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Pfizer-BioNTech COVID-19 Vaccine Frequently **Asked Questions**

D: Quali dati ha utilizzato la FDA per prendere la decisione di autorizzare il vaccino Pfizer-BioNTech COVID-19 per l'uso di emergenza?

A: Pfizer-BioNTech COVID-19 Vaccine is authorized 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.

FDA evaluated and analyzed the safety and effectiveness data from clinical trials conducted in tens of thousands of study participants and manufacturing information submitted by Pfizer-BioNTech. FDA has determined that the totality of the available data provides clear evidence that Pfizer-BioNTech COVID-19 Vaccine may be effective in preventing COVID-19 and support that the known and potential benefits outweigh the known and potential risks of the vaccine's use in millions of people 16 years of age and older, including healthy individuals.

D: Quali dati ha valutato la FDA per supportare l'autorizzazione all'uso di emergenza del vaccino Pfizer-BioNTech COVID-19 in individui di età compresa tra 12 e 15 anni? (aggiunto il 5/10/21)R: I dati di sicurezza disponibili per supportare l'EUA negli adolescenti di questa fascia di età includono 2.260 partecipanti di età compresa tra 12 e 15 anni arruolati in uno studio clinico randomizzato e controllato con placebo in corso negli Stati Uniti. Di questi, 1.131 partecipanti adolescenti hanno ricevuto il vaccino e 1.129 hanno ricevuto un placebo salino. Più della metà dei partecipanti è stata seguita per sicurezza per almeno due mesi dopo la seconda dose. Gli effetti collaterali più comunemente riportati nei partecipanti allo studio clinico sugli adolescenti, che in genere sono durati 1-3 giorni, sono stati dolore al sito di iniezione, stanchezza, mal di testa, brividi, dolori muscolari, febbre e dolori articolari. Con l'eccezione del dolore al sito di iniezione, più adolescenti hanno riportato questi effetti collaterali

dopo la seconda dose rispetto alla prima dose, quindi è importante per i fornitori di vaccinazioni e i riceventi aspettarsi che ci possano essere alcuni effetti collaterali dopo entrambe le dosi, ma anche ancora di più dopo la seconda dose. Gli effetti collaterali negli adolescenti erano coerenti con quelli riportati nei partecipanti agli studi clinici di età pari o superiore a 16 anni. È importante notare che in generale, mentre alcuni individui manifestano effetti collaterali a seguito di qualsiasi vaccinazione, I dati sull'efficacia a supporto dell'EUA negli adolescenti di questa fascia di età si basano sull'immunogenicità e su un'analisi dei casi di COVID-19. La risposta immunitaria al vaccino in 190 partecipanti di età compresa tra 12 e 15 anni è stata confrontata con la risposta immunitaria di 170 partecipanti di età compresa tra 16 e 25 anni. In questa analisi la risposta immunitaria degli adolescenti non era inferiore (almeno altrettanto buona) alla risposta immunitaria dei partecipanti più anziani. È stata inoltre condotta un'analisi dei casi di COVID-19 verificatisi tra i partecipanti di età compresa tra 12 e 15 anni sette giorni dopo la seconda dose. In questa analisi, tra i partecipanti senza evidenza di precedente infezione da SARS-CoV-2, non si sono verificati casi di COVID-19 tra 1.005 riceventi il vaccino e 16 casi di COVID-19 si sono verificati tra 978 riceventi di placebo; il vaccino era efficace al 100% nella prevenzione del COVID-19. Al momento, ci sono dati limitati per stabilire se il vaccino può prevenire la trasmissione del virus da persona a persona. Inoltre, al momento non sono disponibili dati per determinare per quanto tempo il vaccino fornirà protezione.D: Quali dati sono disponibili al pubblico per la revisione? A: FDA posted data and analysis in a briefing document made available in connection with the December 10, 2020, meeting of the Vaccines and Related Biological Products Advisory Committee. Following issuance of the emergency use authorization, the Letter of Authorization, Fact Sheets and Full EUA Prescribing Information are posted on FDA's web site. FDA has also posted the review memo for Pfizer-BioNTech COVID-19 Vaccine, which summarizes FDA's review of the safety and effectiveness data, including clinical data, submitted in support of the request for emergency use authorization.

