



Vaccines, Boosters and Variants: An Update on COVID-19

January 18, 2022

Michael Slubowski

President and Chief Executive Officer

Dan Roth, M.D.

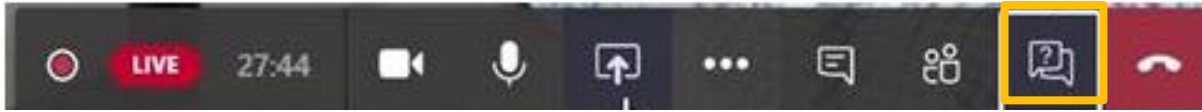
Executive Vice President and Chief Clinical Officer

Tammy Lundstrom, M.D., J.D.

Senior Vice President and Chief Medical Officer

Welcome to our Friends and Family Town Hall

- Thank you for joining!
- All lines are muted
- To ask a question, type it in the Q&A



- Questions not yet answered will be published and answered during or after the event
- This event is being recorded; the link will be shared following the meeting
- Please display your name

Presenters



Michael Slubowski
President and Chief
Executive Officer



Julie Fitzgerald, M.D.
Division Director, Pediatric
Critical Care
Medical Director, PICU
Loyola Medicine



Dan Roth, M.D.
Executive Vice President
and Chief Clinical Officer



Tammy Lundstrom, M.D., J.D.
Senior Vice President
and Chief Medical Officer

A close-up photograph of two hands, one lighter-skinned and one darker-skinned, being held together in a supportive grip. The image is overlaid with a semi-transparent teal filter.

Reflection

Julie Fitzgerald, M.D.

Division Director, Pediatric Critical Care
Medical Director, PICU
Loyola Medicine

Loyola Medicine Helps Toddler Survive COVID

"Nothing you do for children is ever wasted." - Garrison Keillor



Little Leo Di Fazio was just 2 lbs. 9 oz. at birth. During a stay at Loyola Medicine's NICU, his strong heart earned him the nickname Leo the Lion. Sadly, after being exposed to COVID-19 by a playmate, Leo returned to Loyola as a toddler and was placed on a ventilator. Leo, his family and the dedicated team of nurses and doctors in the pediatric ICU refused to give up and forged a special bond.

"That's really some sincere kindness... from people that you barely know."

