# Platinum Pediatric Surge Playbook: Catastrophic Capable for Operational Impact

Transforming Strategies to Strengthen & Support CONOPs Plans across State Boundaries for Regional Health Systems & Hospitals

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# **Disclosures**

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# Western Regional Alliance Pediatric Emergency Management (WRAP-EM) Surge Group

- Funded through the ASPR Pediatric Center of Excellence
  - Includes WA, OR, CA, NV, AZ, UT, & NY





# **LEVERAGED WRAP-EM SURGE GROUP — SMEs**

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# **DELIVERABLES**:

Collectively identified Pediatric Surge Planning Gaps

**Optimized Access to Best Practices** 

State & Multi-Jurisdiction Pediatric Surge PLAYBOOK \*

**Maximized Response Capabilities** 



# **RAISING THE BAR:**

# REGIONAL PEDIATRIC SURGE CATASTROPHIC CAPABLE



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# TRANSLATING MULTI-LEVEL HEALTH SYSTEM PLANS INTO EFFECTIVE OPERATIONAL ACTION

- GOAL: To strengthen & increase health care system children's medical surge response capability & capacity across state, multi-jurisdiction & health system boundaries & borders with a PLAYBOOK \*
  - MISSION: To inspire & leverage surge pediatric emergency preparedness plans & response capability with collective state & multi-jurisdiction pediatric surge PLAYBOOK implementation that results in response that matches resources to needs for best outcomes





# **GOALS**

## **DRIVING READINESS & ACTION IN DYNAMIC TIMES**

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- Share "Platinum Pediatric Surge PLAYBOOK" components & resources to reframe inclusive & effective pediatric medical surge readiness & enable optimal health system pediatric surge response
- 2. Provide PLAYBOOK Strategies & Benchmarks to support health system plan development & disaster-resilient health care systems
- 3. Facilitate transformative & sustainable pediatric medical surge readiness & response recommendations & tools to support Concept of Operations (CONOPs)



## PLATINUM PEDIATRIC SURGE PLAYBOOK: CATASTROPHIC CAPABLE

# **Learning Objectives**

- 1. Facilitate understanding of *proposed* Model State & Multi-Jurisdiction Pediatric Surge PLAYBOOK (Guide Toolkit) adapted for hospitals with evidence based essential elements, & "best practices"
- 2. Provide access to pediatric subject matter experts (SMEs), guidance, & strategic options
  - For "real time" catastrophic event situation awareness & response capabilities
- 3. Describe benefits of leveraging government response ICS systems, HICS, & coalitions collectively across states & jurisdictions
- 4. Identify how reframed & inclusive pediatric surge plans enable optimal health system
  - pediatric surge response in exercises & "real events"
- 5. Provide multi-state transformative pediatric surge approaches, recommendations, & solutions





## **QUESTIONS FOR PRESENTERS & HEALTH SYSTEM PARTNERS**



- 1. How do you define/describe **"PLATINUM PLAYBOOK: Catastrophic Capable"** Pediatric Surge & **RESPONSE** components & domains?
- 2. How have you addressed catastrophic pediatric surge planning & response across regional borders to support overwhelmed hospitals?
- 3. What are health system & hospital pediatric surge priority ingredients, tools, & RECIPE FOR SUCCESS for pediatric integration in Health system & hospital plans?
- 4. What are the pediatric surge gaps, **PROMISING PRACTICES** & strengths?
- 5. What are the **CHALLENGING** operational response **NEEDS** & solutions including checklists, tools, & products (WRAP-EM)?
- 6. What is the **FUTURE SOLUTION** for regional PLAYBOOK pediatric surge coordinated plans?





# The Perfect Storm in Pediatric Emergency Care

**EMS & Hospital Challenges** 

- Children NOT on hospital's RADAR screen on day-to-day
   & surge events
- Pediatric Center Care "hyper-regionalized"
  - staffing challenges
- Increased transfers to pediatric regional centers
- Community Hospital Reduced inpatient pediatric capability but expanded NICU
- Limited Transportation Resources
  - Competing shared 911 & Inter-Facility
  - Transport (IFT) Demands
- Tertiary pediatric resource concentration urban hubs





Adapted & Courtesy - Gausche-Hill M. <u>Emergency and Definitive Care</u> <u>for Children in the United States: The Perfect Storm.</u> *Pediatrics.* 2020

Jan;145(1). PMID: 31882441

# https://www.canva.com

# DISASTERS TREAT VICTIMS OF ALL AGES

- Pediatric population a challenge physiologically vulnerable
  - NOT SMALL ADULTS 25% of Population
- Developmental differences lack motor skills to escape
- Lack cognitive decision-making skills
- Vulnerable to aerosolized biological/chemical agents
- Children may be soft targets
- Pediatric psychological triage difficult
- Children will be disproportionally affected
- Benign Neglect
  - Previous National Commission on Children & Disasters Report

Expect children to be impacted in high-consequence disasters

# "PEDIATRIC NEAR MISS"



#### **SURGE CAPACITY & CAPABILITY CHALLENGES**

#### **LESSONS LEARNED**

- H1N1 (2009) \*
- Civil Unrest (2009-10)
- Hurricane Sandy (2012)
- Asiana accident (2013)
- Northern California firestorms (2017 2022)
- COVID-19 Pandemic Hospital Surge
- Ukraine Mariupol Children's Hospital Bombing



**POTENTIAL RISK** – Earthquake & Pandemic 300% increase in need for PICU beds

Hospital surge impact — Limited PICUs - (33 PICU BEDS CA ALAMEDA COUNTY)



# **COVID-19 Adult Patient Movement Challenge**



## What if Pediatrics?

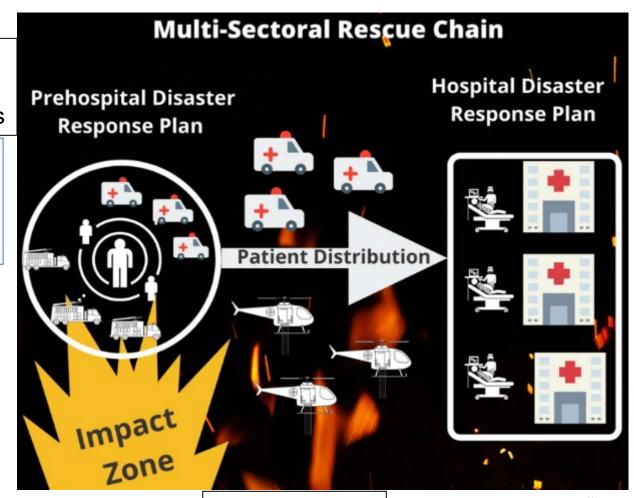
Which hospitals are available to take transfers from out of region?

#### **PROBLEM**

- Limited non-impacted counties
- ICU overwhelmed; not able to take secondary transfers
- Transfer Centers Report Essential Elements of Information (EEIs) & **Definitions Inconsistent.**
  - Lack of Pediatric Standardization
- Pediatric Bed Data Reliability Issue

#### **SOLUTION**

 CA requires hospitals to accept transfer patients from areas with low ICU capacity as of 8/18/2021
 Health Officer Surge Order Load Leveling





# **SCENARIOS** – Not Catastrophic Enough - What if Pediatrics?

- La California Lospital Lascciztion
- SIMULTANEOUS COMPLEX EVENTS result in adult & pediatric patient surge in ICU / PICU
- Pediatric MCI in schools or mass gathering event at multiple sites
- Pediatric hospital evacuation, virulent novel strain, & / or MCI impacting pediatric critical care



1000 pediatric hospitalizations per day



 Every regional pediatric specialty center becomes mega PICU



# WELL-PREPARED HEALTH CARE SYSTEM PEDIATRIC SURGE PLAN

- Plans & Prepares for healthcare consequences of pediatric disasters
- Responds quickly & with agility to support <u>local needs & pediatric</u> resource matching throughout regions & states
- Functions under adverse circumstances
  - An immediate & prolonged surge of pediatric patients in need of acute critical care & transportation in all-hazard catastrophic

events - causes:

- Disruption incident management chains of command
- A contaminated or contagious environment
- Loss of infrastructure Poor situational awareness



- Prepared collectively across regions & health systems
- Identifies OPERATIONAL RECOMMENDATIONS FOR ACTION to support State, Multi-Jurisdiction, & Hospital ICS CONOPs





# **REGIONAL & LOCAL PEDIATRIC SURGE CAPABILITY**



# **Envisioned – Across States**

## High reliability, highly collaborative, cross-sector – Living Plan Daily

- Rapidly expand capacity:
  - To provide guidance on how to rapidly expand capacity of heath care system multiple levels
- Align, scale, coordinate, & integrate:
  - To ensure integrated regional children's medical emergency management response system consistent with established ICS, Hospital Incident Command System (HICS), Medical Operations Center Cells (MOCCs), EMS for Children (EMSC benchmarks, ASPR Hospital Preparedness (HPP) capabilities, & existing surge plans
- Customize to divergent regions & operational sections of other plans
- <u>High-level synthesis</u> & support for many existing EOCs, MOCCs, PCCCs, HICS plans & surveillance not siloed



# **Starting Point – State & Multi-Jurisdiction PEDIATRIC SURGE**



# **PLAYBOOK: CATASTROPHIC CAPABLE**

- 1. PLAYBOOK (Master Guide) Framework NOT A CONOPS JUST TOOLS
- 2. PILLARS OF SUPPORT for OPERATIONAL RESPONSE:
  - TARGET GROUP: State ICS government organizations, EOCs,& regional Pediatric
     Coordinating Centers with benefits to healthcare system HICS
- 3. DESIGNED TO INFORM "REAL TIME" DECISIONS
- 4. IDENTIFIES EVIDENCE-BASED CUSTOMIZED PEDIATRIC SURGE SOLUTION OPTIONS
  - Event specific strategic recommendations, & "best practice" resources for time-sensitive event needs



# State & Multi-Jurisdiction Pediatric Surge PLAYBOOK

## **ICS Pediatric SME Advisor**

Objective: The Pediatric Surge SME makes data and ensure high-quality care. decisio potentially other resources) from one an overwhelmed facility or system to

Mission:

- Advise the Incident Commander or Se pediatric transport, and surge respons
- Collecting, analyzing, and disser
- Acting as a single point of contact regions capacity
- Integrate pediatric patient transfer management as a function of the

#### Immediate Response (0 – 2 hours)

#### Receive appointment

- Obtain a briefing from the St
  - Size, location (s) and comple:
  - Expectations of the Incident (
  - Incident objectives
  - Involvement of state, regional regional health systems, trans
  - The situation, incident activitie
- Assume the role of Medical-Tech
- Review this Job Action Sheet
- Put on position identification (e.g. EOC, MOCC, and or PCCC or from
- Notify WRAP-EM, PPN, and your

#### Assess the operational situation

- Assess/monitor state and/or multi
  - Hospitals
  - Pediatric Specialty Ce
  - Health System Hubs
  - Transfer Centers
  - Transport Availability
  - EMS
  - Review information as availab

#### Activities

- Meet with the Incident Commander, Operations and Planning Section Chiefs, and the Operations Section Medical Care Branch Director to plan for and project pediatric patient care needs.
- Identify the pediatric surge operational course of action as needed.
- Verify with the situation status with leadership
- · Gather intel and report the following to the Incident Commander:
  - Type and location of pediatric incident (s)
  - Number and condition of expected pediatric patients at each site (hospitals, primary sites in the field).
  - Identify pediatric destinations.
  - Estimate number of patients needing transport and patient movement priority decisions.
  - Resource needs for transport, hospital expansion and decompression
  - Any unusual or hazardous environmental exposure
- Provide pediatric care guidance to Operations Section Chief and Medical Care Branch Director based on incident scenario and pediatric response needs.
- · Ensure pediatric patient movement, patient
  - Transport Priority
  - Identification
  - Tracking Procedures,
  - Telehealth.
  - Behavioral Health Support Are Considered And Implemented
- Communicate and coordinate with the Logistics Section Chief to determine pediatric needs:
  - Medical pediatric transport needs. Consider Transfer Centers
  - Medical care equipment and supply needs
  - Medications with pediatric dosing
  - EMS Transportation availability and needs (EMS 911; EMS IFT/CCT) and other cribs, wheel chairs, etc.)
    - Additional Pediatric SME (s) and other Pediatric Teams
- Communicate with the Planning and Logistics Section Chiefs to determine overarching pediatric capability:
  - Regional Hospital Bed availability
  - Ventilators
  - Pediatric Trained medical sub-specialty SME needs (Pediatric Intensivists, MD, RN, PA, NP, PIRT, etc.)
  - Additional short- and long-range pediatric response needs
- Ensure that appropriate pediatric standards of care are being followed in all clinical areas.
   Evaluate need for contingency and crisis standards of care
- Collaborate with the Public Information Officer to develop media and public information messages specific to pediatric surge and care recommendations and treatment
- Participate in briefings and meetings, and contribute to the Incident Action Plan (IAP), MAC, as requested



## STATE & MULTI-JURISDICTIONAL PEDIATRIC SURGE PLAYBOOK

#### INSIDER EXPERTS IDENTIFIED GAPS & INFUSED CONTENT FOR OPERATIONAL PLAYBOOK.

(State & Regional Medical Operations Coordination Centers (MOCCs), WRAP-EM, & regional hospital hubs)

- Outline BROAD RECOMMENDATIONS & OPERATIONAL COURSE OF ACTION
- Describe potential immediate & long-term RESPONSE STRATEGIES
- Outline RESOURCES to support pediatric surge response

Recommendations & strategies are provided at a high-level as needs & resources of impacted communities will vary dramatically.





