

# **COVID-19 Vaccine Update**

**Meg Fisher, MD  
December 9, 2021**

# Disclaimer

Information about COVID-19 and SARS-CoV-2, the virus that causes the illness is evolving daily

Recommendations change frequently

What you hear today may be outdated soon

Trusted sources of up-to-date information

- NJ Department of Health - [www.nj.gov/health/](http://www.nj.gov/health/)
- Centers for Disease Control and Prevention - [www.cdc.gov](http://www.cdc.gov)
- American Academy of Pediatrics – [njaap.org/](http://njaap.org/), [www.aap.org](http://www.aap.org) and [www.healthychildren.org](http://www.healthychildren.org)

# Global Incidence



As of 12/8/21

**694,484**

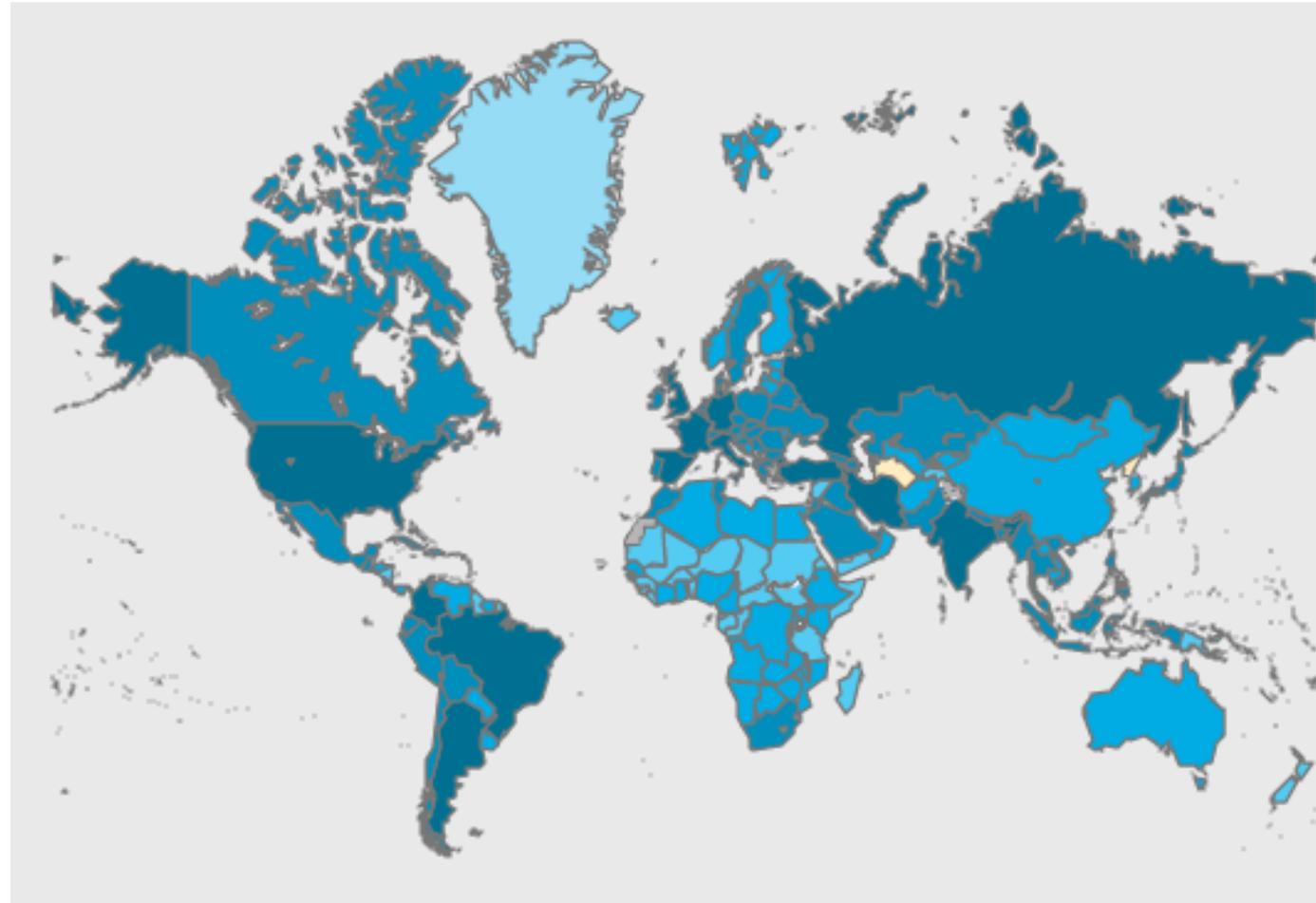
new cases in last 24hrs

**266,504,411**

cumulative cases

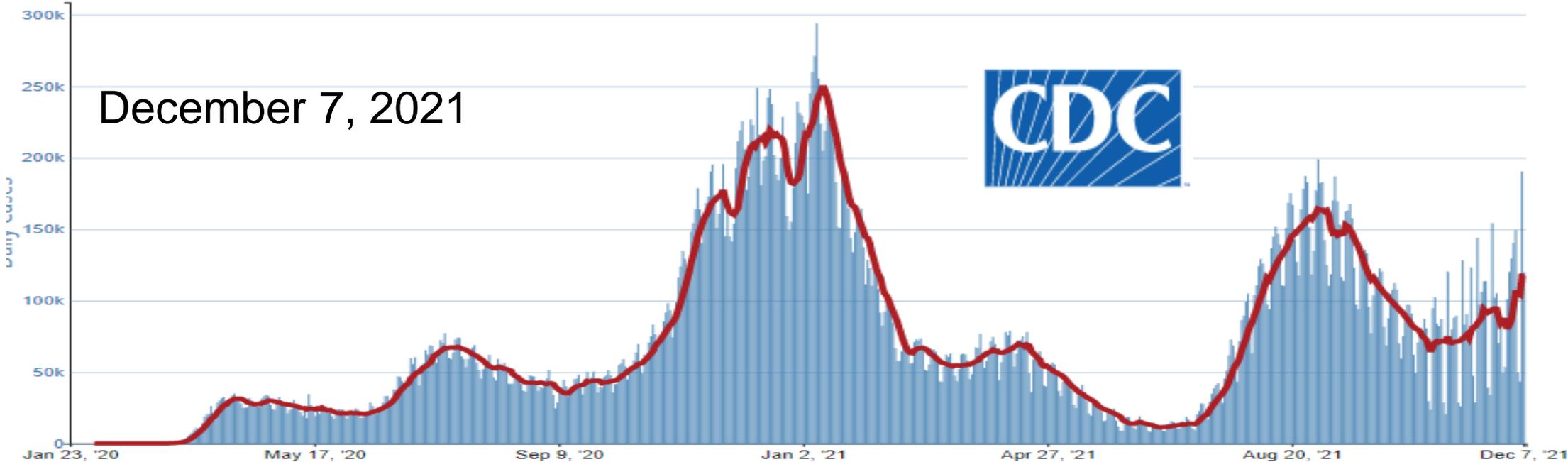
**5,268,849**

cumulative deaths

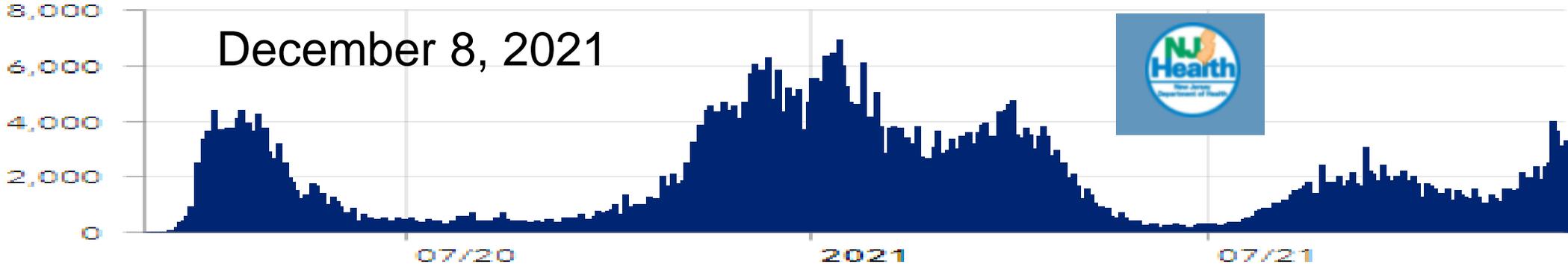


<https://covid19.who.int/>

# COVID-19 Cases in the US and in NJ



[https://covid.cdc.gov/covid-data-tracker/#trends\\_dailycases](https://covid.cdc.gov/covid-data-tracker/#trends_dailycases)



[https://www.nj.gov/health/cd/topics/covid2019\\_dashboard.shtml](https://www.nj.gov/health/cd/topics/covid2019_dashboard.shtml)

