**PEDIATRIC NURSING IN** THE PANDEMIC: WHAT IS **BEYOND OUR SCOPE OF** PRACTICE?

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**Objectives** 

Examine the changing landscape of pediatric hospital admissions during the pandemic

• Identify ethical challenges faced by pediatric nurses caring for children in sub-optimal therapeutic conditions stemming from the COVID-19 pandemic

· Develop insights into how effects from the pandemic might influence or change

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#### Roadmap

- Expected challenges and what happened

- · Part 1: Challenges made worse by the pandemic
- · Part 2: Challenges that were improved by the pandemic

• Part 3: What this means for pediatric nursing

Caring for Critically III Adults With Coronavirus Disease 2019 in a PICU: Recommendations by **Dual Trained Intensivists\*** 

Kenneth E. Remy, M.D., MHSc, FCCM<sup>12</sup>; Philip A. Verhoef, M.D. PhD, FAAP, FACP, ATSF<sup>24</sup>; Jay R. Malone, M.D., PhD<sup>13</sup>; Michael D. Ruppe, MD<sup>2</sup>; Timothy B. Kaselitz, M.D., MPH<sup>2</sup>; Frank Lodeserto, MD<sup>24</sup>; Eliotte L. Hirsbberg, M.D. MS, FCCM, FAAP, ATSF, FASE<sup>2</sup>; Anthony Slonim, M.D., DPH<sup>24</sup>; Cameron Dezfullan, M.D., FAHA<sup>3</sup>

Children's Hospital ICU Resource Allocation in an Adult Pandemic

The NEW ENGLAND JOURNAL of MEDICINE

CORRESPONDENCE

Repurposing a Pediatric ICU for Adults

The Ethics of Creating a Resource Allocation Strategy During the COVID-19 Pandemic

Should Pediatric Patients Be Prioritized When Rationing Life-Saving Treatments During COVID-19 Pandemic

Ryan M. Antiel, MD, MSME,\* Farr A. Curlin, MD,\* Govind Persad, Azron Glickman, MPA,\* Ezekiel J. Emanuel, MD, PhD,\* John D. Li

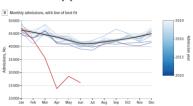
Regional Planning for Extracorporeal Membrane Oxygenation Allocation During Coronavirus Disease 2019

Matthew E. Prekker, MD, MPH; Melissa E. Brunsvold, MD; J. Kyle Bohman, MD; Gwenyth Fisch Kendra L. Gram, MD; John M. Litell, DO; Ramiro Saavedra-Romero, MD; and John L. Hick, MD





#### So what did happen?



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#### Change in ED visits

- 27 US EDs, 2020 compared with 2017-2019
- 36-70% decline in volumes across sites
- · Demographic changes
  - 15-18 y/o increased 2.6%
  - ->19 y/o increased 2.2%
  - CCC increased 4.1%
  - Low-resource intensity visits declined- delayed care?
- Visits for otitis media and URI decreased 75.1% and 69.6%, while visits for suicidal ideation or attempts only decline 4%, diabetes mellitus with complication only decreased 11.1%.

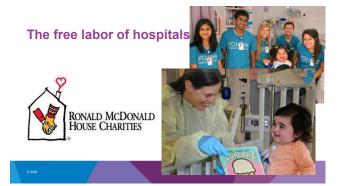
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DeLaroche, A. M., Rodean, J., Aronson, P. L., Fleegler, E. W., Florin, T. A., Goyal, M., ... & Neuman, M. I. (2021). Pediatric Emergency Department Visits at US Children's Hospitals During the COVID-19 Pandemic. Pediatrics.

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#### **Visitation polices**

- Vance, AJ, et al. Visitor Guidelines in US Children's Hospitals During COVID-19. Hosp Pediatr. 2021; doi: 10.1542/hpeds.2020-005772
- n=211
- Two adult visitors= 5%
- Two parents or caregivers= 36%
- One parent or caregiver at a time= 49%
- One designated parent or caregiver= 5%
- No visitation= 3%





#### Impact to bedside care

- 20-27.7% reduction in charges
- DeLaroche et al and Pelletier et a
- · Reduced finances led to furloughs, layoffs, reduced services
- · Reduction of in-person rounds
- · Complex patients must be managed with less

#### Jason: pre-COVID

- 8 y/o with heart failure r/t myocarditis, on BIVAD, listed for transplant, 1A
- Also with some mobility needs related to stroke
- Single mother with limited other family availability
- Daily schedule with many different psychosocial services (teacher, music therapy, volunteers, etc)
- · Even getting outside!



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#### Jason: during COVID

- · Visitor restrictions, no volunteers
- · Reduced multidisciplinary presence
- · Often a paired assignment
- Nursing assistants tied up with 1:1s
- · Jason sits alone in between nursing care
- Online school provides some outlet
- · New behavioral problems emerge

· When is it harmful to limit developmental/psychosocial care?



