



Pfizer and BioNTech Initiate Phase 1 Study of Single Dose mRNA-Based Combination Vaccine Candidate for Influenza and COVID-19

November 3, 2022

- Novel combination vaccination approach aims to help protect individuals against two severe respiratory viral diseases
- Candidate combines Pfizer's quadrivalent modRNA-based influenza vaccine candidate with the companies' Omicron-adapted bivalent COVID-19 vaccine based on BA.4/BA.5, each of which is based on BioNTech's proprietary mRNA platform technology
- U.S.-based study to include 180 participants 18 to 64 years of age with the first participant dosed this week

NEW YORK and MAINZ, GERMANY, November 3, 2022 — [Pfizer Inc.](#) (NYSE: PFE) and [BioNTech SE](#) (Nasdaq: BNTX) today announced the advancement of an mRNA-based combination vaccine candidate for influenza and COVID-19 to a Phase 1 trial with the aim to address two severe respiratory diseases with one vaccine. The first participant has been dosed in a Phase 1 trial evaluating the safety, tolerability, and immunogenicity of a nucleoside-modified RNA (modRNA)-based combination vaccine approach.

The vaccine candidate combines Pfizer's quadrivalent modRNA-based influenza vaccine candidate, qIRV (22/23), which is currently in [Phase 3 clinical development](#), and Pfizer and BioNTech's authorized Omicron-adapted bivalent COVID-19 BNT162b2 (Original/Omicron BA.4/BA.5) vaccine, each of which is based on BioNTech's proprietary mRNA platform technology.

"The flexibility and manufacturing speed of the mRNA technology has demonstrated that it is well-suited for other respiratory diseases. Pfizer is deeply proud of our continued work to explore its potential to protect against influenza and COVID-19 in one combination vaccine, which we think could simplify immunization practices against these two respiratory pathogens, potentially leading to better vaccine uptake for both diseases," said **Annaliesa Anderson, Ph.D., Senior Vice President and Chief Scientific Officer, Vaccine Research and Development, Pfizer**. "Even with existing seasonal influenza vaccines, the burden of this virus is severe across the world causing thousands of deaths and hospitalizations every year. This is an exciting step in our ongoing journey with BioNTech as we collectively look to transform the prevention of infectious diseases around the world."

"By combining both indications in one vaccine approach, we aim to provide individuals with an efficient way to receive immunization against two severe respiratory diseases with evolving viruses that require vaccine adaptation," said **Prof. Ugur Sahin, M.D., CEO and Co-founder of BioNTech**. "The data will also provide us with more insights on the potential of mRNA vaccines addressing more than one pathogen. This will help us to further develop our infectious disease pipeline to deliver on patient centric vaccination approaches."

About the Phase 1 Study

The BioNTech-sponsored, randomized Phase 1 study is designed to evaluate the safety, immunogenicity, and optimal dose level of a combined vaccine candidate against COVID-19 and influenza and is being conducted in the United States, aiming to enroll 180 healthy volunteers 18 through 64 years of age. The follow-up period for each participant will be a total of six months.

The vaccine candidate is based on BioNTech's proprietary mRNA platform technology and contains mRNA strands encoding the wild-type spike protein of SARS-CoV-2 and the spike protein of the Omicron BA.4/BA.5 subvariants as well as mRNA strands encoding the hemagglutinin of four different influenza strains, recommended for the Northern Hemisphere 2022/23 by the World Health Organization. Hemagglutinin is a surface protein of the influenza virus which plays a role in the initiation of infection. The influenza virus is subject to constant mutations to evade the host immune response, causing a seasonal variation in circulating strains.

The new development program builds on the companies' success in developing the first approved and most widely used mRNA vaccine as of todayⁱ to help prevent COVID-19. The companies will share the development costs. This is the fourth collaboration between Pfizer and BioNTech in the infectious diseases field, following the influenza vaccine collaboration initiated in 2018, the COVID-19 vaccine collaboration initiated in 2020 and the shingles vaccine collaboration initiated in 2022.