# COVID-19 Basics

- Disease varies from asymptomatic to mild upper respiratory illness to pneumonia to multiorgan involvement and death – to date, 784,893 deaths in US, 25,521 in NJ
- Disease in children usually either asymptomatic or mild but not always, 968 deaths in US, 8 in NJ
  - Multisystem inflammatory syndrome – Children (MIS-C) is a rare post-infectious complication – as of November 30, 2021 – 5,973 cases, 52 deaths reported to CDC; as of December 3, 2021 - 141 in NJ, 0 deaths





[covid19.nj.gov/vaccine](https://covid19.nj.gov/vaccine)

# COVID-19 vaccines are

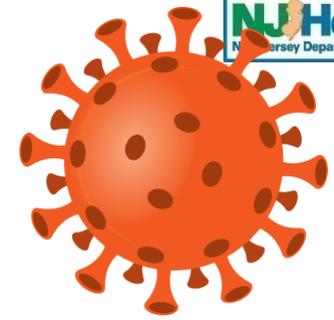


**SAFE EFFECTIVE FREE**  
for all



You can get a vaccine if you are **uninsured, and/or undocumented**

# COVID-19 Vaccines



- Messenger RNA (mRNA) vaccines
  - Pfizer – EUA 12/11/20 – for ages 16 years and older; EUA 5/10/21 for ages 12 to 17; Licensed 8/23/21 for ages 16 and older (Comirnaty); third dose EUA 8/12; booster EUA 9/22; ages 5 to 11 EUA 10/29/21
  - Moderna – EUA 12/18/20 – for ages 18 years and older; third dose 8/12; booster EUA 10/20/21
- Adenovirus vector
  - J&J Janssen – EUA 2/27/21 – for ages 18 years and older; booster EUA 10/20/21

<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines/how-they-work.html>

# COVID-19 Vaccines

- Children ages 5 to 17 Primary Series
  - Pfizer only, 2 doses, 3 weeks apart, lower dose for ages 5-11
- Adult Primary Series
  - Pfizer, 2 doses, 3 weeks apart
  - Moderna, 2 doses, 4 weeks apart
  - J&J, 1 dose
- Third dose for immunocompromised
  - Pfizer or Moderna, same dose as primary series
- Boosters: mixing and matching allowed for all
  - Pfizer, 6 months after second dose, most people, same dose
  - Moderna, 6 months after second dose, most people, half dose
  - J&J, 2 months, all people

# Guide to Vaccine Eligibility *(last updated: 11/03/2021)*

PREPARED ON NOVEMBER 11, 2021 – DRAFT AND PRE-DECISIONAL



**When can I receive this dose?      What brands are available?      What are the eligibility requirements?**



**Individuals  
5-11**

*1st Dose*  
*2nd Dose*

Anytime  
3 weeks (21 days) after 1<sup>st</sup> dose

Pfizer  
Pfizer

Ages 5-11  
Ages 5-11

**Individuals  
12-17\***

*1st Dose*  
*2nd Dose*

Any time  
3 weeks (21 days) after 1st dose

Pfizer  
Pfizer

Ages 12-17  
Ages 12-17

**Individuals  
18+**

*1st Dose*  
*2nd dose*  
*3<sup>rd</sup> dose*  
*Booster*

Any time  
3 weeks (21 days) after 1st dose  
4 weeks (28 days) after 1st dose  
4 weeks (28 days) after second dose  
6 months after second dose  
2 months after first dose

Pfizer  
Moderna  
J&J  
Pfizer  
Moderna  
Pfizer (*can get any booster*)  
Moderna (*can get any booster*)  
J&J (*can get any booster*)

All Adults  
All Adults  
All Adults  
All Adults  
All Adults  
Anyone over 12 who is moderately to severely immunocompromised\*  
All Adults  
All Adults  
All Adults



***All booster doses are interchangeable***

\* Immunocompromised = An individual with a weakened immune system due to certain health conditions.

Note: Immunocompromised persons may receive a booster dose 6 months after their additional doses (third doses) of an mRNA vaccine.

\*\* Underlying medical conditions = For example, cancer, diabetes, hypertension and other conditions that increase risk for severe COVID-19 illness.

\*\*\* High-risk settings = For example, healthcare workers, teachers, and others whose job puts them at risk of COVID-19 exposure.