# HOSPITAL PEDIATRIC SURGE PLAYBOOK SHARED COMPONENTS - GUIDE & TOOLS



- 1. UNIVERSAL OPERATIONAL TOOLS, standard operating procedures, & guidance for state & multi-jurisdiction ICS with Pediatric Advisor Subject Matter Experts & Resources.
- 2. PRIORITY DOMAINS MODELS, PARADIGMS, & MISSION SETS
  - 1. Priority Patient Transfer Patient Tracking & Communications \*
  - 2. Load-balancing
  - 3. Critical Care Expansion Solutions - Across healthcare facilities & systems
    - To ensure highest possible level of care can be provided to all pediatric patients who
      need that care prior to transitioning to crisis measures.

Maximizes & leverages pediatric surge operational capability during catastrophic events across local, state, & regional borders





#### **DOMAIN 1**

# PEDIATRIC HICS INTEGRATION Recommendations into

Concept of Operations (HICS; MOCCs; or PCCCs)

# PEDIATRIC SURGE PLAYBOOK

DOMAINS & MISSION SETS Adapt for Hospitals

#### **DOMAIN 2**

# "UNIVERSALLY GENERALIZED" PEDIATRIC COORDINATION FUNCTION

ADAPTABLE TO ICS

#### **DOMAIN 3**

**Pediatric Capacity & Capability** 

SITUATION AWARENESS REPORTING

#### **DOMAIN 4**

STANDARDIZED PEDIATRIC SURGE DEFINITIONS & TIERS

#### **DOMAIN 5**

#### **Resource Matching:**

Recommendations for Coordinating Pediatric Resources with Critical Needs



# DOMAIN 7

#### **DOMAIN 6**

PEDIATRIC LOAD LEVELING

CRITICAL CARE EXPANSION & DECOMPRESSION OPTIONS

# **DOMAIN 8**

STRATEGIES FOR PEDIATRIC

SURGE

**PATIENT MOVEMENT: PRIORITY** 

**SECONDARY TRANSFER** 

PRIORITY OPERATIONAL COURSE OF ACTION:

**BEHAVIORAL HEALTH** 

# SURGE PLAYBOOK

**PEDIATRIC** 

\_\_\_\_\_

DOMAINS & MISSION SETS

#### **DOMAIN 9**

PRIORITY OPERATIONAL COURSE OF ACTION:

Telehealth, Contingency Standards of Care, Family Resource Centers

#### **DOMAIN '10**

**INCIDENT RESPONSE GUIDES & HVAs** 



# Designated Pediatric SME Advisor What Is your Operational Course of Action?



<b>DOMAINS</b>	Situation	Mission	Decision	_	Resources	Preferred		l
	Assessment	Goal /	Options	tio	&	Action	2 2	
	/ Needs	Objectives		<u>i</u>	SME		<u>.</u> 9	
		/ Needs		C	Access		<u>a</u> c	
				es	(Including		∢ ⊢	
					WRAP-EM)			

#### **Domain 1**

- ICS Pediatric Integration & Coordination:
  - Recommendations and a concept of operations for the many aspects of pediatric surge as they fit within an overall regional, state, or multi-state disaster response
- Integrate Pediatric MOCC components
   (Examples: Pediatric Integration in WA-MOCC; MI-MOCC)
- Establish Pediatric MOCC or PCCC
- HICS



Providing Leadership in

#### CHA Hospital Activation of the Emergency Operations Plan Checklist

The initial response to an emergency begins with recognition that an incident may, or has, occurred. In cases where the incident is likely to impact or disrupt routine operations and may require coordination of efforts and response involvement among hospitals, Health Care Coalition partners, EMS, public health, and environmental health. Key management issues involving situational status, incident characteristics and resource capabilities must be quickly determined and communicated amongst response partners in order to establish a common operating picture.

1.	Activation	Date/Time	Initials
A.	Initiate policy and procedure for activation of the Emergency Operations Plan		
В.	Activate Hospital Command Center		
C.	Activate Hospital Incident Management Team		
	<ul> <li>Incident Commander activates needed positions down to the Chief Level and holds an initial briefing</li> </ul>		
	<ul> <li>Each Chief (Operations/Planning/Logistics/Finance) activates needed Branches/Units in their Section</li> </ul>		
	Provide Job Action Sheet to each activated position		
	<ul> <li>Provide HICS 214 Activity Log to each activated position. Each activated position initiates the 214 to document basic incident activity and details notable details.</li> </ul>		
	Provide position identification (e.g. vests, hats)		
D.	Provide associated HICS Incident Response Guides (IRG) to each Chief and above position as appropriate		



# PLAYBOOK: INTEGRATES CALIFORNIA PEDIATRIC SURGE PLAN

Perinatal, Neonatal, and Pediatric
Surge Annex
to the
California Patient Movement Plan

September 2021





**GOAL:** California Pediatric Surge Concept of Operations (CONOPS) & Function-specific Annex to Support Response

#### —— BUILT ON CAPACITY MODEL ——

- Establish Catchment Areas Around Regional Hospital
- Identify Regional Health System Hubs to Authorize Patient Movement
- Integrate Transfer Centers with Tiered Hospitals Around Levels of Care
- Expectations Beyond National Pediatric Readiness Project (NPRP)
- Plan = Response CONOPS with Response Partners (i.e. Telehealth)
- Patient Movement Decision Coordination for Transfers with Pediatric Tiers & SMEs; Integrate TRAIN
- Promote Connectivity Across States & Coalitions EOCs
- Ensure "Day-to-day" & Surge Pediatric Assets Living Plan Daily

California Department of Public Health (CDPH)
California EMS Authority (EMSA)

Richard O. Johnson, M.D., MPH, FAAP, Facilitator Tricia Blocher, Deputy Director, EPO, CDPH Craig Johnson, Chief, Disaster Medical Services Division, EMSA



## PLAYBOOK INTEGRATES CALIFORNIA PEDIATRIC SURGE PLAN & EOM

# California Public Health and Medical Emergency Operations Manual







JULY 2011

# Right Patient, Right EMS Resource, Right Destination

- Leverage & integrate CA state & regional pediatric medical surge plans with coalitions, patient movement plans; coordinate ESF8
- Ensure best utilization of region's pediatric resources;
- Maximize every asset at all levels of capabilities for all hospitals (including Trauma & PICU, NICU)
- Recognize coordinated & integrated response requires state ICS; Regional Disaster Medical / Health Coordinator (RDMHS); & Medical/Health Operational Area Coordinator (MHOAC)
- Strive to equitably maximize # of children receiving appropriate level of care (at pediatric & adult hospitals)





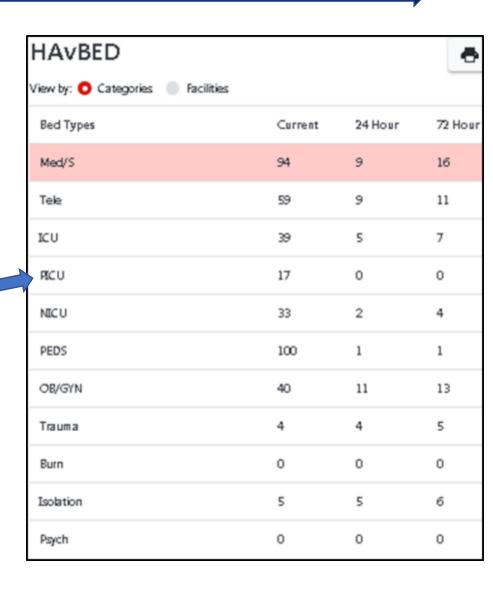
## PLAYBOOK INTEGRATES COALITION PEDIATRIC SURGE ANNEX

Hospital requirements provides direction for health system hubs & hospitals

## RISKS, MAPPING PEDIATRIC ASSETS, & CONOPS

Hospitals, Other HCFs, & EMS - Components

- Hospital capacity for pediatrics (i.e. PICU, NICU) Surveillance
- Hospitals to facility TIER based on current capacity
- Pediatric Readiness to tiering & expansion
- Supply vendors for pediatric-specific equipment
- Transport (EMS & specialized transfer capabilities)
- Coordination with dedicated children's hospital, trauma Centers,
   & hospitals with PICUs \*
- Surge inpatient/referral & transport resources; MCI -Patient Tracking
- Prioritization method for specialty transfers
- Process for accessing pediatric experts in prioritization
- Prepared to care-in-place at non-pediatric centers

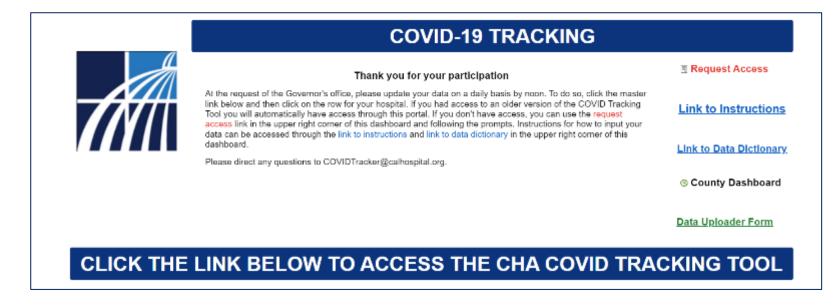


# COVID-19 CHANGES THE "PLAYBOOK" LANDSCAPE "Children are No Longer Hidden Victims"

#### **COVID-19 HOSPITAL REPORTING REQUIREMENTS**

Hospitals, Hospital Laboratory, & Acute Care Facility Data

# Situation Awareness Tools



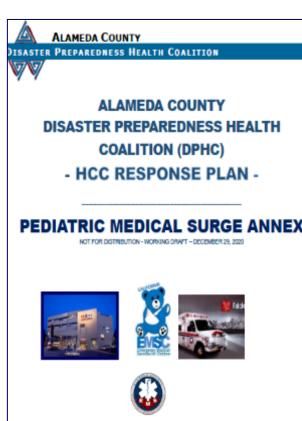
- CHA & California Department of Public Health developed <u>COVID-19 Tracking</u>
   <u>Tool</u> for collecting hospital information.
- CDPH requires hospitals to report data via tracking tool
- CDPH then shares information with U.S. Department of Health & Human Services



