



Pfizer-BioNTech COVID-19 Vaccine Receives FDA Emergency Use Authorization for Children 6 Months through 4 Years of Age

June 17, 2022

- *In a Phase 2/3 clinical trial, the Pfizer-BioNTech COVID-19 Vaccine elicited a strong immune response in this age group*
- *Three 3-µg doses had favorable safety profile similar to placebo in young children ages 6 months through 4 years in Phase 2/3 clinical trial*
- *Pfizer-BioNTech COVID-19 Vaccine now authorized in the U.S. for all individuals 6 months of age and older*

NEW YORK and MAINZ, GERMANY, June 17, 2022 —[Pfizer Inc.](#) (NYSE: PFE) and [BioNTech SE](#) (Nasdaq: BNTX) today announced the U.S. Food and Drug Administration (FDA) granted emergency use authorization (EUA) of the Pfizer-BioNTech COVID-19 Vaccine as a three 3-µg dose series for children 6 months through 4 years of age (also referred to as 6 months to less than 5 years of age). The 3-µg dose was carefully selected as the preferred dose for children under 5 years of age based on safety, tolerability, and immunogenicity data.

"Tens of millions of older children across the globe have already been vaccinated with our COVID-19 vaccine, helping to prevent symptomatic, severe disease and hospitalization. We know many parents in the U.S. have been eagerly awaiting an authorized vaccine for their children under 5 and we are proud to now offer them a vaccine option with a favorable safety profile," said **Albert Bourla, Chairman and Chief Executive Officer, Pfizer**. "We are grateful to all the parents and caregivers who made today's authorization possible by choosing to enroll their children in our COVID-19 vaccine clinical trial."

"We are committed to providing access to our COVID-19 vaccine to all age groups. Parents in the U.S. now have the option to vaccinate their children under 5 years of age, and we are working to ensure that other countries worldwide will follow," said **Prof. Ugur Sahin, M.D., CEO and Co-founder of BioNTech**. "The data from our Phase 2/3 study show that a dose level of 3-µg of our vaccine, which we selected based on safety, tolerability and immunogenicity data, administered in a 3-dose series, provides young children and infants with a high level of protection, also during the recent Omicron wave."

The EUA is based on data from a Phase 2/3 randomized, controlled trial that included 4,526 children 6 months through 4 years of age. In the trial, children received the third 3-µg dose at least two months after the second dose at a time when Omicron was the predominant variant. Following a third dose in this age group, [the vaccine was found to elicit a strong immune response](#), with a favorable safety profile similar to placebo.

In the trial, the SARS-CoV-2-neutralizing antibody geometric mean titer (GMT) one month after the third dose was 1,535.2 (95% CI, 1,388.2, 1,697.8) in children 2 through 4 years of age and 1,406.5 (95% CI, 1,211.3, 1,633.1) in infants 6 through 23 months. The antibody responses in both age groups were comparable to those recorded in people 16 to 25 years of age immunized with two 30-µg doses and met the pre-specified success criteria to declare non-inferiority. Demonstration of noninferiority and safety were the regulatory requirements for potential authorization of the Pfizer-BioNTech COVID-19 Vaccine in this age group.

Three 3-µg doses of the Pfizer-BioNTech COVID-19 Vaccine demonstrated a favorable safety and tolerability profile comparable to placebo. No new safety signals were identified, and the frequency of adverse reactions observed in children 6 months through 4 years were generally lower than in children 5 through 11 years. In the 6 through 23 months age group, 30.3% participants reported adverse events in the Pfizer-BioNTech COVID-19 Vaccine group, and 27.3% participants reported adverse events in the placebo group. Similarly, in the 2 through 4-year age group, the Pfizer-BioNTech COVID-19 Vaccine and placebo participants reported 18.8% and 18.9% respectively. Reactogenicity events were mostly mild to moderate and short lived for both age groups with systemic events comparable to placebo. Reactions were comparable after dose 1, 2 and 3.

The clinical trial results were reviewed by the FDA Vaccines and Related Biological Products Advisory Committee (VRBPAC) on June 15, who unanimously recommended authorization. The U.S. Centers for Disease Control and Prevention's (CDC) Advisory Committee on Immunization Practices (ACIP) will meet June 17 and June 18 to discuss a potential recommendation for the use and rollout of the vaccine to children 6 months through 4 years of age. Vaccinations for children 6 months through 4 years of age are anticipated to start subject to and after the CDC endorses the ACIP recommendation.