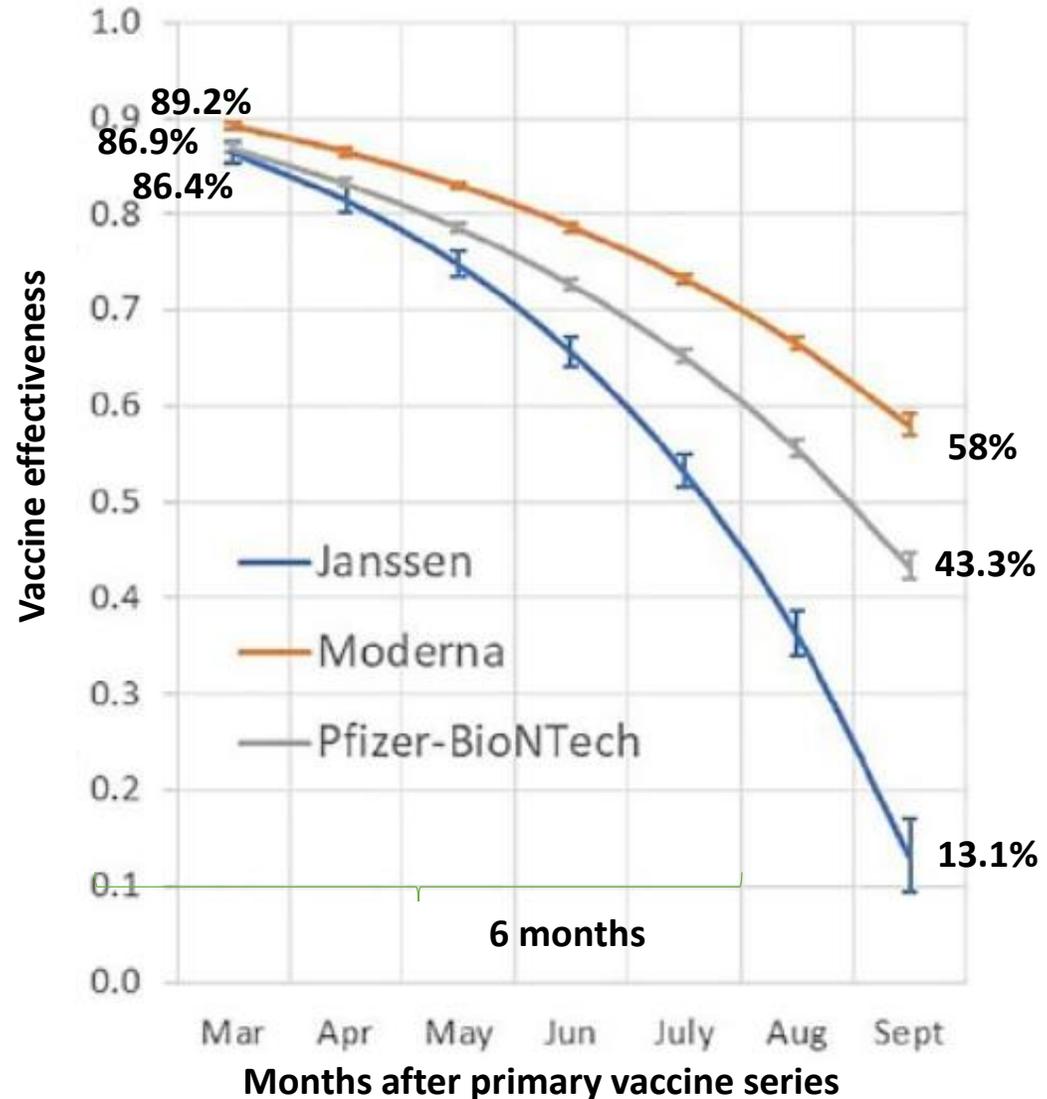
\*\*\*\* Long term care = For example, individuals living in residential care, assisted living, nursing homes etc. that increase risk for COVID-19 exposure

SOURCE: [CDC](https://www.cdc.gov), FDA

**Ready to get vaccinated?**  
Visit [COVID19.nj.gov/vaccine](https://COVID19.nj.gov/vaccine)  
**Additional questions?**  
The NJ COVID-19 Vaccine Call Center is available at: **855-568-0545**

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# US Study: Vaccine effectiveness (*primary series*) against infection reduced for each vaccine brand<sup>1,2</sup>