- Leo's father, Dominic



Welcome

Mike Slubowski
President and CEO

One of the Largest Catholic Health Care Systems in the Nation

\$20.2B

In Revenue

25

States

1.4M

Attributed Lives

\$1.2B

Community Benefit Ministry

115K

Colleagues

6.8K

Employed Physicians
& Clinicians

25.8K

Affiliated Physicians

88

Hospitals*

17

Clinically Integrated
Networks

131

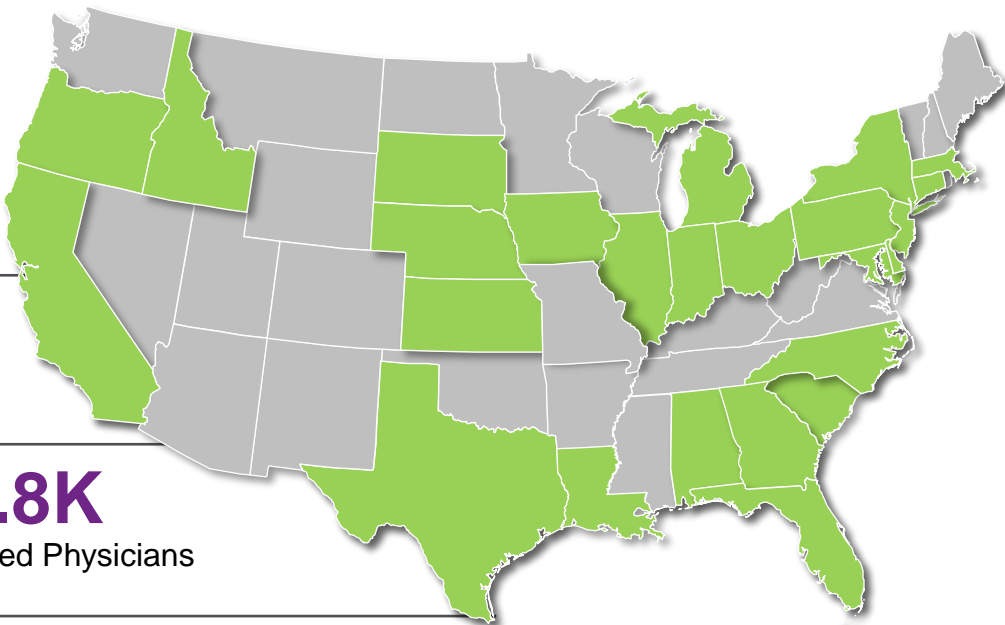
Continuing
Care Locations*

25

PACE Center
Locations*

125

Urgent Care
Locations*



FY21 data unless noted

Exclusions: Mercy Chicago Hospital transitioned to Insight Chicago (June 2021); Mercy Philadelphia Hospital transitioned to Penn Medicine (March 2021)

*Owned, managed or in JOAs or JVs

v: 10.25.21

Our Mission

We, Trinity Health, serve together in the spirit of the Gospel as a **compassionate and transforming healing presence within our communities.**

Our Core Values

Reverence | Commitment to Those Who are Poor

Safety | Justice | Stewardship | Integrity

Our Vision

As a mission-driven innovative health organization, we will become the national leader in improving the health of our communities and each person we serve. We will be the **most trusted health partner for life.**

COVID-19: At-A-Glance

- **1,172,761** Vaccine doses given
- **99%** of Trinity Health colleagues met our vaccine requirement
- **70,416** COVID-19 patients discharged to home
- **2,101** COVID-19 patients hospitalized at Trinity Health
- **4,419** Healthcare workers exposed or confirmed COVID-19



A photograph of a female doctor with curly hair, wearing a white lab coat and a stethoscope, smiling as she examines a young girl's ear with an otoscope. The girl is wearing a patterned hospital gown. The entire image is overlaid with a semi-transparent green filter.

COVID-19 Vaccine, Booster and Variants

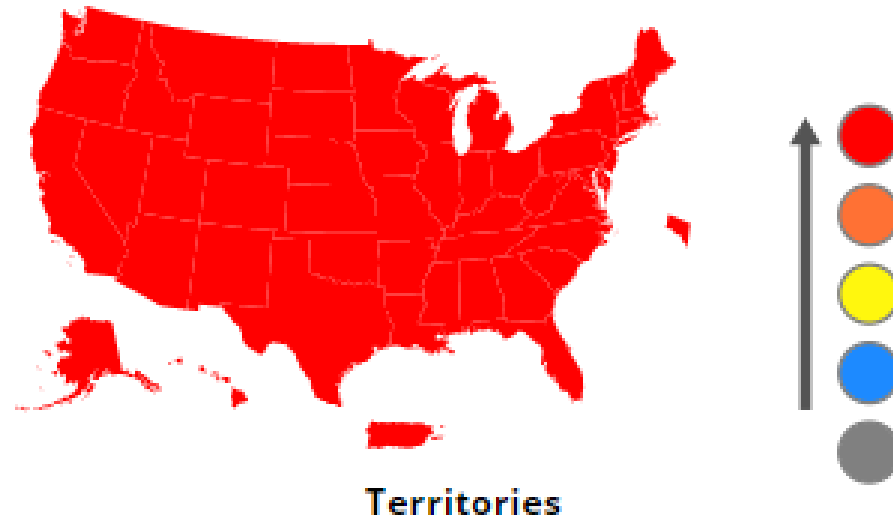
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Cases over the last 7 days are increasing, with 782,766 new cases per day in the US – a 33.2% increase