## **LOCAL & REGIONAL PEDATRIC SURGE ANNEX**

## HPP HEALTHCARE COALITION & HOSPITAL RECOMMENDATION

SECTION 2 - CONCEPT OF OPERATIONS - RESPONSE							
2.1 Command and Mutual Aid Organizations (include Situation Awarenes; Comms, Direction							
2.2	Situation Report, Activation and Notifications						
	2.1.1 Activation / Levels of Activation (include WRAP-EM Based Capabilities)						
	- SME Integration						
	2.1.2 Notifications						
	Regional EMS Activation and Notifications Pathway—Operational Response						
2.3	Roles & Responsibilities - Region Jurisdiction Coalition (Situation Awareness)						
2.4	LOGISTICS						
	2.4.1 Surge Definitions 4Ss / 3Cs						
	- Space						
	- Staff (PECCs; SMEs; Pediatric Clinicians)						
	- Supplies (Caches)						
	2.4.2 Pediatric Critical Care Expansion Plan						
	Pediatric Critical Care Expansion Options – Operational Response Tool						



2.5	SPECIAL CONSIDERATIONS - EVENT SPECIFIC
	2.5.1 Behavioral Health
	2.5.2 Decontamination
	2.5.3 Evacuation
	2.5.4 Specialty Pathogens / Infection Control / COVID-19
	2.5.5 Security
	2.5.6 Special Needs
	2.5.7 Burns
2.6	OPERATIONS - MEDICAL CARE & PATIENT MOVEMENT
	2.6.1 Triage
	2.6.2 Treatment / Medical Care
2.7	TRANSPORTATION (includes TRAIN) - Patient Tracking
	SECONDARY TRANSFER ACTIONS – USING PIRT AND EEIS
2.8	TRACKING
2.9	REUNIFICATION

#### **EMS PEDIATRIC PRIOITY OPERATIONAL RESPONSE TOOLS**

PEDIATRIC EMS ACTIVATION CHECKLIST

**PATIENT EVACUATION TRANSFER FORM** 



## PEDIATRIC SURGE EXPANSION MODELS

PANDEMIC – 3Cs OPTIONS

Morbidity and Incident demands

# California Hospital Association

Increasing

#### Contingency

- Institutional level loading: direct patient transports to like institutions with remaining capacity consistent with EMTALA requirements
- Upstaffing with licensed outside support (travelers, per diem); expansion of scope of practice
- Compare current staffing contingencies at hospitals within area to ensure consistent level of care provided as possible
- Activate telemedicine & outpatient resources to support acute care needs

		Conventional	Contingency	Crisis		
	Space	Usual patient care spaces maximized	Patient care areas re-purposed (PACU, monitored units for ICU-level care)	Non-traditional areas used for critical care or facility damage does not permit usual critical care		
	Staff	Additional staff called in as needed	Staff extension (supervision of larger number of patients, changes in responsibilities, documentation, etc')	Insufficient ICU trained staff available/unable to care for volume of patients, care team model required & expanded scope		
	Supplies	Cached/on-hand supplies	Conservation, adaptation and substitution of supplies with selected re-use of supplies when safe	Critical supplies lacking, possible allocation/reallocation or lifesaving resources		
 	Standard of care	Usual care	Minimal impact on usual patient care practices	Not consistent with usual standards of care (Mass Critical Care)		
	ICU expansion goal	X 1.2 usual capacity (20%)	X 2 usual capacity (100%)	X 3 usual capacity (200%)		
	Resources	Local	Regional/State	National		



Normal

**Operating Conditions** 

Extreme



# CALIFORNIA ALAMEDA COUNTY MEDICAL SURGE PROPOSED EMS INTERVENTIONS

## CRITICAL CARE EXPANSION MODELS — OPTIONS

- 1. Hospitals increase pediatric beds by <u>5%</u> above total licensed beds
- 2. Hospitals with ICU & PICU double numbers of staffed beds
- 3. Hospitals take **5 additional patients** in their ICU & PICU
- 4. Hospitals increase bed capacity by 10%-20% above licensed beds



Consider criteria for pediatrics that define children at greatest need for pediatric specialty care (i.e., complex congenital conditions, children with special needs, neonates) with Pediatric advisors

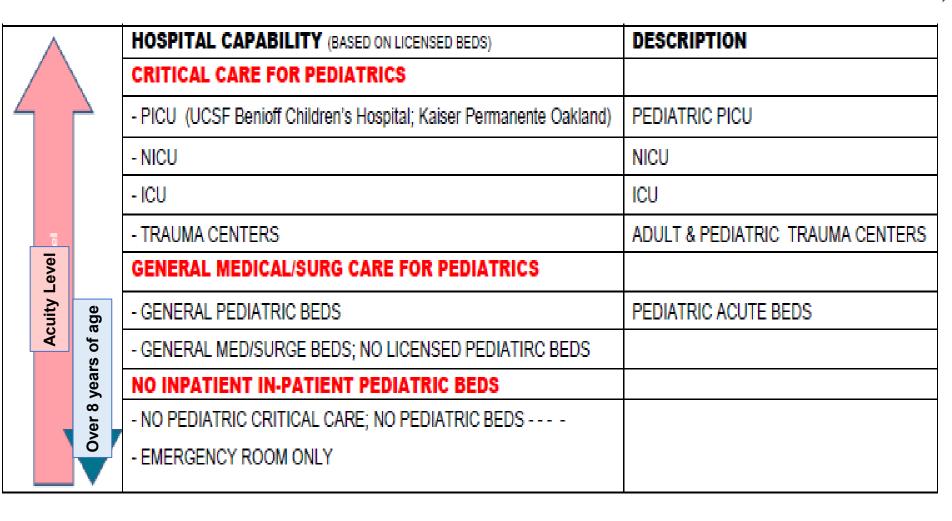


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# ALAMEDA COUNTY MEDICAL SURGE PLAN CRITICAL CARE EXPANSION MODELS — OPTIONS

# **EMS**Intervention

Pediatric Surge Bed Preservation Model





**Pediatric Bed** Decompression & Expansion Load Leveling

Pedi Inpatient Bed **Expansion 0-12 yrs** 

**Pediatric** Regional Center

**Pedi Inpatient Bed Expansion 0-1 yr** 

**Pedi Inpatient Bed** Expansion >12-14 yrs

**Community Hospitals with** Nsy/NICU Capacity

**Community** Hospitals with **Pediatric** Units

PICU/Complex **Care Bed** Expansion 0-12 yrs

**Pedi ED Boarding** 0-14 yrs

All Community **Emergency Departments** 

**Community** No Pediatric Capacity

EXPansion



scan to Join NPDC https://www.npdcoalition.org/

Courtesy of Patricia Frost PNP Vice Chair **National Pediatric Disaster Coalition** 

Hospitals with



# HEALTHCARE COALITION PEDIATRIC SURGE SCENARIOS

**Triggers for Pediatric Regional Bed Expansion** 



CAPABILITY

RESPONSE READY

RATE
&
SCALE
OF
DEMAND
FOR
PEDIATRIC
BED
CAPACITY

Pediatric Surge Within Community Disaster e.g. Pandemic, BioTerrorism, Earthquake "Doing the Best You Can With What You Have"

A rapid sudden need for pediatric critical care. Pediatric load leveling e.g. Pediatric MCI, School Shooting, Bus Accident Pediatric Referral Center
Saturation. May occur
rapidly or incrementally
e.g. Pedi center offloading
or evacuation

Prolonged Periods of Saturation Reaching Limits of Local Resources Supported by Local Mutual Aid e.g. Prolonged ED boarding, Inpatient bed Expansion)

Intermittent Periods of Pediatric Bed Saturation
Children 30-50% of ED visits + 10-15 % admission rate
e.g H1N1

Normal Operations
Children 18-25% of ED visits + <10% admission rate

Courtesy of
Patricia Frost PNP Vice
Chair National Pediatric
Disaster Coalition

# CALIFORNIA - ALAMEDA COUNTY EMERGENCY OPERATIONS CENTER (EOC)



**ACTIVATION & ON-GOING RESPONSE** 

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# LINK WITH OPERATIONAL AREA (OA) MEDICAL OPERATIONAL AREA COORDINATOR (MHOAC)

OA EOC Children's SMEs **Effective Decisions** 

Coordinate with EMS
Procurement Center for Pediatrics

Coordinate with critical care pediatric consultant (to Regional Healthcare Hubs, Hospital HICS, Transfer Centers, & Jurisdiction ICS) to engage in decision-making





#### MEDICAL-TECHNICAL SPECIALIST: PEDIATRIC CARE

Mission: Advise the Incident Commander or Section Chief, as assigned, on issues related to per care.

Position Reports to: Incident Commander Con	mand Location:		
Position Contact Information: Phone: () -	Radio Channel:		
Hospital Command Center (HCC): Phone: ()	Fax: ()_	-	
Position Assigned to:	Date: / /	Start::	hrs.
Signature:	Initials:	End::	hrs.
Position Assigned to:	Date: / /	Start::	hrs.
Signature:	Initials:	End:;	hrs.
Position Assigned to:	Date: / /	Start::	hrs.
Signature:	Initials:	End::	hrs.

Receive appointment Obtain a briefing from the Incident Commander on: Size and complexity of the incident Expectations of the Incident Commander Incident objectives Involvement of outside agencies, stakeholders, and organizations The situation, incident activities, and any special concerns Assume the role of Medical-Technical Specialist: Pediatric Care Review this Job Action Sheet Put on position identification (e.g., position vest) Notify your usual supervisor of your assignment	
Assess the operational situation  • Assess hospital pediatric staff availability and resources  • Provide information to the Incident Commander regarding the pediatric staff situation including capabilities and limitations	
Meet with the Incident Commander, Operations and Planning Section Chiefs, and the Operations Section Medical Care Branch Director to plan for and project pediatric patient care needs     Verify with the emergency department leadership and report the following to the Incident Commander:	



MEDICAL-TECHNICAL SPECIALIST: PEDIATRIC CARE

HICS 260 –
PATIENT EVACUATION /
TRANSFER
TRACKING FORM



	HICS 260 - PATIENT EVACUATION/TRANSFER TRACKING FORM										
			2. From (H	lospital	Address):				Unit		
)	Name			4. Medical Record Number			Number				
		Age		Weigh	t	6.	Diagnosis				
	Friend No	tified	YES ONO N	ME:			٥	ONTACT INFORMATION:			
	f Transpo	rt:				9.	Accompanying E	Equipment (check thos	e that apply	below):	
Hospit	al Bed	_	Wheelchal				Bag/Mask with T	ubing Sent		flac Mon	
Crib			Ambulator	1		- 1-	CPAP/BIPAP			e Oxime	
<ul> <li>Isolett</li> </ul>	e/Warmer		Evacuation	Device	•		Ventilator, Type			id-alone	)
Gume	y		Other:				Arterial Line / Sw		☐ Trac		
							# Volume Pump Other:		_ Cone	_	_
10. Tria	ge Categor	v					Minim	nal/Moderate Aculty/AL	8 Transport	& Care	
	_	_	on-EMS Tran	sport/I	Discharge		_	rate/Critical aculty/AL8	_		
İ	Stable/L	ow aculty/	BLS Transpo	nt & Ca			□ Sever	re/Critical aculty/ALS Ti			
11. Isola	stion	YES -	NO TYPE:					REASON:			
			Clinical Loc	ation			13. Arriving Location				
•	hysician and	Contact #					Receiving Physician and Contact #				
ROOM #			TIME				ROOM # TIME				
	ONFIRMED BY:				- YES		ID BAND CONFIRMED BY:			□ ¥®S	
MEDICAL R	ECORD SENT		YES, Electro			od appendis)	(A) MEDICAL RECORD RECEIVED			- Yes	□ NO
BELONGIN	GS		□ WITH PATE	DIT	- LEFT IN	NROOM	BELONGINGS RECEIVED			O YES	□ NO
VALUABLE	15		WITH PATE	DAT	□ LEFT IN	N SAFE	VALUABLES RECEIVED			□ YES	□ NO
MEDICATIO			□ MITH PATR	MT	DUIFTO	WINT	MEDICATIONS REC	CERTIFIC		O YES	THO.
Attach med					PHARM		Verify attached to				
		PED8/	INFANTS					PEDS / INFANT	8		
APPROPRI	ATE BYM WIT	UBING & BUL	B SYRINGE: SE	NT	☐ YES	MO	APPROPRIATE BY	VM W/ TUBING & BULB SYRIN	GE: ROVD	YES	□ NO
OTHER EQ	UPMENT SEN	T:			- YES	MO	OTHER BOUIPME	NT RECEIVED:		YES	□ NO
14. Tran	sferring to	another i	Facility / Dec	stinatio	n (name	):					
Destinat	ion (addres	s):					Point of Conta	ct name/phone#:			
TIME TO STAGING AREA: TIME LOADING COMPLETED:											
TRANSPORTATION AMBULANCE, # AGENCY:								HELICOPTER	OTHER	R	
ID BAND O	ONFIRMED	YES   N	O BY					DEPARTURE TIME:			
	CENTER & CO	NTACT #:					SENDING HOSPITA	AL PAX OR EMAIL CONFIRMA	TION SENT: []	169 DI	WO
16. Prep	pared by		PRINTNAME:_					SIGNATURE:			— Т
			DATE/TME:					FACUTY:			_