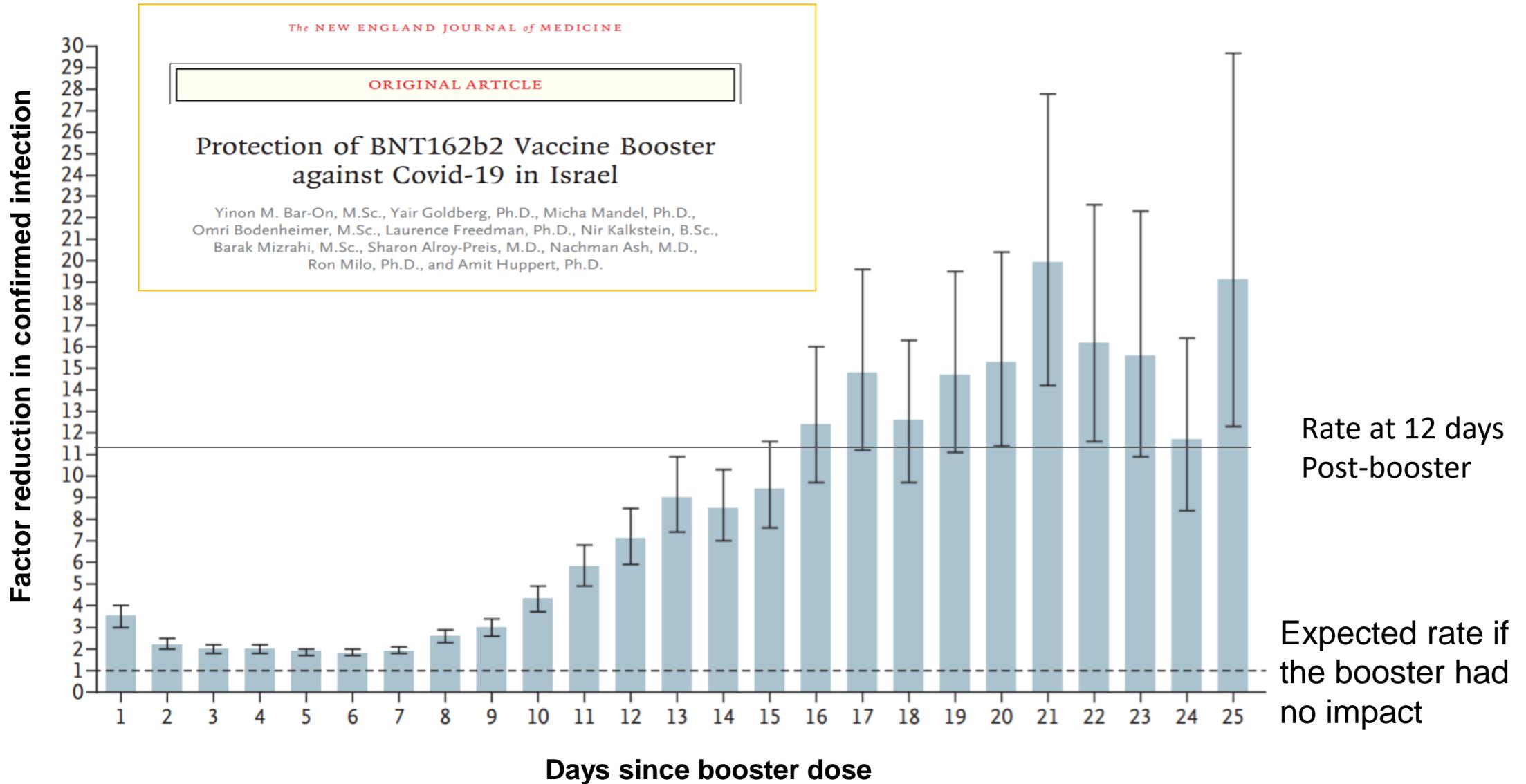


1. <https://www.science.org/doi/epdf/10.1126/science.abm0620>

2. Note that this assumes the primary series was completed by the end of February. VE was measured in March and end of September

2

# After 12 days, boosters reduced confirmed infection rates by 11.3X<sup>1</sup>

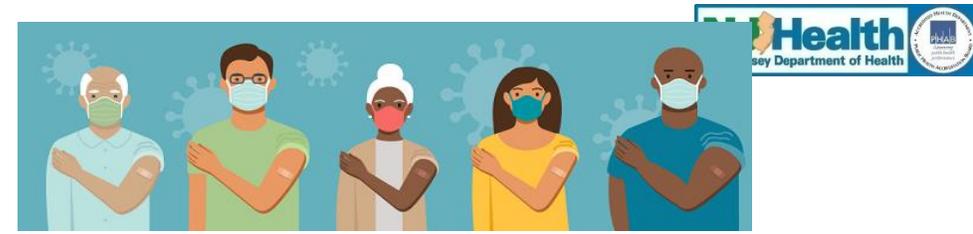


Source: <https://www.nejm.org/doi/pdf/10.1056/NEJMoa2114255?articleTools=true>

1. 95% CI: 10.4-12.3

Preliminary, pre-decisional, and deliberative. Content is descriptive only and is not meant to constitute legal, clinical, or policy advice.