About Respiratory Diseases

SARS-CoV-2 led to a global pandemic with more than 6.5 million deathsⁱⁱ and a severe socio-economic burden worldwideⁱⁱⁱ. While vaccinations can help address the disease, COVID-19 is expected to remain a circulating, severe respiratory disease, requiring adjustments of vaccines to variants of concern. This is reminiscent of influenza, another respiratory disease that requires repeated vaccinations due to its genomic instability resulting in modifications of the surface protein hemagglutinin. Influenza accounts for up to 12,000 to 52,000 deaths in the United States every year^{iv} and equally concerning numbers in the European Union^v. A combined vaccine approach, based on BioNTech's proprietary mRNA platform technology, has the potential to alleviate the impact of both diseases while offering a combined administration which has the potential to simplify immunization practices for health care providers as well as individuals in need. Additionally, with the flexibility and versatility of mRNA technology, vaccine candidates can potentially be adjusted rapidly to virus variants and aim to offer a valuable solution in the race against virus mutations in both COVID-19 and influenza.

U.S. INDICATION & AUTHORIZED USE

Pfizer-BioNTech COVID-19 Vaccine, Bivalent (Original and Omicron BA.4/BA.5)

AUTHORIZED USE

Pfizer-BioNTech COVID-19 Vaccine, Bivalent (Original and Omicron BA.4/BA.5) is FDA-authorized under Emergency Use Authorization (EUA) for use in individuals 5 years of age and older as a single booster dose administered at least 2 months after either:

- completion of primary vaccination with any authorized or approved monovalent* COVID-19 vaccine; or

- receipt of the most recent booster dose with any authorized or approved monovalent COVID-19 vaccine.

*Monovalent refers to any authorized and approved COVID-19 vaccine that contains or encodes the spike protein of only the Original SARS-CoV-2 virus

COMIRNATY® (COVID-19 Vaccine, mRNA)

INDICATION

COMIRNATY® (COVID-19 Vaccine, mRNA) is an FDA-approved 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 12 years of age and older.

AUTHORIZED USE

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

Primary Series

- a third primary series dose to individuals 12 years of age and older who have certain kinds of immunocompromise

Pfizer-BioNTech COVID-19 Vaccine

AUTHORIZED USES

Pfizer-BioNTech COVID-19 Vaccine is FDA authorized under Emergency Use Authorization (EUA) for use in individuals 6 months and older 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

EMERGENCY USE AUTHORIZATION

Emergency uses of the vaccines 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 aged 6 months and older for the Pfizer-BioNTech COVID-19 Vaccine and 5 years and older for the Pfizer-BioNTech COVID-19 Vaccine, Bivalent. 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.

IMPORTANT SAFETY INFORMATION

Pfizer-BioNTech COVID-19 Vaccine, Bivalent (Original and Omicron BA.4/BA.5), COMIRNATY® (COVID-19 Vaccine, mRNA) and Pfizer-BioNTech COVID-19 Vaccine

Tell your vaccination provider about all of your medical conditions, including if you:

- 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
- The vaccine may not protect everyone
- You should not get COMIRNATY (COVID-19 Vaccine, mRNA), the Pfizer-BioNTech COVID-19 Vaccine, or the Pfizer-BioNTech COVID-19 Vaccine, Bivalent if you have had a severe allergic reaction after a previous dose of COMIRNATY or the Pfizer-BioNTech COVID-19 Vaccine or any ingredient in these vaccines
- There is a remote chance that these vaccines 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 to stay at the place where you received the vaccine for monitoring after vaccination. If you experience a severe allergic reaction, call 9-1-1 or go to the nearest hospital

Seek medical attention right away if you 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 COMIRNATY® (COVID-19 vaccine, mRNA) or Pfizer-BioNTech COVID-19 Vaccine. The observed risk is higher among adolescent males and adult males under 40 years of age than among females and

older males, and the observed risk is highest in males 12 through 17 years of age. In most of these people, symptoms began within a few days following receipt of the second dose of vaccine. The chance of having this occur is very low

Side effects that have been reported with these vaccines include:

- Severe allergic reactions
- Non-severe allergic reactions such as rash, itching, hives, or swelling of the face
- Myocarditis (inflammation of the heart muscle)
- Pericarditis (inflammation of the lining outside the heart)
- Injection site pain
- Tiredness
- 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
- Unusual and persistent irritability
- Unusual and persistent poor feeding
- Unusual and persistent fatigue or lack of energy
- Unusual and persistent cool, pale skin

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.