D: In che modo il vaccino Pfizer-BioNTech COVID-19 previene il COVID-19?

A: The data to support the EUA include an analysis of 36,523 participants in the ongoing randomized, placebo-controlled international study, the majority of whom are U.S. participants, who completed the 2-dose vaccination regimen and did not have evidence of SARS-CoV-2 infection through 7 days after the second dose. Among these participants, 18,198 received the vaccine and 18,325 received saline placebo. The vaccine was 95 percent effective in preventing COVID-19 disease among these clinical trial participants with 8 COVID-19 cases in the vaccine group and 162 COVID-19 cases in the placebo group. Of these 170 COVID-19 cases, 1 in the vaccine group and 3 in the placebo group were classified as severe.

D: Il vaccino Pfizer-BioNTech COVID-19 è efficace nel ridurre la gravità del COVID-19?

A: To date, only a small number of severe cases have occurred during the study, which makes it difficult to evaluate whether the vaccine reduces the severity of COVID-19. Pfizer-BioNTech COVID-19 vaccine is authorized 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.

D: Le persone che hanno già contratto il COVID-19 possono ricevere il vaccino Pfizer-BioNTech COVID-19?R: Tra tutti i partecipanti allo studio, il 3% aveva evidenza di infezione prima della vaccinazione e tra i partecipanti con evidenza di infezione prima della vaccinazione, si sono verificati casi di COVID-19 più confermati nel gruppo placebo rispetto al gruppo vaccinato. Mentre relativamente pochi casi confermati di COVID-19 si sono verificati complessivamente tra i partecipanti con evidenza di infezione prima della vaccinazione, i dati disponibili suggeriscono che gli individui precedentemente infetti possono essere a rischio di COVID-19 (cioè reinfezione) e potrebbero trarre beneficio dalla vaccinazione.D: Se una persona ha ricevuto il vaccino Pfizer-BioNTech COVID-19, il vaccino proteggerà dalla trasmissione di SARS-CoV-2 da individui infetti nonostante la vaccinazione?R: La maggior parte dei vaccini che proteggono dalle malattie virali riduce anche la trasmissione del virus che causa la malattia da parte di coloro che sono vaccinati. Anche se si spera che ciò accada, la comunità scientifica non sa ancora se il vaccino Pfizer-BioNTech COVID-19 ridurrà tale trasmissione.D: Come possiamo

essere così sicuri dell'efficacia del vaccino Pfizer-BioNTech COVID-19 quando le persone che partecipano allo studio stavano facendo un certo livello di mitigazione (sia personale che raccomandato dal governo)?

A: In a randomized, blinded clinical trial, participants are not aware of whether they received vaccine or placebo. Therefore, any mitigation efforts would have affected those who received vaccine and placebo equally. The relatively high infection rate among placebo recipients suggests that that any mitigation efforts among trial participants may not have been very effective.

D: Le donne incinte o che allattano possono ricevere il vaccino Pfizer-BioNTech COVID-19?

A: While there have been no specific studies in these groups, there is no contraindication to receipt of the vaccine for pregnant or breastfeeding women. Pregnant or breastfeeding women should discuss potential benefits and risks of vaccination with their healthcare provider.

D: Quali informazioni sulla sicurezza ha valutato la FDA per autorizzare il vaccino Pfizer-BioNTech COVID-19 per l'uso di emergenza?

A: The available safety data to support the EUA include 37,586 of the participants enrolled in an ongoing randomized, placebo-controlled international study, the majority of whom are U.S. participants. These participants, 18,801 of whom received the vaccine and 18,785 of whom received saline placebo, were followed for a median of 2 months after receiving the 2nd dose. This is consistent with the recommendations set forth in FDA's October 2020 Guidance on Emergency Use Authorization for Vaccines to Prevent COVID-19.