Purpose: Detail and account for patients transferred to another facility Origination: inpatient/Outpatient Unit Leader or Casualty Care Unit Leader Place sending facility patient label



HICS 2014 | Page 1 of 4

HINGSPIN

Immediate Response (0 – 2 hours)



#### NATIONAL PEDIATRIC READINESS PROJECT

Promote National Quality Improvement (QI) Efforts - Hospitals



#### **PEDIATRIC CHAMPIONS**

**Pediatric Emergency Care Coordinators (PECCs)** 

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

#### **Disaster plan includes:**

- Pediatric surge capacity for injured & non-injured children; considerations (e.g., patient tracking; reunification, & peds decontamination):
  - Availability of medications, vaccines, equipment, supplies, & trained providers for children
  - Access to behavioral health resources for children
  - Minimization of parent-child separation & methods for reuniting children
  - All disaster drills include pediatric patients



https://media.emscimprovement.center/documents/EIICDisasterChecklist 2022.04.11.pdf

**Supports California EMSC Regulations** 

https://emsa.ca.gov/ems-for-children/



#### **ALAMEDA COUNTY EMS HOSPITAL PEDIATRIC READINESS PROJECT - SITE VISITS**

## **GOALS**

- To conduct assessment of ED pediatric readiness ("Day-to-Day" & Surge Events)
- To review site-visit self-assessment tool (support NPRP)
- To gather pediatric data per the CA EMS for Children Regulations for quality improvement
- To conduct in-situ pediatric simulations
- To provide expert feedback, identify opportunities for improvement & pediatric hospital designation.
- To facilitate on-going collaboration & future training

#### **HOSPITAL TARGET GROUP**

- ED Managers, Directors, PECCs, & Staff
- Pediatric Intensivist & Pediatric Champion SMEs
- Emergency Preparedness & Safety Leads
- Administration



# **Neonatal/Pediatric TRAIN™ Tool**



Transport	Blue/Car	Green/BLS	Yellow/ALS	Orange/ CCT	Red/ Specialized				
Life Support	Stable	Stable +	Minimal	Moderate	Maximal				
Mobility	Car/Carseat	Wheelchair or Stretcher	Wheelchair or Stretcher	Stretcher	Incubator or Immobile				
Nutrition	All PO	Intermittent Enteral	Continuous Enteral or Partial Parenteral	TPN Dependent					
Pharmacy	PO Meds	IV Intermit meds	IV Fluids	IV Drip x1	IV Drip ≥2				
	Stable + =	Low flow oxygen							
	Minimal =	Oxygen hood, chest tube, etc.							
Life Support	Moderate =	CPAP/BiPAP/Hi-Flow, Conventional Ventilator, Peritoneal Dialysis, Externally paced, continuous nebulizer treatments, etc.							
	Maximal =	Highly specialized equipt., e.g., Neonatal Ventilator, HFOV, ECMO, iNO, CVVH, Berlin Heart, wt ≤ 1.5 kg, specialized medical personnel, etc.							
	Car/Carseat =	Able to ride in auto	mobile with age-approp	riate restraints					
Mobility	Incubator =	Transport incubator	with equipment for cor	nnecting to ambulanc	e				
	Immobile =	Unsafe to move without special equipment e.g., neurosurgical/bariatric EVACUATION ("							

**TRAIN (Triage by Resource Allocation for In-patients)** 





C	EVACUATION ("TRAIN" Categories)	TOTAL
		COUNT
	Ambulatory to Evacuate	
	BLS to Evacuate	
	ALS to Evacuate	
	CCT	
	SPECIALIZED	

**EVACUATION** 

#### **REGIONAL PEDIATRIC SURGE – MOMENTUM INTO THE FUTURE**

#### TRANSLATING EFFECTIVE PLANS INTO OPERATIONAL REGIONAL ACTION

- Implement PLAYBOOK components "day to day" with response partners
- Coordinate & integrate collective health system corporate command & coalitions
- Test pediatric CONOPS across jurisdictions
- Join WRAP-EM & other Regional Alliances; Connect across states & coalitions
- Expectations beyond NPRP for pediatric surge readiness Use site visits & Pediatric Emergency Care Coordinators (PECCs)
- Use Operational "Just in Time" Tools (i.e., Activation, Expansion, Telehealth & Burn)
- Ensure plans realistic to address simultaneous complex catastrophic events
- COVID changing landscape & new baseline Expand partners
- Campaign to inspire & strengthen regional surge pediatric emergency response





#### **DRIVING PEDIATRIC READINESS ACTION**



#### CYNTHIA FRANKEL, RN, MN

- Surge Group Lead, WRAP-EM
- EMS for Children, ReddiNet, HPP LEMSA Liaison & EMS Coordinator
- Alameda County Emergency Medical Services, California
- (510) 295-9601; Cynthia.Frankel@acgov.org
- http://ems.acgov.org/ClinicalProcedures/EMS-C.page?

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WRAP-EM https://wrap-em.org/

#### NATIONAL PEDIATRIC READINESS PROJECT (NPRP)

- https://emscimprovement.center/projects/pediatricreadiness/
  - Readiness Toolkit EIIC (emscimprovement.center)

#### NATIONAL PEDIATRIC DISASTER COALITION

http://www.npdcoalition.org/resources/

#### NATIONAL ADVISORY COMMITTEE ON CHILDREN & DISASTERS

https://www.phe.gov/Preparedness/legal/boards/naccd/Pages/default.aspx



https://www.canva.com



## PEDIATRIC SURGE DISASTER PLANNING

Michael Frogel, MD, FAAP
Senior Advisor ASPR WRAP-EM Pediatric Center of Excellence
Chairman National Pediatric Disaster Coalition
Co-Principal Investigator NYC Pediatric





# **Summary Pediatric Surge Planning Considerations**

- Pre-event Planning is necessary for Surge, Evacuation, Shelter in Place and Supply Chain for Hospitals/ED/NICU/PICU/Ob/Newborn/General, Long Term Care Facilities and Community-Based Providers (OPD, Urgent Care etc.), Schools, Daycare
- Surge Capability includes Communications Space, Staff, Equipment and Supplies not just beds
- Plan from initial site incident through primary, secondary transport, surge and or evacuation
- For Transport: Tier Facilities and Utilize a Pediatric Care Response Team to prioritize patients
- Electronic shared situational awareness, Web based bed matching capabilities
- Utilize Pediatric EEIs from transferring (evacuating) to receiving surge facility
- Match patient transport needs to available resources (e.g. Train)

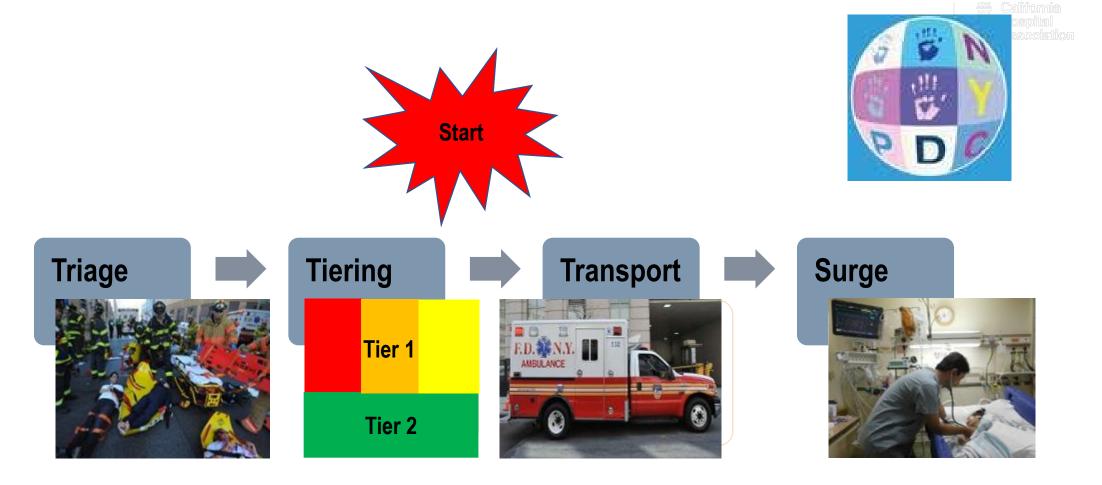


# **Summary (cont.)**



- Consider Supply Chain including, Pharmaceuticals /Therapeutics, Equipment (Evacuation/vents)
- Provide SME experts for SME, Trauma/Burns, Poison control, patient prioritization, Pediatric
   Intensivist Response Team (PIRT) etc.
- ESF8 real time participation (include above SME representation)
- ESF6, ESF7, interaction, Non-medical impacts, Food, Shelter, Clothing
- Mental Health Response Hospital/Community Providers/School: Screen/Refer (e.g. PsyStart),
   Treatment
- Education
- Training e.g. Pediatric NICU Evacuation
- Health Care Disparities
- Exercises/ Real World Events/Lessons Learned-Restart Planning Cycle





The Pediatric Disaster Coalition and their collaborative planning team created a comprehensive Pediatric Disaster Plan from the onset of the event and first response through pediatric intensive care surge.





# Pediatric Intensivist Response Team (PIRT)

- Provides prioritization triage consultation service to EMS for inter-facility transfer of patients and SME during disasters
- Volunteer Pediatric Intensivists
- Serve under Medical Reserve Corps umbrella
- All currently practice in PICUs





## PIRT's Role in the Pediatric Disaster Plan

- Upon activation of the Pediatric Disaster Plan, sending hospital will contact EMS to request a transfer
- 2. EMS will collect basic data and details of patient's injuries or illness
- 3. EMS will relay the request and information to PIRT Physician on call
- 4. PIRT Physician will triage/prioritize the patients based on acuity and need for specialized services, and relay this information to EMS
- 5. New York City Fire Department Bureau of Emergency Medical Services (FDNY EMS) will use this information as well as the list of available beds in Tiered Pediatric Disaster Admitting Destinations to determine inter-facility transfer destinations





# **Secondary Transport Details**

- 6. EMS will assign Pediatric Disaster Ambulance Destination
- 7. Sending physician will then speak with receiving PDAD physician
- 8. EMS will utilize available resources to match patient needs to transport resources. e.g. TRAIN (Triage by Resource Allocation for IN-patients)
- 9. EMS may also use specialized pediatric transport services if available
- 10. EMS will be notified upon completion of transfer



## **Patient Information Shared between FDNY & PIRT**

- A. Patient identifier
- B. Patient age or size (infant, toddler, child, adolescent)
- C. Nature of injury/injuries
- D. Respiratory Support
- E. Medications
  - Chronic
  - Currently administered



## **PIRT SME Activities**

- Advisory Board to the Pediatric Disaster Coalition
- PDC, PIRT and Pediatric Critical Care Society provide SME to
  - Department of Health and Mental Hygiene (DOHMH)
  - ESF8



# Pediatric Essential Elements for the Transport of Pediatric Patients Model Draft

# <u>Utilization Guidance for the Collection and Reporting of the Pediatric Essential Elements of Information for Secondary Transport:</u>

- EEIs should be utilized based on your local Pediatric Disaster Plan for secondary transport of patients
- Transferring facility collects the patient related EEI data and transmits it to the transfer center and the
  receiving facility. The receiving facility provides the facility related EEI data to the transfer center and
  sending facility.
- If patient needs are potentially met. The sending physician will speak to the receiving physician, confirm the information and notify the transfer center to proceed.
- Transfer will take place if the patient care needs are matched by the facility available capabilities.
- The transfer center will decide on the type of transport need based on the transmitted EEIs (e.g. TRAIN) and transfer the patient to the appropriate level of care at a facility designated in the EEIs (e.g. Trauma, Burn Tiered facilities in your plan, neonatal Level 1-4 etc.).





