



COVID-19 "Coronavirus" International Teleconference

We're taking a virtual role call today for those on the WebEx.

Please use the "Chat" window on the right to enter your:

Name, Agency Name, and # of people joining from your location.

Please send chat messages to "All Panelists"



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Facilitators:





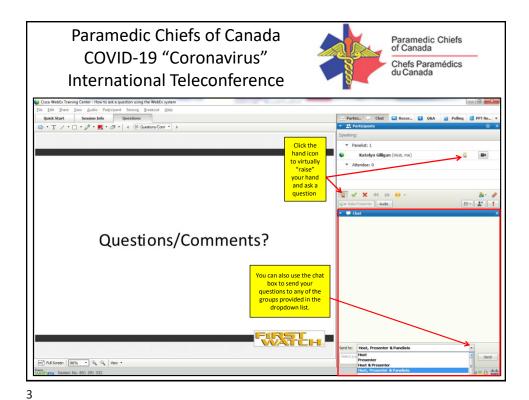
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In association with

Helping the Helpers



Agenda:



- Purpose & Rules of Engagement
- ▶ COVID-19 Situation Update
- ▶ Pediatric considerations with COVID-19
- Cross-Canada Quick Check-in
- Q&A (as time allows)



Purpose:

- Update on COVID-19 situation
- · Listen to guest speakers on select issues
- Receive FirstWatch SitRep on COVID-19 surveillance activity
- Share solutions regarding specific challenges posed by COVID-19

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Rules of Engagement

- Session will conclude after 60 minutes
- Session materials can be sent to eid@ParamedicChiefs.ca for posting on Paramedic Chiefs of Canada website
- Please keep your comments brief



Coronavirus Situation Update



Silvia Verdugo, MD, MPH Medical Advisor FirstWatch sverdugo@firstwatch.net

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Coronavirus EMS Scenarios





Pam Farber, RN, EMT-P Public Health Advisor FirstWatch pfarber@firstwatch.net

COVID -19 UPDATES



- PHAC & CDC Situation Summary
- · WHO Report on WHO-China Joint Mission
- U.S. Expanded COVID-19 Testing in 6 Cities
- CDC/PHAC Travel Guidance = Higher Risk Countries
- Body Fluids that May Transmit SARS-CoV-2

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COVID-19 Updates



- Canadian and U.S. Resources
 URLs related to 2/25/20 Update
- ► U.S. NIOSH COVID-19 Website for Businesses and Workers

Includes info for Public Safety, PSAPs and EMS

Guest Speaker:





Pat Frost, RN, PHN, MS, PNP Vice Chair, National Pediatric Disaster Coalition Former EMS Director, Contra Costa Health Service

nationalpedicoalition@gmail.com



EMS Pediatric Novel Virus Readiness

PATRICIA FROST RN, PHN, MS, PNP

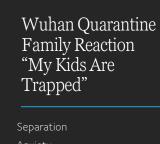
VICE CHAIR NATIONAL PEDIATRIC DISASTER COALITION

FORMER EMS DIRECTOR CONTRA COSTA HEALTH SERVICE

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Public Expectation: Children First



Auxief

rear

Reunificatio

Safety

Nutrition/Basic Needs

Source: https://www.latimes.com/california/story/2020-01-31/san-diegans-wife-and-children-trapped-in-chinaamid-coronavirus-outbreak





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PCC Webcast: 2019-nCoV "Coronavirus" – Emerging Infectious Disease – Feb-3-2020

First Transport of Coronavirus Patient in U.S.

An Adult...Not Very Sick...Transported to Hospital for Evaluation/Testing...Lots of time...Physician online consultation

What if the First Transport Was a Toddler in Respiratory Distress?

How would destination decisions change?

Transport with or without parent?

Mask or no mask?

Do you have pedi equipment?

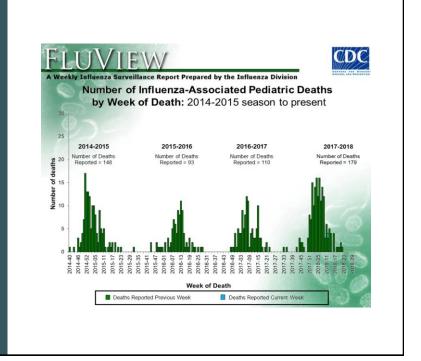
Interventions: Yes/No?

What if the child deteriorates in route? Do you break PPE?



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More Children Die of the Flu Every Year... A Vaccine Preventable Illness





COVID-19 Incidence In Children Low Risk does NOT mean No Risk

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Lean In: Pediatric Emerging Pathogens

- Requires pre-planning with field and front-line facilities
- Coordination with Public Health/CDC
- Destination Triage for pediatric patient
- Referral and transport process
- Parent/caregiver issues PPE, accompanying during transport, etc.