Individuals should always ask their 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. In addition, individuals can report side effects to Pfizer Inc. at www.pfizersafetyreporting.com or by calling 1-800-438-1985

COMIRNATY[®] Full Prescribing Information and EUA Fact Sheets for Vaccination Providers and Recipients and Caregivers Fact Sheets:

[EUA Fact Sheet for Vaccination Providers \(12 Years & Up\), BIVALENT \(Original and Omicron BA.4/BA.5\), DO NOT DILUTE, Gray Cap](#)
[EUA Fact Sheet for Vaccination Providers \(5 through 11 Years\), BIVALENT \(Original and Omicron BA.4/BA.5\), DO NOT DILUTE, Orange Cap](#)
[COMIRNATY[®] Full Prescribing Information \(12 years of age and older\), DO NOT DILUTE, Gray Cap](#)
[EUA Fact Sheet for Vaccination Providers \(12 years of age and older\), DO NOT DILUTE, Gray Cap](#)
[EUA Fact Sheet for Vaccination Providers \(6 months through 4 years of age\), DILUTE BEFORE USE, Maroon Cap](#)
[EUA Fact Sheet for Vaccination Providers \(5 through 11 years of age\), DILUTE BEFORE USE, Orange Cap](#)
[EUA Fact Sheet for Recipients and Caregivers \(12 years of age and older\)](#)
[EUA Fact Sheet for Recipients and Caregivers \(5 through 11 years of age\)](#)
[EUA Fact Sheet for Recipients and Caregivers \(6 months through 4 years of age\)](#)

About Pfizer: Breakthroughs That Change Patients' Lives

At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products, including innovative medicines and vaccines. Every day, Pfizer colleagues work across developed and emerging markets to advance wellness, prevention, treatments and cures that challenge the most feared diseases of our time. Consistent with our responsibility as one of the world's premier innovative biopharmaceutical companies, we collaborate with health care providers, governments and local communities to support and expand access to reliable, affordable health care around the world. For more than 170 years, we have worked to make a difference for all who rely on us. We routinely post information that may be important to investors on our website at www.Pfizer.com. In addition, to learn more, please visit us on www.Pfizer.com and follow us on Twitter at [@Pfizer](https://twitter.com/Pfizer) and [@PfizerNews](https://twitter.com/PfizerNews), [LinkedIn](#), [YouTube](#) and like us on Facebook at [Facebook.com/Pfizer](https://www.facebook.com/Pfizer).

Pfizer Disclosure Notice

The information contained in this release is as of November 3, 2022. Pfizer assumes no obligation to update forward-looking statements contained in this release as the result of new information or future events or developments.

This release contains forward-looking information about Pfizer's efforts to combat COVID-19 and influenza, the collaboration between BioNTech and Pfizer to develop a COVID-19 vaccine and a combination vaccine candidate for influenza and COVID-19, the BNT162b2 mRNA vaccine program, and the Pfizer-BioNTech COVID-19 Vaccine, also known as COMIRNATY (COVID-19 Vaccine, mRNA) (BNT162b2) (including a combination vaccine