Pfizer and BioNTech will begin shipping 3-µg pediatric doses as directed by the U.S. government. Eligible U.S. residents will continue to receive the vaccine for free, consistent with the U.S. government's commitment to free access to COVID-19 vaccines.

The companies plan to submit requests for authorization of their COVID-19 vaccine in this age group to other regulators around the world, including the European Medicines Agency in early July.

The Pfizer-BioNTech COVID-19 Vaccine, which is based on BioNTech's proprietary mRNA technology, was developed by both BioNTech and Pfizer. BioNTech is the Marketing Authorization Holder in the United States, the European Union, the United Kingdom, Canada and the holder of emergency use authorizations or equivalents in the United States (jointly with Pfizer) and other countries. Submissions to pursue regulatory approvals in those countries where emergency use authorizations or equivalent were initially granted are planned.

About the Phase 1/2/3 Trial in Children

The Phase 1/2/3 trial has enrolled more than 10,000 children ages 6 months to under 12 years of age in the United States, Finland, Poland, Spain and Brazil from more than 90 clinical trial sites. The trial evaluated the safety, tolerability, and immunogenicity of the Pfizer-BioNTech COVID-19 Vaccine in three age groups: ages 5 to under 12 years; ages 2 to under 5 years; and ages 6 months to under 2 years. Based on the Phase 1 dose-escalation portion of the trial, children ages 5 to under 12 years received a two-dose schedule of 10 µg each while children under age 5 received three lower 3-µg doses in the Phase 2/3 study. The trial enrolled children with or without prior evidence of SARS-CoV-2 infection.

U.S. Indication & Authorized Use

Pfizer-BioNTech COVID-19 Vaccine is FDA authorized under Emergency Use Authorization (EUA) for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 6 months of age and older. Pfizer-BioNTech COVID-19 Vaccine is FDA authorized to provide:

Primary Series

- A 3-dose primary series to individuals 6 months through 4 years of age
- a 2-dose primary series to individuals 5 years of age and older
- a third primary series dose to individuals 5 years of age and older with certain kinds of immunocompromise

Booster Series

- a single booster dose to individuals 5 through 11 years of age who have completed a primary series with Pfizer-BioNTech COVID-19 Vaccine
- a first booster dose to individuals 12 years of age and older who have completed a primary series with Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA)
- a first booster dose to individuals 18 years of age and older who have completed primary vaccination with a different authorized or approved COVID-19 vaccine. The booster schedule is based on the labeling information of the vaccine used for the primary series
- a second booster dose to individuals 50 years of age and older who have received a first booster dose of any authorized or approved COVID-19 vaccine
- a second booster dose to individuals 12 years of age and older with certain kinds of immunocompromise and who have received a first booster dose of any authorized or approved COVID-19 vaccine

COMIRNATY® INDICATION

COMIRNATY® (COVID-19 Vaccine, mRNA) is a vaccine approved for active immunization to prevent coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in individuals 16 years of age and older.

- COMIRNATY® is administered as a 2-dose primary series

COMIRNATY® AUTHORIZED USES

COMIRNATY® (COVID-19 Vaccine, mRNA) is FDA authorized under Emergency Use Authorization (EUA) to provide:

Primary Series

- a 2-dose primary series to individuals 12 through 15 years of age
- a third primary series dose to individuals 12 years of age and older with certain kinds of immunocompromise

Booster Dose

- a first booster dose to individuals 12 years of age and older who have completed a primary series with Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY®
- a first booster dose to individuals 18 years of age and older who have completed primary vaccination with another authorized or approved COVID-19 vaccine. The booster schedule is based on the labeling information of the vaccine used for the primary series
- a second booster dose to individuals 50 years of age and older who have received a first booster dose of any authorized or approved COVID-19 vaccine
- a second booster dose to individuals 12 years of age and older with certain kinds of immunocompromise and who have received a first booster dose of any authorized or approved COVID-19 vaccine

Emergency Use Authorization

Emergency uses of the vaccine have not been approved or licensed by FDA, but have been authorized by FDA, under an Emergency Use Authorization (EUA) to prevent Coronavirus Disease 2019 (COVID 19) in individuals 12 years of age and older, in individuals 5 through 11 years of age, or in individuals 6 months through 4 years of age, as appropriate. The emergency uses are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of the medical product under Section 564(b)(1) of the FD&C Act unless the declaration is terminated or authorization revoked sooner.