COVID-19 and Children

Insufficient
Data to
Determine
Pediatric Impact

JAMA February 14, 2020: Novel Coronavirus Infection in Hospitalized Infants Under 1 Year of Age in China Min Wei, MD¹; Jingping Yuan, MD, PhD¹; Yu Liu, PhD²; et al

- > 9 infected infants described
- > All required hospitalization, mild disease, no severe complications, no dealths
- > Age range: 1 to 11 months
- > All had at least one infected family member
- Time between admission and diagnosis: 1-3 days
- · No known transmission via breast milk
- o Symptoms: fever (38.8 peak), runny nose, cough, sputum
- · One infant asymptomatic with +COVID-19 test
- · Infants < 1 year cannot wear masks

➤ Recommendations: Since infants <1 cannot wear masks adult caretakers need to wear masks, wash hands, before and after close contact, sterilize infant toys and food containers

- >Other reports from WHO and CDC to date:
 - o No deaths reported in children<9 years old
 - o Death Rate 0.2% age 10-19 years old
 - o Children with co-morbidities are anticipated to have an increased risk of serious illness

https://jamanetwork.com/journals/jama/fullarticle/2762028

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Kids and Hygiene A Special Challenge

Congregate in groups

o Childcare/schools

Shed more more virus

• Higher respiratory/metabolic rates

Always touching something

- Lots of secretions
- Contaminated surfaces

Children Cannot Self Protect

- > May require 1:1 supervision
- ➤ Adversely affected by separation & forced isolation
- ➤ Adults responsible for Hygiene & Safety Measures



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Day to Day

Children, Hospitals & EMS

Low Frequency High Risk

US Hospitals & EMS	Pediatric Contact
Non-children's hospitals ED	> 80% of all children in ED's
75% Hospital see	< 20 children/day
50% Hospitals see	< 10 children/day
Remote Hospitals see	< 2 children/day
Percent of total ED volume	18-27%
Pedi ED volume admitted	<10% (90% treat and release)
Average Length of Stay	3.5 days (children's hospital)
911 Calls and Transports	< 5-10% of all calls
EMS Pediatric MCI Plan	13% report plan

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EMS System Assets and Limitations Disaster = Supply vs Demand Mismatch

California's EMS System includes:

> 33 Local EMS Agencies

> 64,046 Certified Emergency Medical Technicians

> 115 Certified Advanced Emergency Medical Technicians

> 23,528 Licensed Paramedics

> 1,165 Certified Epinephrine Lay-Persons

> 4,210 Ground Ambulances

> 137 EMS Aircraft

> Est. 5.4 Million Emergency Medical Services Calls Annually

California Child Population (2018)	Kidsdata.org
	Total
Ages 0-2	1,455,750
Ages 3-5	1,518,243
Ages 6-10	2,589,263
Ages 11-13	1,580,511
Ages 14-17	2,117,251
Total for Ages 0-17	9,261,018







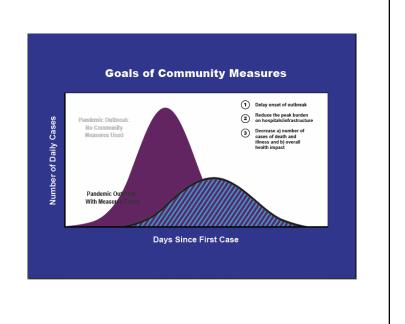
NDMS Critical Care Air Transport Patient Movement Feb 7th, 2020

Pandemic Patient Movement Reduce Unnecessary Exposure

US Coronavirus Evacuation Wuhan to Omaha

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The Mission: Slow the Spread Coordinated Response ESSENTIAL!



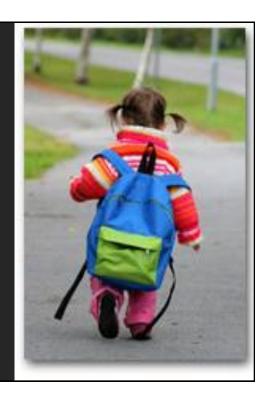


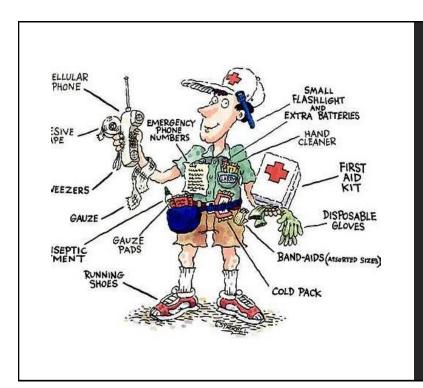
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Where Do You Start?