# Pediatric Essential Elements for Transport of Pediatric Patients Model Draft (cont.)

- If there are limited transport capabilities due to magnitude of the disaster the transfer center will contact the Pediatric Intensivist Response Team (PIRT) physician on call to prioritize the patients based on their EEIs (clinical severity, treatment, subspecialty and equipment needs).
- The transfer center will decide on the site and type of transport need based on the PIRT recommendations and EEIs.
- The collection of information should be done electronically preferably by email web-based platform or text that is accessible to both facilities and the transfer center.
- For citywide large scale events overall facility surge capacity based on the EEI current facility information would allow for best overall outcomes.
- In the event of a power or computer system failure a paper back up system should be utilized. If possible, the patient's complete medical record should accompany them to the receiving facility.



## **EEI Spreadsheet (Sending/Receiving Hospitals) Example**



Sending hospital/contact number/requesting physician Receiving Hospital contact number/receiving physician

- Type of Facility and/or Unit
- Trauma Center, (General Level 1, Level 2, Pediatric Level 1, 2
- Burn Center
- Pediatric Ambulance Destination (Tier 1, Tier 2)
- Neonatal Unit Level 1-4 (Refer to Neonatal reference for description)
- Newborn
- PICU
- PICU Vent
- Peds Med/Surgery/Telemetry
- Physical Rehab Peds
- Psychiatry Peds

 Surge Beds include capability to care for patient type including space staff equipment

#### **Subspecialty Availability**

Pediatric orthopedics ,Pediatric vascular surgery, Pediatric trauma surgery, Pediatric general surgery

Burns, Pediatric ophthalmology, Pediatric mental health psychiatry, Pediatric cardiothoracic Surgery

Pediatric neurology, Pediatric neurosurgery, Pediatric ENT, Re-Implant (Please advise If body part available, Properly maintained)

- Other (specify)
- Specialized Equipment Availability
- ECMO, Neonatal Ventilator, Inhaled Nitrous Oxygen (iNO), High Frequency Oscillating Ventilator, Berlin Heart (Ventricular Assist Device)
- Continuous Veno-Venous Hemofiltration, Incubator
- Other (please specify)





# **EEI Spreadsheet (Patient Information e.g.)**

Parental consent for treatment

**Accompanying Family Member** 

**Primary diagnosis** 

**Co-morbidities** 

**Chronic Conditions** 

**Current Medications** 

VS, Glasgow coma scale, 02 Saturation, ETCO2,

**Pupils** 

**Burn:** thermal, chemical, electrical, Depth, location If chest or extremity, circumferential? (potential for compartment syndrome/need for escharotomy)

**Critical Imaging Findings** 

**Critical Lab Findings** 

**Treatment / Current Interventions** 

Type of Care by Unit Need

**Subspecialty Need** 

**Special Equipment Need (ECMO, Vent etc.)** 

**Specialized Transport Need (TALS, TRAIN)** 



# **Supply Chain Considerations**



### **Pharmaceuticals / Therapeutics**

Immediate vs. delayed availability based on HVA Countermeasures vs. Intravenous immunoglobulin (IVIG) for Multisystem Inflammatory Syndrome in Children (MISC)

### **Equipment**

Evacuation: Vertical/Horizontal, NICU, PICU, OB/Newborn

Respiratory: Oxygen, BiPAP, CPAP, Ventilators

**Blood Supply** 

#### **Non-Medical**

Food

Clothing

Shelter



### **SME Considerations**



- General Pediatric SME
- Trauma
- Burns
- CBRN Explosions, Utilize Poison Control,
- Develop Just in Time Training
- Transport Patient Prioritization by Pediatric
   Intensive Care Response Team
- Specialized Mobile Response Teams





## **Pediatric Disaster Mental Health Considerations**

- Mental Health Response Hospital/Community Providers/School
- Immediate vs. Long Term Response
- Psychological First Aid
- Screen (Scene, shelters and transfer facilities, Primary Care Providers, Schools)
- Refer (e.g.PsyStart)
- Treatment: Short vs Long Term





# **Education and Training**

#### Education

- Pediatric Advanced Life Suppoty (PALS), Advanced Pediatric Life Support (APLS), Disaster
- Training e.g.
  - Expand PICU capabilities force multiplication
    - Pediatric Fundamental Critical Care Support (PFCCS) Course, Cross train staff
    - Pediatric NICU Evacuation





# **Health Care Disparities Considerations**

- Pediatrics: 25% of Population and most vulnerable with special needs during disasters
- Poverty
- Lack of Access or Functional Capability
- Long Term Care Facilities
- Racial, Ethnic
- Language Barriers
- Lack of Healthcare Information
- Relationships
- Include in all disaster planning







- Exercises (Integrate pediatrics into all exercises)
  - Tabletop
  - Functional (targeted)
  - Full Scale
  - Real World Events
- Include Health Care Disparities in Scenarios
- After Action Reports
- Lessons Learned
- Restart Planning Cycle



# Planning is a Continuous Process Consider Resiliency Building in Process







# **Exercise Description**

**Description:** This exercise was a functional exercise (virtual) planned for a maximum of six hours for exercise play and Hot Wash activity. The exercise included 28 hospitals that care for pediatric patients in New York City and the following agencies; New York Fire Department (FDNY), New York City Emergency Management (NYCEM), the New York City Department of Health and Mental Hygiene (DOHMH), New York City Medical Reserve Corps (MRC) and the Pediatric Intensivist Response Team (PIRT). The exercise was designed to prepare New York City for a catastrophic pediatric event. The scope included hospital surge, communications, activation of the NYC Pediatric Disaster Plan and secondary transport.





## **Exercise Scenario**

**Scenario:** It is a Thursday morning, approximately 8AM, with spring like weather conditions. An explosion of unknown origin occurs on a school bus at a nearby school. Patients begin to arrive to your hospital that have been self-evacuated. You learn from FDNY that several ambulances are headed your way with patients of various acuity levels. Similar incidents have taken place throughout New York City.







# **28 Hospital Exercise Video**

https://youtube/1g1bGj-\_Rb4





# **Key findings from 28 Hospital Surge Exercise Surge Beds/Capacity/Capability**

- Added 1105 Surge Beds (baseline pediatric inpatient unit beds 1039) double capacity
- Added 254 PICU Surge Beds (baseline 224 beds) more than double capacity
- 304 ED Critical Care Surge Beds
- 312 ED Non-Critical Care Surge Beds
- 203 OR Surge beds
- 268 Adult Medical ICU Surge Beds
- 120 Additional Adult Surgical ICU Surge Beds
- 342 Pediatric Ventilator capable surge beds
- NICU total surge beds available after rapid patient discharge 247



# **Key Findings from 28 Hospital Pediatric Surge Exercise**

#### **Communications:**

- Over 70% of the participating hospitals utilized phone calls, emails, text messaging, and face-to-face discussions to communicate situational awareness
- Almost all hospitals were able to communicate with staff and to contact them about coming in during the surge event

### **Supplies:**

- Over half (54%) of participating hospitals reported having gaps in their pediatric supplies during the exercise due to the influx of critical patients
- 6 hospitals reported not having a burn cart to deploy during a disaster



# **Key Findings from MSEL Question Responses (cont.)**

#### **Staffing:**

- Some hospitals had difficulty providing pediatric subspecialty services such as, Neurosurgery, Ear Nose and Throat (ENT), Orthopedics, Plastics, Vascular Surgery and Trauma Surgery
- 100% of Hospitals created Mental Health Response Teams for patients and Staff

#### Transfer:

- All hospitals were able to identify patients requiring secondary transport and to provide information on the transport form
- Only 39% of participating hospitals identified appropriate staff to accompany patients during FDNY secondary transport
- The Fire Department was able to send the Pediatric Intensive Care Review Team a list of patient's
  for secondary transport and subsequently receive the PIRT's triage and prioritization patient list





# **Key Findings from MSEL Question Responses (cont.)**

### **Patient Tracking:**

- 93% of hospitals were able to track patients during the event
- 70% of the participating hospitals utilized paper to track and register patients, approximately 50% also used electronic methods

### **Surge: Mental Health/Risk Communications**

- 100% of hospitals established Family Information Service Centers for Reunification
- 100% of Hospitals created Mental Health Response Teams for patients and Staff
- 100% of Hospitals established an area for press briefings and a designated Public Information Officer



## **Lessons Learned**



- Working directly with hospitals to create and implement pediatric specific surge/evacuation plans as part of overall preparedness improved surge and secondary transport capabilities.
- Conducting multiple group and individual exercise planning meetings yielded many valuable changes in hospital plans even before the exercise took place.
- Assessing the availability of sufficient pediatric subspecialty and intensive care staff for a surge
  of critically ill pediatric patients is necessary for good outcomes.
- Adult staff and surge capabilities should be incorporated into the pediatric surge response, especially at Tier-2 hospitals.
- Disaster mental health issues should be addressed for children, families and hospital staff with the provision of adequate staff and appropriate space.
- A Family Reunification and Information Service Center (FISC) should be part of Surge planning.



# **Lessons Learned (Cont.)**



Preparing sufficient onsite pediatric surge equipment and supplies is essential especially:

Ventilators

Blood/Blood Products

**Burn Supplies** 

- There is a need for "babysitters" to care for pediatric patients throughout the hospital process thereby freeing clinical staff to participate in patient care.
- Site specific areas should be pre-designated and staffed for various surge tasks.
- Begin triaging patients for secondary transport early during a surge event.
- Utilize Ambulatory Care Resources for space staff stuff and integrate into hospital plans.
- It is important to have sufficient personnel to assist the controller/incident commander in data collection, communications and reporting during exercises and real time events.
- Situational awareness and communication with staff and agencies is essential.





# Response: Emergency Management Considerations

ESF8 real time participation (include above SME representation as needed)

ESF6, ESF7, interaction, Non-medical impacts, Food, Shelter, Clothing





# **Resiliency Building**

- Essential pre-event to improve outcomes from disaster physical, psychosocial, disaster mental health impacts
- Should address special needs of the pediatric population in the overall context of disasters for children, their families and the overall population
- Should address health care disparities
- Should become part of disaster mental planning, response and recovery



## Regional Pediatric Surge Planning Proposed Model

- Regional Situational Awareness collected from each state, bed availability, needs/resource availability
- Web based real time situational awareness, communications, bed matching
- Coordination of External Resources, ESF8/ESF6, ESF7, Local, County, State to National (ASPR/FEMA/CDC etc. input)
- Regional Incident Command Structure, Control of Asset across State Lines
- Regional Resource Response Telemedicine, CBRNE/Poison Control, Response Teams,
   National Guard, DOD, mutual aid transport
- Regional PsyStart/ Mental Health match Needs/Resources, local state, regional
- Regional Transport/ Train Utilization match needs to resources
- Education, Training, Exercises within regional model that includes Health Care Disparities and pediatric patients as represented in the population







#### WASHINGTON WMCC and PEDIATRIC SURGE PLAN

Vicki L. Sakata, MD, FAAEM, FAAP
Senior Medical Advisor
Northwest Healthcare Response Network
Clinical Associate Professor, University of Washington
WA-DMAT CMO



# Take aways

- The "joy" of being first...
- Kids ARE just small adults (!) ... and
- What the dogs hears

# Serving the state's medical epicenter



- 15 counties and 25 Tribal Nations
- 5.3 million residents
- 64 hospitals and ~150 skilled nursing facilities
- Nearly 70% of the state's hospital and skilled nursing beds
- Largest concentration of critical medical specialty services in Pacific Northwest





# Snohomish County man has the United States' first known case of the new coronavirus

Jan. 21, 2020 at 10:58 am | Updated March 11, 2020 at 1:08 pm



■ 1 of 3 | At a news conference at the Washington state Department of Health's Public Health Laboratories on Tuesday, Dr. Satish Pillai of the Centers for Disease... (Greg Gilbert / The Seattle Times) More 

✓

By Seattle Times staff & news services

# First Patient With Wuhan Coronavirus Is Identified in the U.S.

A man in Washington State is infected with a new respiratory virus. Federal officials plan to expand screenings for the infection at major airports.