The most commonly reported side effects were pain at the injection site, tiredness, headache, muscle pain, chills, joint pain, and fever. Side effects typically started within two days of vaccination and resolved 1-2 day later. Of note, more people experienced these side effects after the second dose than after the first dose, so it is important for vaccination providers and recipients to expect that that there may be some side effects after either dose, but even more so after the second dose.

FDA also evaluated additional safety data from the larger database that included participants enrolled later during the study who had shorter follow-up (the total database included 43,448 participants, 21,720 of whom received vaccine and 21,728 of whom received saline placebo). FDA determined that the findings were similar to those in the population of participants with a median follow-up of 2 months after the 2nd dose.

D: Sono disponibili informazioni sugli eventi avversi gravi? A: Serious adverse events, while uncommon (<1.0%), were observed at slightly higher numerical rates in the vaccine study group compared to the saline placebo study group, both overall and for certain specific adverse events occurring in very small numbers. These represented common medical events that occur in the general population at similar frequency. Upon further review by FDA, these imbalances do not raise a safety concern, nor do they suggest a causal relationship to vaccination for the vast majority of reported serious adverse events.

Serious adverse events considered by FDA to be plausibly related to the vaccine or vaccination procedure were one case of shoulder injury at the vaccination site and one case of swollen lymph node in the armpit opposite the vaccination arm.

No safety concerns were identified in subgroup analyses by age, race, ethnicity, medical comorbidities, or prior SARS-CoV-2 infection.

Severe allergic reactions, including anaphylaxis, have been reported following administration of Pfizer-BioNTech COVID-19 Vaccine during mass vaccination outside of the clinical trial setting. Information pertaining to severe allergic reaction is included in the Fact Sheet for Vaccine Providers, Fact Sheet for Vaccine Recipients and the EUA Prescribing Information.

Additional adverse reactions, some of which may be serious, may become apparent with more widespread use of the Pfizer-BioNTech COVID-19 Vaccine.

D: I fornitori di vaccini devono fornire una copia cartacea della scheda informativa del destinatario autorizzato e del caregiver all'individuo

quando riceve la vaccinazione?

A: The EUA requires vaccination providers, prior to the individual receiving the vaccine, to communicate to the recipient or their caregiver information consistent with the "Fact Sheet for Recipients and Caregivers," and either to provide a copy of the Fact Sheet or to direct the individual to the website (https://www.cvdvaccine.com/

) to obtain the Fact Sheet.

D: Il vaccino Pfizer-BioNTech COVID-19 può proteggere i riceventi dopo una singola dose?

A: The Pfizer-BioNTech COVID-19 Vaccine is administered intramuscularly as a series of two doses (0.3 mL each) 3 weeks apart. The vaccine was not studied for use as a single dose.

FDA's conclusions regarding the safety and effectiveness of the Pfizer-BioNTech COVID-19 Vaccine, and the Agency's determination that the criteria for an Emergency Use Authorization (EUA) were met, were based on the evidence generated by the clinical trials that studied two doses and are reflected in conditions described in the emergency use authorization (EUA).

Individuals who have received one dose of the Pfizer-BioNTech COVID-19 Vaccine should receive a second dose of Pfizer-BioNTech COVID-19 Vaccine on schedule to complete the vaccination series.

D: Il vaccino Pfizer-BioNTech COVID-19 e il vaccino Moderna COVID-19 sono intercambiabili?

A: No. There are no data available on the interchangeability of Pfizer-BioNTech COVID-19 Vaccine with other COVID-19 vaccines, including Moderna COVID-19 Vaccine. Individuals who have received one dose of Pfizer-BioNTech COVID-19 Vaccine should receive a second dose of Pfizer-BioNTech COVID-19 Vaccine to complete the vaccination series.

Individuals who have received one dose of Moderna COVID-19 Vaccine should receive a second dose of Moderna COVID-19 Vaccine to complete the vaccination series.