"All Emergency Planning Is LOCAL"

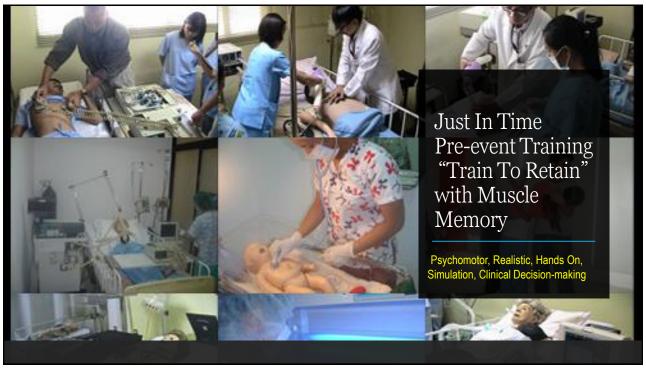
Dr. Jeffrey Upperman CHLA National Disaster Center National Advisory Committee for Children and Disasters

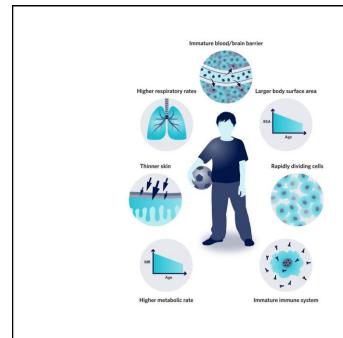




Personal and Family Readiness

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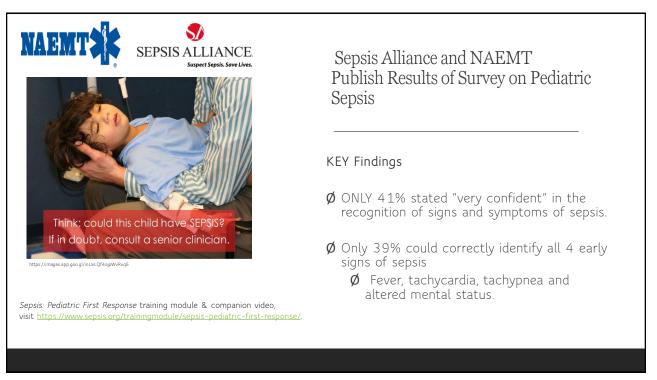
Pediatric
"Must Know"
Differences
Exceptional
Assessment Skills
Matter

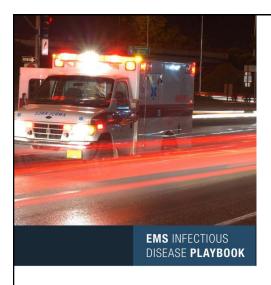
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Children speak with their bodies







Pediatric Issues

Fear of caregivers in high level PPE Caregiver accompaniment guidance Exposure risk/Intervention benefit Comfort objects Vigilance for septic shock/respiratory failure Pedi isopods risk vs benefit Pedi size surgical masks: if tolerated







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"The Change Begins with You"

Pediatric Emergency Care Champions

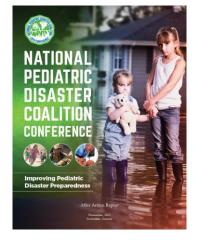




Network With Pediatric Coalitions

National Pediatric Disaster Coalition

Twitter @npdcoalition





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Disaster Research Shows...

How "Well" A Community
"Recovers" Is Measured
By What Happens
Their Children



Reliable Pediatric Intelligence & Information

CDC intelligence: https://www.cdc.gov/coronavirus/2019-nCoV/index.html

World Health Organization: https://www.who.int/emergencies/diseases/novel-coronavirus-2019

Redbook Online:

https://redbook.solutions.aap.org/selfserve/sspage.aspx?selfservecontentid=rbo_outbreaks_page_3

 $American\ Academy\ of\ Pediatrics:\ \underline{https://www.healthychildren.org/English/health-issues/conditions/chest-lungs/Pages/2019-Novel-Coronavirus.aspx}$

AAP News: https://www.aappublications.org/news/2020/01/28/coronavirus

ASPR/TRACIE EMS Infectious Disease Playbook: https://www.ems.gov/pdf/ASPR-EMS-Infectious-Disease-Playbook-June-2017.pdf



FirstWatch SitRep:



Cell: 858-395-1728 tstout@firstwatch.net

Todd Stout

- Surveillance in place
 - 34 triggers for symptoms and travel
 - 2 geofence triggers for evacuation locations
 - · Compliance Triggers
- · "Affected Areas" is changing
- · Other information to share
- Sign up for alerts at www.firstwatch.net/hi

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Cross-Canada Quick Check-in

- Name
- Organization
- Province
- Challenges, Lessons Learned, Best Practices that are new or different from that already shared?
- (If you have more information than can be quickly shared within our remaining time, please consider emailing it to eid@paramedicchiefs.ca for sharing.)





Q&A and Thank You

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Todd Stout - tstout@firstwatch.net

