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Lessons From the Pandemic: How a Children's Hospital Responded to the Challenges of COVID-19

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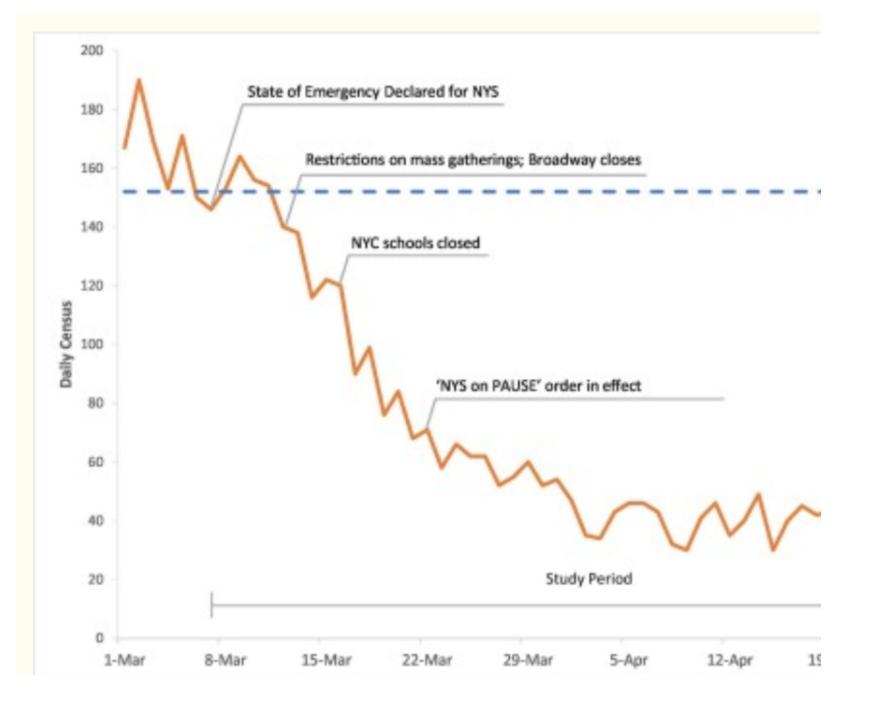
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A pediatric hospital's response to the COVID-19 pandemic:

Introduction and overview

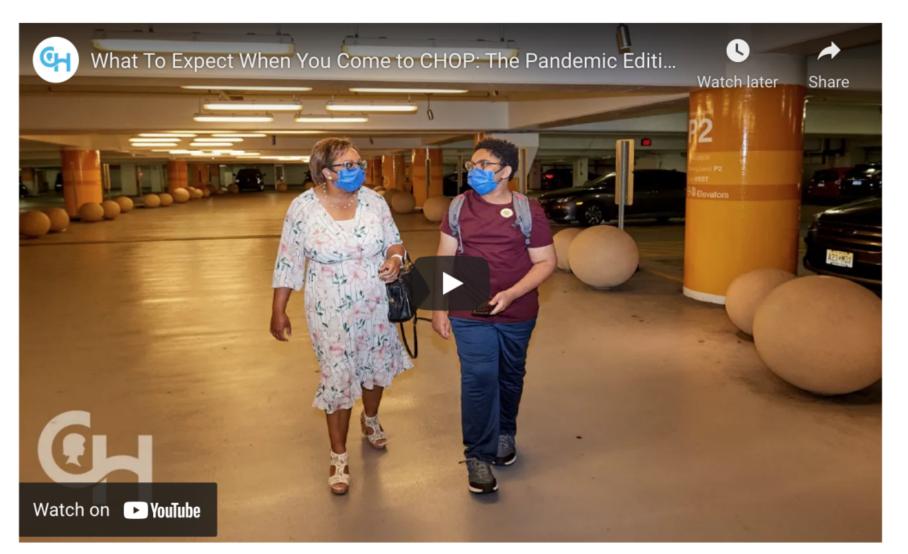
John D. Lantos MD
Children's Mercy Kansas City
May 2021/Pediatric Academic Societies

This graph of ED visits in one NY hospital could be a graph of everything during the pandemic.