D: Puoi descrivere la tecnologia dell'mRNA del vaccino Pfizer-BioNTech COVID-19? Ci sono problemi di sicurezza considerando la "novità" di questa tecnologia?

A: The Pfizer-BioNTech COVID-19 Vaccine is a messenger RNA (mRNA) vaccine. The vaccine contains a synthetic, small piece of the SARS-CoV-2 genetic material (mRNA) that instructs cells in the body to make the virus's distinctive "spike" protein. When vaccinated, the body produces copies of the spike protein, which alone does not cause disease, and the immune system learns to react defensively, producing an immune response against SARS-CoV-2.

Although this technology has not been used in any FDA-licensed preventive vaccine, FDA scientists have expertise with this technology as it has been used to develop other preventive investigational vaccines that have been tested in human clinical trials. FDA does not have specific safety concerns with a vaccine that utilizes this technology.

D: Il vaccino Pfizer-BioNTech COVID-19 può causare infertilità nelle donne?

A: There is no scientific evidence to suggest that the vaccine could cause infertility in women. In addition, infertility is not known to occur as a result of natural COVID-19 disease, further demonstrating that immune responses to the virus, whether induced by infection or a vaccine, are not a cause of infertility. Reports on social media have falsely asserted that the vaccine could cause infertility in women and the FDA is concerned that this misinformation may cause women to avoid vaccination to prevent COVID-19, which is a potentially serious and life-threatening disease. SARS-CoV-2 is the virus that causes COVID-19. The symptoms of COVID-19 vary and are unpredictable; many people have no symptoms or only mild disease, while some have severe respiratory disease including pneumonia and acute respiratory distress syndrome (ARDS), leading to multi-organ failure and death. The Pfizer-BioNTech COVID-19 vaccine is a mRNA vaccine. It contains a small piece of the SARS-CoV-2 virus's genetic material that instructs cells in the body to make the virus's distinctive "spike" protein. After a person is vaccinated, their body produces copies of the spike protein, which does not cause disease, and triggers the immune system to learn to react defensively, producing an immune response against SARS-CoV-2. Contrary to false reports on social

media, this protein is not the same as any involved in formation of the placenta.

D: Come verrà condotto un ulteriore monitoraggio della sicurezza per il vaccino Pfizer-BioNTech COVID-19?

A: The company has submitted a pharmacovigilance plan to FDA to monitor the safety of Pfizer-BioNTech COVID-19 Vaccine. The pharmacovigilance plan includes a plan to complete longer-term safety follow-up for participants enrolled in ongoing clinical trials. The pharmacovigilance plan also includes other activities aimed at monitoring the safety profile of the Pfizer-BioNTech COVID-19 vaccine and ensuring that any safety concerns are identified and evaluated in a timely manner.

Responsibility for additional post-authorization vaccine safety monitoring will be shared primarily by FDA and the U.S. Centers for Disease Control and Prevention (CDC), along with other agencies involved in healthcare delivery. Post-authorization safety monitoring during the COVID-19 pandemic vaccination program will aim to continuously monitor the safety of COVID-19 vaccines to rapidly detect safety problems if they exist. There will be multiple, complementary systems in place with validated analytic methods that can rapidly detect signals for possible vaccine safety problems. The U.S. government has a well-established post-authorization/postapproval vaccine safety monitoring infrastructure that will be scaled up to meet the needs of a large-scale COVID-19 vaccination program. The U.S. government – in partnership with health systems, academic centers, and private sector partners - will use multiple existing vaccine safety monitoring systems to monitor COVID-19 vaccines in the post-authorization/approval period. Some of these systems are the Vaccine Adverse Event Reporting System (VAERS), the Vaccine Safety Datalink (VSD), the Biologics Effectiveness and Safety (BEST) Initiative, and Medicare claims data.

D: Come si otterranno ulteriori dati sull'efficacia del vaccino Pfizer-BioNTech COVID-19?

