

Creating a National Network to Interconnect Regional Entities with ASPR Assets

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Region V For Kids Pediatric Disaster
Center of Excellence

Presented By:



DISCLOSURE

The Pediatric Disaster Centers of Excellence are supported by awards from the Administration for Strategic Preparedness and Response within the U.S. Department of Health and Human Services (Region V for Kids #U3REP190615-10-10).

THE NEED

Recent health crises exposed and exacerbated disparities: mental health crisis, respiratory surge, COVID-19.

Disproportionate risk, limited resources and infrastructure, and high consequence outcomes!



25%

Percent of U.S. population - children - with unique healthcare needs

47.5%

Hospitals with pediatric-specific disaster plan

30 MILLION

Children who seek emergency care each year

69.5/100

Median score of Emergency Departments pediatric readiness in the U.S.



- **1984** EMSC Program Authorized
- 2012 Launch of National Pediatric Readiness Project
- 2016 EMSC Innovation & Improvement Center replaces the National Resource Center

- Launch of Prehospital
 Pediatric Readiness Project
- ASPR Launches Two
 Pediatric Disaster Centers
 of Excellence (WRAP-EM &
 Region V for Kids)

- 2021-2022 Creation of Pediatric Pandemic Network
- 2022 ASPR Adds Third
 Pediatric Disaster Center
 or Excellence (Gulf 7)

Three Pediatric Disaster Centers of Excellence

- Funded by the Administration for Strategic Preparedness and Response (ASPR)
- Bring together children's hospitals, private and public entitites, and national organizations
- Designed to disseminate best practices in pediatric disaster preparedness, response, and recovery on a regional level



Gulf 7-Pediatric Disaster Network

- Awarded in 2022
- Anchored at Texas Children's Hospital (Houston, TX)
- 7 states/terrirories:
 Alabama, Florida, Georgia,
 Louisiana, Mississippi,
 Puerto Rico, Texas



Western Regional Alliance for Pediatric Emergency Management (WRAP-EM)

- Awarded in 2019
- Anchored at UCSF
 Benioff Children's Hospital
 (Oakland, CA)
- 6 states: Arizona, California, Nevada, Oregon, Utah, Washington



Region V for Kids (formerly EGLPCDR)

- Awarded in 2019
- Anchored at UH Rainbow Babies & Children's Hospital (Cleveland, OH)
- 6 states: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin







