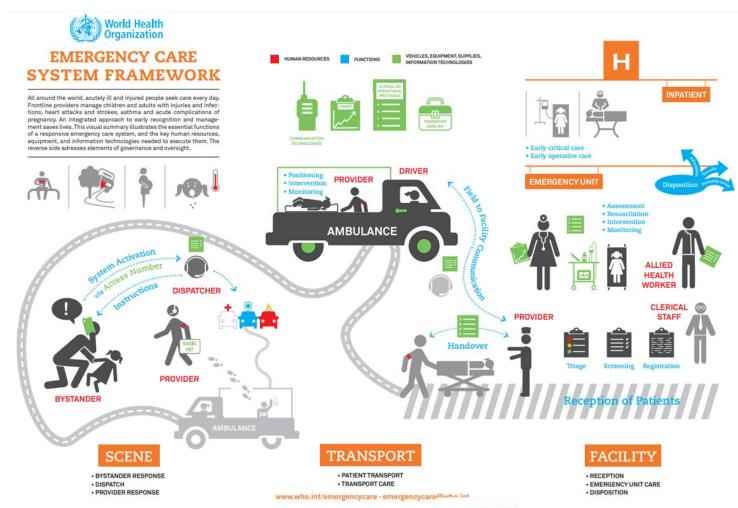
Creating and centralizing Pediatric Pandemic Network Federally funded (HRSA) pediatric disaster resources network of 10 children's (Sept. 2021-Sept. 2026) via education and toolkits hospitals. Children's hospital disaster OI collaboratives: network implementation and support Ongoing collaboration, coordination, resource-sharing to support pediatric disaster preparedness and response Disaster Networking Disaster Response Develop a coordinated response to disasters Collaborative Become the collective voice for pediatric Collaborative (2023-2024)disaster preparedness and response (2024-2026)Establish pediatric Improve disaster response disaster leaders capabilities, build networks for and grow the voice shared learning, establish of children's standards for pediatric disaster hospitals response. Post-2026 2021 2022 2023 2024 2025 2026

Transforming the Healthcare System

- Active vs passive engagement
- Passive dissemination = 15-20yrs
- Quality improvement methodology
 - = 3-5yrs

Driving transformation:

- Research to practice (diverse settings)
- Shared learning
- Data analytics to measure impact



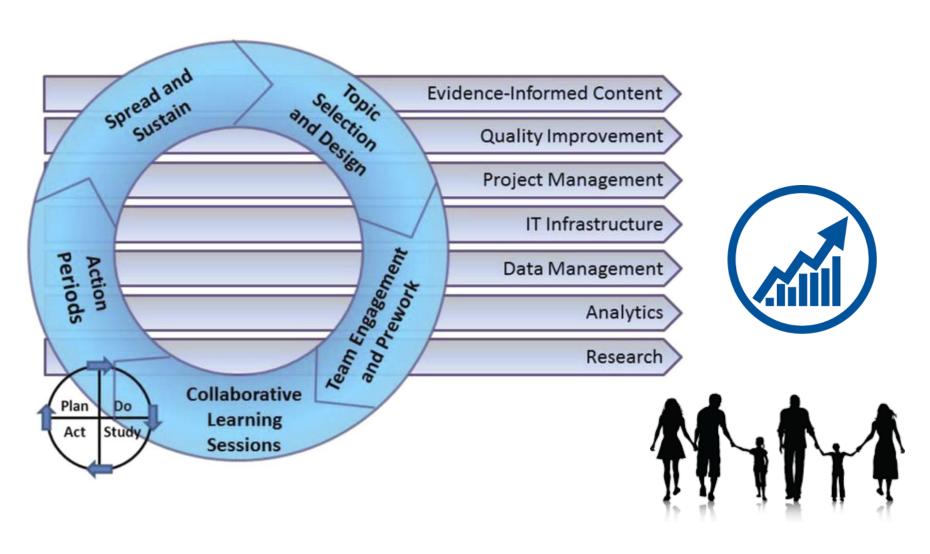


Quality Improvement Collaboratives





Collaboration across institutions Incentives to support engagement





A Tale of Two Collaboratives

Disaster Network Collaborative

Foundational Elements for Children's Hospitals

- C-suite commitment and support
- Strengthen local pediatric disaster leadership
- Collaborate with healthcare coalition



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Disaster Response Collaborative