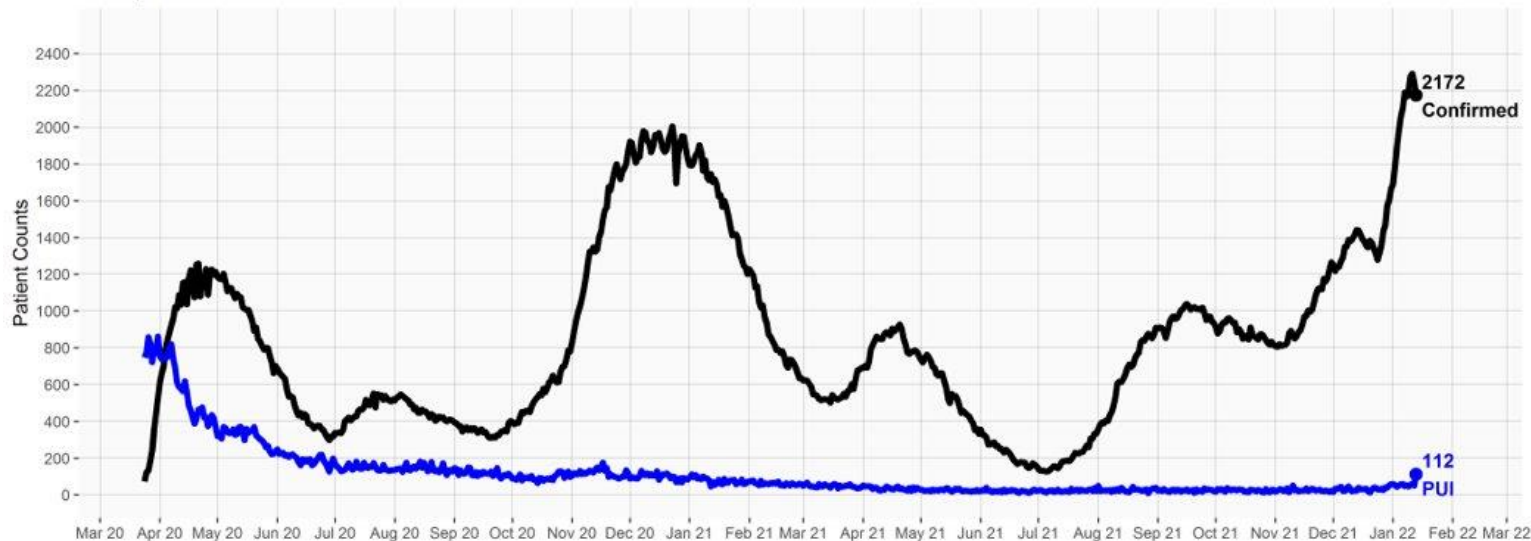


As of 1/12/22

Consistent with national figures, hospitalizations remain high at Trinity Health