Federally Funded Networks for Children in Disasters

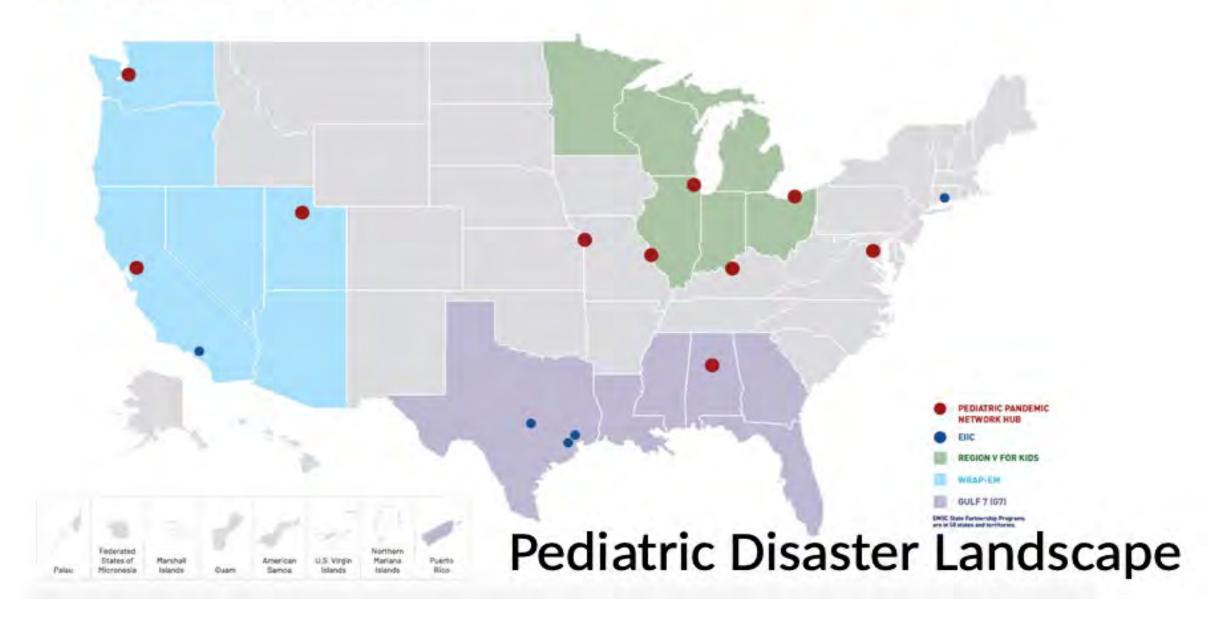












Geographic Reach: Regional Disaster Health Response Systems and Pediatric Disaster Centers of Excellence



The ASPR

Vision of

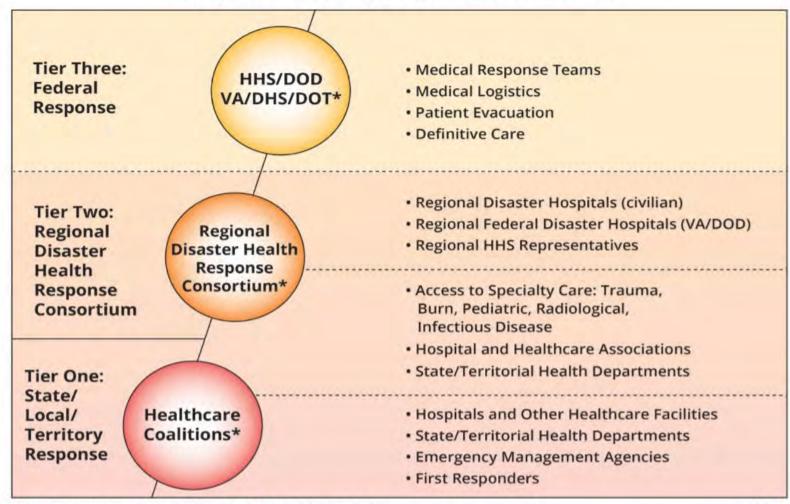
Pediatric



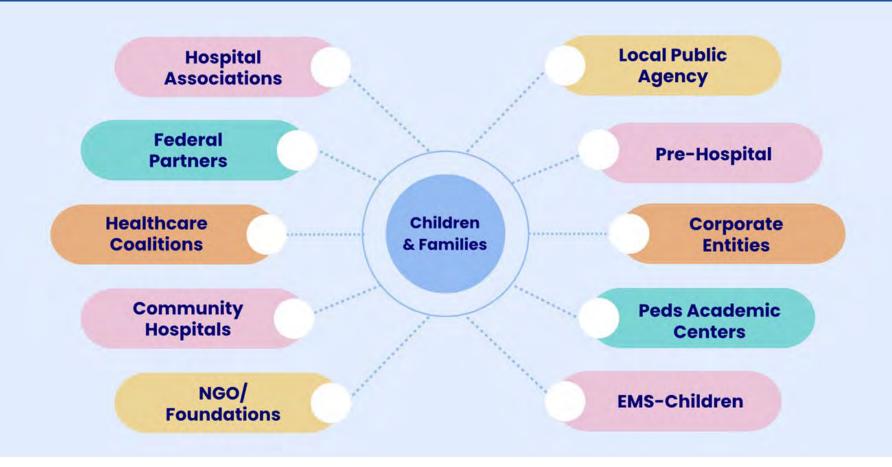
Centers of

Excellence

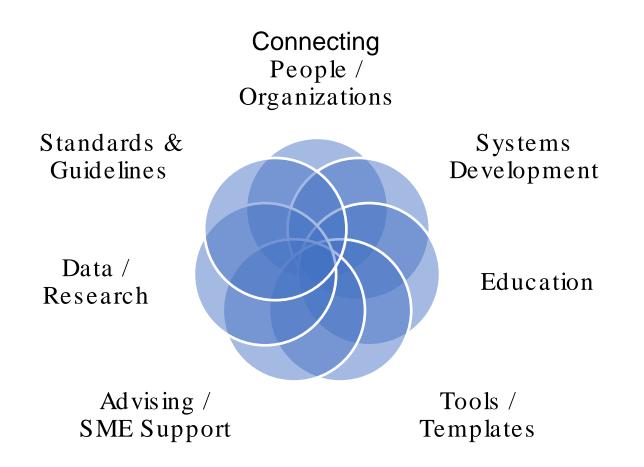
21st Century National Disaster Medical System Framework A Tiered Response Structure