Moving Towards Robust Pediatric Disaster Response

- Assess and strengthen pediatric disaster capabilities
- Establish standards for pediatric disaster response
- Strengthen the network of children's hospitals



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Jonathan Eisenberg, MD, FAAP

Assistant Professor, Pediatrics
UT Austin, Dell Medical School
Attending, Dell Children's Medical Center

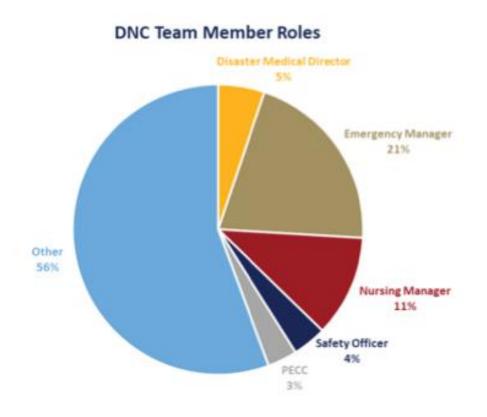
Pediatric Pandemic Network

Disaster Networking Collaborative

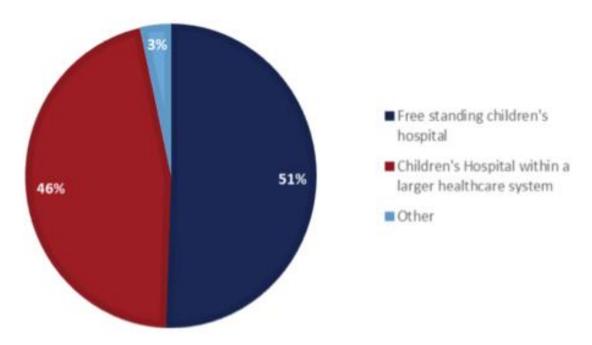
QI Service Core



DNC: what we have learned

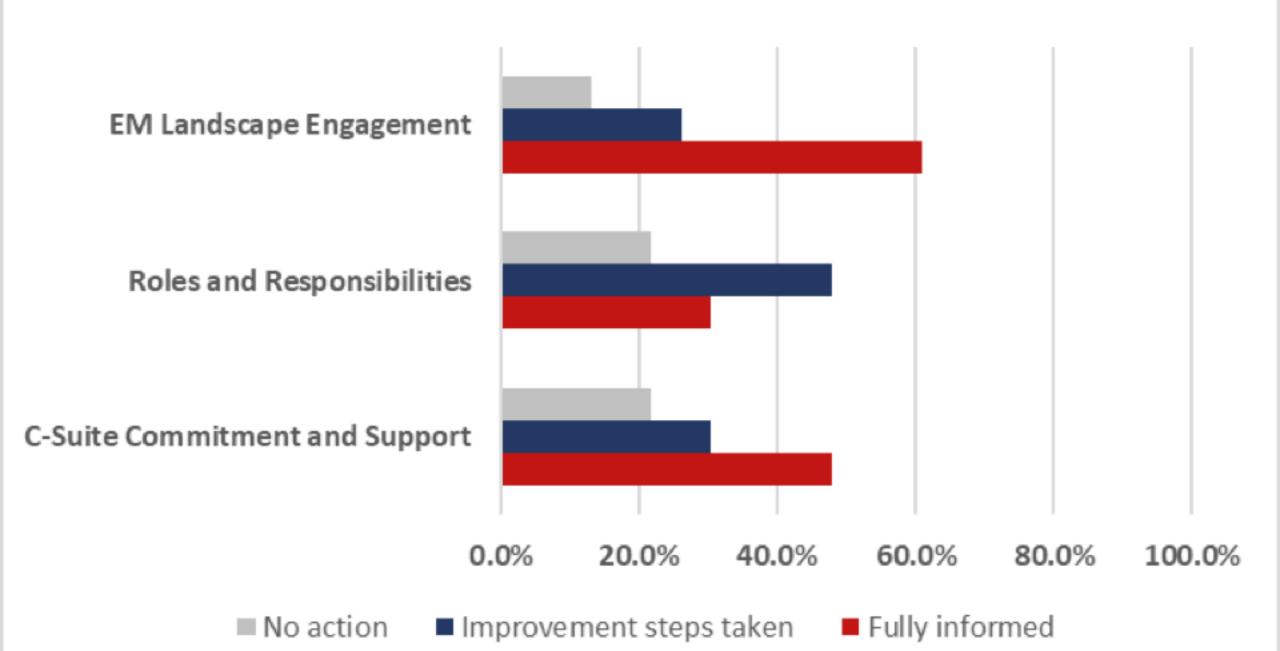


TYPE OF CHILDREN'S HOSPITAL





Improvement Areas through DNC



Lessons Learned

- "More is better": forming a robust/engaged team from various areas in the hospital helped get the work done
- C-suite commitment and support is critical for pediatric preparedness. This lays the groundwork for response
 - Pediatric disaster roles can be enhanced through provision of job descriptions, protected time, and financial support
 - Hospital leadership is aware when asked about disaster planning requirements
- It's not easy but having a collaborative to guide teams and provide resources helps
- Join (continue) the journey Children's hospitals should all join the Disaster Response Collaborative (DRC) - practice what we study



Disaster Response Collaborative (DRC) Goals

1

Augment pediatric disaster response capabilities of children's hospitals

2

Assess current state of pediatric disaster response among participating children's hospitals

3

Establish a sustainable network of children's hospital leaders actively participating in pediatric disaster planning and response 4

Create a forum to drive a coordinated response among children's hospitals in times of a national disaster/surge event 5

Support teams to drive evidence-based or consensus-driven regional pediatric disaster planning and response (with HCCs, other hospitals, EMS, public health, etc.)



