

Pfizer/BioNTech COVID-19 Vaccine – Expanded emergency use authorization

- On October 29, 2021, the [FDA announced](#) an expanded emergency use authorization (EUA) for the [Pfizer/BioNTech COVID-19 vaccine](#) for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 5 – 11 years of age.
 - In addition, the Pfizer/BioNTech COVID-19 vaccine is under an EUA for individuals 12 to 15 years of age.
 - Pfizer/BioNTech's [Comirnaty® \(COVID-19 vaccine, mRNA\)](#) is FDA approved for individuals 16 years and older.
- The effectiveness data to support the EUA is based on an ongoing randomized, placebo-controlled study that has enrolled approximately 4,700 children 5 through 11 years of age. The FDA analyzed data that compared the immune response of 264 participants from this study (received 2 doses of 10 mcg) to 253 participants 16 through 25 years of age who had two higher doses of the vaccine (2 doses of 30 mcg) in a previous study which determined the vaccine to be effective in preventing COVID-19.
 - The immune responses of the younger age participants (5 – 11 years of age) were comparable to the immune responses in older participants.
 - In addition, the FDA conducted a preliminary analysis of cases of COVID-19 occurring seven days after the second dose. In this analysis, 3 cases of COVID-19 occurred among 1,305 vaccine recipients and 16 cases of COVID-19 occurred among 663 placebo recipients; **the vaccine was 90.7% effective in preventing COVID-19.**
- The available safety data to support the EUA include more than 4,600 participants (3,100 vaccine, 1,538 placebo) ages 5 through 11 years enrolled in the ongoing study. In this trial, a total of 1,444 vaccine recipients were followed for safety for at least 2 months after the second dose.
 - Commonly reported side effects included injection site pain, redness and swelling, fatigue, headache, muscle and/or joint pain, chills, fever, swollen lymph nodes, nausea and decreased appetite.
 - More children reported side effects after the second dose than after the first dose.
- Previously identified increased risks of myocarditis and pericarditis with highest risk in males 12-17 years of age have been identified by FDA and CDC surveillance systems.
 - The FDA conducted a benefit-risk assessment and determined the benefits of the vaccine would outweigh its risks in children 5 through 11 years of age.
 - Pfizer, the FDA and CDC will continue ongoing safety monitoring to include evaluation of myocarditis, pericarditis and other events of interest in children 5 to 11 years of age.
- The recommended dose of Pfizer/BioNTech's COVID-19 vaccine for individuals 5 to 11 years of age is two doses of 10 mcg (0.2 mL) given intramuscularly (IM) 21 days apart.
 - The recommended dose in individuals ages 12 years and older is two doses of 30 mcg given IM 21 days apart.
- **Special formulation for children:** The Pfizer/BioNTech COVID-19 vaccine for individuals 5-11 years of age is supplied in a multiple dose vial with an orange cap and a label with an orange

border. The vial labels state: Age 5y to <12y. The carton labels state: For age 5 years to <12 years. The NDCs are 59267-1055-01, 59267-1055-02, and 59267-1055-04.

- The pediatric formulation uses a different buffer, Tris, that maintains pH and provides for greater stability of the product compared to Comirnaty, which uses PBS as a buffer.
- The Tris formulation can be stored at 2 – 8 degrees C for up to 10 weeks and does not require the same level of minus 90 to 60 degrees C required for Comirnaty.
- Pfizer/BioNTech COVID-19 vaccine that is supplied in vials with purple caps should not be used for individuals 5 through 11 years of age because of the potential for vaccine administration errors, including dosing errors.

What's Next:

- The [CDC's Advisory Committee on Immunization Practices \(ACIP\)](#) will meet on November 2nd to discuss Pfizer/BioNTech's COVID-19 vaccine for children 5 to < 12 years of age.
- As a reminder of the process, FDA issues the authorization, ACIP reviews the data and recommends the proper use, the CDC Director must then verify the ACIP recommendations before they become official.



OptumRx® specializes in the delivery, clinical management and affordability of prescription medications and consumer health products. We are an Optum® company — a leading provider of integrated health services. Learn more at [optum.com](#).

All Optum® trademarks and logos are owned by Optum, Inc. All other brand or product names are trademarks or registered marks of their respective owners.

This document contains information that is considered proprietary to OptumRx and should not be reproduced without the express written consent of OptumRx.

RxNews® is published by the OptumRx Clinical Services Department.

©2021 Optum, Inc. All rights reserved.