Inpatient Confirmed Cases and Persons Under Investigation

Last Update: 2022-01-13



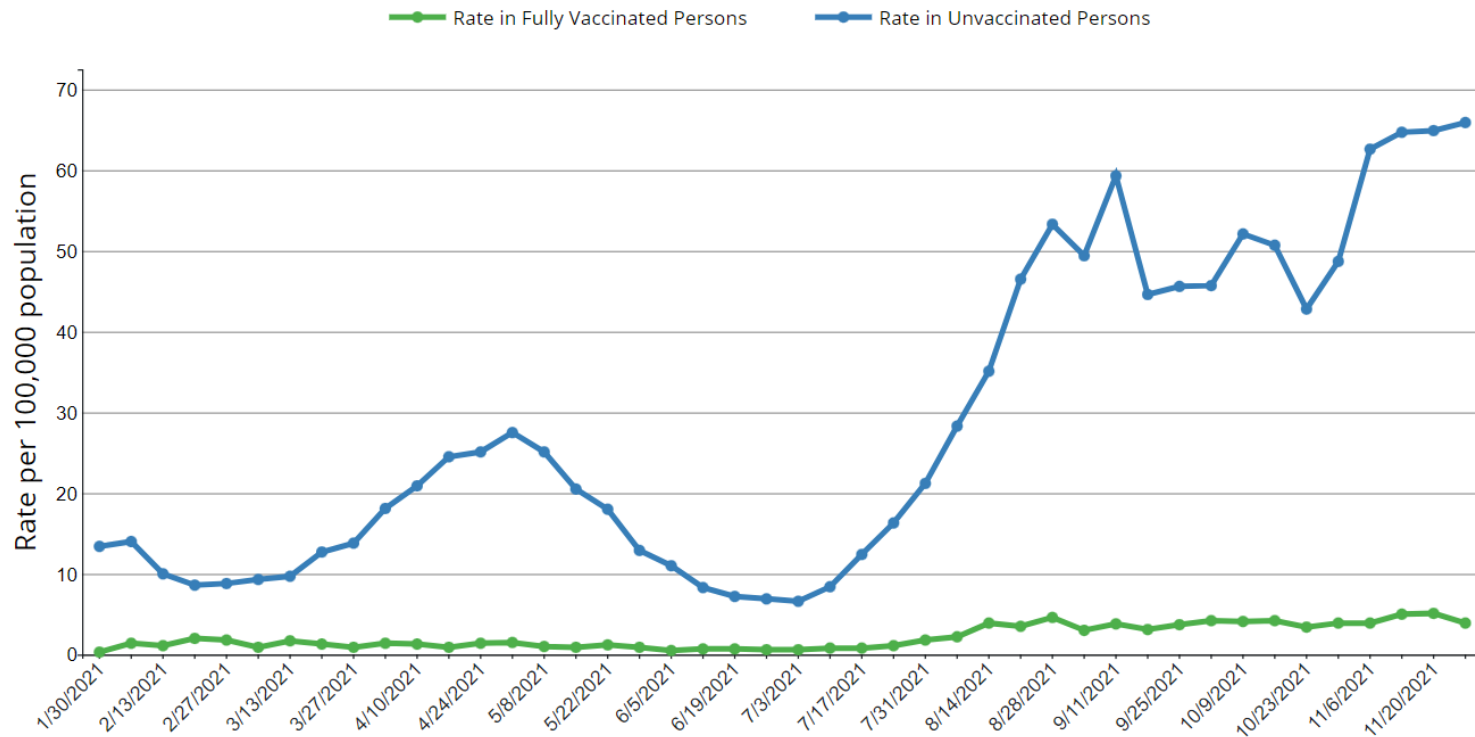
Average U.S. daily hospitalization 20,637