Gov. Jay Inslee of Washington, flanked by health officials in the state, speaking in Shoreline, Wash., on Tuesday. A man in Washington State has the first confirmed case in the United States of the Wuhan coronavirus. Grant Hindsley for The New York Times





# King County patient is first in U.S. to die of COVID-19 as officials scramble to stem spread of novel coronavirus

Feb. 29, 2020 at :0:17 am | Updated March 1, 2020 at 12:33 pm



→ 1 of 24 | King County Executive Dow Constantine addresses the media Monday in Seattle, Constantine said he had signed an emergency declaration and is in the... (Steve Ringman / The Seattle Times) More 

✓

By Sydney Brownstone y, Paige Cornwell y, Mike Lindblom y and Elise Takahama y

Seattle Times staff reporters

#### First death due to novel coronavirus (COVID-19) in a resident of King County

February 29, 2020

#### Summary

Public Health – Seattle & King County and the Washington State Department of Health are announcing new cases of COVID-19, including one death. The individual who died was a man in his 50s with underlying health conditions who had no history of travel or contact with a known COVID-19 case. Public Health is also reporting two cases of COVID-19 virus connected to a long-term care facility in King County.





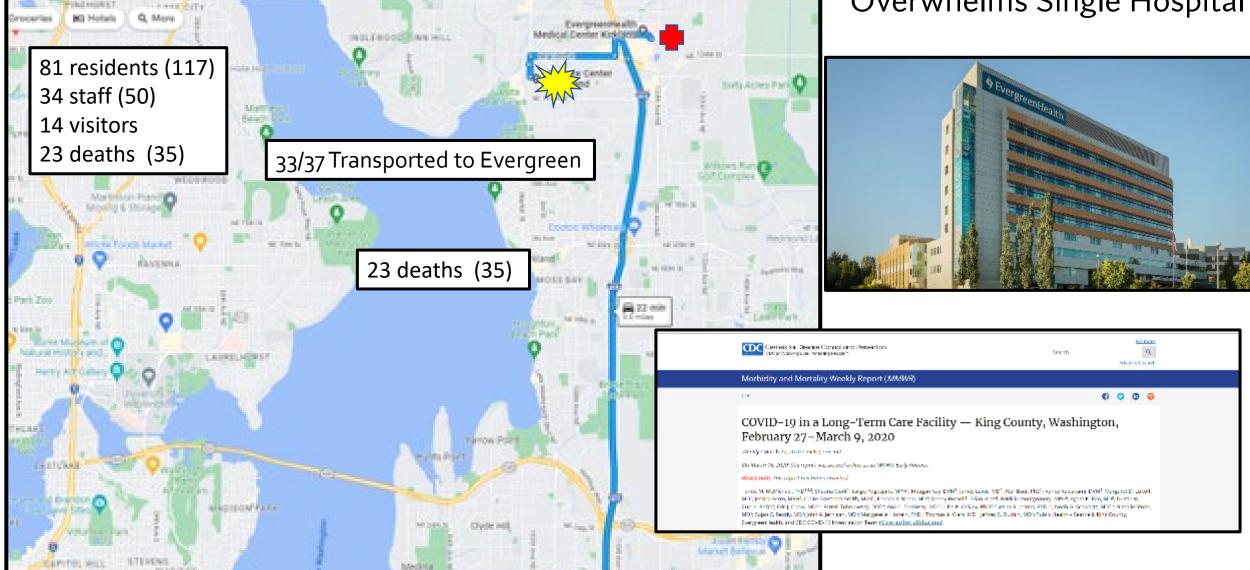






#### Feb 27, 2020





#### WA Medical Coordination Center

Disaster Medical Coordination Center (DMCC)



Regional COVID Coordination Center (RC3)

Harborview Medical Center/King County
Northwest Health Response Network













### What is a MOCC?

#### Medical Operations Coordination Center (cell)

- Facilitate patient movement, healthcare staffing, and life-saving resource allocation
- MOCCs are cells often located within emergency operations centers (EOCs) at the substate regional, state-wide, and federal regional levels (FEMA/HHS regions)

#### A MOCC AIMS TO:

Medical Operations Coordination Cells Toolkit Second Edition https://files.asprtracie.hhs.gov/documents/fema-mocc-toolkit.pdf

Move patients, staff, and supplies



at the right **time**, in the right **way** 



to improve patient well-being



Equity



# State Coordination Strategies

 Coordination across all aspects of Washington healthcare leadership

#### Governmental/regulatory/Public Health

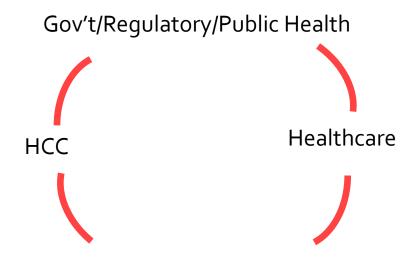
 Governor, DOH, Sec of Health, WA State Health Officer; LHJs

#### Healthcare Facilities

 WA Hospital Association (WSHA), Health System Executive Leadership; LTC

#### Healthcare coalitions

 Northwest Healthcare Response Network, RFDI Network



Key Healthcare Partners: Hospital Associations; Professional Organization; Clinical Societies



#### Plan for Success: Agree on Basic Operating Principles



- All entities must <u>agree to submit data</u> to support situational awareness and respond in a <u>timely</u> manner
- All entities must agree to provide staff who can communicate with each other and communicate back with their organizations to <u>individuals with authority to make decisions</u>.
- Acute care facilities <u>agree to accept patients based on the triage decisions of the MOCC</u>
- Facilities agree to minimize the number of "reserved" or "closed" beds and maximize additional surge capacity
- Agree that patients <u>may need to travel long distances</u> to align with fair and equitable processes
- Facilities seeking assistance will establish communication with the MOCC <u>as early as possible</u> and all patient transfers related to the incident (COVID-19) will be coordinated through the RMOC during this crisis.
- Aeromedical services and EMS ground transport agencies agree to support patient movement as directed by the MOCC
- All representatives agree to participate in regular "virtual" briefings and hold each other accountable
  for the principles and processes previously described



## Guaranteed Acceptance Policy



- Activated when the "highest urgency" patients cannot be placed
- WMCC Triage Categories
  - High Urgency: expected clinical decline 8-12 hours
    - Example: : cardiogenic shock in need of CABG, GI bleeding requiring frequent transfusion, impacted and infected kidney stone with sepsis
  - Moderate Urgency (stable, no urgent procedure/surgery necessary)
    - GI bleeding not requiring frequent transfusion, acute coronary syndrome (ACS) requiring heparin and/or nitroglycerin with down trending troponin/stable symptoms but requiring drips
  - Low Urgency (no expected short-term decline, would benefit by specialty consultation
    - resolving sepsis without need for surgical source control, biliary stone without evidence of acidosis/pancreatitis
- There is no such thing as "no"



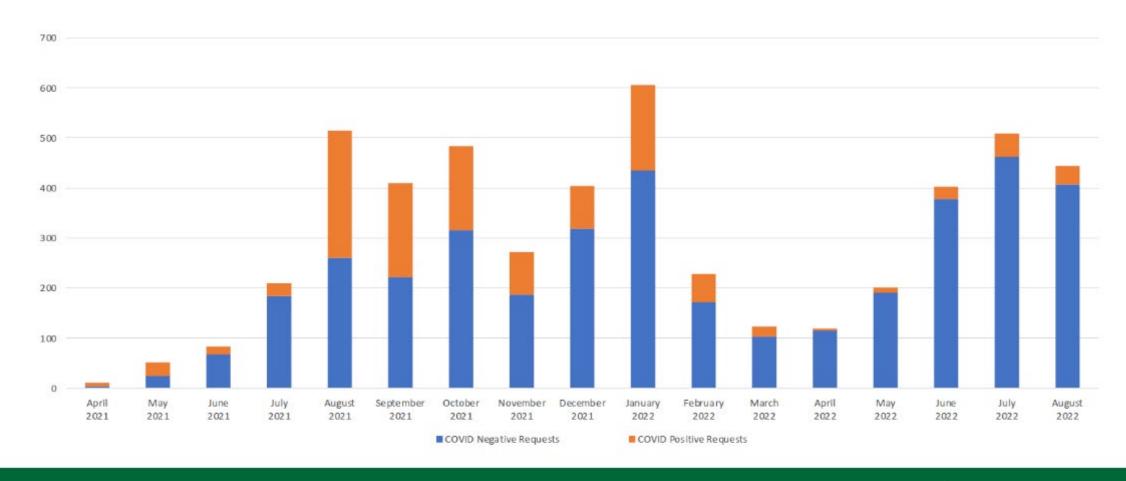
#### How is the WMCC Utilized?

#### Backstop when normal transfer patterns can't be utilized

- Hospitals utilized their normal transfer patterns
  - Typically contact 2-4 hospitals
- When normal transfer destinations not available > WMCC
- WMCC works with partner hospitals across Washington state to find appropriate destination
- Over 5,000 requests for assistance
  - 73% from rural hospitals



# Total WMCC Call Volume by Month







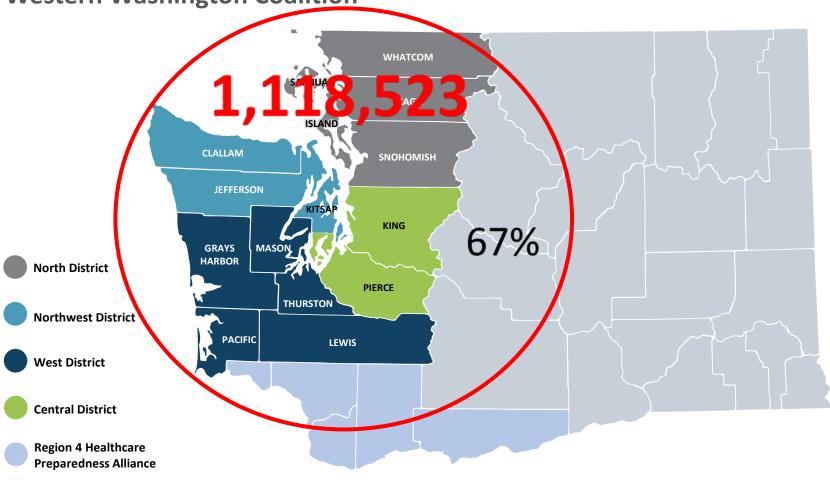
# got kids?





