



Pediatric Health Network

Children's National.

A few notes about today's Webinar

- All lines are muted throughout the webinar.
- Please use the Q&A box to ask questions or make comments.
- Today's Webinar recording, slides and resources will be posted to the PHN website following the presentation.
- You can find past FOP presentations on our website at https://pediatrichealthnetwork.org/future-of-pediatrics/

Upcoming FOP Talks!

DATE/TIME	TOPIC	SPEAKER(S)
July 13 12:00-12:30	Atopic Dermatitis: New Treatment Recommendations	Kaiane Habeshian, MD
July 13 12:00-12:30	Hemangiomas & Port Wine Stain	A. Yasmine Kirkorian, MD
July 27 12:00-12:30	Navigating a World with Asthma Parent Advisory Panel	Candice Dawes, MD & Parent Panel
July 27 12:00-12:30	Less is More: Optimal Duration of Antibiotic Therapy in Ambulatory Pediatrics	Ariella Slovin, MD; David Sullivan, MD; Rana Hamdy, MD, MPH, MSCE

Speakers



Kurt Newman, MD



Bud Wiedermann, MD, MA

Conflict of Interest:

• Receiving funding from Pfizer, Inc, for a pediatric COVID-19 vaccine trial

Speakers



Kofi Essel, MD, MPH

Conflict of Interest:

- No financial or business interest, arrangement or affiliation that could be perceived as a real or apparent conflict of interest in the subject (content) of their presentation.
- No unapproved or investigational use of any drugs, commercial products or devices.

CEO Update

Kurt Newman, M.D.

Twitter: @ChildrensNatCEO

Congratulations to our Pediatric Health Network!

- Reimagining our Future of Pediatrics CME as virtual event (next year in person!)
- Co-hosting COVID Community Town Halls with CNH & AAP chapters
- Implementing our first PHN value-based contracts- and practice payments
- Leading regional Quality Improvement (Mental Health & Asthma)
- Partnering with CNH to improve collaborative care with our CNH specialists

Pediatric Health Network





TOP 7 CHILDREN'S HOSPITAL IN THE NATION

ILDREN'S ISPITALS	SPECIALTY	2021-2022	
SNEWS (Overall Hospital Ranking	7	
NOR ROLL 2021-22	Cancer	5	
	Cardiology and Heart Surgery	38	
	Diabetes and Endocrinology	10	
	Gastroenterology and GI Surgery	20	
	Neonatology	1	
	Nephrology	6	
	Neurology and Neurosurgery	3	
	Orthopedics	6	
	Pulmonology	8	
	Urology	25	

Children's
National
Assumes
Leadership
Role
During
COVID-19
Pandemic

Dr. Biden and Dr. Fauci Visit Children's National on May 20, 2021





Dr. Fauci told reporters, "It is really a pleasure for Dr. Biden and I to be here. This is a phenomenal institution, you know one of the best pediatric hospitals in the world, really, not only in the United States."

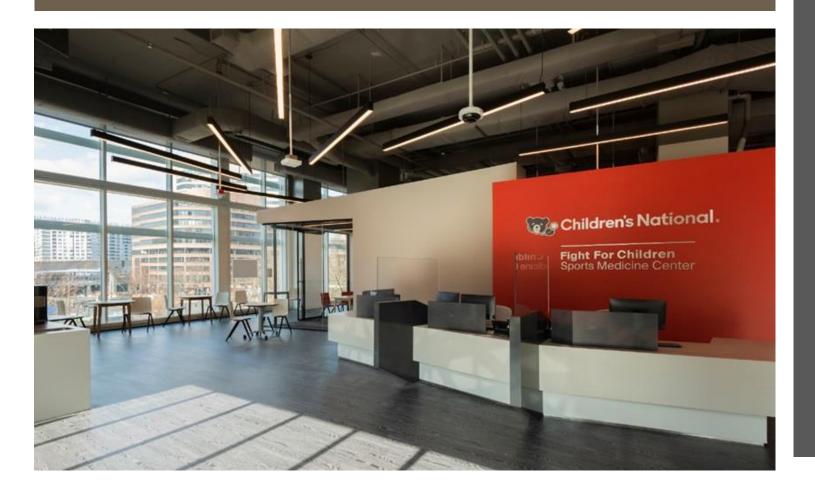


Children's National Takoma Theatre: New Home for Psych & Behavioral Health Programs



