Valneva and Pfizer Report Six-Month Antibody Persistence Data in Children and Adults for Lyme Disease Vaccine Candidate

Thursday, December 01, 2022 - 01:00am

- Antibody levels remained above baseline six months after completion of a three-dose (Month 0-2-6) or a two-dose (Month 0-6) vaccination schedule • Higher antibody levels were observed in the three-dose vaccination schedule versus the two-dose vaccination schedule, further validating the use of this schedule in the ongoing Phase 3 study • There were no safety concerns observed in this six-month observational follow up

New York & Saint-Herblain (France), December 1, 2022 - Pfizer Inc. (NYSE: PFE) and Valneva SE (Nasdaq: VALN; Euronext Paris: VLA) today reported antibody persistence data six months after the completion of a three-dose (Month 0-2-6) or a two-dose (Month 0-6) vaccination schedule with their Lyme disease vaccine candidate, VLA15, in both children and adults. This is the first time that antibody persistence data are reported in pediatric populations for this vaccine candidate.

Following positive immunogenicity and safety data for Phase 2 study VLA15-221 in April 2022,1 Valneva and Pfizer evaluated the persistence of antibodies six months after the Month 0-2-6 and the Month 0-6 vaccination schedule with VLA15 in healthy adults and pediatric participants (5 to 65 years of age). Data were collected in 96 healthy adults and 81 pediatric participants (5-17 years of age) for the Month 0-2-6 vaccination schedule and in 84 healthy adults and 78 pediatric participants (5-17 years of age) for the Month 0-6 schedule. As observed in previous clinical studies with VLA15, antibody levels declined over time in all study groups but remained above baseline, confirming their persistence six months after completion of both vaccination schedules. Overall, antibody levels remained higher with the three-dose vaccination schedule compared to the two-dose
schedule. Geometric mean fold rises (GMFRs) compared to baseline were 1.9-fold for Serotype 1 (ST1) to 3.2-fold Serotype 2 (ST2) across all age groups in the Month 0-2-6 vaccination schedule. The highest GMFRs were reported in the 5 to 11 years old age group, with GMFR levels at 2.8-fold (ST1) to 6.6-fold (ST2).

These results further validate the use of the three-dose vaccination schedule, which is also included in the Phase 3 protocols for all participants.

No vaccine-related serious adverse events (SAEs) and no safety concerns were observed in this six-month observational follow up.

Juan Carlos Jaramillo M.D., Chief Medical Officer of Valneva, said, “We are pleased with these antibody persistence data that further validate the use of the three-dose vaccination schedule in our ongoing Phase 3 study and the acceptable safety and tolerability profiles of our vaccine candidate. Lyme disease continues to spread, representing a high unmet medical need that impacts the lives of many in the Northern Hemisphere, and each new report of positive data takes us a step closer to potentially bringing this vaccine to both adults and children who could benefit from it.”

Earlier this year, Pfizer and Valneva initiated a Phase 3 clinical study, Vaccine Against Lyme for Outdoor Recreationists (VALOR) (NCT05477524), to investigate the efficacy, safety and immunogenicity of VLA15.2 Approximately 6,000 participants 5 years of age and older will receive three doses of VLA15 180 µg or saline placebo as a primary vaccination series followed by one booster dose of VLA15 or saline placebo (1:1 ratio). Enrollment is ongoing in Europe and the United States, and expected to be completed in the second quarter of 2023. To learn more, visit www.pfizerclinicaltrials.com/nct05477524. To achieve the required pediatric safety database, Pfizer and Valneva are planning to initiate a complementary Phase 3 clinical study in early December 2022 to collect additional VLA15 safety data in participants 5 to 17 years of age.

“Rates of Lyme disease continue to increase globally, underscoring the importance of a vaccine that may help protect both adults and children,” said Annaliesa Anderson, Ph.D., Senior Vice President and Chief Scientific Officer of Vaccine Research & Development at Pfizer. “These six-month antibody persistence data are encouraging, and we hope that the data generated from the Phase 3 studies will further support the positive evidence for VLA15 to date.”

Pending successful completion of the Phase 3 studies, Pfizer could potentially submit a Biologics License Application (BLA) to the U.S. Food and Drug Administration (FDA) and
Marketing Authorisation Application (MAA) to the European Medicines Agency (EMA) in 2025.

**About VLA15**  VLA15 is the only Lyme disease vaccine candidate currently in clinical development. This investigational multivalent protein subunit vaccine uses an established mechanism of action for a Lyme disease vaccine that targets the outer surface protein A (OspA) of Borrelia burgdorferi, the bacteria that cause Lyme disease. OspA is a surface protein expressed by the bacteria when present in a tick. Blocking OspA inhibits the bacterium’s ability to leave the tick and infect humans. The vaccine covers the six most common OspA serotypes expressed by the Borrelia burgdorferi sensu lato species that are prevalent in North America and Europe. VLA15 has demonstrated a strong immune response and satisfactory safety profile in pre-clinical and clinical studies so far. Valneva and Pfizer entered into a collaboration agreement in April 2020 to co-develop VLA15, with updates to the terms within this agreement made in June 2022. The terms of the collaboration agreement include a $25 million milestone payment made to Valneva upon Pfizer’s initiation of the Phase 3 study. The program was granted Fast Track designation by the U.S. FDA in July 2017.