PDCOE Partners



The PDCOES: WE ARE HERE FOR YOU



PDCOE Pillars

- **Develop** a coordinated pediatric disaster care capability
- Strengthen pediatric disaster preparedness plans and coordination
- Enhance state and regional medical pediatric surge capacity
- Increase healthcare professional educational competency
- Enhance situational awareness of pediatric disaster care across the spectrum

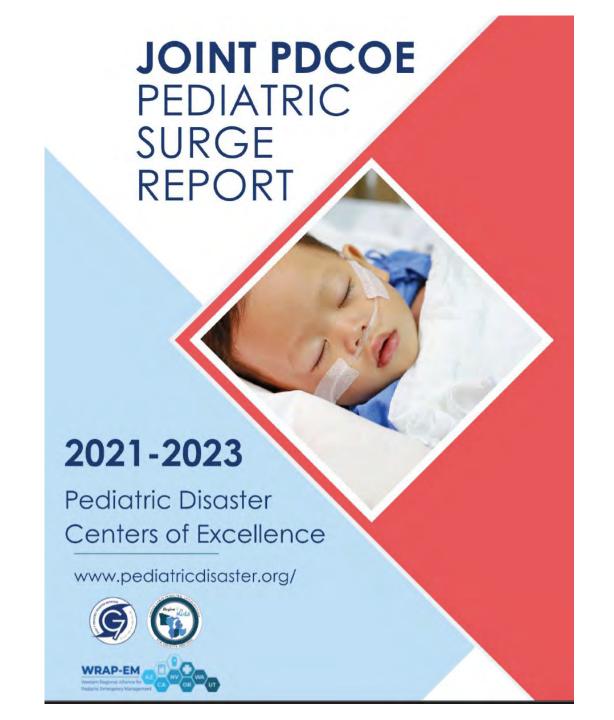
HOW WE CONTRIBUTE TO PEDIATRIC PREPAREDNESS CAPABILITIES

- Approachable subject matter experts
- Trusted Consultation: preparedness & response efforts
- Real time **situational awareness** in region
- Identify gaps in addressing pediatric-specific concerns
- **Create resources** to educate pediatricians, hospitals, and caregivers of children
- **Discussions** inclusive of health disparities & inequities



PDCOE in Action

- Respiratory Surge
- Responded to our Regional Healthcare Coalitions
- Real-time Situational awareness
- Disseminated tools for Justin-Time care of children
- Participated in 10 ASPRhosted regional webinars to listen to HCC, hospitals and others and provide resources



- COE range of work: domains, expertise, educational output, preparedness products
- Deep connections with Children's hospitals, the American Academy of Pediatrics, Emergency Medical Services for Children and the Pediatric Pandemic Network (although funded by HRSA and not ASPR, much overlap in mission and investigators)
- Most investigators/leaders in COE work in academic medical centers at children's hospitals and have had significant preparedness experience (education, experiential with deployments, advocacy, HCC and state partner involvement, etc)
- Academic products
 - COE outreach efforts on behalf of children
 - Addressing disparities
 - Surge playbook
 - Regional Planning

Disaster Medicine and Public A Pediatric-Focused Self-Assessment Tool on Health Preparedness

www.cambridge.org/dmp

Original Research

Vulnerabilities to Aid Regional Disaster Planning

Michelle Pintea MD, MPH1 and Deanna Dahl Grove MD2

Washington University School of Medicine, St. Louis Children's Hospital, Saint Louis, MO, USA and 2University Hospitals Rainbow Babies and Children's Hospital, Case Western Reserve University, School of Medicine