# Booster Doses



- Pfizer and Moderna
  - 6 months after second dose
  - Pfizer same dose
  - Moderna half dose
- Janssen (J&J)
  - 2 months after first dose
- Strongly recommended for everyone 18 and older
- Can mix and match for booster dose

<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/booster-shot.html>

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# Protect Yourself and your families for the Holidays: Get a booster dose!



# NJ COVID Vaccine Call Center

You can **make an appointment** for the COVID-19 vaccine, **get help** with the scheduling system, **check registration** status, and **ask vaccine questions** by phone

Hola    안녕하세요    नमस्कार  
 مرحبا    您好    नमस्ते  
 Bonjour    Olá



Interpreters are available

**Call 855-568-0545**

# covid19.nj.gov/vaccine

Everyone 12 or older who lives, works, or studies in New Jersey is now eligible for the COVID-19 vaccine.

COVID-19 vaccines are safe and highly effective at preventing you from getting sick. They are one of the most important tools to ending the COVID-19 pandemic and getting back to what you love.

ON THIS PAGE

- [How to get vaccinated](#)
- [Get help getting an appointment](#)
- [Learn more about vaccination](#)
- [Vaccine statistics](#)

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## How to get vaccinated

### Find a vaccine appointment

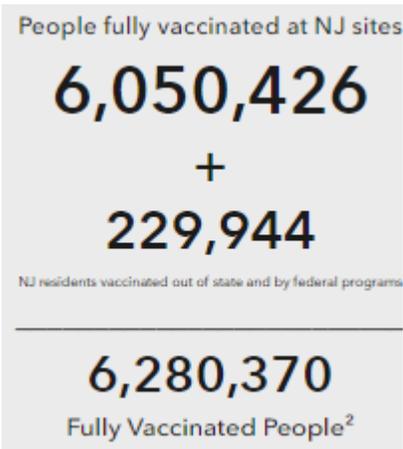
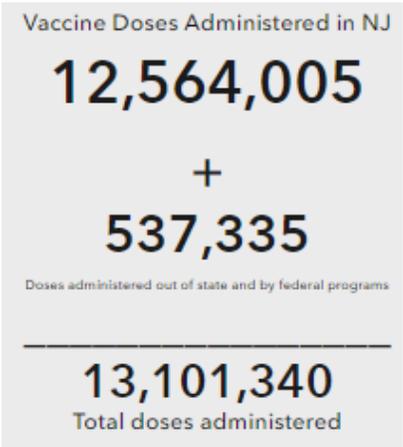
Use the NJ Vaccine Appointment Finder to find vaccination locations near you with available appointments.

[NJ Vaccine Appointment Finder](#)

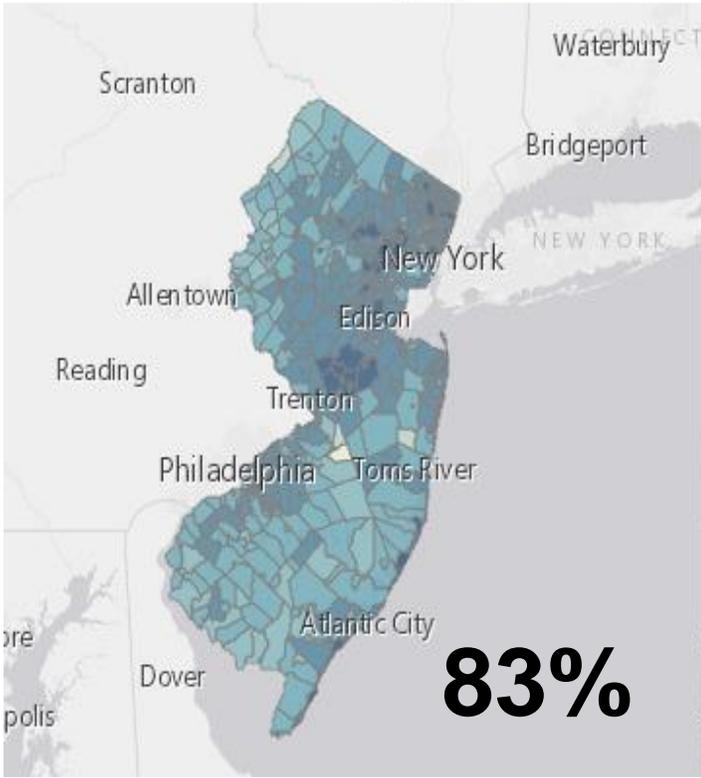
### Visit a megasite for walk-in appointments