"Is it safe to come to CHOP?"

Yes. We continue to safely provide care. Please don't delay a needed visit to your healthcare provider. Watch this video for a preview of what to expect when you come to our Philadelphia Campus.



Almost overnight, hospitals had to...

- develop new supply lines for PPE, drugs and devices
- develop new protocols for clinical care
- redesign family-centered care
- initiate telemedicine
- support staff morale
- manage acute budget shortfalls
- initiate regional collaborations
- allocate scarce resources
- communicate with local MDs, parents, public health, schools, and media
- participate in scientific studies
- care for sick patients with COVID and with other health problems

Employee wellness during COVID-19

The goal is to provide staff with the most recent information related to COVID-19 employee wellness. The page is reviewed at least twice a week to ensure accuracy.

NEW RESOURCES COVID wellness team member at your virtual huddle Inspirational phone line Lean On Me - suicide support and resources 1:1 support for all employees Pandemic support group Virtual mindfulness meditation Virtual support groups for teams





Guilt

"My experience of COVID has been this gut-wrenching, helplessness, and what I can only describe as survivor's guilt.

I was torn between the guilt of not enduring what is happening in the hotspots and watching other nurses in the opposite situation who face furloughs and layoffs."

Tiffany Mullen, MSN, RN, ACCNS-P, CCRN PICU Clinical Nurse Specialist https://www.aacn.org/blog/survivors-guilt-amid-a-pandemic

"Stop calling us heroes"

"We can't justify the deaths of doctors and nurses and say, "They're heroes..." We don't want the recognition, we just want the support. They died because they didn't have enough protective gear. Everytime somebody dies, I want people to think, "Somebody screwed up."

• JA Mustapha. https://duckduckgo.com/?q=stop+calling+us+heroes+youtube&atb=v1-1&iax=videos&ia=videos&iai=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DI2 Yzqw2Keww

QUALITY & PERFORMANCE

RESEARCH & DATA

PR SEI

Home /Newsroom /Children's Hospitals Today /Summer 2020

C

ARTICLE | August 3, 2020

COVID19: Pandemic to Permanently Change How Children's Hospitals Deliver Care



Despite the darkness of the COVID-19 pandemic, bright spots have begun to emerge. Children's hospitals have quickly changed processes, policies and systems, which will affect how health care is delivered in the future.

By Megan McDonnell Busenbark

Redesigning family-centered care



From This

To This





Shoring up the safety net for children in the COVID-19 pandemic

Tina L. Cheng 61-2, Margaret Moon and Michael Artman and On behalf of the Pediatric Policy Council Pediatric Research (2020) 88:349–351; https://doi.org/10.1038/s41390-020-1071-7

Impact 1

COVID-19 Morbidity & Mortality

Grandparents, Parents

Multisystem Inflammatory Syndrome in Children

Impact 2

Community Stress:

Unemployment, Food Insecurity

Education Interruption

Health Disparities

Impact 3

Child, Adolescent, Family Trauma:

Mental and Behavioral Health

Child Abuse

Impact 4

Other COVID consequences:

Delayed care

Under immunization

Obesity

Stress on Medicaid 2021 Best Countries » See the Worst Countries for Racial Equality

Home / News / Health News

Children's Hospitals Battle COVID-19, Surging Mental Health Needs

Clinician leaders from Minnesota, Texas and California share how their hospitals have responded and innovated during the pandemic.

By Kaia Hubbard, Contributor Jan. 29, 2021, at 3:58 p.m. MORE HEALTH CARE NEWS NEWS

April-June 2019 vs 2020

- 2019:
 - 24,860 patients had 38,455 visits
 - 15 (0.04%) visits were by telemedicine.
- 2020:
 - 16,359 patients had 24,073 visits (30% drop)
 - 3,372 (26.7%) visits were by telemedicine.

Positive screenings for suicide risk

- April-June, 2019: 10.7%
- April-June, 2020: 12.1%

OR 1.15, 95% CI: 1.09, 1.20; z = 5.5, p < 0.001.