- Neuropsychology
- Pediatric Development Program
- Psychiatry
- Psychology and Behavioral Health
- Scottish Rite Center for Childhood Language Disorders

Now Open: Fight for Children Sports Medicine Center in Silver Spring, Maryland

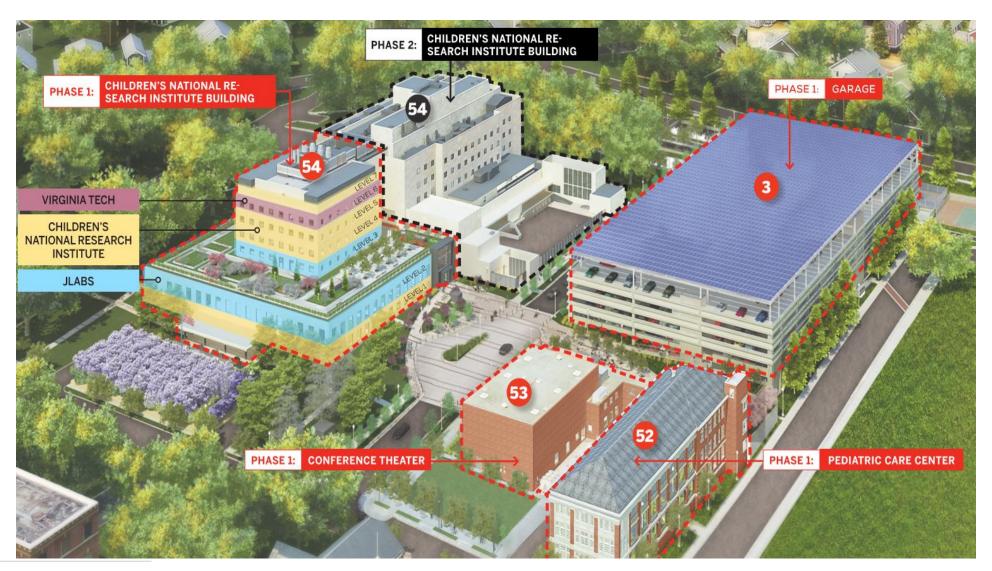


Service offerings at the Fight For Children Sports Medicine Center will expand throughout the year.

Full services will include:

- pediatric and adolescent physical therapy and rehabilitation in a state-of-the-art gym
- sports performance and injury prevention programs
- sports specific motion analysis for performance improvement
- traditional 3D gait analysis.

Opened: The Nation's First Pediatric Research & Innovation Campus



Happy Birthday Children's National: 150 years young!







Thank you!

COVID-19 Update for Pediatric Healthcare Providers

Bud Wiedermann, MD, MA

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Attending in Infectious Diseases, Children's National Hospital
Professor of Pediatrics, The George Washington University School of Medicine and Health Sciences

Conflict of Interest Statement

Dr. Wiedermann receives funding from Pfizer, Inc. for

A Phase 1, Open-Label Dose-Finding Study to Evaluate Safety, Tolerability, and Immunogenicity and Phase 2/3 Placebo-Controlled, Observer-Blinded Safety, Tolerability, and Immunogenicity Study of a SARS-COV-2 RNA Vaccine Candidate Against COVID-19 in Healthy Children <12 Years of Age

Learning Objectives

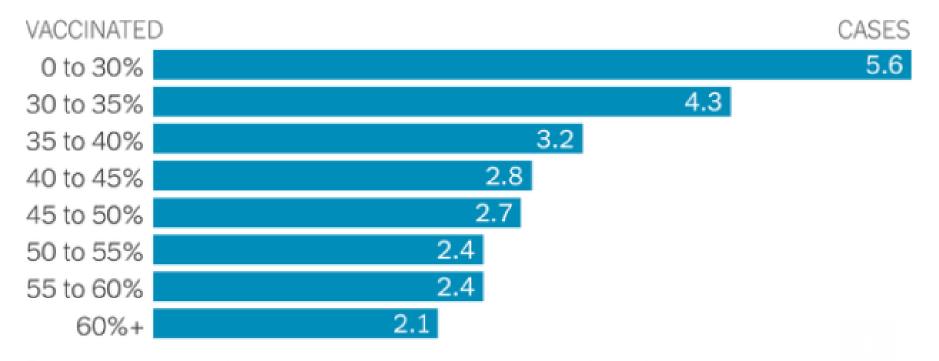
After completing this session, learners will be able to