24.5% increase from prior 7-day average

As of 1/13/22

Trinity Health daily hospitalization 2172

The overwhelming majority of hospitalizations are in those who are unvaccinated



Unvaccinated have much greater chance of hospitalization

13x Higher in Unvaccinated Adults Ages 18 Years and Older

10x Higher

in Unvaccinated
Adolescents
Ages 12-17 Years

17x Higher

in Unvaccinated Adults
Ages 18-49 years

16x Higher

in Unvaccinated Adults
Ages 50-64 years

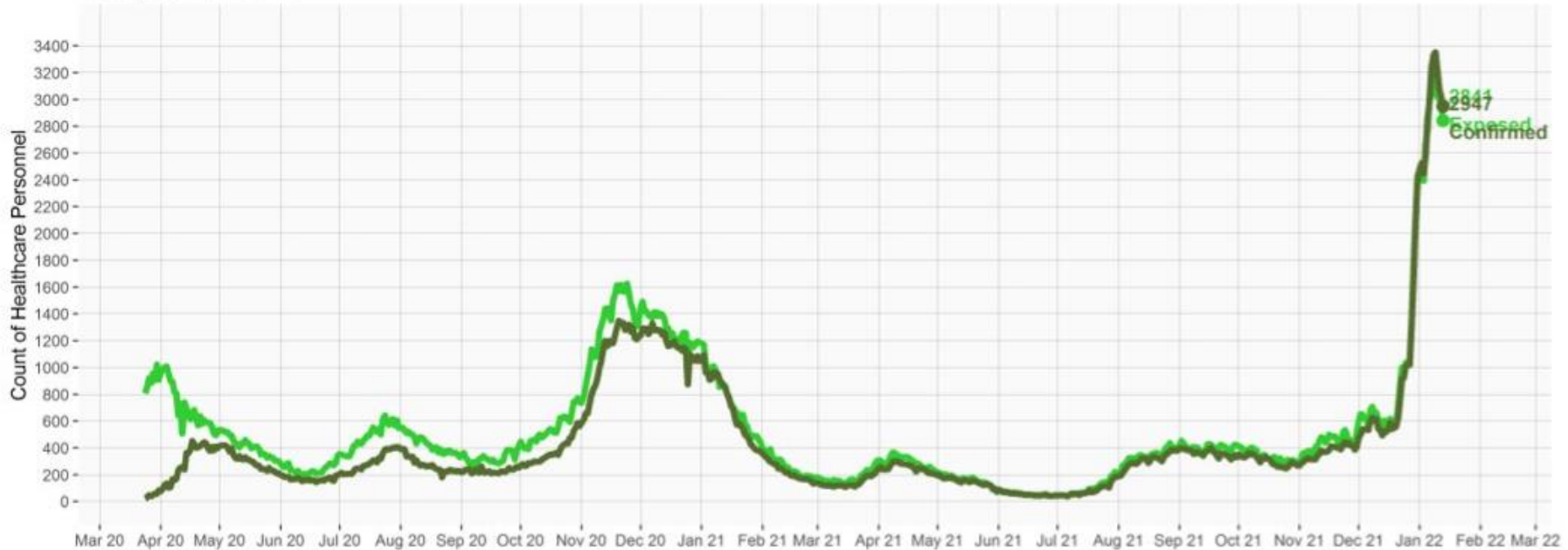
12x Higher

in Unvaccinated Adults
Ages 65 Years and Older

Omicron leading to rise in healthcare workers with COVID-19 infection or exposure

Healthcare Personnel Excluded from Work Secondary to Exposure or Confirmed

Last Update: 2022-01-13



Omicron variant suspected in 98% of cases and driving infections at a rapid rate



- Viruses mutate over time, some more easily than others
- Omicron has emerged as the dominant variant
- More infectious
- ***The vaccines still work – and are highly effective against hospitalization and severe illness***
- A vaccinated person is less likely to spread the virus than an unvaccinated person
- Breakthrough cases are more common with Omicron, but generally result in mild illness. More infectious and severe among unvaccinated persons
- Booster doses are key to further decrease risk of infection in those whose immunity may have waned over time and now available to ages 12 and up
- A study done by the CDC demonstrated risk of reinfection with COVID for those who had suffered COVID illness was 2.3 times less likely if they received vaccination after they had recovered from COVID illness

What We Know About Variants

- Vaccines are very effective against severe disease, hospitalization, and death, as variants emerge.
- Taking steps to reduce the spread of infection, including staying up to date with COVID-19 vaccination including boosters to be optimally protected, are the best way to slow the emergence of new variants.

| Delta | Omicron | Other Emerging Variants |
|--|--|---|
| <ul style="list-style-type: none">• May cause more severe cases than the other variants• Responds to treatment with FDA-authorized monoclonal antibody treatments | <ul style="list-style-type: none">• Spreads faster and more easily than Delta• Less severe cases• Most U.S. cases are Omicron• Booster is crucial at preventing severe illness from Omicron• Some monoclonal antibody treatments may not be as effective against Omicron | <ul style="list-style-type: none">• New variants of the virus are expected to continue to emerge• As of Jan. 14, 2022, CDC is monitoring 10 additional variants of the virus that causes COVID-19• Latest info at: What You Need to Know About Variants CDC |