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- Prelude to COVID-19 | Paul Kempinski, MS, FACHE, President and CEO
- Controversies in Using Scientific Data to Shape Hospital Policy | Angela Myers, MD, MPH, Director, Division of Infectious Diseases
- Coordinating a Regional Response | Jennifer Watts, MD, MPH,
 Medical Director of Emergency Preparedness
- Communicating with Key Audiences During a Pandemic | Laurie Ellison, MBA, Chief Communications and Marketing Officer
- Questions & Answers | All



A Pediatric Hospital's Response to the COVID-19 Pandemic

May 2021 | Pediatric Academic Societies









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Prelude to COVID-19

Paul Kempinski, MS, FACHE; President and CEO Alice Berry, DDS, and Katharine Berry, MD, Endowed Chair in Executive Leadership



Children's Mercy - Pre-COVID

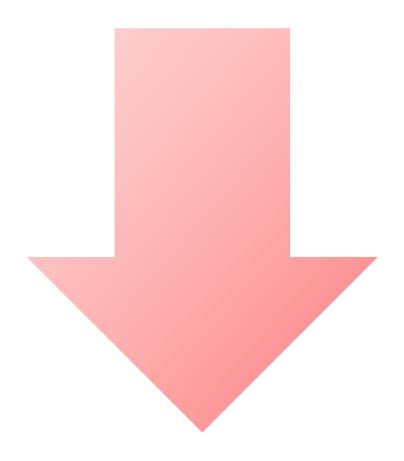
- A new roadmap to the future
- New mission, vision, values
- New True North Pillars
 - Eliminate harm and perfect the patient/family experience
 - Achieve top decile performance in Quality, Safety, and Patient Experience within five years
- New strategic plan approved by Board March 11, 2020

Transformation Model



March 15, 2020 – Shutdown Begins

- Substantial volume declines
- Net revenue loss of \$1M per day
- Furloughs
- PPE shortages
- Exacerbation of mental and behavioral health issues





Re-Imagining Our Incident Command Structure

- Virtual and ongoing
- Decisions that were evidenced-based rapidly had to consider emotional impact
- Communication was critical
- Engagement with healthcare community and state & local governments evolved rapidly
- Competition turned to collaboration

New Ways of Communicating

- "Social distancing should not mean leadership isolation"
- Virtual town halls
- CEO Live Connects
- Town halls with community-based pediatricians
- Business and civic leader virtual roundtables



How We Evolved

- Resiliency
- Nimbleness
- Collaboration
- New leaders rising above the water line



... and Now

- An intense focus on supporting the well-being and safety of our employees
- "Mission Forward, People First"





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Controversies in Using Scientific Date to Shape Hospital Policy

Angela Myers, MD, MPH, Director of Infectious Diseases

Masking

Challenges

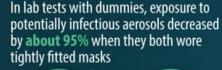
- Changing recommendations
- Desire for additional protections
- Defining an AGP

Solutions

- Transparent guidance from CDC recommendations
- Individual group meetings to hear concerns, allay fears, & discuss options
- Include stakeholders, utilized national organizations (e.g., CHA)



Wearing a mask that fits tightly to your face can help limit spread of the virus that causes COVID-19







CDC.GOV



Medical procedure mask with knotted ear loops and tucked-in sides

Other effective options to improve fit include:







Nylon covering over mas

bit.ly/MMWR21021

MMW



COVID-19 Testing

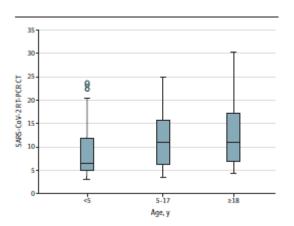
Challenges

- Timely diagnosis
- Supplies
- Trust in results
- Changing recommendations

Solutions

- Developed in house testing ability
- Utilized multiple testing platforms
- Provided internal PCR sensitivity data; viral loads in children
- Creation of testing flow chart & Individual team discussions regarding testing guidelines (e.g., pre-op)