- Compare epidemiology and nature of links of myocarditis to both COVID-19 vaccination and natural COVID-19 disease
- 2. List features influencing authorization/approval of COVID-19 vaccines for younger children
- Assess criteria for children returning to in-person schooling and competitive sports

The New COVID Epidemiology: Pockets of Disease

New Covid Cases, by a County's Vaccination Rate

Daily average per 100,000 residents, over the week ending June 22



Driven By:

- Unvaccinated clusters
- Delta variant

Counties with unavailable vaccination data are excluded from the chart.

By The New York Times | Sources: State, county and regional health departments

Cardiac Injury and COVID-19 Vaccines: The Big Picture

- All currently authorized COVID-19 vaccines are highly effective
- We only know about the association between vaccines and myocarditis/pericarditis because we have a highly effective tracking system
 - VAERS
 - V-safe
 - Many more
- As of last week, the association is very likely true
- Need to carefully consider benefits vs risks in deciding whether to recommend COVID-19 vaccines

Most commonly reported adverse events to VAERS after Pfizer-BioNTech COVID-19 vaccination* (data thru Jun 11, 2021)

12-15 years old* (N= 2,540)

Adverse event [‡]	n (%)	
Dizziness	618 (24.3)	
Syncope	446 (17.6)	
Nausea	308 (12.1)	
Headache	281 (11.1)	
Vomiting	221 (8.7)	
Pallor	218 (8.6)	
Loss of consciousness	217 (8.5)	
Pyrexia (fever)	215 (8.5)	
Hyperhidrosis	211 (8.3)	
Fatigue	182 (7.2)	

16–25 years old[†] (N= 12,759) (for comparison)

Adverse event [‡]	n (%)	
Dizziness	2,832 (22.2)	
Headache	2,197 (17.2)	
Nausea	1,955 (15.3)	
Pyrexia (fever)	1,948 (15.3)	
Fatigue	1,689 (13.2)	
Chills	1,609 (12.6)	
Pain	1,560 (12.2)	
Syncope	1,257 (9.9)	
Hyperhidrosis	946 (7.4)	
Vomiting	918 (7.2)	

- 12–15 years old: ~6.0 million doses administered (May 10 thru Jun 11, 2021)
- 16–25 years old: ~21.6 million doses administered (December 14, 2020, thru Jun 11, 2021)