Search ASPR Site Search















ABOUT US +

RESPONSE OPERATIONS -

HEALTH CARE READINESS ~

MEDICAL COUNTERMEASURES & BIODEFENSE -

PARTNERING +

TOOLS -

COVID-19 -

Regional Disaster Health Response System > Regional Disaster Health Response System: An Overview

Regional Disaster Health Response System: An Overview

Health Care Readiness

Health Care Readiness in Action: Stories from the Field

- History
- Funding
- Purpose
- Scope
- Geo reach

These Systems stood up with funding from ASPR starting in 2018, predating the Pediatric Centers of **Excellence** by a couple of years, but the missions of the RDHRSs and the PDCOEs have much alignment around the pediatric population



RDHRS Goals

The four primary goals of the RDHRS are to:





RDHRS Disaster Telehealth



Providing Care for Pediatric Patients with Acute Respiratory Illness:

The Region 1 RDHRS has established a weekly educational series comprised of six sessions to provide clinical teams from nursing, provider, and respiratory therapy disciplines with information and resources that can support their work to meet the healthcare needs of pediatric patients.



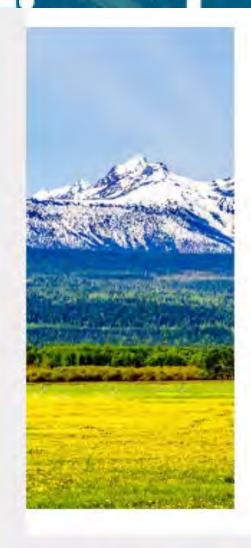
nechanisms that link unity partners and al patient care during

Just-in-T



Pediatric Resources

- Region VIII Pediatric Respiratory Surge Resource Page (updated 1/18/2023)
- ASPR TRACIE
 - Pediatric Surge Resources
- · Children's Hospital of Colorado
 - · Clinical Pathways from A to Z
- EMS for Children (EMSC)
 - · Colorado
 - EMSC Colorado | Pediatric Respiratory Resources
 - Montana
 - North Dakota





Management of Burns in a Disaster Setting

July 2024

Annette Newman (Matherly)

Management of Burns in a Disaster Setting



Region V for Kids (PDCOE) and Region VII collaborated to have pediatric burn care experts review the regional burn plan before their recent regional exercise

MIDWEST BURN REGION DISASTER RESPONSE



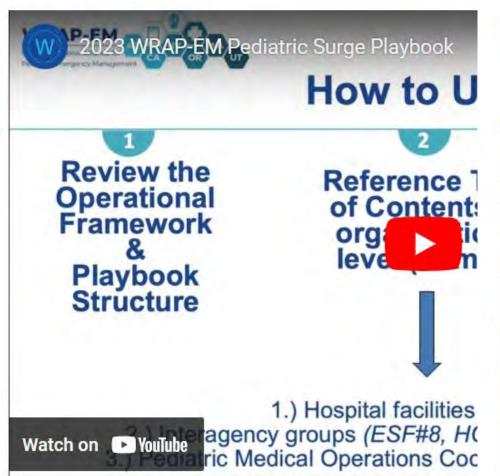
Barnes Jewish Hospital

314.362.5345

St. Louis

2023 WRAP-EM Pediatric Surge Playbook

TELEMEDICINE - SPECIALTY COLLABORATIONS



Tele-EMS



Region V for Kids began to collaborate with RDHRS Telemedicine Project Team(s)

- This cross-sites work began with participation in mass casualty exercise to demonstrate telemedicine use regionally (kudos to Dr. Tehnaz Boyle, Region 1 Telemedicine leader)
- Region 1 RDHRS and Southern Region have some mature telemedicine projects
- Pediatric COEs and RDHRSs meet monthly and our cross-sites team includes ASPR leaders working on a national delivery platform
- We endeavor to explore the use of virtual care technologies in all aspects of the disaster cycle, including prehospital care AND to ensure that the needs of children are considered throughout

















ABOUT US+

RESPONSE OPERATIONS +

HEALTH CARE READINESS +

MEDICAL COUNTERMEASURES & BIODEFENSE -

PARTNERING -

TOOLS .

