FDA approves Cablivi® (caplacizumab-yhdp), the first Nanobody®-based medicine, for adults with acquired thrombotic thrombocytopenic purpura (aTTP)

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- First medicine approved in the U.S. specifically for the treatment of aTTP, a rare blood-clotting disorder
- Cablivi is the first U.S. approval for Sanofi's new rare blood disorders franchise

The U.S. Food and Drug Administration (FDA) has approved Cablivi® (caplacizumab-yhdp) in combination with plasma exchange and immunosuppression for the treatment of acquired thrombotic thrombocytopenic purpura (aTTP) in adults. Cablivi is the first FDA approved therapy specifically indicated for the treatment of aTTP.

“The U.S. approval of Cablivi provides a much-needed treatment option for people facing this challenging disease. There have been limited medicines available to treat aTTP until now,” says Olivier Brandicourt, M.D., Chief Executive Officer, Sanofi. “Cablivi marks the first U.S. approval in our newly formed rare blood disorders franchise, and we look forward to continuing to provide important medicines for people living with these very serious diseases.”

Cablivi targets von Willebrand factor (vWF), a protein in the blood involved in hemostasis. It is designed to inhibit the interaction between vWF and platelets. Cablivi is an anti-vWF Nanobody and Sanofi’s first Nanobody®-based medicine to receive approval in the U.S. Nanobodies® are a novel class of proprietary therapeutic proteins based on single-domain antibody fragments that contain the unique structural and functional properties of naturally-occurring heavy chain only antibodies.

Cablivi received FDA Fast Track designation and was evaluated under Priority Review, which is reserved for medicines that represent significant improvements in safety or efficacy in treating serious conditions.

An Unmet Need in a Rare Blood Disorder

aTTP is a rare, life-threatening, autoimmune blood disorder. aTTP is considered an urgent, medical emergency. For some patients, resuscitative measures might be required and the immediate outcome might not be predictable. In most cases, patients are routinely treated in intensive care units during the first few days following their aTTP diagnosis. It is estimated that up to 20% of patients die from TTP episodes, despite currently available treatments (plasma exchange and immunosuppression), with most deaths occurring within 30 days of diagnosis. In the U.S., aTTP affects fewer than 2,000 adults each year.

“aTTP is a very severe, life-threatening disease. For those faced with this rare diagnosis, the treatment and care can be difficult and the threat of recurrence is ever-present,” said Spero R. Cataland, M.D., Professor of Internal Medicine, Division of Hematology, Wexner Medical Center at the Ohio State University. “Cablivi provides new hope for adults in the U.S. suffering with aTTP and provides a much needed treatment option to help effectively manage aTTP episodes.”

In aTTP, accumulation of ultra-large vWF causes extensive clot formation in small blood vessels throughout the body, leading to severe thrombocytopenia (very low platelet count), microangiopathic hemolytic anemia (loss of red blood cells through destruction), and ischemia (restricted blood supply to parts of the body).

Cablivi Clinical Program and Results

The approval of Cablivi in the U.S. is based on the results of the pivotal multicentre, randomized, double-blind, placebo-controlled Phase 3 clinical study known as HERCULES. This trial evaluated the efficacy of Cablivi in combination with plasma exchange and immunosuppressive therapy (n=72) versus placebo, plasma exchange and immunosuppressive therapy (n=73) in 145 adults experiencing an episode of aTTP.

In the HERCULES study, treatment with Cablivi in combination with plasma exchange and immunosuppression resulted in a significantly shorter time to platelet count response versus plasma exchange and immunosuppression alone (Hazard Ratio 1.55 [1.10; 2.20] p=0.01), the study’s primary efficacy endpoint; in secondary endpoints, Cablivi showed a significant
reduction on a composite endpoint of aTTP-related death, recurrence of aTTP, or a major thromboembolic event during study drug treatment versus plasma exchange and immunosuppression alone (12.7% vs. 49.3%; p <0.0001); and a significantly lower percentage of aTTP recurrences in the overall study period versus plasma exchange and immunosuppression alone (13% vs. 38%; p<0.001). Results of this study were published in the New England Journal of Medicine in January 2019.

In the HERCULES and TITAN (Phase 2) clinical trials, the most frequently reported adverse reactions were epistaxis (bleeding from the nose) 29%, headache 21% and gingival (gums) bleeding 16%. In the placebo group, two deaths were reported in the TITAN study and three deaths in the HERCULES study. No deaths were reported during the study drug treatment period in the Cablivi group in the TITAN and HERCULES studies. However, one death was reported in the HERCULES study during the treatment free follow up period, which was determined not to be Cablivi treatment related.