#### got kids? US Census QuickFacts 2020 est

**Western Washington Coalition** 



7.7 /1.6 (21.7%)





#### Pediatric Events and Planning - WA



2009: King County Pediatric Toolkit

2011: Pediatric Disaster Workshops - State

2013: Pierce County Pediatric Toolkit

2015: Portland Train the Trainer

2016: Annual UW/Tacoma Trauma Conferences

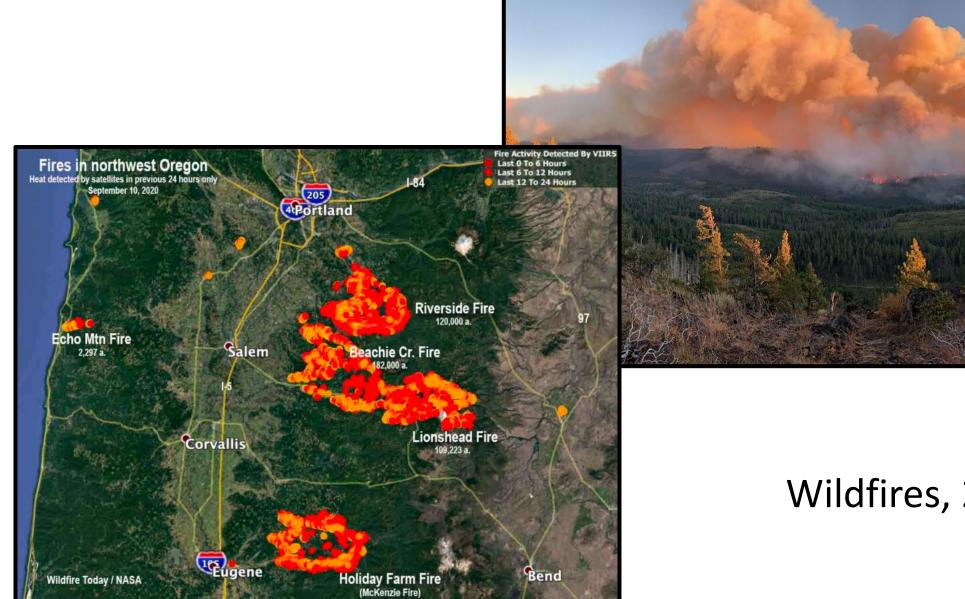
2020: ASPR Pediatric Annex



#### Pediatric Events and Planning (cont.)



- 2020-2021: Pediatric MIS-C/COVID-19 Surge and Pediatric BH Surge
  - -Some peds data entered in to WATrac but not WAHEALTH
  - -No peds BH data
  - -Started Pediatric Tracker weekly huddles
- 2021: WA Pediatric Clinical Leader calls and data collection (beds/COVID/BH)
  - -data now being entered into WATrac and WAHEALTH
  - -calls to verify data quality and raise issues
  - -data fidelity not as good for peds as it is for adults
- Winter 2021-22: schools open and Delta/Omicron waves
  - -Pediatric Care Levels published to align NICU and PICU levels
  - -"PICU for the MICU" primer published for adult intensivists
  - 0-5 open PICU beds



144,694 a.

Wildfires, 2020

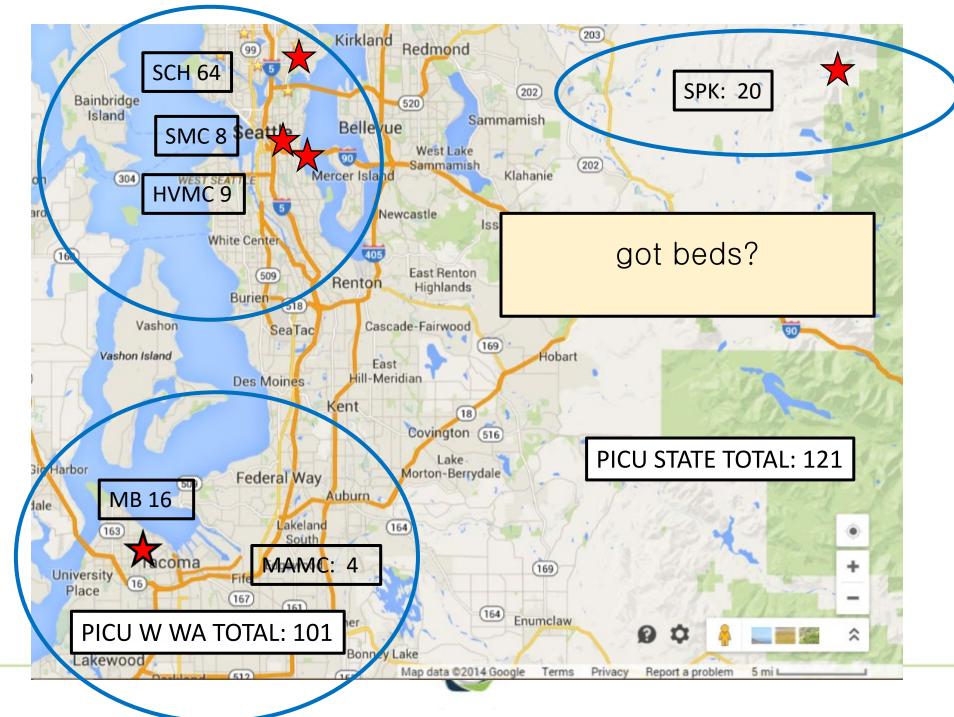
#### Pediatric Events 2020-2022



- 9/11/20: OR/WA wildfire
  - 5 hospitals on notice for evacuation including pediatric patients
  - One hospital in Level 2 already moving 60-70 patients
  - All facilities have stopped ambulance transport
  - LTC evacuations
  - OHA notification: plan on evacuees
- 2021: DMAT Deployments
- 8/25/22: Seattle Community PICU off-line
  - W. WA PICU bed availability: 0-5
  - 8/25 notification: Community PICU off-line (4-6 beds)
  - Needed urgent surge plan



# PICU Capacity WA State



## Event: Community PICU off-line



- SCH and MB notified
- Urgent discussion with WMCC in case of Pediatric Surge
  - Developed rotating Peds Intensivist SME call
  - Developed contact list relationships
  - MAMC Option
  - Notification of all ED's and non-pediatric facilities of temporary procedure.
- Currently working to develop a WA State P-WMCC
- Option 1: Peds SME support for WMCC RNs to create PMCC arm of WMCC
  - -Option 2: Separate PMCC call center

Goal for Winter 2022-23: PMCC functioning as either option 1 or 2





#### **Option 1**: Peds SME support for WMCC RNs to create PMCC arm of WMCC

- Pediatric Annex up to date
- Peds Clinical MD and RN SMEs clearly identified to support WMCC
- Pediatric RNs folded in to WMCC RNs with standard peds protocols for all RNs
- Pediatric data entered in to WATrac and WAHEALTH with high fidelity by all peds centers

#### **Option 2**: Separate PMCC call center

- Pediatric Annex up to date
- Clarify if largest pediatric center (SCH) can manage call volume
- Clarify staffing at one hospital for a regional load-balancing program
- Clarify one hospital having access to regional WATrac and WAHEALTH data





# THE FAR SIDE®

by GARY LARSON





## Pediatric Care Levels: NICU, Peds, and PICU

#### **AAP NICU Levels**

- Level 1: Well Newborn
- **Level 3:** Special Care Nursery
- Level 3: NICU
- Level 4: Regional NICU

#### AAP PICU Triage Guidelines:

Pediatrics Oct 2019, 144 (4) e20192433; **DOI:** 10.1542/peds.2019-2433

- Community PICU
- Tertiary PICU
- Quaternary PICU

# **WRAP-EM Pediatric Care Levels**

- Level 1: Nursery/Ward (BLS)
- **Level 2:** Intensive (ALS)
- **Level 3:** Critical (CCT)
- Level 4: Specialized (Specialized)

#### Universal Level Designations for Hospitalized Pediatric Patients in Evacuation

Anna Lin 1, Mary A King 2, David C McCarthy 3, Carl O Eriksson 4, Christopher R Newton 5, Ronald S Cohen 6 Hosp Pediatrics 2022 Mar 1;12(3):333-336. doi: 10.1542/hpeds.2021-006356.

Executive Summary: Criteria for Critical Care of Infants and Children: PICU Admission, Discharge, and Triage Practice Statement and Levels of Care Guidance

Benson S. Hsu, Vanessa Hill, Lorry R. Frankel, Timothy S. Yeh, Shari Simone, Marjorie J. Arca, Jorge A.Coss-Bu, Mary E. Fallat, Jason Foland, Samir Gadepalli, Michael O. Gayle, Lori A. Harmon, Christa A.Joseph, Aaron D. Kessel, Niranjan Kissoon, Michele Moss, Mohan R. Mysore, Michele C. Papo, Kari L.Rajzer-Wakeham, Tom B. Rice, David L. Rosenberg, Martin K. Wakeham, Edward E. Conway, Michael S.D.Agus



FROM THE AMERICAN ACADEMY OF PEDIATRICS | POLICY STATEMENT | SEPTEMBER 01 2012

Levels of Neonatal Care

Pediatric Emergency Management

COMMITTEE ON FETUS AND NEWBORN; Wanda Denise Barfield, MD; Lu-Ann Papile, MD; Jill E. Baley, MD; William Benitz, MD; James Cummings, MD; Waldemar A. Carlo, MD; Praveen Kumar, MD; Richard A. Polin, MD; Rosemarie C. Tan, MD; Kasper S. Wang, MD; Kristi L. Watterberg, MD Pediatrics (2012) 130 (3): 587–597.

https://doi.org/10.1542/peds.2012-1999

Level of Care	shilities, and Provider Types: Neonatal Levels of Care  Capabilities	Provider Types <sup>a</sup>	
Level I Well newborn nursery	Provide neonatal resuscitation at every delivery Evaluate and provide postnatal care to stable term newborn infants Stabilize and provide care for infants born 35–37 wk gestation who remain physiologically stable Stabilize newborn infants who are ill and those born at <35 wk gestation until transfer to a higher level of care	Provider types*  Pediatricians, family physicians, nurse practitioners, and other advanced practice registered nurses	
Level II Special care nursery	Level I capabilities plus:  • Provide care for infants born ≥32 wk gestation and weighing ≥1500 g who have physiologic immaturity or who are moderately ill with problems that are expected to resolve rapidly and are not anticipated to need subspecialty services on an urgent basis  • Provide care for infants convalescing after intensive care  • Provide mechanical ventilation for brief duration (<24 h) or continuous positive airway pressure or both  • Stabilize infants born before 32 wk gestation and weighing less than 1500 g until transfer to a neonatal intensive care facility	Level I health care providers plus: Pediatric hospitalists, neonatologist, and neonatal nurse practitioners.	
Level III NICU	Level II capabilities plus:  • Provide sustained life support  • Provide comprehensive care for infants born <32 wks gestation and weighing <1500 g and infants born at all gestational ages and birth weights with critical illness  • Provide prompt and readily available access to a full range of pediatric medical subspecialists, pediatric surgical specialists, pediatric anesthesiologists, and pediatric opthalmologists  • Provide a full range of respiratory support that may include conventional and/or high-frequency ventilation and inhaled nitric oxide  • Perform advanced imaging, with interpretation on an urgent basis, including computed tomography, MRI, and echocardiography	Level II health care providers plus: Pediatric medical subspecialists <sup>6</sup> , pediatric anesthesiologists <sup>6</sup> , pediatric surgeona, and pediatric opthalmologists <sup>6</sup> .	
Level IV Regional NICU	Level III capabilities plus:  Located within an institution with the capability to provide surgical repair of complex congenital or acquired conditions  Maintain a full range of pediatric medical subspecialists, pediatric surgical subspecialists, and pediatric anesthesiologists at the site  Facilitate transport and provide outreach education	Level III health care providers plus: Pediatric surgical subspecialists	



= = =



#### Pediatric Care Levels: details by level

#### Level I, Pediatric Acute Care Ward (General Med/Surg)

- O2 by canula (simple or HFNC)
- intermittent respiratory therapies (NEB, Breathing treatment)
- IV fluids with intermittent IV medications
- simple monitoring

#### Level II, Community Pediatric intensive-care unit (Community PICU)

- provide pediatric resuscitation and routine mechanical ventilation (conventional or CPAP/BIPAP)
- providers can be pediatricians, family practice docs, or adult or pediatric Intensivists

#### Level III, Tertiary Pediatric intensive-care unit (Tertiary PICU)

- provide pediatric resuscitation and advanced mechanical ventilation (conventional, high frequency, or advanced CPAP/BIPAP)
- provide full or almost full spectrum of pediatric subspecialty access
- providers are pediatric intensivists

#### Level IV, Quaternary Pediatric intensive-care unit (Quaternary PICU)

- provide pediatric resuscitation and all levels of lung, heart, kidney support (including ECMO, CRRT) and typically manage complex multi system pediatric
  disease
- provide full spectrum of pediatric subspecialty access
- providers are pediatric intensivists
- support transport and regional education



#### Summary



- The "joy" of being first -> MOCC or equivalent cross-jurisdictional coordination is incredibly important, but must be done with skillful leadership.
- Kids ARE just small adults -> in a surge everyone needs the ability to care of children
- What the dogs hear -> Precise language = better communication -> improved triage and patient care.