A majority (62.5%) of those in the US currently eligible for vaccination are fully immunized

- **62.9% of total U.S. population** now fully vaccinated
 - Ages 5+ 66.5%
 - Ages 12+ 71.8%
 - Ages 18+ 73.5%
 - Ages 65+ 88%
- More than **639.6 million doses administered** in the U.S.
- More than **79.7 million booster doses administered** (38.1% of the US population has been boosted)
- The **vaccine is safe**
- It is **effective against the Delta variant and other variants**
- It is **effective against severe illness and hospitalization**



(Data as of 1/16/22)

Pregnant women at increased risk for poor outcomes with COVID-19

COVID-19 infection in pregnancy:

- Increases the risk of **preterm birth**
- Increases the risk of baby being admitted to the **Neonatal Intensive Care Unit (NICU)**
- Increases the risk of **stillbirth**
- 97% of pregnant women hospitalized with COVID-19 are unvaccinated

Pregnant women who are unvaccinated:

- Are 60% more likely to go into preterm labor
- Have a 70% increased risk of death from COVID-19 illness
- Three times as likely to be admitted to the ICU



More CDC data on vaccination in early pregnancy shows no concerns

- Earlier studies showed no increase in spontaneous abortion, stillbirth or small for gestational age
- 2,500 pregnant women- no increased risk of miscarriage in those who received mRNA vaccine before 20 weeks gestation (13% vs. 11-16%)
- Currently there is no evidence linking vaccines to infertility
 - Over 4,800 women had a positive pregnancy test after getting vaccination
- Studies in 45 healthy men showed no significant changes in sperm counts or characteristics after vaccination



Scottish study demonstrates the devastating effects of COVID infection during pregnancy

| | Delivered within 28 days of COVID infection | Delivered with no COVID infection |
|-------------------------------------|---|-----------------------------------|
| Maternal death rate per 1000 births | 22.6 | 5.6 |
| Preterm birth rate | 16.6 | 10.2 |
| Perinatal death rate | 8.0 | 5.6 |

Unvaccinated pregnant women compared to vaccinated

- Comprised 77.4% of infections
- Comprised 90.9% of COVID hospitalizations
- Comprised 98% of pregnant women requiring ICU care

Vaccinating children is safe and effective

- 7.5 million children (27%) ages 5-11 have received at least one dose of the COVID-19 vaccine
- 15.9 million children (64%) 12–17 years old have received at least one dose of the COVID-19 vaccine
- 13.3 million children (53%) 12-17 are fully vaccinated
- More children are being hospitalized with COVID-19: 1,902 inpatients, comprising 2.4% of all hospitalizations in recent surge
- COVID-19 is currently the eighth leading cause of death in children
- Children experienced similar side effects as adults

(*Data as of 1/12/22)



Vaccinations for Kids Ages 5-11

- There are about 28 million children between the ages of 5-11 and nearly 2 million cases of COVID-19 in this age group.
- Only 17% of this population is fully vaccinated
- COVID-19 is one of the **top 10 causes of death** for children ages 5-11