INTERCHANGEABILITY

FDA-approved COMIRNATY® (COVID-19 Vaccine, mRNA) and the Pfizer-BioNTech COVID-19 Vaccine FDA authorized for Emergency Use Authorization (EUA) for individuals 12 years of age and older can be used interchangeably by a vaccination provider when prepared according to their respective instructions for use.

The formulation of the Pfizer-BioNTech COVID-19 Vaccine authorized for use in children 6 months through 4 years of age and children 5 through 11 years of age differs from the formulations authorized for individuals 12 years of age and older and should therefore not be used interchangeably. The Pfizer-BioNTech COVID-19 Vaccine authorized for use in children 6 months through 4 years of age and children 5 through 11 years of age should not

be used interchangeably with COMIRNATY® (COVID-19 Vaccine, mRNA).

IMPORTANT SAFETY INFORMATION

Tell your vaccination provider about all of your or your child's medical conditions, including if you or your child:

- have any allergies
- have had myocarditis (inflammation of the heart muscle) or pericarditis (inflammation of the lining outside the heart)
- have a fever
- have a bleeding disorder or are on a blood thinner
- are immunocompromised or are on a medicine that affects the immune system
- are pregnant, plan to become pregnant, or are breastfeeding
- have received another COVID-19 vaccine
- have ever fainted in association with an injection
- Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA) may not protect all vaccine recipients
- You or your child should **not** receive Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA) if you have had a severe allergic reaction to any of its ingredients or had a severe allergic reaction to a previous dose of Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY®
- There is a remote chance that Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA) could cause a severe allergic reaction. A severe allergic reaction would usually occur within a few minutes to 1 hour after getting a dose of the vaccine. For this reason, your vaccination provider may ask you or your child to stay at the place where the vaccine was administered for monitoring after vaccination. If you or your child experience a severe allergic reaction, call 9-1-1 or go to the nearest hospital

Seek medical attention right away if you or your child have any of the following symptoms:

- difficulty breathing, swelling of the face and throat, a fast heartbeat, a bad rash all over the body, dizziness, and weakness
- Myocarditis (inflammation of the heart muscle) and pericarditis (inflammation of the lining outside the heart) have occurred in some people who have received the vaccine, more commonly in adolescent males and adult males under 40 years of age than among females and older males. In most of these people, symptoms began within a few days following receipt of the second dose of the vaccine. The chance of having this occur is very low

Seek medical attention right away if you or your child have any of the following symptoms after receiving the vaccine:

- chest pain
- shortness of breath
- feelings of having a fast-beating, fluttering, or pounding heart
- fainting
- unusual and persistent irritability
- unusual and persistent poor feeding
- unusual and persistent fatigue or lack of energy
- persistent vomiting
- persistent pain in the abdomen
- unusual and persistent cool, pale skin
- Fainting can happen after getting injectable vaccines, including Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA). Sometimes people who faint can fall and hurt themselves. For this reason, your vaccination provider may ask you or your child to sit or lie down for 15 minutes after receiving the vaccine
- Some people with weakened immune systems may have reduced immune responses to Pfizer-BioNTech COVID-19 Vaccine or COMIRNATY® (COVID-19 Vaccine, mRNA)
- Additional side effects include rash, itching, hives, swelling of the face, injection site pain, tiredness, feeling weak or lack of energy, headache, muscle pain, chills, joint pain, fever, injection site swelling, injection site redness, nausea, feeling unwell, swollen lymph nodes (lymphadenopathy), decreased appetite, diarrhea, vomiting, arm pain, fainting in association with injection of the vaccine, and irritability

These may not be all the possible side effects of the vaccine. Call the vaccination provider or healthcare provider about bothersome side effects or side effects that do not go away.

- You should always ask your healthcare providers for medical advice about adverse events. Report vaccine side effects to the US Food and Drug Administration (FDA) and the Centers for Disease Control and Prevention (CDC) Vaccine Adverse Event Reporting System (VAERS). The VAERS toll-free number is 1-800-822-7967 or report online to www.vaers.hhs.gov/reportevent.html. You can also report side effects to Pfizer Inc. at www.pfizersafetyreporting.com or by calling 1-800-438-1985

May Affect Future Results", as well as in its subsequent reports on Form 8-K, all of which are filed with the U.S. Securities and Exchange Commission and available at www.sec.gov and www.pfizer.com.