All six vaccine megasites are open for walk-in vaccinations, typically during the following times:

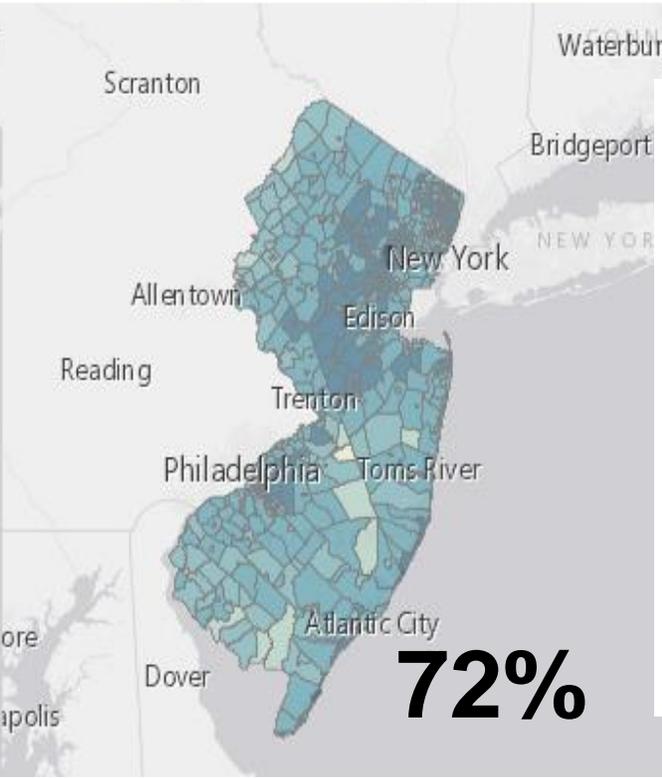
# Vaccination Rates in New Jersey



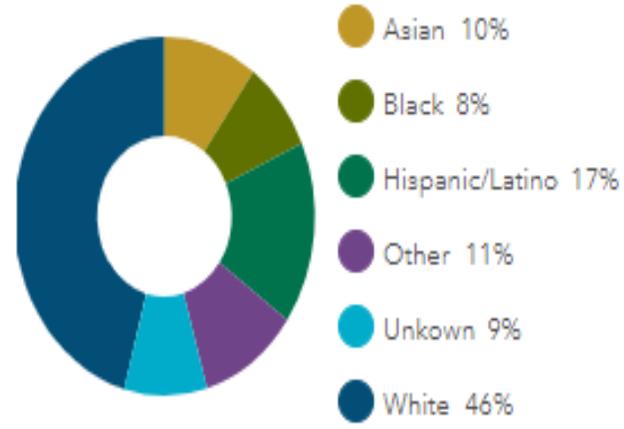
Persons with at Least One Dose, % of population