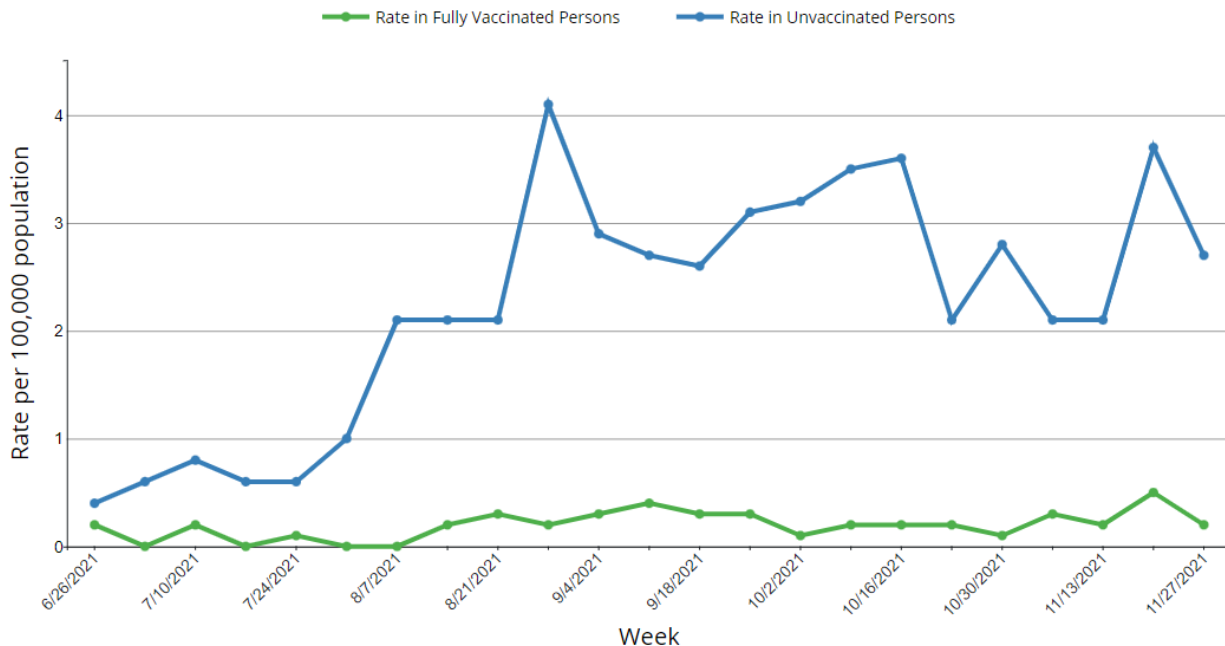
As Omicron cases have increased, so have hospitalizations of children

- Highest hospitalization of children during the pandemic
- 877 children hospitalized nationally
- 13.6% increase from previous week



Most children hospitalized are unvaccinated

Rates of COVID-19-Associated Hospitalizations by Vaccination Status in Adolescents Ages 12–17 Years, June–November 2021



COVID-19 Treatments



Monoclonal Antibody Treatment

- Only one is effective against Omicron

Evusheld

- Pre-exposure
- Administered every 6 months to those with compromised immune systems who may not respond to vaccination



Remdesivir

- For outpatient use 12 and older and at high risk to severe illness

COVID-19 Treatments

Paxlovid



- Outpatient treatment for ages 12+ who are COVID-19 positive with high risk from severe illness
- Oral pill
- Taken within 5 days of symptom onset
- Supply currently short but expected to increase by late spring

Molnupiravir



- Outpatient treatment for ages 18+ who are COVID-19 positive with high risk from severe illness and are not | eligible for alternative FDA-authorized COVID-19 treatment options
- Oral pill
- Taken within 5 days of symptom onset