A: Additional data on vaccine effectiveness will be generated from further follow-up of participants in clinical studies already underway before the EUA was issued, plus studies conducted by the

manufacturer or by the U.S. government evaluating effectiveness of the vaccine as used under the EUA.

D: Come passa il vaccino da autorizzato per uso di emergenza a autorizzato (approvato)?

A: It is FDA's expectation that, following submission of an EUA request and issuance of an EUA, the manufacturer would continue to collect placebo-controlled data in any ongoing trials for as long as feasible to obtain additional safety and effectiveness information and would also work towards submission of a Biologics License Application (BLA) as soon as possible.

D: La FDA prevede casi in cui un vaccino potrebbe ricevere un EUA e non soddisfare i criteri per una domanda di licenza biologica (BLA)? Se un prodotto non soddisfa lo standard BLA, l'EUA viene revocato? A: If safety or effectiveness concerns arise with a vaccine under EUA, FDA has the authority to revoke the EUA. However, it is expected that the data supporting the EUA, together with those that will be collected during use of vaccine under EUA, and additional data collected from ongoing trials will be sufficient to support licensure (approval) of a vaccine authorized under EUA.

D: Quanto tempo ci vorrà per ottenere un BLA? Quando inizia l'orologio per ottenere un BLA?

A: We cannot predict how long it will take for the manufacturer to submit a Biologics License Application (BLA). There is no "clock" for the submission of a BLA to FDA after issuance of an EUA or completion of clinical trials.

D: Cosa succede agli altri vaccini in fase di studio?

A: FDA believes it is important for clinical trials for other COVID-19 vaccines to continue or initiate. It is important to have a portfolio of COVID-19 vaccines available to be able to vaccinate our population.

D: È possibile condurre studi controllati con placebo sui vaccini COVID-19 dopo che un vaccino è stato reso disponibile nell'ambito di un EUA?

A: FDA believes it is feasible to conduct placebo-controlled trials of COVID-19 vaccines after another vaccine is made available under an EUA, especially if that vaccine is not available in sufficient quantity for everyone who wants to receive it. Additionally, it may be feasible to conduct trials where safety and effectiveness of one or more COVID-19 vaccines are evaluated against a comparator COVID-19 vaccine that has been authorized for use under an EUA.

D: Come educare il pubblico sulla sicurezza e l'efficacia del vaccino Pfizer-BioNTech COVID-19?

A: FDA has been embarking on an education campaign via social media, consumer content, media interviews, engagement with stakeholders and more to help the public understand our regulatory and scientific processes. These engagements will continue.

D: Ora che il vaccino Pfizer-BioNTech COVID-19 è disponibile, il pubblico dovrà ancora essere vigile e mettere in pratica misure di salute pubblica?

A: Yes. Because the vaccine will not be available immediately for most of the population, it will still be necessary to continue with the public health measures that we have been following. The best way to prevent illness is to avoid being exposed to the virus. The CDC recommends the following preventive actions:

- Wash your hands often with plain soap and water. The CDC recommends washing your hands often with soap and water for at least 20 seconds, especially after you have been in a public place, or after blowing your nose, coughing, or sneezing. If soap and water are not available, the CDC recommends using an alcoholbased hand sanitizer that contains at least 60 percent alcohol. Learn more about safely using hand sanitizer.
- Cover your mouth and nose with a cloth face covering or nonsurgical mask when around others.
- Avoid crowds and practice social distancing (stay at least 6 feet apart from others).

Q: Previously, there were reports that vials of Pfizer-BioNTech COVID-19 Vaccine contained extra product after five doses of vaccine was obtained from a vial. The original letter of authorization (LOA) said that each vial

contains 5 doses of 0.3 mL per dose. What's different with the latest version of the Fact Sheet regarding the number of doses per vial?

A: FDA previously advised that it is acceptable to use every full dose obtainable from each vial (the sixth, or possibly even a seventh), pending resolution of the issue of how many full doses are obtainable per vial of Pfizer-BioNTech COVID-19 Vaccine. FDA also advised that any further product remaining that does not constitute a full dose should not be pooled from multiple vials to create one.