DRC Collaborative Structure Overview

Phase 1

- Overview and in-depth intro to focus areas
- Using a tabletop exercise, pre- and post- drills to monitor, demonstrate improvements in response
- Teams will select focus area for improvements

Phase 2

- Each focus area meets once per month, alternating with quarterly collaborative sessions
- Exercises/drills/simulations
- Team reports on improvement projects
- Expand to regional and children's hospital network approach

DRC Timeline





Building a Robust Team: Who to Include?

- Multidisciplinary team
- Start strong (large team)
- Leveraging strengths of members
- Each person brings a unique perspective, expertise
- Value the input of all



Barriers and Successes

Turnover

Staff may change positions or opt out

Biggest barrier – identify additional members to assist

Ensure the team has 4-5 members initially, if you can, so there is a buffer

Progressing Towards the Goal

- Stay focused on what the team decided to work on (the goal)
- Also have a SMART aim
- Communicate, communicate, communicate...
- Accountability

Preparedness & Response Planning Takes Time and Effort



More about "the why"... to network, engage, enhance skills, access experts and resources, improve performance, measure improvements, innovate, address risk and liability reduction, and support resiliency.



Form a robust/engaged team and register for the Disaster Response Collaborative now!



In early 2025, teams will select one of four focus areas and decide how best to improve pediatric disaster response capacity and capability specific to **that topic**.

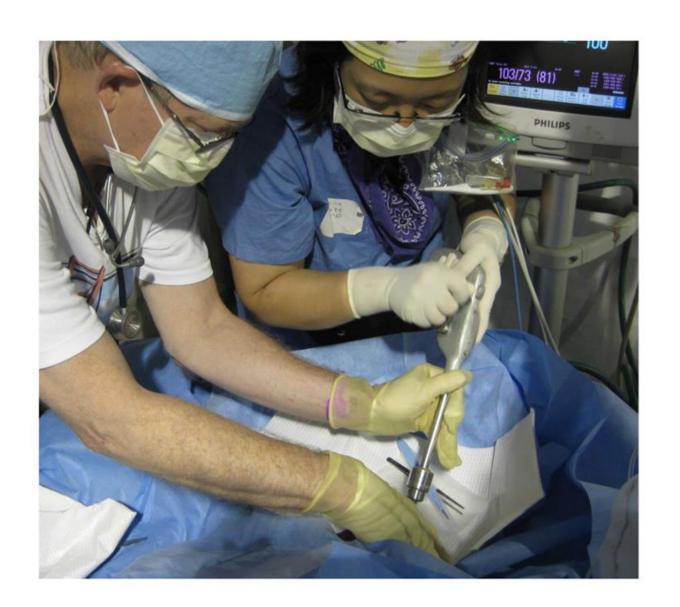


Teams can identify options to test improvements with a tabletop exercise and pre- and post-drills with tools and mock patients provided.



Become a champion; encourage <u>all</u> children's hospitals to register for and join the DRC!