COVID-19 +

NETN: National Emergency Telemedicine Network





ASPR Disaster Telemedicine Program Updates

Region 5 Partner Webinar October 2, 2024

CDR Dina Passman, USPHS, Director
Dr. Chris Crabtree, Sr. Emergency Management Specialist
CDR Lisa Tung, USPHS, Data Scientist*
Amy Keim, Sr. Medical Officer

Mission and Vision

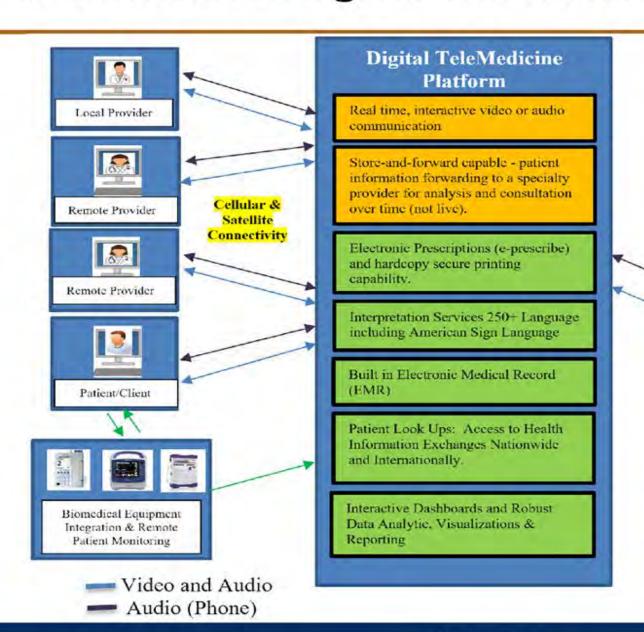
Mission

The ASPR Disaster Telemedicine Program's mission is to provide the best care to disaster-stricken communities using remote clinical specialists when and where they're needed.

Vision

ASPR will provide unrivaled virtual specialty support to federal emergency responders and their partners.

The Disaster Digital Telemedicine Architecture



Remote Clinical Specialty Staffing **Burn Specialist** Cardiologist Clinical Psychologist Clinical Social Worker Dermatologist **Emergency Medicine** Endocrinologist ENT Eve Trauma Care Gastroenterologist General/Family practice General Surgery Infectious Disease Internal Medicine Internal Medicine Critical Care Neonatologist Nephrology Neurologist Neurosurgeon OB/GYN Occupational Medicine Pediatrician Pediatric Critical Care Intensivist Pediatric Emergency Medicine Psychiatrist Radiology Pulmonologist Psychiatrist

The Pediatric **Disaster Centers** of Excellence engage with our **RDHRS** colleagues AND ASPR so that when developing **Telemedicine** responses to Disasters and Pandemics, the needs of children are considered throughout planning and response

Purpose and Goals of PDCOE and RDHRS Cross Sites Project- Kick Off January 2024

Purpose: Share and develop advanced pediatric disaster innovations across a network of regional disaster health response systems.

Objectives:

Create a venue for sharing pediatric disaster expertise across a network of federally funded regional health response projects.

Leverage existing pediatric disaster preparedness and response expertise.

Identify and develop methods for pediatric gaps in disaster preparedness and response.

Announce open-invitation opportunities for pediatric-centric conferences, workshops, education, and exercises.

Promote advancements in pediatric disaster preparedness and response.

Forum Meeting Notes – 16 April 2024

Mountain Plains

Virtual pediatric exercise involving state EMSC, public health, load leveling and peds transport

Pediatric Critical Care Course for non-pediatric providers

Region VII

Project to establish a PMOCC at Children's Mercy to coordinate transfer and load leveling? concern for the regional bed capacity as a major pediatric challenge

Forum Meeting Notes – 16 July 2024

Presentation on PPN Implementing a Checklist to Improve Hospital Pediatric Preparedness and Response

Research project – presented by Dr. Jefferson Barret to improve preparedness for NON-children's hospitals

Forum Meeting Notes – 16 July 2024

Presentation on a *National Pediatric Dashboard* – presented by Dr. Matthew Denenberg from Region V for Kids PDCOE

The project seeks to establish a user-friendly, 50-state dashboard tracking the real-time availability of various

inpatient pediatric beds and services Currently a manual, daily update, but future plans for Application Programming Interface (API) would automate real-time