candidate for influenza and COVID-19, Pfizer-BioNTech COVID-19 Vaccine, Bivalent (Original and Omicron BA.4/BA.5), qualitative assessments of available data, potential benefits, expectations for clinical trials, potential regulatory submissions, the anticipated timing of data readouts, regulatory submissions, regulatory approvals or authorizations and anticipated manufacturing, distribution and supply) involving substantial risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Risks and uncertainties include, among other things, the uncertainties inherent in research and development, including the ability to meet anticipated clinical endpoints, commencement and/or completion dates for clinical trials, regulatory submission dates, regulatory approval dates and/or launch dates, as well as risks associated with preclinical and clinical data (including Phase 1/2/3 or Phase 4 data), including data for the combination vaccine candidate for influenza and COVID-19, BNT162b2, any monovalent, bivalent or variant-adapted vaccine candidates 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 and further analyses of existing preclinical, clinical or safety data; the ability to produce comparable clinical or other results, including the rate of vaccine effectiveness and safety and tolerability profile observed to date, in additional analyses of the Phase 3 trial and additional studies, in real world data studies or in larger, more diverse populations following commercialization; the ability of BNT162b2, any monovalent, bivalent or variant-adapted vaccine candidates, the combination vaccine candidate for influenza and COVID-19 or any future vaccine to prevent COVID-19 caused by emerging virus variants; the risk that more widespread use of the vaccine 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 risk that preclinical and clinical trial data are subject to differing interpretations and assessments, including during the peer review/publication process, in the scientific community generally, and by regulatory authorities; whether and when additional data from the BNT162 mRNA vaccine program will be published in scientific journal publications and, if so, when and with what modifications and interpretations; whether regulatory authorities will be satisfied with the design of and results from these and any future preclinical and clinical studies; whether and when submissions to request emergency use or conditional marketing authorizations for the combination vaccine candidate for influenza and COVID-19, BNT162b2 in additional populations, for a potential booster dose for BNT162b2, any monovalent or bivalent vaccine candidates or any potential future vaccines (including potential future annual boosters or re-vaccinations), and/or other biologics license and/or emergency use authorization applications or amendments to any such applications may be filed in particular jurisdictions for the combination vaccine candidate for influenza and COVID-19, BNT162b2, any monovalent or bivalent vaccine candidates or any other potential vaccines that may arise from the BNT162 program, including a potential variant-based, higher dose, or bivalent vaccine, and if obtained, whether or when such emergency use authorizations or licenses will expire or terminate; whether and when any applications that may be pending or filed for the combination vaccine candidate for influenza and COVID-19, BNT162b2 (including any requested amendments to the emergency use or conditional marketing authorizations), any monovalent or bivalent vaccine candidates, or other vaccines that may result from the BNT162 program may be approved by particular regulatory authorities, which will depend on myriad factors, 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; 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; risks related to the availability of raw materials to manufacture a vaccine; 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 by Pfizer; the risk that we may not be able to successfully develop other vaccine formulations, booster doses or potential future annual boosters or re-vaccinations or new variant-based or next generation vaccines; the risk that we may not be able to maintain or scale up manufacturing capacity on a timely basis or maintain access to logistics or supply channels commensurate with global demand for our vaccines, which would negatively impact our ability to supply the estimated numbers of doses of our vaccines within the projected time periods; whether and when additional supply agreements will be reached; uncertainties regarding the ability to obtain recommendations from vaccine advisory or technical committees and other public health authorities and uncertainties regarding the commercial impact of any such recommendations; challenges related to public vaccine confidence or awareness; uncertainties regarding the impact of COVID-19 on Pfizer's business, operations and financial results; and competitive developments.

A further description of risks and uncertainties can be found in Pfizer's Annual Report on Form 10-K for the fiscal year ended December 31, 2021 and in its subsequent reports on Form 10-Q, including in the sections thereof captioned "Risk Factors" and "Forward-Looking Information and Factors That 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, bispecific immune checkpoint 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.com.