**About Clinical Study VLA15-221**  VLA15-221 is a randomized, observer-blind, placebo-controlled Phase 2 study. It is the first clinical study with VLA15 which enrolled a pediatric population (5-17 years old).

585 healthy participants received VLA15 at two different immunization schedules (Month 0-2-6 [N=190] or Month 0-6 [N=187]) or three doses of placebo (Month 0-2-6 [N=208]). Vaccine recipients received VLA15 at a dose of 180 µg, which was selected based on data generated in the two previous Phase 2 studies. The main safety and immunogenicity readout was performed one month after the primary vaccination series. A subset of participants will receive a booster dose of VLA15 or placebo at month 18 (booster phase) and will be followed for three additional years to monitor antibody persistence.

VLA15 is tested as an alum-adjuvanted formulation and administered intramuscularly. The study is being conducted at U.S. sites located in areas where Lyme disease is endemic and has enrolled both volunteers with a cleared past infection with Borrelia burgdorferi as well as Borrelia burgdorferi-naïve volunteers.

**About Lyme Disease**  Lyme disease is a systemic infection caused by Borrelia burgdorferi bacteria transmitted to humans by infected Ixodes ticks. It is considered the most common vector-borne illness in the Northern Hemisphere. While the true incidence of Lyme disease is unknown, it is estimated to annually affect approximately 476,000
people in the United States and 130,000 people in Europe. Early symptoms of Lyme disease (such as a gradually expanding erythematous rash called Erythema migrans or more nonspecific symptoms like fatigue, fever, headache, mild stiff neck, arthralgia or myalgia) are often overlooked or misinterpreted. Left untreated, the disease can disseminate and cause more serious complications affecting the joints (arthritis), the heart (carditis) or the nervous system. The medical need for vaccination against Lyme disease is steadily increasing as the geographic footprint of the disease widens.

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 and @Pfizer News, LinkedIn, YouTube and like us on Facebook at Facebook.com/Pfizer.

Pfizer Disclosure Notice The information contained in this release is as of December 1, 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 a Lyme disease vaccine candidate, VLA15, and a collaboration between Pfizer and Valneva for VLA15, including their potential benefits, antibody persistence data, a Phase 3 clinical trial and the timing of potential regulatory submissions, that involves 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 our clinical trials, regulatory submission dates, regulatory approval dates and/or launch dates, including uncertainties relating to the time needed to accrue cases in the Phase 3 trial, as well as the possibility of unfavorable new clinical data and further analyses of existing clinical data; the risk that clinical trial data are subject to differing interpretations and assessments by regulatory
authorities; whether regulatory authorities will be satisfied with the design of and results from our clinical studies; whether and when drug applications may be filed in any jurisdictions for VLA15; whether and when any such applications may be approved by regulatory authorities, which will depend on myriad factors, including making a determination as to whether the product's benefits outweigh its known risks and determination of the product's efficacy and, if approved, whether VLA15 will be commercially successful; decisions by regulatory authorities impacting labeling, manufacturing processes, safety and/or other matters that could affect the availability or commercial potential of VLA15; 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; whether our collaboration with Valneva will be successful; 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 Valneva SE Valneva is a specialty vaccine company focused on the development and commercialization of prophylactic vaccines for infectious diseases with significant unmet medical need. The Company takes a highly specialized and targeted approach to vaccine development and then applies its deep understanding of vaccine science to develop prophylactic vaccines addressing these diseases. Valneva has leveraged its expertise and capabilities both to commercialize three vaccines and to rapidly advance a broad range of vaccine candidates into and through the clinic, including candidates against Lyme disease and the chikungunya virus.

Valneva Forward-Looking Statements This press release contains certain forward-looking statements relating to the business of Valneva, including with respect to the progress, timing, results and completion of research, development and clinical trials for product candidates and estimates for future performance. In addition, even if the actual results or development of Valneva are consistent with the forward-looking statements contained in this press release, those results or developments of Valneva may not be sustained in the future. In some cases, you can identify forward-looking statements by words such as "could," "should," "may," "expects," "anticipates," "believes," "intends,"
"estimates," "aims," "targets," or similar words. These forward-looking statements are based largely on the current expectations of Valneva as of the date of this press release and are subject to a number of known and unknown risks and uncertainties and other factors that may cause actual results, performance or achievements to be materially different from any future results, performance or achievement expressed or implied by these forward-looking statements. In particular, the expectations of Valneva could be affected by, among other things, uncertainties involved in the development and manufacture of vaccines, unexpected clinical trial results, unexpected regulatory actions or delays, competition in general, currency fluctuations, the impact of the global and European credit crisis, and the ability to obtain or maintain patent or other proprietary intellectual property protection. Success in preclinical studies or earlier clinical trials may not be indicative of results in future clinical trials. In light of these risks and uncertainties, there can be no assurance that the forward-looking statements made during this presentation will in fact be realized. Valneva is providing the information in these materials as of this press release and disclaim any intention or obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

# # #

Media Contacts

**Pfizer** Media Relations: PfizerMediaRelations@pfizer.com 212-733-1226

Investor Relations: IR@pfizer.com 212-733-4848

**Valneva** Laëtitia Bachelot-Fontaine VP Global Communications & European Investor Relations M +33 (0)6 4516 7099 laetitia.bachelot-fontaine@valneva.com

Joshua Drumm, Ph.D. VP Global Investor Relations M +1 917 815 4520 joshua.drumm@valneva.com

References


3. Valneva. Valneva and