Persons with Vaccine Courses Complete, % of population

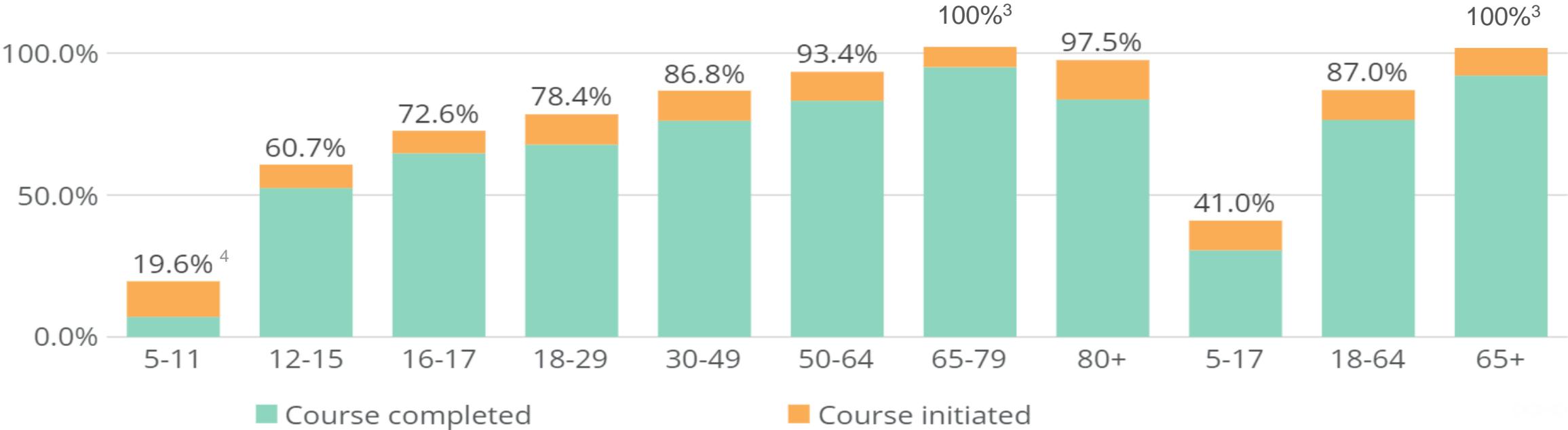


By Race/Ethnicity



# Daily report on vaccination (12/07/2021)

## Primary vaccine courses (NJ & non-NJ residents vaccinated in NJ) by age category, % of total population



## Booster doses by age category, % of eligible population<sup>1,2</sup>



1. Pfizer and Moderna booster dose includes 3rd/ additional doses administered to immunocompromised population 2. Eligible population represents value two weekdays prior (e.g., if Monday, represents the previous Thursday). The data may increase as more sites report 3. Value over 100% due to numerator including NJ and non-NJ residents while eligible population includes NJ residents only 4. 5-11 category comprises all recipients tagged in NJISS as Pfizer Pediatric formulation doses  
 Note: Includes all individuals who were vaccinated within New Jersey (those who live work or study within New Jersey). Excludes vaccines administered through select federal programs (e.g., Bureau of Prisons, Veterans Health, Indian Health Service, and Department of Defense) as well as NJ residents vaccinated in other states

Source: NJIIS, Vtrcks

Preliminary, pre-decisional, and deliberative. Based on input provided by State agency leaders and staff, to date, and subject to change. Content is descriptive only and is not meant to constitute legal, clinical, or policy advice.

# Natural Versus Vaccine Immunity

- More unknowns than known
- Natural immunity seems solid for several months
- Vaccine immunity seems solid as well
  - Trials with all 3 vaccines show waning over time
  - Immunity against the known variants is solid
- Both natural and vaccine immunity vary by age and other factors
- Vaccine will boost natural immunity

<https://www.cdc.gov/vaccines/covid-19/hcp/answering-questions.html>

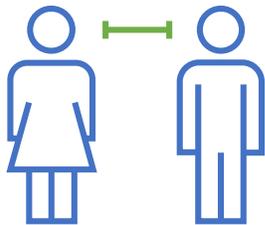
# Transmission



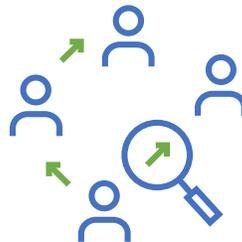
# How to help prevent the spread



Wear a mask that covers your nose and mouth



Stay at least 6 feet (about 2 arms lengths) from others



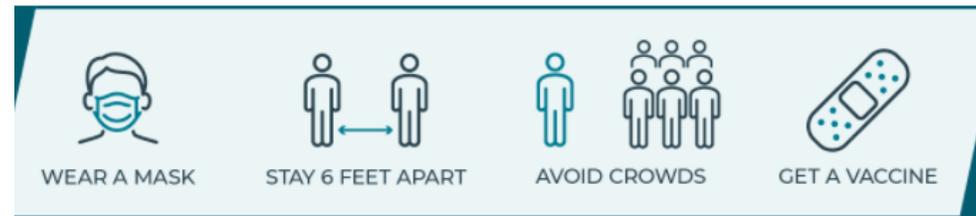
Avoid crowds and sick people



Wash your hands often



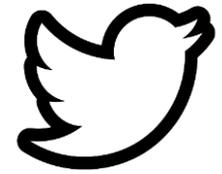
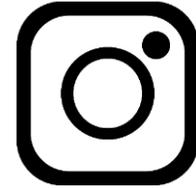
Get vaccinated



Source: <https://www.cdc.gov/coronavirus/2019-ncov/your-health/need-to-know.html>

# Help us spread the word!

The COVID-19 vaccine is  
**safe, effective, and free**  
for all



**@NJDeptofHealth**

**#VaccinesWork**

**#LetsGetNJVaccinated**



# Thank you