CDC Acute Myocarditis Case Definition

Probable Case Confirmed Case

Presence of \geq 1 new or worsening Ditto

Chest pain/pressure/discomfort

Dyspnea/SOB/pain with breating

Palpitations

Syncope

OR for <12 yo ≥ 2 of irritability, vomiting, poor

feeding, tachypnea, lethargy

AND troponin/ECG/echo/MRI suggestive

AND no other identifiable cause

Ditto

Histopathologic confirmation OR elevated

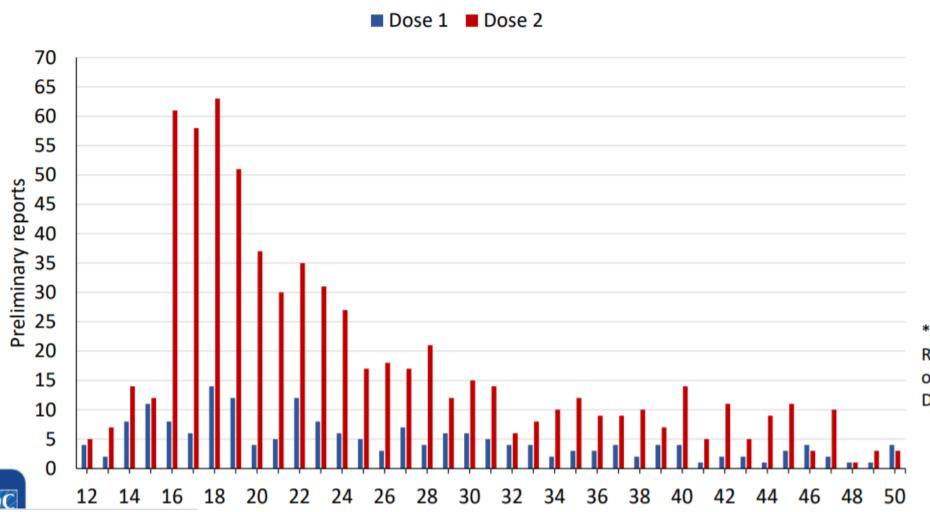
troponin AND positive MRI

Ditto

Preliminary reports of myocarditis/pericarditis to VAERS after mRNA COVID-19 vaccination by age and dose number*

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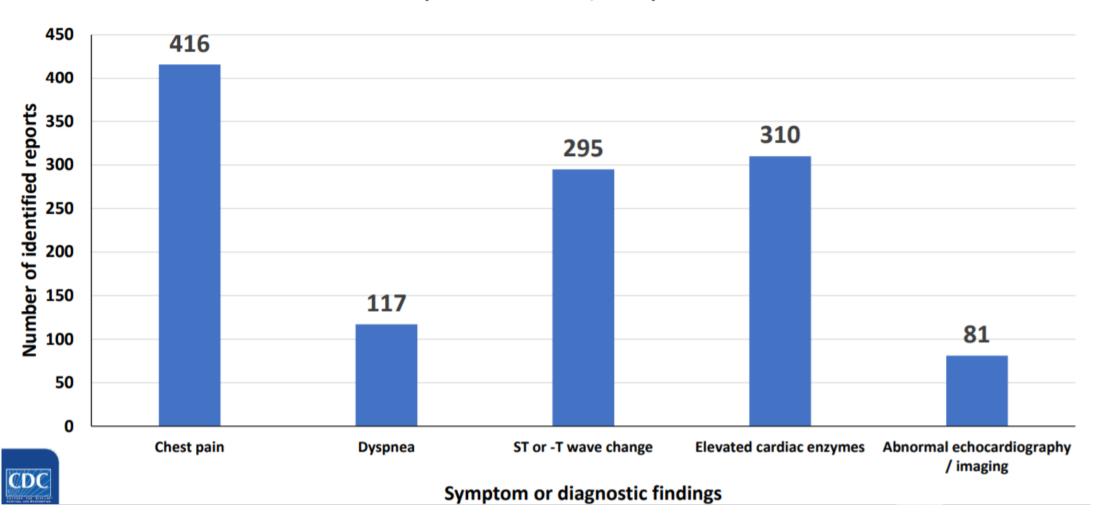
(as of Jun 11, 2021)



^{*} Age truncated at >50yr: Reports of persons >50yr of age include 70 after Dose 1, 119 after Dose 2

Symptoms and diagnostic findings of preliminary myocarditis/pericarditis reports after mRNA COVID-19 vaccination under review, limited to ≤29 years old (N=484)

(data thru Jun 11, 2021)



Myocarditis/pericarditis chart confirmed rates in VSD in 21-day risk interval, 12-39-year-olds