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#### Jamal: pre-COVID

- 15 m/o born at 22 weeks gestation, lung disease r/t prematurity, trach/vent dependent, several other chronic conditions
- 15 specialists involved in care
- Parents with work during daytime
- Volunteers during the day to hold and interact with
- Up in exersaucer and tumbleform throughout the day
- · Music therapy with OT and PT



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#### Jamal: during COVID

- · No volunteers, psychosocial supports
- · Less interaction
- No music therapy
- Spends most of day in bed
- · Nurse has other patients with high needs as well
- Less in person coordination and communication between specialties
- More medical device issues vent disconnects, decannulations....
- Miscommunications between teams lead to set backs
- This is sub-optimal, but when is it harmful?

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#### Alicia: pre-COVID

- ${\mbox{\ensuremath{\bullet}}}$  15 y/o high school student with ongoing mental health issues
- Supportive school with psychosocial support structures
- · Parents work during the day but home with her in evening
- In-person therapy



#### Alicia

- · School closes, no in home supports, family essential workers
- · Isolation and Ioneliness
- · Mental health declines admitted for suicidal ideation
- · Long wait for mental health inpatient
- Concerns for worsening in hospital while on a med/surg floor not equipped to provide adequate psych care
- No in person psychological supports
- Alternate d/c plan to home with grandmothers
- · Which is better, hospital or home?

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# There is a clear association between loneliness and mental health problems in children and adolescents Hospitalizations at children's hospitals significantly increased during the pandemic Only increase in suicide attempts and more than 40% in disruptive behavior disorders From April to October 2020, hospitals across the U.S. saw a: Company of the Company of the

#### **Impacts**

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- · Increased demand for inpatient psych
- · Increase in "boarding" patients waiting for inpatient mental health
- Nursing assistants (and nurses) being utilized for 1:1 safety assistants instead of being available on the floors
- Increase in children with severe autism and violent behaviors admitted to the hospital due to lack of community supports

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#### Chronic

- Hospital admissions and emergency room visits for suicide attempts doubled at children's hospitals from 2008 to 2015
- 60% increase in the rate of suicide among ages 10-24 from 2007-2018, second leading cause of death
  - Children's Hospital Association
- 2005-2015 study period, the odds of prolonged LOS for mental health ED visits were threefold greater and increased over time

2005-2007 2008-2009 2010-2011 2012-2013 2014-2015

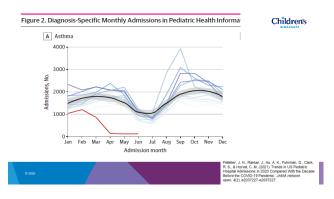
#### Pre-pandemic increases

- Chronic illnesses, such as asthma and autism, and comorbid disabilities associated with neonatal illnesses, such as prematurity, are on the rise.
- Approximately 20% of children younger than 18 years of age now have at least one special healthcare need

Harrison, T. M., Steward, D., Tucker, S., Fortney, C. A., Militello, L. K., Smith, L. H., ... &

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#### Philadelphia, 2020 vs 2015-2019

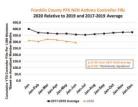
RESULTS: After March 17, 2020, in-person asthma encounters decreased by 87% (outpatient) and 84% (emergency + inpatient). Video telemedicine, which was not previously available, became the most highly used asthma encounter modality (61% of all visits), and telephone encounters increased by 19%. Concurrently, asthma-related systemic steroid prescriptions and frequency of rhinovirus test positivity decreased, although air

Taquechel, K., Diwadkar, A. R., Sayed, S., Dudley, J. W., Grundmeier, R. W., Kenyon, C. C... & Hill, D. A. (2020). Pediatric asthma health care utilization viral testing, and air pollution changes during the COVID-19 pandemic. The Journal of Allergy and Clinical Immunology: In Practice, 8(10), 3378-3387.

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#### Inpatient visits and medication refills





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Taquechel et al, 2020

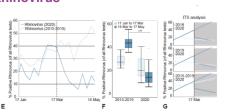
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### Effects of COVID-19 public health interventions on pediatric asthma-related healthcare utilization, respiratory viral testing, and air pollution , 😭 🏫 †···†···† 🎆 Before After Less rhinovirus

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nical 8(10), 3378-

**Rhinovirus** 

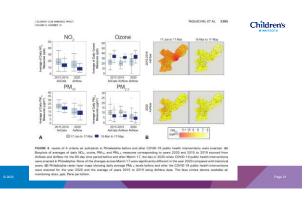


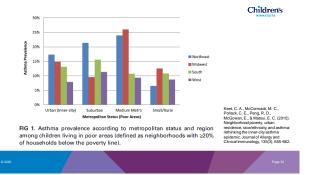
#### 98%-99% reduction in RSV and influenza detection

Title: Figure 1 - (a) Respiratory syncytial virus detections in children from metropolitan Western Australian to the end of winter 2020 in the context of COVID-19 restrictions compared to average epidemic curve (2012-2019)

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Borders Closed - week 12 international borders closed to all
international borders closed to intersequired for all arrivals
Period 1 - week 14 to 17 - Statewide stay-at-home restrictions in
place with achor holidays
extended, borders closed to interservice of the close to international control
international control ot local restrictions removed, except the limitation of major sport and entertainment venues to 50 percent capacity, schools returned to all normal activities.