PPN Disaster Response Collaborative

HRSA funded Pediatric Pandemic Network, which has much overlap in personnel and focus as the PDCOEs, sponsors a collaborative to improve preparedness of children's hospitals

Forum Meeting Notes – 16 July 2024

Midwest Region Burn Exercise

Multi-region exercise to review and validate a Midwest Region Burn Plan – open invitation for observers to attend

Mountain Plains RDHRS

Virtual pediatric exercise completed: need resources to understand if increased pediatric mortality related to vaccine hesitancy: Recommendation and offer to connect with PPN Infectious Disease and sharing of WRAP-EM/PPN Emerging Issue webinar series

R1 RDHRS

Plans reconstitute a pediatric workgroup and web-based pediatric resource tracking application

Forum Meeting Notes – 15 October 2024

New ASPR guidance to HPP includes opportunity for update of Pediatric Annexes

Push to incorporate pediatrics in ASPR TRACIE MOCC toolkit

MCI featured a pediatric deployable team attached to state DMAT



Forum Meeting Notes – 15 October 2024

Gulf-7 PDCOE

Trauma and Grief Component Therapy (TGCT) program Pediatric Preparedness Courses- 7 completed

WRAP-EM PDCOE

New package of chemical surge education "Emerging Issue" workshop series

Region 1 RDHRS kicked off their pediatric workgroup (and their deployable team is recruiting pediatric team members)

Opportunities Highlighted

Be Ready for Our Kids: Preparing for Everyday and Disasters

Every child at every hospital should receive appropriate care based on their needs. Data shows more than 50% of hospitals disaster preparedness plan lack the health care needs of children. AHA convenes Region V for Kids representatives to share



Be Ready for Our Kids: Preparing for Everyday and Disasters Oct 31

evidence-based practices emergency departments can implement to meet the needs of children during disasters.

Cross Sites October 16 Meeting: Region VII Burn Exercise of BURN PLAN Report



Quick Facts

- 4-hour virtual exercise held on August 14, 2024
- Over 120 participants from 53 different organizations
 - Local (healthcare coalition coordinators), state (DHHS,
 public health) and regional (HHS ASPR) partners

Exercise Objectives

- Identify the communication, coordination and transfer process of patients within the Midwest Burn Region during a large-scale event
- Discuss and define the burn plan and/or process for acquiring additional supplies for burn patients at a frontline facility during a prolonged delay to a burn center
- Review existing burn care assets and identify gaps that may occur
- Discuss alignment of HHS Region VII, ABA, R7DHRE during BMCI





Pediatric Disaster Centers of Excellence Joint Initiative

- ASPR & PDCOE PIs presented Pediatric Issues
 Informing Current and Future Disaster Planning
 (slides, recording)
- Informational briefing packet & Joint PDCOE
 Pediatric Surge Report to be released soon
- Visit the PDCOEs at a sponsored NHCPC table





Region V for Kids

RV4K strategy meeting held in September. Key projects:

- Pediatric HVA
- Family Reunification
- Cybersecurity Workshop
- Telehealth Bystander Project
- Pediatric Disaster Medicine Educational Modules

Other Projects for Consideration as a Result of Focus Groups with Critical Access and Rural Hospitals.

Expanding Workforce to Include:

- Business Administration
- Communications
- Public Health
- IT/CISO



October 16 Cross Sites Project, cont.



Western Regional
Alliance for Pediatric
Emergency Management

New training pages:

Chemical Surge Planning:

Pediatric Considerations,



EMSC Collaborative Webinar Series, JIT Video Series

15 'til 50 MCI Toolkit

15 'til 50
Pediatric Mass
Casualty Incident
Plan Template

Pediatric Disaster Centers of Excellence and the Regional Disaster Health Response Systems will:

- Continue to strengthen their collaboration to ensure pediatric care resources are shared regionally and nationally
- Continue to work with ASPR and each other to develop methods to use telemedicine to provide care in disaster or pandemics, ensuring children's needs for pediatric providers are considered
- Continue to advocate that our team members effectively work and support their Healthcare Coalitions by contributing expertise, especially in pediatric care, and exploring best practices to deliver care where the impacted community lives using technologies such as telemedicine

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