Sarita Chung MD FAAP Director, Disaster Preparedness Division of Emergency Medicine Boston Children's Hospital

Pediatric Pandemic Network co-lead: Capacity and Capability Family Reunification

Disaster Checklist and Focus Areas Engaging the DRC to support the PPN



Evacuation



Family Reunification



Surge Capacity



Triage/Decontamination



The Disaster Checklist



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Focus Area: Evacuation

Plan

- Triggers/metrics for evacuation
- Plan to prioritize order in which to evacuate patients based on medical and support needs
- Agreements regarding reception of patients
- System to track patients and supplies that leave hospital

Supplies

- Pediatric-specific evacuation equipment (e.g., bassinets, newborn apron)
- Materials for specialized patients (e.g., ventilator-dependent) and trained staff

Drills/Education

- Ensure staff know where to find evacuation equipment and protocols
- Inc. evacuation of specialized patients (e.g., high acuity) into disaster drills

Transport Services

Use a systematic approach to identify pediatric transport needs (e.g., TRAIN® matrix)





Focus Area:

Pediatric Patient Tracking and Family Reunification

Tracking and reunification

- Process to track an unaccompanied child in the ED
- Child identification form
- How will unaccompanied children be definitely identified?

Family reunification planning

- Planning team and procedures for Family Reunification Center,
 Pediatric Safe Area, Family Reunification Site, private notification area
- Family intake form
- Procedures for staff social media usage

Space Use

- Areas in the hospital that can serve as the center, safe area, and sites above
- Medical oversight/supervision/activities in the Pediatric Safe Area

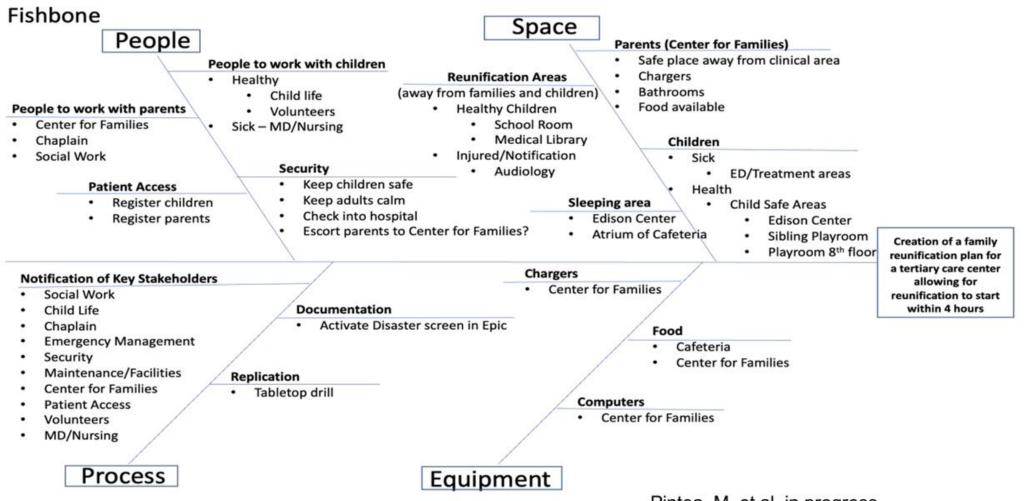
Staff

- Staffing plans and ratios
- Family reunification team with community partners









Pintea, M, et al. in progress

Focus Area: Pediatric Surge Capacity

no notice short-term events

Planning

- Ways to augment baseline capabilities
 - ED and surgical capacity
 - Ability to care for patients for 48-72 hours
- Determine maximum capacity in different scenarios
- Prioritize patients for discharge and transfer

Surgical Capabilities

Access to and capabilities in pediatric surgical subspecialties

Space

- Alternative spaces in the institution (and plans) for their use
- Identify capacity at which transfer to alternate care sites would be necessary

Equipment and Supplies

- Plans to arrange for sufficient quantities of equipment, medications, food, etc to meet surge targets
- Investigate ability (and have protocols) to use non-pediatric materials for pediatric use