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 and influenza; the collaboration between BioNTech and Pfizer including the program to develop a COVID-19 vaccine and a combination vaccine candidate for influenza and COVID-19, the BNT162b2 mRNA vaccine program, and the Pfizer-BioNTech COVID-19 Vaccine, also known as COMIRNATY (COVID-19 Vaccine, mRNA) (BNT162b2) (including a combination vaccine candidate for influenza and COVID-19, the Omicron BA.4/BA.5-adapted bivalent COVID-19 vaccine, qualitative assessments of available data, potential benefits, expectations for clinical trials, potential regulatory submissions, the anticipated timing of data readouts, regulatory submissions, regulatory approvals or authorizations and anticipated manufacturing, distribution and supply); our expectations regarding the potential characteristics of a combination vaccine candidate for influenza and COVID-19, BNT162b2 in our clinical trials and/or BNT162b2 in commercial use based on data observations to date; the ability of a combination vaccine candidate for influenza and COVID-19, BNT162b2, any monovalent or bivalent vaccine candidates or any future vaccine, to prevent COVID-19 caused by emerging virus variants; the uncertainties inherent in research and development, including the ability to meet anticipated clinical endpoints, commencement and/or completion dates for clinical trials, regulatory submission dates, regulatory approval dates and/or launch dates, as well as risks associated with preclinical and clinical data (including Phase 1/2/3 or Phase 4 data), including the data discussed in this release for a combination

vaccine candidate for influenza and COVID-19, BNT162b2, any monovalent or bivalent vaccine candidates or any other vaccine candidate in 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 and further analyses of existing preclinical, clinical or safety data; the expected time point for additional readouts on efficacy data of a combination vaccine candidate for influenza and COVID-19, BNT162b2 in our clinical trials; the risk that more widespread use of the vaccine 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 nature of the clinical data, which is subject to ongoing peer review, regulatory review and market interpretation; the timing for submission of data for, or receipt of, any marketing approval or Emergency Use Authorization; our contemplated shipping and storage plan, including our estimated product shelf life at various temperatures; the ability of BioNTech to supply the quantities of a combination vaccine candidate for influenza and COVID-19, BNT162, any monovalent or bivalent vaccine candidates or any future vaccine, to support clinical development and market demand, including our production estimates for 2022; 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 materials to manufacture a vaccine; a combination vaccine candidate for influenza and COVID-19, BNT162, any monovalent or bivalent vaccine candidates or any future vaccine, formulation, dosing schedule and attendant storage, distribution and administration requirements, including risks related to storage and handling after delivery by Pfizer; the ability to successfully develop other vaccine formulations, booster doses or potential future annual boosters or re-vaccinations or new variant-adapted vaccines; the ability to maintain or scale up manufacturing capacity on a timely basis or maintain access to logistics or supply channels commensurate with global demand for our vaccines, which would negatively impact our ability to supply the estimated numbers of doses of our vaccine within the projected time periods as previously indicated; whether and when additional supply agreements will be reached; the ability to obtain recommendations from vaccine advisory or technical committees and other public health authorities and uncertainties regarding the commercial impact of any such recommendations; challenges related to public vaccine confidence or awareness; 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.

For a discussion of these and other risks and uncertainties, see BioNTech's quarterly report on Form 6-K for the quarter ended June 30, 2022, filed with the SEC on August 8, 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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ⁱ Our World in Data. COVID-19 vaccine doses administered by manufacturer. Available at <https://ourworldindata.org/grapher/covid-vaccine-doses-by-manufacturer>

ⁱⁱ World Health Organization Coronavirus (COVID-19) Dashboard. Available at <https://covid19.who.int/>

ⁱⁱⁱ Delardas O, Kechagias KS, Pontikos PN, Giannos P. Socio-Economic Impacts and Challenges of the Coronavirus Pandemic (COVID-19): An Updated Review. Sustainability. 2022; 14(15):9699. <https://doi.org/10.3390/su14159699>

^{iv} Centers for Disease Control and Prevention. Disease Burden of Flu. Available at <https://www.cdc.gov/flu/about/burden/index.html>

^v John Paget, A. Danielle Iuliano, Robert J. Taylor, Lone Simonsen, Cecile Viboud, Peter Spreeuwenberg, Estimates of mortality associated with seasonal influenza for the European Union from the GLaMOR project, Vaccine, Volume 40, Issue 9, 2022, Pages 1361-1369, ISSN 0264-410X, <https://doi.org/10.1016/j.vaccine.2021.11.080>.