About Cablivi

Cablivi should be administered upon initiation of plasma exchange therapy, based on a diagnosis of aTTP. Cablivi is first administered as an 11 mg intravenous injection prior to plasma exchange, followed by an 11 mg subcutaneous injection after completion of plasma exchange on day 1. During the daily plasma exchange period and 30 days following daily plasma exchange, patients will take daily 11 mg subcutaneous injections. If after the initial treatment symptoms of the underlying disease are unresolved the treatment can be further extended for a maximum of 28 days. Subcutaneous injection can by administered by a patient/caregiver following proper training.

Cablivi is expected to be available in the U.S. late in the first quarter. The U.S. list price, or wholesale acquisition cost, for treating a typical aTTP episode with Cablivi is $270,000. Sanofi is committed to helping U.S. patients who have been prescribed Cablivi access their medication and get the support they need, and will be launching Cablivi Patient Solutions, a comprehensive patient support program. For patients with aTTP who are prescribed Cablivi, Cablivi Patient Solutions will provide support to eligible patients who require financial assistance.

Cablivi was developed by Ablynx, which was acquired by Sanofi in 2018. Cablivi was approved in the European Union in August 2018. Cablivi is part of the company’s rare blood disorders franchise within Sanofi Genzyme, the specialty care global business unit of Sanofi.

IMPORTANT SAFETY INFORMATION

What is CABLIVI?

CABLIVI (caplacizumab-yhdp) is a prescription medicine used for the treatment of adults with acquired thrombotic thrombocytopenic purpura (aTTP), in combination with plasma exchange and immunosuppressive therapy.

Who should not take CABLIVI?

Do not take CABLIVI if you've had an allergic reaction to caplacizumab-yhdp or to any of the ingredients in CABLIVI.

What should I tell my healthcare team before starting CABLIVI?

Tell your doctor if you have a medical condition including if you have a bleeding disorder. Tell your doctor about any medicines you take.

Inform your healthcare provider before scheduling any elective surgery, dental procedure or other invasive interventions.

What are the possible side effects of CABLIVI?

CABLIVI can cause bleeding. Bruising and bleeding, including bleeding from the nose and gums, may occur more easily and take longer than usual to stop. Contact your doctor immediately if excessive bleeding or bruising occur.

You may have a higher risk of bleeding if you have a bleeding disorder (i.e Hemophilia) or if you take other medicines that increase your risk of bleeding such as anti-coagulants.

The most common side effects include nosebleed, headache and bleeding gums.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all the possible side effects of CABLIVI. Call your doctor for medical advice about side effects. You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.

For full prescribing information, please visit www.cablivi.com.

About Sanofi

Sanofi is dedicated to supporting people through their health challenges. We are a global biopharmaceutical company focused on human health. We prevent illness with vaccines, provide innovative treatments to fight pain and ease suffering. We stand by the few who suffer from rare diseases and the millions with long-term chronic conditions.

With more than 100,000 people in 100 countries, Sanofi is transforming scientific innovation into healthcare solutions around the globe.

Sanofi, Empowering Life

Sanofi Forward-Looking Statements

This press release contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts. These statements include projections and estimates regarding the marketing and other potential of the product, or regarding potential future
revenues from the product. Forward-looking statements are generally identified by the words “expects”, “anticipates”,
“believes”, “intends”, “estimates”, “plans” and similar expressions. Although Sanofi’s management believes that the
expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking
information and statements are subject to various risks and uncertainties, many of which are difficult to predict and
generally beyond the control of Sanofi, that could cause actual results and developments to differ materially from those
expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties
include among other things, unexpected regulatory actions or delays, or government regulation generally, that could affect
the availability or commercial potential of the product, the absence of guarantee that the product will be commercially
successful, the uncertainties inherent in research and development, including future clinical data and analysis of existing
clinical data relating to the product, including post marketing, unexpected safety, quality or manufacturing issues,
competition in general, risks associated with intellectual property and any related future litigation and the ultimate outcome
of such litigation, and volatile economic conditions, as well as those risks discussed or identified in the public filings with the
SEC and the AMF made by Sanofi, including those listed under “Risk Factors” and “Cautionary Statement Regarding Forward-
Looking Statements” in Sanofi’s annual report on Form 20-F for the year ended December 31, 2017. Other than as required
by applicable law, Sanofi does not undertake any obligation to update or revise any forward-looking information or
statements.

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