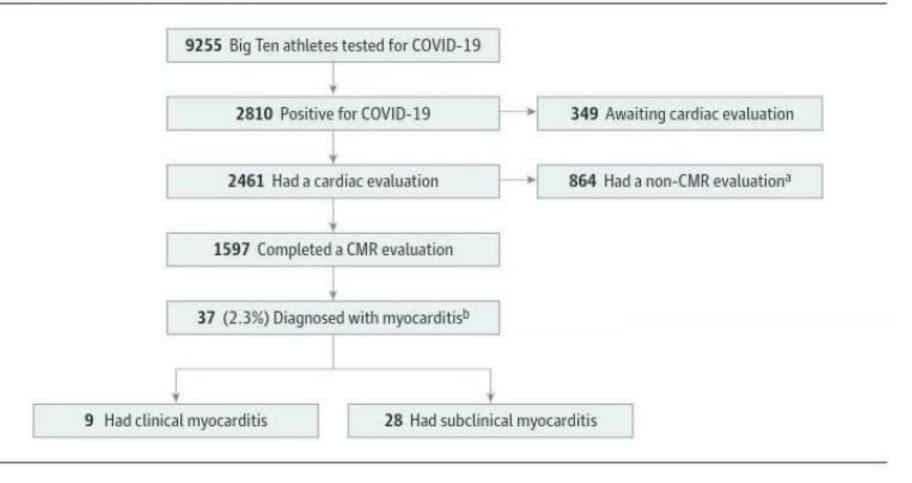
(thru Jun 5, 2021)

Vaccine(s) (dose #)	Cases	Doses admin	Rate per million doses (95% CI)
mRNA (both doses)	26	3,418,443	8 (5.3–11.8)
mRNA (dose 1)	8	1,879,585	4.4 (1.9–8.8)
mRNA (dose 2)	18	1,538,858	12.6 (7.5–19.9)
Pfizer-BioNTech (dose 1)	3	1,211,080	2.6 (0.5–7.7)
Pfizer-BioNTech (dose 2)	7	958,721	8.0 (3.2–16.5)
Moderna (dose 1)	5	668,505	7.5 (2.4–17.6)
Moderna (dose 2)	11	580,137	19.8 (9.9–35.5)