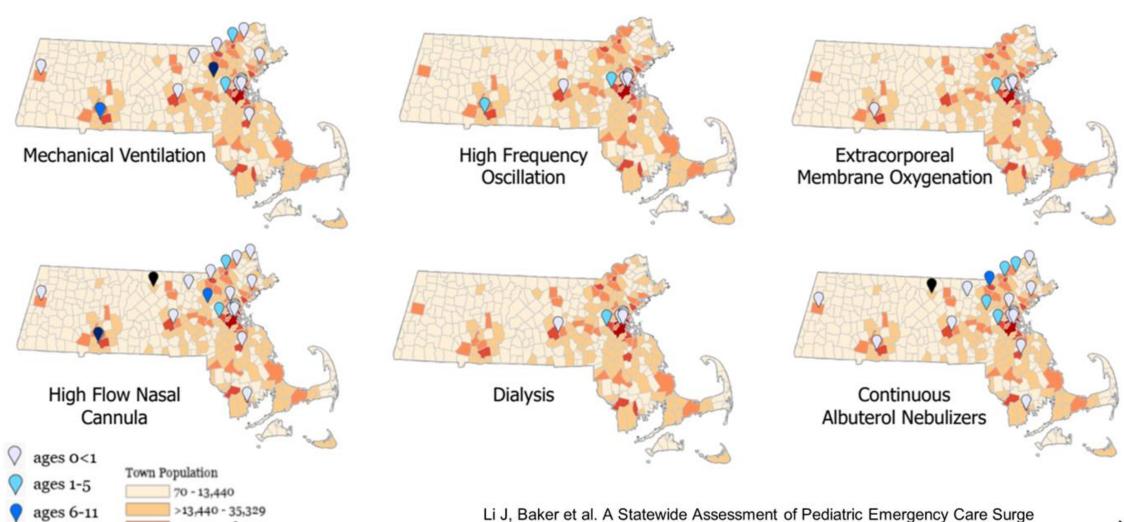
Staff

- Process, relationships, or MOUs for bringing in additional staff from other departments or institutions
- Keep families together, and readiness to implement pediatric patient tracking and reunification
- Training in pediatric disaster response; notification system
- Leverage internal staff expertise to increase to surge targets
- Family reunification models





Youngest Age Range for Pediatric Therapy Administration during Normal Operations



Capabilities. Pediatrics. 2023 Apr 1;151(4

35,329 - 81,045

81,045 - 20,6518

>20,6518 - 675,647

ages 12-15

ages 16-17

N

Massachusetts Department of Public Health (MDPH), Office of Preparedness and Emergency Management (OPEM). Boston Children's Hospital.

Focus Area: Triage/Infection Control/Decontamination

· Chemical, biological, or infectious disease agent exposure

- Existing protocols
- Triggers to activate enhanced protocols
- Triage and isolation areas
- PPE and training/experience in donning and doffing

Decontamination

- Hospital (outside area) and process when contamination is warranted
- Keep families together when possible allow families to wash children or maintain modesty
- Pediatric considerations and equipment









Brent Kaziny, MD, MA, FAAP

PI The Gulf-7 - Pediatric Disaster Network **EIIC Co-Director, Disaster Preparedness DomalN Attending Physician, Medical Director of Emergency Management Texas Children's Hospital** DISASTER RESPONSE COLLABORATIVE

What We Hope to Accomplish - We Need Your Help - Be a Champion!





Top 10 Reasons to Join the DRC!

- 1. Network
- 2. Engage
- 3. Healthcare Resiliency
- 4. Access
- 5. Resources
- 6. Improve Performance
- 7. Measure
- 8. Skill Enhancement
- 9. Innovate
- 10. Risk and Liability Reduction

Plus: while you may already feel wellprepared, there is ALWAYS something to learn and improve on!



Riley Hospital Job Action Sheets

Riley ED Mass Casualty Activation - A POD ED Attending Quick Sheet

Huddle with your team to gather info (how many/ages/ETA/decon?)

- ED Charge Nurse assumes Coordination Command of ED
- Decide YOU (or B-pod MD) are MD Clinical Command with Trauma – manages critical patients in A-pod
- · Contact Trauma Surgery Attending -Diagnotes
 - o Give situation report
 - Review triage plan and roles (see reverse)
 - Discuss OR availability and need for AlertMedia MCI Home Call-In

RAPIDLY move A-pod patients to other areas of the ED, floors, PICU, or home

- Charge to assign a RN to lead A-pod Decompression
 - Review board with this RN and residents decide quick dispo for each pt (move/admit/discharge)
- Assign a resident in charge of patient handoff to accepting providers for admissions.
- Assign another resident to rapidly discharge safe dc pts.