COVID-19 Testing

Algorithm finalized/revised: 10.20; 11.20; 12.8.20; 1.12.21; 2.15.21; 2.19.21; 3.1.21; 3.9.21 Owner: A. Myers, MD

No Testing

- Any PCR test result OR positive antigen testing from outside facility with same illness (obtain results from outside facility)
- Patients who have a negative test during current admission without new CLI symptoms or new known exposures
- Patients admitted for >14 days without new CLI symptoms or new known exposures
- Asymptomatic patients with a previously positive test within the last 90 days unless new CLI symptoms (Removing Patients from Isolation Guideline)
- Previously tested in the last 7 days, has sheltered at home and/or has no new COVID-19 exposures or symptoms

Routine Tests

COVID-19 like Illness (CLI) defined as one of the following (Isolation Guideline):

Cough OR shortness of breath/ difficulty breathing OR new loss taste/smell

|OR

Two of the following symptoms: fever or chills, muscle pain, headache, fatigue, sore throat, GI symptoms (e.g. nausea/vomiting/diarrhea), runny nose/congestion, or exposure to a person with COVID-19 within the last 14 days. Runny nose/congestion OR GI symptoms each count as one symptom. Patients with these symptoms need to have one other symptom to meet criteria for testing.

OR

 Fever or chills in a child who cannot articulate another CLI symptom (e.g. febrile infant or developmental delay)

OR

Immunosuppressed and ANY COVID -19 symptoms

OR

Admission with COVID-19 like illness with negative antigen test from outside facility

Other indications for Routine Testing:

- Anticipated surgery or sedation within the next 72 hours (Patient undergoing surgery with negative antigen from referring hospital should have a PCR test)
- Exposure to a confirmed case of COVID-19 (DO NOT test until at least 5 days after exposure) (Isolation Guideline)
- · PICU Admission
- · Anticipated delivery in the FHC within the next 72 hours
- DKA Admission
- Suspect MIS-C (Isolation Guideline):
 - Fever AND
 - Laboratory evidence of inflammation (e.g. elevated CRP, ESR, fibrinogen, procalcitonin, D-dimer, ferritin, LDH, IL-6, neutrophilia, lymphopenia, or hypoalbuminemia) AND
 - Evidence of clinically severe illness requiring hospitalization, with multisystem (≥2) organ involvement (cardiac, renal, respiratory, hematologic, gastrointestinal, dermatologic, and neurological) AND
- No alternative plausible diagnosis
- · Neonate born to a COVID-19 positive mother
- · Residing in a group home or facility placement
- Admission with tracheostomy, on non-invasive ventilation or requires <u>AGP</u> (<u>Isolation Guidelines</u>)

Rapid Tests

- Emergent surgery/procedure requiring sedation where procedure can wait at least 1 hour and is necessary before routine testing is available
- Immediate facility placement before routine testing is available
- · Women in labor
- Solid organ transplant prior to graft acceptance
- ED/UCC patients or new hospital admissions who meet testing criteria

Page hospitalist COVID-19 pager (816-458-7008) for orders if meets criteria

COVID Testing Schedule*			
	Night Shift	Day Shift	Evening Shift
Monday - Friday	No testing	0600-1500	1500-2200
Saturday	0000-0400	1000-1500	1500-2200
Sunday	0000-0400	1000-1500	1500-2200

*Specimens received in Microbiology during the timeframes above will generally have results within 8 hours provided repeat testing is not warranted due to specimen or instrument issues.



Personal Protective Equipment



Challenges

- Obtaining supplies
- Fit testing
- Maintaining supplies
- Communicating supply issues



Solutions

- Tested options from multiple vendors
- Instituted "just in time" fit testing
- Created par levels on inpatient units with tracking; reduced number of people seeing each patient
- Developed a daily dashboard on website

SUPPLIES DAILY STATUS

Green: Adequate inventory with normal supplier reordering ability; good availability of substitutes.

Yellow: Low inventory with limited ability to purchase more (e.g., supplier allocations or backorders); may have substitutes.

Red: Critically low or limited inventory with no ability to get more; no availability of substitutes; significant usage changes will accelerate inventory depletion.