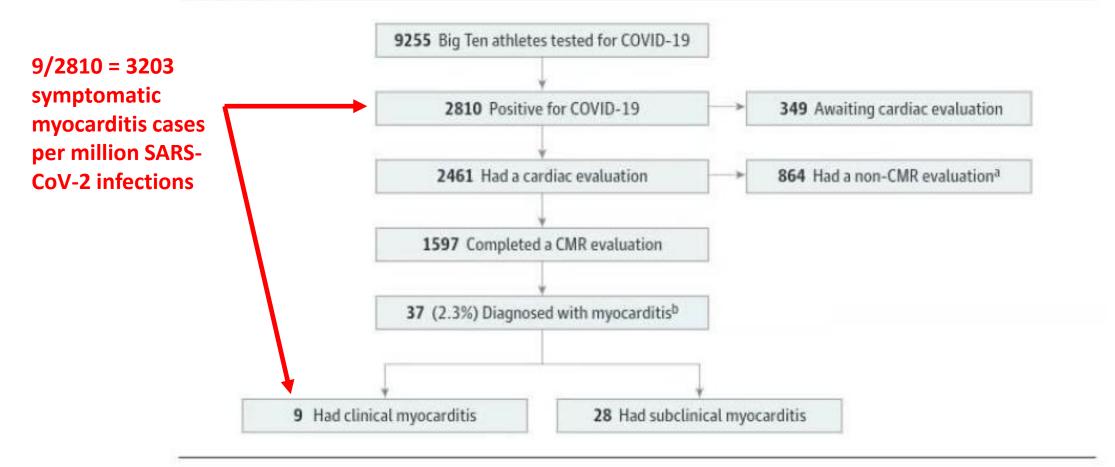
Comparing Apples and Oranges

Figure 1. Cohort of Big Ten Athletes



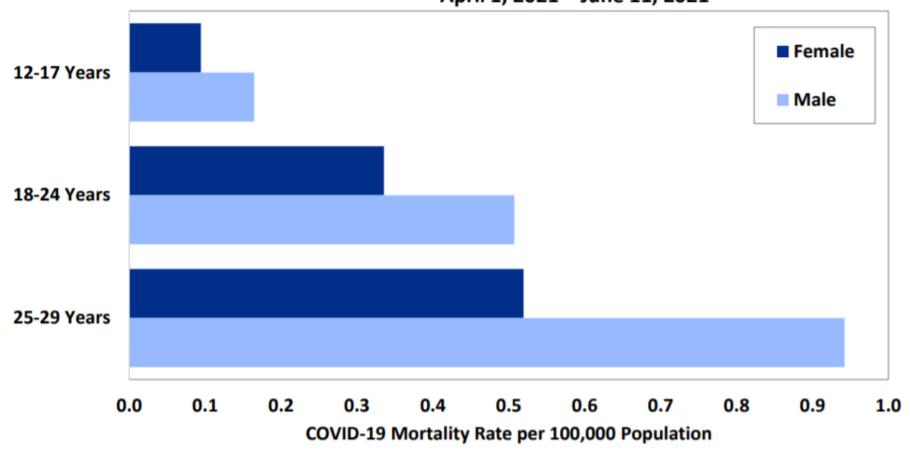
Comparing Apples and Oranges

Figure 1. Cohort of Big Ten Athletes



COVID-19-associated deaths continue to occur in adolescents and young adults

COVID-19 Mortality Rate per 100,000 Population, by Age Group and Sex April 1, 2021 – June 11, 2021



Since beginning of pandemic,

2,767 COVID-19 deaths have been reported among persons aged 12-29 years;

316 deaths reported since April 1, 2021

https://covid.cdc.gov/covid-data-tracker/#demographics

Predicted cases prevented vs. myocarditis cases for every million second dose vaccinations over 120 days

Females 12-17 Years



8,500 COVID-19 cases prevented



183 hospitalizations prevented



38 ICU admissions prevented

1 death prevented

8–10 myocarditis cases



Males 12-17 Years



5,700 COVID-19 cases prevented

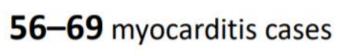


215 hospitalizations prevented



71 ICU admissions prevented

2 deaths prevented





Hospitalizations, ICU admissions and deaths based on data for week of May 22, 2021.

Bottom Line: Keep Vaccinating!
(...and be able to answer questions from patients and families)

What's Different About Testing COVID-19 Vaccines in Younger Children?

- Unlike the adolescent/adult trials, not designed (powered) to determine true efficacy – likely too few children to see significant differences in infection rates between placebo and vaccine
 - Instead will be "immunobridging" trial as means to assess likely efficacy
 - A bit difficult since we don't absolutely know an immunity cutoff for protection
 - Looking at neutralizing antibody, B cell memory, T cell responses (none of which are available with commercial antibody testing)
- Safety paramount
 - Local reactions, systemic reactions (fever, fatigue, headache, chills, vomiting, etc), AEs, SAEs

Timeline for Authorization for Young Children

- Place your bets (I'm not betting)
- Some press releases have hinted about EUA submission is early as September
- Some concern expressed at last week's ACIP meeting not to push EUA for children under 5 yo

Are You Sick of Hearing About the "New Normal?"





Everyone Agrees In-Person Learning is Desired

- Evidence suggests that many K-12 schools that have strictly implemented prevention strategies have been able to safely open for in-person instruction and remain open.
- CDC's K-12 operational strategy presents a pathway for schools to provide inperson instruction safely through consistent use of prevention strategies, including universal and correct use of masks and physical distancing.
- All schools should implement and layer prevention strategies and should prioritize universal and correct use of masks and physical distancing.
- Testing to identify individuals with SARS-CoV-2 infection and vaccination for teachers and staff provide additional layers of COVID-19 protection in schools.

High-Risk Focus: PCPs and Specialty Partnership Vaccinate the Household!

DC AAP High Risk Student List

- Chronic lung disease, asthma (moderate or severe)
- Diabetes
- Genetic, neurologic, or metabolic conditions
- Heart disease since birth
- Immunosuppression
- Medical complexity
- Obesity
- Sickle cell disease

Return to Sports After COVID-19: AAP Summary

- Asymptomatic/mildly symptomatic infection
 - Initial phone or telehealth visit OK
 - Ask about chest pain, SOB. Palpitations, syncope
- Moderately symptomatic infection (but no MIS-C)
 - No exercise until cleared by provider after resolution and end of quarantine
 - AHA 14-element screening
 - PE and ECG
 - If all OK, gradual return to physical activity
- Severe infection or MIS-C
 - No exercise 3-6 months
 - Obtain cardiology clearance



Thank you!

The recording, presentation and materials will be posted on our website within 1 week.

Questions? Contact us at phn@childrensnational.org