About BioNTech

Biopharmaceutical New Technologies is a next generation immunotherapy company pioneering novel therapies for cancer and other serious diseases. The Company exploits a wide array of computational discovery and therapeutic drug platforms for the rapid development of novel biopharmaceuticals. Its broad portfolio of oncology product candidates includes individualized and off-the-shelf mRNA-based therapies, innovative chimeric antigen receptor T cells, bi-specific checkpoint immuno-modulators, targeted cancer antibodies and small molecules. Based on its deep expertise in mRNA vaccine development and in-house manufacturing capabilities, BioNTech and its collaborators are developing multiple mRNA vaccine candidates for a range of infectious diseases alongside its diverse oncology pipeline. BioNTech has established a broad set of relationships with multiple global pharmaceutical collaborators, including Genmab, Sanofi, Genentech, a member of the Roche Group, Regeneron, Genevant, Fosun Pharma, and Pfizer. For more information, please visit www.BioNTech.de.

BioNTech Forward-looking Statements

This press release contains "forward-looking statements" of BioNTech within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements may include, but may not be limited to, statements concerning: BioNTech's efforts to combat COVID-19; the collaboration between BioNTech and Pfizer including the program to develop a COVID-19 vaccine and COMIRNATY (COVID-19 vaccine, mRNA) (BNT162b2) (including the emergency use authorization in the U.S. to include children 6 months to under 5 years of age, qualitative assessments of available data, potential benefits, expectations for clinical trials, the anticipated timing of regulatory submissions, regulatory approvals or authorizations and anticipated manufacturing, distribution and supply); our expectations regarding the potential characteristics of BNT162b2 in our clinical trials, real world data studies, and/or in commercial use based on data observations to date; preclinical and clinical data (including Phase 1/2/3 or Phase 4 data), including the descriptive data discussed in this release, for BNT162b2 or any other vaccine candidate in the BNT162 program in any of our studies in pediatrics, adolescents or adults or real world evidence, including the possibility of unfavorable new preclinical, clinical or safety data, including the risk that final or formal results from the clinical trial could differ from the topline data; the ability of BNT162b2 or a future vaccine to prevent COVID-19 caused by emerging virus variants; the expected time point for additional readouts on efficacy data of BNT162b2 in our clinical trials; the nature of the clinical data, which is subject to ongoing peer review, regulatory review and market interpretation; widespread use of BNT162b2 will lead to new information about efficacy, safety, or other developments, including the risk of additional adverse reactions, some of which may be serious; the timing for submission of data for BNT162, or any future vaccine, in additional populations, (including in children 6 months to under 5 years of age, potential future annual boosters or re-vaccinations), or receipt of, any marketing approval or emergency use authorization or equivalent, including or amendments or variations to such authorizations, including making a determination as to whether the vaccine's benefits outweigh its known risks and determination of the vaccine's efficacy and, if approved, whether it will be commercially successful; the development of other vaccine formulations, booster doses or potential future annual boosters or re-vaccinations or new variant based vaccines; our contemplated shipping and storage plan, including our estimated product shelf life at various temperatures; the ability of BioNTech to supply the quantities of BNT162 to support clinical development and market demand, including our production estimates for 2022; challenges related to public vaccine confidence or awareness; decisions by regulatory authorities impacting labeling or marketing, manufacturing processes, safety and/or other matters that could affect the availability or commercial potential of a vaccine, including development of products or therapies by other companies; disruptions in the relationships between us and our collaboration partners, clinical trial sites or third-party suppliers; the risk that demand for any products may be reduced or no longer exist which may lead to reduced revenues or excess inventory; the availability of raw material to manufacture BNT162 or other vaccine formulation; challenges related to our vaccine's formulation, dosing schedule and attendant storage, distribution and administration requirements, including risks related to storage and handling after delivery; and uncertainties regarding the impact of COVID-19 on BioNTech's trials, business and general operations. Any forward-looking statements in this press release are based on BioNTech current expectations and beliefs of future events and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to: the ability to meet the pre-defined endpoints in clinical trials; competition to create a vaccine for COVID-19; the ability to produce comparable clinical or other results, including our stated rate of vaccine effectiveness and safety and tolerability profile observed to date, in the remainder of the trial or in larger, more diverse populations upon commercialization; the ability to effectively scale our productions capabilities; and other potential difficulties.

For a discussion of these and other risks and uncertainties, see BioNTech's Annual Report as Form 20-F for the Year Ended December 31, 2021, filed with the SEC on March 30, 2022, which is available on the SEC's website at www.sec.gov. All information in this press release is as of the date of the release, and BioNTech undertakes no duty to update this information unless required by law.

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