N95s
PAPR hoods
Exam gloves
Isolation gowns
Procedural masks
Sanitizer wipes
Hand sanitizer
Face shields
Blood bank

PPE as of April 5, 2021

Blood bank as of April 6, 2021

Restrictions

Challenges

- Work related travel
- Physical distancing in the hospital
- Learner restrictions

- Input from COVID-19 taskforce, area hospitals, and other children's hospitals
- Implemented WFH policy; creative space utilization
- Utilization of virtual learning; creation of an education task force







COVID-19 Vaccination

Challenges

- Creation of a fair system to distribute limited doses
- Responding to numerous questions/concerns
- High refusal rate in specific employee groups

- Team decisions, prioritization of frontline workers
- Communication of data in multiple venues
- Physician attendance at team huddles, virtual meetings; video testimonials; addressed equity issues







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Jennifer Watts, MD, MPH, Medical Director-Emergency Preparedness







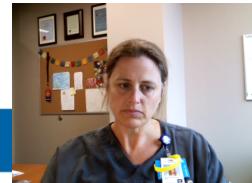
March 2020

Challenges

- Shut down
- Completely unknown expectation
- Children in virtual school post spring break
- Lack of coordination

- Hospital preparedness for patients
- Work from home
- Employee wellness
- Lunch program
- Care for complex children with ill parents
- Compilation of community players





March 2020

Challenges

 Not a pediatric problem

- Equipment resources
- Accepting all pediatric patients
- Increasing age
- Preparation to care for adults





Regional

• MARC

- Health Care Coalition (HCC)
- MultiAgency Core Group
- Health Department
- Superintendents



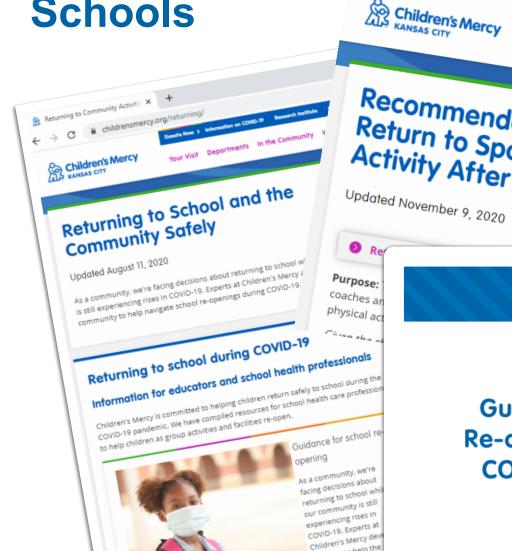
Regional

- Community organizations
- Community pediatricians
- CMO/CEO
- ICU
- State level MHA and KHA





Schools



Recommendations for a Sat Return to Sport and Physical Activity After COVID-19

resource to help the community - both f. COVID-19

Donate Now > Information on COVID-1

Your Visit Departments In t

Guidance for School Re-opening During the COVID-19 Pandemic





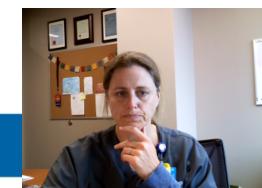
Vaccines

Challenges

- Supply
- Eligibility Tiers

- Employees
- Community participation
- Teens
- Educational role for pediatric vaccination





Takeaways

- Complexity
- Thinking outside the box
- Elevation of leaders
- Collaboration
- Strength in Unity





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Communicating with Key Audiences During a Pandemic

Laurie Ellison, MBA; Chief Communications and Marketing Officer

Prioritize audiences

Tier One

- Employees
- Patients and Families
- Community Providers

Tier Two

- Schools
- Health Departments
- Media

Tier Three

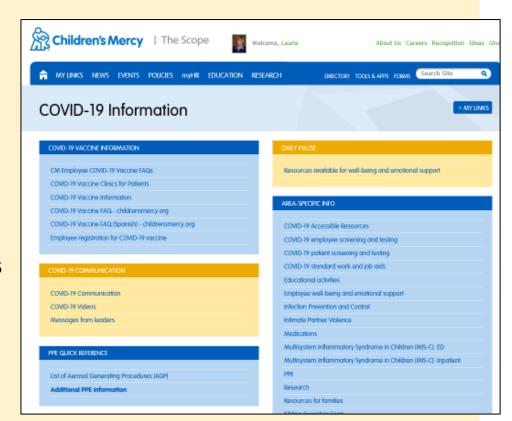
- Community Leaders
- Donors
- Community-at-Large