Triage, Treat, Track, and Repeat Triage

- Charge RN to activate Disaster Registration (with SPA team) and white board tracking
- Quick Review of MCI Triage (see reverse) -> Red pts in Apod
- Provide care for "OR READY/RED" patients waiting for ICU or OR (intubations, chest tubes, blood, etc)
- · Assign residents to assist with frequent re-triage in A-pod
- B-pod MD to assist with treatment of "OR WAIT" pts
- Track patients Where are they going?

Riley ED Mass Casualty Incident - Charge RN Quick Sheet

Inform

- Get report (how many/ages/ETA/decon)
- · Huddle with fellows and attendings
- Inform AA and request RN support if needed
- Instruct Unit Secretary to send MCI page and provide information for the page

Assign Roles

- Assign 2 experienced Triage Charge roles
 - o 1 for ambulance bay and 1 for waiting room
 - o Review Quick MCI Triage (back of this sheet)
- Assign 2 ED Decompression Charge roles
 - 1 to move all patients OUT of A-pod
 - 1 to move B-pod patients out or up
 - Have them review the board with respective docs to make quick dispo decisions
 - Move patients out/up rapidly

Triage, Treat, Track and Repeat Triage

- Activate Disaster Charting/Registration Plan to track pts
- · Discussions with Incident Command:
 - Staff Who do we need? RNs, techs, EVS, pharmacy, SW, chaplain? Recruit from hospital, or call in from home?
 - Space Get creative with ED space (hallways, quiet rms, MRI, etc)
 - Stuff Common shortages: chest tubes/water seals, blood/tubing, gurneys, wheelchairs, linens

Riley ED Mass Casualty Incident - AA Quick Sheet

- What happened?
- . How much time do we have?
- How many patients are expected? (Expect half of patients to arrive within first hour)
- What ages are expected?
- Will decontamination be needed?

Establish Command and Control MEET WITH ED CHARGE RN & ED MDs ASAP

- Obtain additional RN Support:
 - Send RNs down to help care for/move non-trauma patients in the ED (PICU/Floor RNs)
- Discuss activation of hospital labor pool & hospital IC
- Recruit EVS/Supplies/Security/Registration to the ED
- Notify hospital safety officer, Unit Director (UD), and Daily Administrator (DA)
- Alert/establish hospital incident command.

Decompress Emergency Department GET ALL POSSIBLE PATIENTS UP & OUT

- · Find available RNs to help pull patients up to floor
- Assist with opening beds/space upstairs
- Work with OR and PACU to open space
- · Help identify additional care space if needed.

Manage Incident/Implement Incident Command DO THE GREATEST GOOD FOR THE GREATEST NUMBER OF PEOPLE PEOPLE

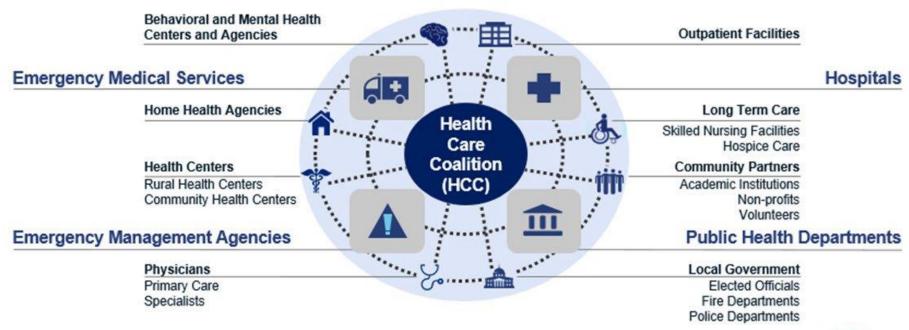
- Coordinate with ancillary departments (i.e. pharmacy, supply) for additional needs.
- Ensure hospital command is set up to:
 - Activate Family Support Center if needed
 - o Implement Public Information Officer (PIO) plan
 - Security is handling traffic control



Healthcare Coalitions

What is a Healthcare Coalition?

A HCC is a group of individual health care and response organizations in a defined geographic location. HCCs play a critical role in developing health care delivery system preparedness and response capabilities.







DRC Registration is Open!

Register Now

Encourage Others!



Disaster Response Collaborative Registration Link

https://redcap.seattlechildrens.org/surveys/?s=84ADH8M8KPKNM4AD

Website and resources to follow. First session August 6, 2024.



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Stay in touch with PPN.

Sign Up for Updates











Pediatric Pandemic Network | (pedspandemicnetwork.org)