## Thank you!

vicki.sakata@nwhrn.org



#### 2022 DISASTER PLANNING CONFERENCE PASADENA

# Michigan Pediatric Medical Operations Coordination Cell (PMOCC)

Importance of Partnership

Damien Siwik

Project Manager University of Michigan

C. S. Mott Children's Hospital

Facilitator Lead Pediatric Coordination Center (PCCC)



# **Proposal**



# Establish a pediatric incident command cell

The cell's main function is coordination of assets and capabilities to best support Michigan's pediatric population during a disaster or other incident.



# Concept



A pediatric cell fulfills two main functions:

- 1) Disaster and surge response
- 2) Pre-incident planning and coordination

**Founding Principle**: Investing in pre-incident planning and coordination yields the best outcomes for disaster or surge events.

The cell acts as an independent agency, not aligned to any organization or healthcare system.

# Concept



- As a stand-by, functional, incident command cell, the cell can integrate into state operations to coordinate a response for the pediatric element of a full-spectrum incident.
- 2 Or the cell can lead the response to a purely pediatric incident.

The cell's main activity during response will be activating and managing the pre-existing plans and agreements.

# Concept



The cell works to develop cooperative and appropriate partnerships, plans, MOUs, agreements, and policies prior to an incident.

The cell can engage and advise state leadership on pediatric specific issues.

By consolidating ongoing efforts and housing content, the cell can also serve as an education hub for Michigan pediatric readiness.



**Medical Operations Coordination Cells Toolkit** 

Second Edition



# Pediatric Care Coordination Center

STATE OF MICHIGAN

**CONCEPT OF OPERATIONS** 

Appendix to the Medical Surge Plan

it

mple

.. 13

Operating

Standard

.....34

# Playbook



Our current ConOps is an over-arching, foundation document, but lacks specificity and detail.

The ConOps does not meet the need during an actual pediatric disaster or surge emergency.

A Pediatric Disaster Playbook for state officials could be a great tool to provide the useful, specific guidance, tasks, procedures, and policies for pediatric disaster response.

# **Standard Operating Procedure (SOP)**



- 1. Guiding Principles
- 2. Standing Orders
- 3. Establish Communications
- 4. Questions to ask
- 5. Situational Awareness

Develop Contacts
Bed status
Transfer Assets
Pre-positioned Supply Stocks

Activity Log
Peds Critical Care Transfer
Air Evacuation Assets
Prepositioned Supply of Meds

- 6. Options for Additional Orders
- 7. Tasks

## "How To" Areas



- 1. Patient Load Leveling
- 2. Patient Movement
- 3. Patient Tracking
- 4. Resource and Supply Allocation
- 5. Transition Hospitals to Disaster Operations
- 6. Telehealth
- 7. Behavioral Health
- 8. Reunification
- 9. Demobilize

# Michigan Pediatric Medical Operations Coordination Cell (PMOCC)

**Importance of Partnership** 

# PLATINUM PEDIATRIC SURGE PLAYBOOK: CATASTROPHIC CAPABLE RESOURCES & TOOLS FOR OPERATIONAL IMPACT

Transforming Strategies to Strengthen & Support CONOPs Plans across State Boundaries for Regional Health Systems & Hospitals





#### WRAP-EM GROUPS, EXPERTS, & RESOURCES



#### SUPPORTS STATE, REGIONS, & COALITIONS TO INFORM PLANS

- COVID-19 Focus Group Pediatric Emerging Issues & COVID-19 Discussion
- Patient Movement & Tracking
  - Surge Group
  - Evacuations
  - NICU/OB Group
- Health Disparities
- Supply Chains



https://www.canva.com/

- State Agency Liaisons
- CBRNE/Infectious Disease
- Active Threats/MCI
- EMSC/Pediatric Readiness
- Deployable Assets
- Telemedicine
- Quality Improvement
- Behavioral Health
- Burns Focus Group

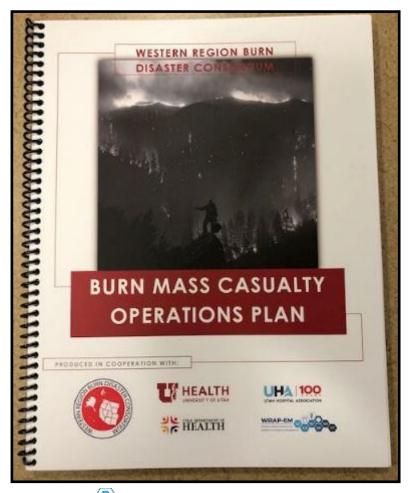
- American Academy of Pediatrics COVID-19 Guidance and Resources
  - COVID Town Halls
  - Practice Management Tips
- Centers for Disease Control and Prevention
- Project Firstline
- Emergency Medical Services for Children Innovation and Improvement Center
- Region V for Kids
- **EIIC Programs**
- Health Resources and Services Administration
- Office of the Assistant Secretary for Preparedness & Response
- Pediatric Pandemic Network
- Western Regional Alliance for Pediatric Emergency Management

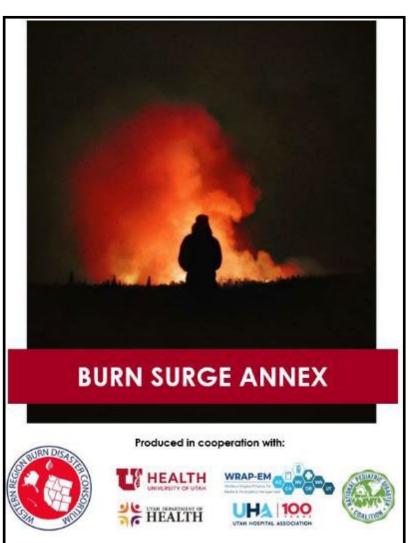


#### **WESTERN REGION BURN DISASTER CONSORTIUM**

#### **RESOURCES: BURN MASS CASUALTY INCIDENT**

#### CONOPS & APPENDICES/CRISIS STANDARDS IF CARE (CSC) TRAINING SITE





- http://crisisstandardsofcare.Utah.edu
  - Burn CSC Apple/Android



Courtesy of
Annette Newman (Matherly) MS, RN CCRN
Community Outreach/Burn Disaster Coordinator
Western Region Burn Disaster Consortia Coordinator



Job Action Sheet - Los Angeles County EMS Agency Version

Operations Section Medical Care Branch Mental Health Unit Leader MENTAL HEALTH TRIAGE MANAGER

#### MENTAL HEALTH TRIAGE (PsySTART) MANAGER

Mission: Coordinate Disaster Mental Health Triage activities.

Date: _	Start:	End:	Position Assigned to:	Initial:	
Position	Reports to: Ment	al Health Unit Leader	Signature:		
Hospital/Clinic Command Center (HCC) Location: Telephone:					
Fax:		Other Contact Info:	Radio Title:		
lmma e ell	ata /Onerationa	Dorlad 0.2 Haura		Time	Initial
Immediate (Operational Period 0-2 Hours)  Receive appointment, briefing, and appropriate forms and materials from the Mental					initia
Health U	Init Leader.				
			into the PsySTART Mobile Web		
			ere, click on "join us" to create a new		
		s the registration code			
			ident management team chart		
		osition identification.	mont		
		or of your HICS assign			
	nt all key activities, a continual basis.	actions, and decisions	in an Operational Log (HICS Form		
		ntal health triage acti	vitv	_	
			a briefing including the following		
informati			and the same of		
•	Type and location	of incident.			
<ul> <li>Number and condition of expected patients.</li> </ul>					
		me to facility or rate of			
•	Unusual or hazard	ous environmental exp	osure risks.		
			or may not be victims of the disaster,	)	
			calling to ask for assistance (e.g.,		
	facility phones, rec unaccompanied of		ntamination area, isolation area),		
	Anticipated menta				
			Vavailability of facility mental health		

and spiritual care staff, clinical staff, and volunteers who are assigned to your

 Current status/need to request additional mental health staff from your facility, partner hospitals/clinics, your facility Disaster Resource Center (DRC) group, or other mutual aid partners including the LA County Department of Mental Health (LAC DMH) and/or the LA County EMS Agency LA County Disaster

. Any special circumstances that must be addressed due to the nature of the

Work with the Mental Health Unit Leader to initiate, plan, project, and coordinate mental

 Determine the PsySTART mental health triage "work flow" for your site including of how, when and who will use the PsySTART Mobile Web

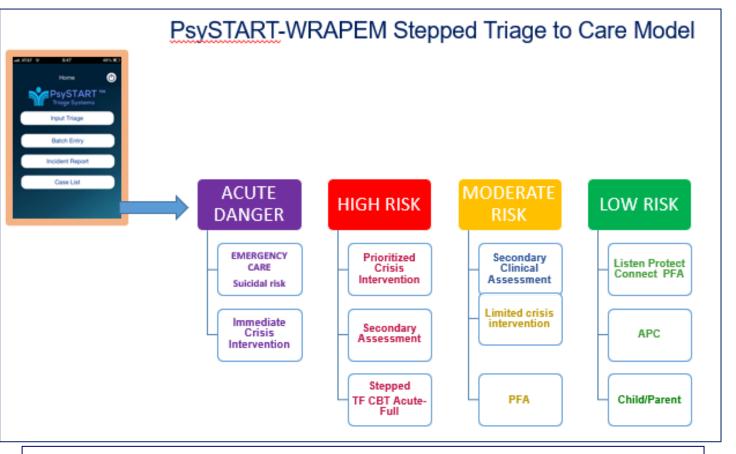
incident, such as special languages, cultural needs, unaccompanied children

facility (disaster) "mental health response team".

Healthcare Volunteers (ESAR-VHP/MRC) program.

#### **BEHAVIORAL HEALTH COMPONENTS**





#### Merritt D. Schreiber, Ph.D.,

Professor of Clinical Pediatrics, Department of Pediatric, Lundquist Institute, Harbor-UCLA Medical Center, David Geffen School of Medicine at UCLA



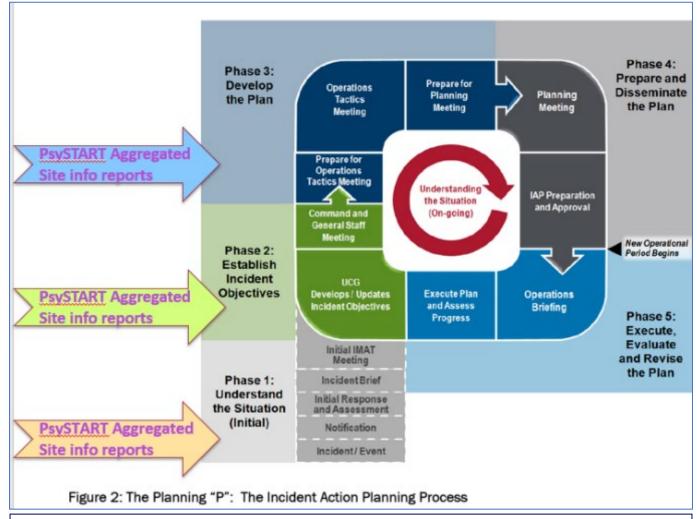
health triage of patients.

or security concerns.



#### **BEHAVIORAL HEALTH COMPONENTS**





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# REGIONAL PEDIATRIC SURGE – MOMENTUM INTO THE FUTURE CONCLUSION

- PLAYBOOK OPTIONS can be adapted & modified to strengthen pediatric surge capability with "best practice" resources, access to SMEs, & with operational CONOPs
- Evidence-based essential elements & "best practices" strengthen healthcare system
- Benefits of a regional approach in leveraging partners collectively in development process
  across coalitions to ensure a "living" plan & readiness before a catastrophic event
- Test & evolve your PLAYBOOK in "real time" & in exercises for catastrophic events

#### SUPPORTS FUTURE VISION

• Recommendations can be utilized by future integrated command structure across state jurisdictions to collectively leverage & incorporate pediatric situational awareness & response capabilities





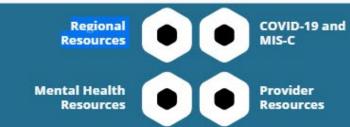
## https://wrap-em.org/

WRAP-EM
Western Regional Alliance for Pediatric Emergency Management

Region

Learn more about WRAP-EM and our partners.

Explore a wealth of resources and tools collected here to assist healthcare centers, public agencies, providers and families!



☑ info@wrap-em.org





# Questions?



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