Employees

Challenges

- Keep employees educated and informed, quickly and frequently
- Reassure, minimize fear
- Build trust, confidence in leaders and our Infectious Diseases experts

- Daily COVID-19 email
- Dedicated COVID-19 intranet home page
- Employee Town Halls with Infectious Diseases experts, leaders



Patients & Families

Challenges

- Sharing timely changes to how CM was operating
- Myths and misinformation about COVID-19 in the community
- Communicating with our growing Spanish-speaking population

- Dedicated COVID-19 section of the website – English and Spanish
- Video series with hospital experts – shared on social media and the website
- Routinely updated regular communications channels



Community Providers

Challenges

Provide community providers with the timely answers and information they need about COVID-19 to better manage their practices and patients/families

- e-Newsletter to 3,100 providers
 When surveyed, 95% of respondents rated these
 communications as "valuable" or "extremely valuable."
- Eight Virtual Town Halls

 When surveyed, 98% rated the town halls as "valuable" or

 "extremely valuable."
- Provider FAQs page on childrensmercy.org

Schools / Health Departments

Challenges

- Helping schools get kids back in the classroom safely.
- Working in conjunction with the local health departments.

Solutions

- Created an online portal for school districts and early childhood centers to request assistance/submit questions.
- Developed a Return to School guidebook available on our website.
- Developed an email newsletter distributed every other week

Returning to school during COVID-19

Information for educators and school health professionals

Children's Mercy is committed to helping children return safely to school during the COVID-19 pandemic. We have compiled resources for school healthcare professionals to help children as group activities and facilities re-open.



Guidance for school re-opening

As a community, we're facing decisions about returning to school while our community is still experiencing rises in COVID-19. Experts at Children's Mercy developed resource to help the community - both families and administrators - navigate school reopenings during COVID-19.

Read the guidebook >

Local and Regional Media

Challenges

- Controlling the narrative
 - First COVID-19 patient
 - Furloughs
 - Getting Back to Getting Better
- Getting updated/timely information to the community and patient population

- Announcements/updates were first posted in CM's newsroom and shared on our social media platforms followed by a news conference
- Created a COVID-19 "update" graphic for social media to alert media of new information
- Shared videos of our experts answering FAQ



Community Leaders / Donors

Challenge

 Keeping community leaders and donors understanding our financial challenges and maintaining their support

Solutions

- Roundtables for select business and community leaders
- Town Halls for donors
- E-Newsletters geared specifically to business leaders and to donors



April 13, 2020

COVID-19 Updates from Children's Mercy

Partnering to Meet the Challenge Ahead

I am pleased and encouraged to see the progress being made on both sides of the state line to prepare our communities for the anticipated surge of COVID-19 patients. To meet this unprecedented challenge, hospitals and health systems throughout the region are working together to increase bed capacity. At Children's Mercy Kansas City, we've developed a threetiered plan to help.

First, as announced this week by Kansas Governor Laura Kelly, Children's Mercy Kansas City has offered to receive pediatric patients from across Missouri and Kansas in order to allow for immediate local bed availability for those adult facilities where surge requirements are likely to be the greatest.

Secondly, we are preparing to accept young adult patients up to age 26 who may be able to be appropriately cared for by us at Children's Mercy. As the surge evolves, we are recommending that hospitals who currently have hospitalized pediatric and young adult patients coordinate with us by calling 1 (800) GO-MERCY / 1 (800) 466-3239 for transfer of those patients.

Finally, we also have offered to temporarily convert our 52-bed hospital in Overland Park,

Questions & Answers



Questions and Discussion

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