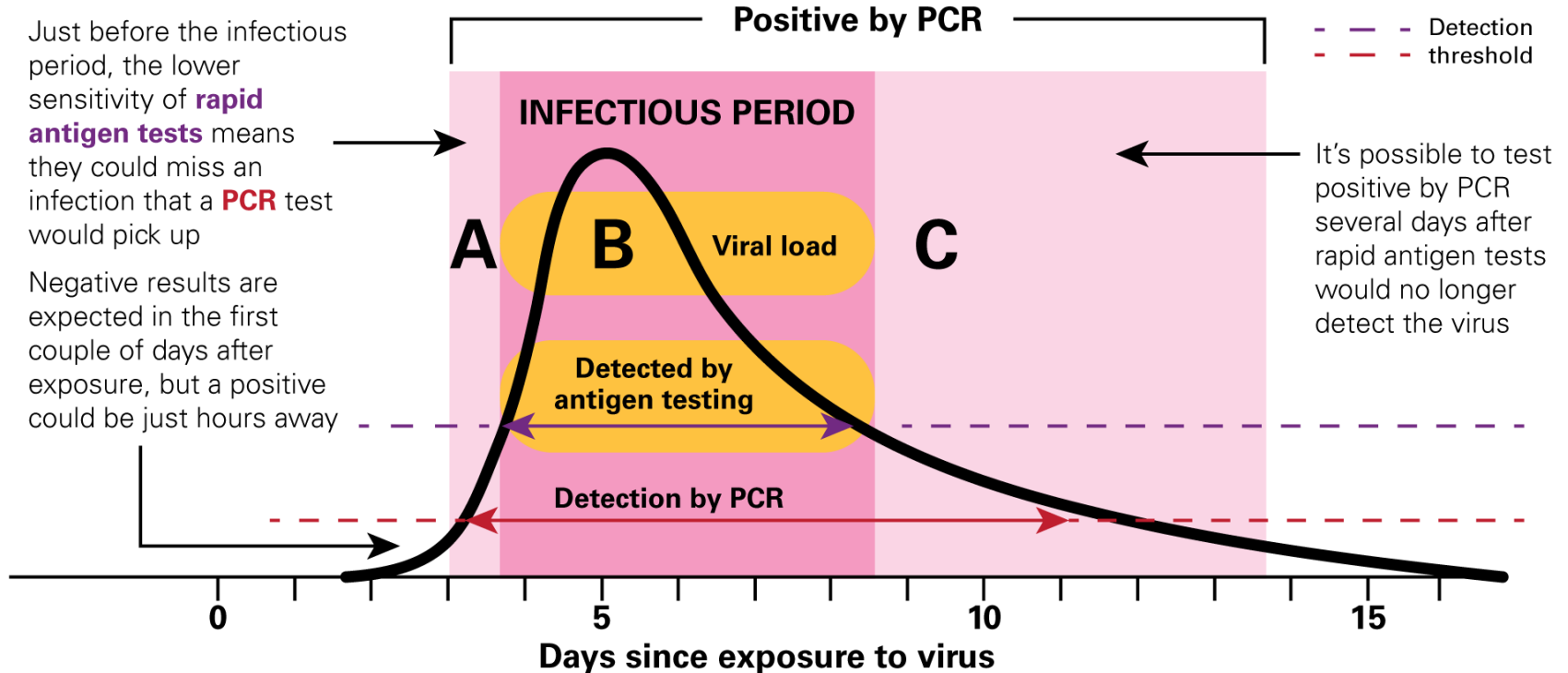
Testing is one of the key tools in our fight to limit infections and safely resume normal activities



There are different types of tests:

- **PCR** – detects genetic material specific to the virus
- **Rapid antigen tests** – can be done at a doctor's office, clinic, hospital or at home. Results are usually available about 15 min.

What do tests pick up?



When will the pandemic become endemic?

- COVID-19 will not go away completely but will become more seasonal with fewer hospitalizations and deaths
- Vaccines have helped move us closer to an endemic state, but we still have challenges
 - Children younger than 5 are not yet able to be vaccinated
 - More people need to become vaccinated and stay up to date with vaccination for optimal protection
- It will remain a pandemic until it no longer disrupts the health care system

What needs to happen before COVID-19 is endemic

- In order to become endemic, the spread of COVID-19 needs to be controlled. This means:
 - Everyone who can be vaccinated, should get vaccinated and stay up-to-date on vaccination for optimal protection against severe illness and death
 - Wear a mask when in public places
 - Practice good hand hygiene by washing hands often
 - Stay home if you are ill

Mythbusters

- Being near someone who has been vaccinated can:
 - affect my menstrual cycle
 - give me COVID-19
- I'm better off getting Omicron
- Vaccination causes irregular menstrual cycle, which can lead to infertility
- Vaccination causes COVID variants
- There are thousands of vaccine-related deaths

Mythbusters

- These alternative methods to prevent or treat COVID:
 - Vitamins C, D and Zinc
 - Ivermectin
 - Colloid silver
 - Viagra



Q&A