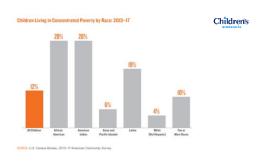


#### Race and asthma

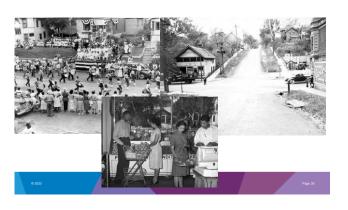
Among children enrolled in Medicaid, residence in inner-city...was associated with significantly more asthma-related ED visits and hospitalizations among those with asthma in crude analyses (risk ratio, 1.48; 95% CI, 1.24-1.36; and 1.97; 95% CI, 1.50-1.72, respectively)

Residence in urban or poor areas and non-Hispanic black race/ethnicity were all independently associated with increased risk of asthma-related ED visits and hospitalizations.

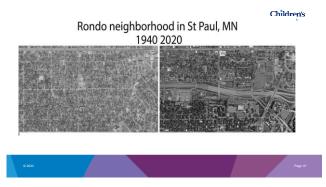
Keet, C. A., Matsui, E. C., McCormack, M. C., & Peng, R. D. (2017). Urban residence, neighborhood poverty, race/ethnicity, and asthma morbidity among children on Medicaid. *Journal of Allergy and Clinical Immunology*, 140(3), 822-827.



https://www.aecf.org/blog/percentage-of-kids-inconcentrated-poverty-worsens-in-10-states-and-puerto/

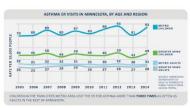








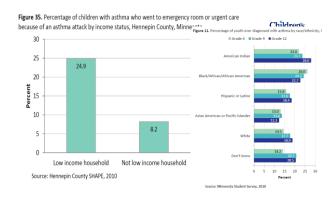
#### 2017 Statewide Health Assessment



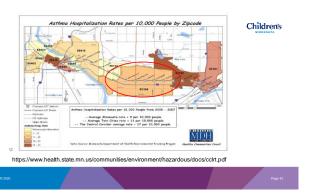
https://www.health.state.mn.us/statewidehealthassessm

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#### Impacts to nursing

- · Barriers to providing "best" care
  - Increases in complex care
  - Less value in care vs treatment
- Social failures
  - Lack of supports for children with autism
- Lack of mental health resources
- Structural causation of preventable acute needs
  - Lack of focus on prevention
  - Environmental impacts
  - injustice

## Racial Segregation and Intraventricular Structural causation Hemorrhage in Preterm Infants





#### **Social dichotomy**



A rat done bit my sister Nell. (with Whitey on the moon) Her face and arms began to swell. (and Whitey's on the moon)

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I can't pay no doctor bill. (but Whitey's on the moon)
Ten years from now I'll be payin' still. (while Whitey's on the moon)

Gil Scott-Heron, 1970

#### **Bearing Witness**

- · Bearing Witness
  - Moral responsibility that legitimizes and authenticates the experience of others, either through visualization, being with, or receiving testimony. Responsibility to respond.
  - Receiving testimony and bearing witness results in a responsibility to respond to injustice in society.
  - "It requires critical examination of one's own values and beliefs and an understanding of how these are produced and sustained in an inequitable social world." Ceci et al (2020), p. 80

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#### **Code of Ethics**

- Nursing Code of Ethics Provision 9.3
  - "...professional responsibility to address unjust systems and structures, modeling - ...|professional responsibility to address unjust systems and address, incoming the profession's commitment to social justice and health through content, clinical and field experiences, and critical thought."

    Fowler, N. D. M. (2008). Guide to the code of efficies for inverse interpretation and application. Nursebooks. org.

Bearing witness to patterned inequalities call for more than just examining one's own personal position, it has an ethical-political obligation to take action

#### The larger question

Our Next Pandemic Ethics Challenge? Allocating "Normal" Health Care Services

by JEREMY R. GARRETT, LESLIE ANN MCNOLTY, IAN D. WOLFE, and JOHN D. LANTOS  $% \left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) \left( \frac{1}{2$ 

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#### **Future pediatric nursing**

- · Children's health is our scope of practice:
  - At the bedside we need to be conscious of when sub-optimal may become harmful, when hospital policies are out of balance with what is essential care
  - When we see increases in preventable admissions due to disproportionate social conditions we have a responsibility to advocate
- · What are our research priorities in pediatrics?
- · Where are our interventions and care focused?