Pfizer has submitted requests to FDA for the EUA to clarify the number of doses obtainable per vial of Pfizer-BioNTech COVID-19 vaccine. In order to provide flexibility to vaccine providers, FDA updated the Letter of Authorization for the EUA for the Pfizer-BioNTech COVID-19 Vaccine to remove reference to the number of doses contained in one vial after dilution. The Agency also updated the Fact Sheet for Healthcare Providers Administering Vaccine (Vaccination Providers) to note that, after dilution, one vial of Pfizer-BioNTech COVID-19 Vaccine contains six doses of 0.3 mL. This updated Fact Sheet for Vaccination Providers also notes that low dead-volume syringes and/or needles can be used to extract six doses from a single vial. If standard syringes and needles are used, there may not be sufficient volume to extract a sixth dose from a single vial.

Given that the original Letter of Authorization noted that each vial contained 5 doses, we recognize that some vial labels and cartons may state that after dilution, a vial contains 5 doses of 0.3 mL. The information in the Fact Sheet regarding the number of doses per vial after dilution supersedes the number of doses stated on vial labels and cartons.

Because the Pfizer-BioNTech COVID-19 vaccine does not contain preservative, it is critical to note that any further remaining product that does not constitute a full dose should not be pooled from multiple vials to create one dose. The updated information in the revised Fact Sheet for Vaccination Providers should address any

questions or confusion about whether these additional full doses may be used.

Q: What other changes or updates were made to the letter of authorization for Pfizer-**BioNTech COVID-19 Vaccine?**

A: The reissued LOA includes updated language (found at letter "T" of the LOA) to clarify the instructions for reporting adverse events to the Vaccine Adverse Event Reporting System (VAERS).

Q: The reissued LOA also mentions that changes pertaining to safety monitoring were made to the Fact Sheet for Healthcare **Providers Administering Vaccine Vaccination Providers and the Fact Sheet for Recipients** and Caregivers. What were these changes?

A: The Fact Sheet for Healthcare Providers Administering Vaccine (Vaccination Providers) was updated to include in the Warnings section reference to guidelines from the Centers for Disease Control and Prevention for monitoring Pfizer-BioNTech COVID-19 Vaccine recipients for the occurrence of immediate adverse reactions. This is in addition to the warning that appropriate medical treatment used to manage immediate allergic reactions must be immediately available in the event an acute anaphylactic reaction occurs following administration of Pfizer-BioNTech COVID-19 Vaccine. Severe allergic reactions have been reported following the Pfizer-BioNTech COVID-19 Vaccine during mass vaccination outside of the clinical trial setting.

The Fact Sheet for Healthcare Providers Administering Vaccine (Vaccination Providers) was also updated to instruct vaccination providers to provide information about v-safe to vaccine recipients. Vsafe is a new voluntary smartphone-based tool that uses text messaging and web surveys to check in with people who have been vaccinated to identify potential side effects after COVID-19 vaccination.

The original Fact Sheet for Recipients and Caregivers informed vaccine recipients about a remote chance that the Pfizer-BioNTech COVID-19 Vaccine could cause a severe allergic reaction soon after vaccination. The Fact Sheet for Recipients and Caregivers was updated to inform vaccine recipients that because of the possibility of allergic reactions, their vaccination provider may ask them to stay at the place where they received their vaccine for monitoring after vaccination. The Fact Sheet for Recipients and Caregivers was also updated to provide information on **v-safe**.

Q: Why did FDA revise and issue a new LOA when the agency already posted information about the potential for extra doses in the vials?

It is not uncommon for FDA to update a LOA when new information regarding an authorized product becomes available and such a revision is appropriate to protect the public health or safety. As noted, there were several updates to the LOA, and the agency reissued the updated LOA in order to provide transparency about the EUA. There are no changes to the agency's determination that the vaccine's known and potential benefits outweigh its known and potential risks.

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