

## Vertex Announces European Medicines Agency Marketing Authorization Application Validation for VX-445 (Elexacaftor), Tezacaftor and Ivacaftor Triple Combination Treatment in Cystic Fibrosis

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- Application supported by positive results from two global Phase 3 studies in people with cystic fibrosis ages 12 and older with one F508del mutation and one minimal function mutation and in people with two F508del mutations -

LONDON--(BUSINESS WIRE)--Oct. 31, 2019-- Vertex Pharmaceuticals (Europe) Limited today announced that the European Medicines Agency (EMA) has validated the Marketing Authorization Application (MAA) for the VX-445 (elexacaftor), tezacaftor and ivacaftor triple combination regimen. The submission was supported by previously disclosed positive results of two global Phase 3 studies in people with cystic fibrosis (CF): a 24-week study in people with one *F508del* mutation and one minimal function mutation and a 4-week study in people with two *F508del* mutations. Both Phase 3 studies showed statistically significant improvements in lung function (percent predicted forced expiratory volume in one second; ppFEV1), which was the primary endpoint, and in all key secondary endpoints. In these studies, the triple combination regimen was generally well tolerated.

"Today marks a significant milestone towards our efforts to bring new medicines to more people around the world who are living with cystic fibrosis," said Reshma Kewalramani, M.D., Executive Vice President and Chief Medical Officer at Vertex. "We are looking forward to working with the EMA on this important application."

## **About Cystic Fibrosis**

Cystic fibrosis (CF) is a rare, life-shortening genetic disease affecting approximately 75,000 people worldwide. CF is a progressive, multi-system disease that affects the lungs, liver, GI tract, sinuses, sweat glands, pancreas and reproductive tract. CF is caused by a defective and/or missing CFTR protein resulting from certain mutations in the *CFTR* gene. Children must inherit two defective *CFTR* genes — one from each parent — to have CF. While there are many different types of *CFTR* mutations that can cause the disease, the vast majority of all people with CF have at least one *F508del* mutation. These mutations, which can be determined by a genetic test, or genotyping test, lead to CF by creating non-working and/or too few CFTR proteins at the cell surface. The defective function and/or absence of CFTR protein results in poor flow of salt and water into and out of the cells in a number of organs. In the lungs, this leads to the buildup of abnormally thick, sticky mucus that can cause chronic lung infections and progressive lung damage in many patients that eventually leads to death. The median age of death is in the early 30s.

## **About Vertex**

Vertex is a global biotechnology company that invests in scientific innovation to create transformative medicines for people with serious diseases. The company has three approved medicines that treat the underlying cause of cystic fibrosis (CF) – a rare, life-threatening genetic disease — and has several ongoing clinical and research programs in CF. Beyond CF, Vertex has a robust pipeline of investigational medicines in other serious diseases where it has deep insight into causal human biology, such as sickle cell disease, beta thalassemia, pain, alpha-1 antitrypsin deficiency, Duchenne muscular dystrophy and APOL1-mediated kidney diseases.

Founded in 1989 in Cambridge, Mass., Vertex's global headquarters is now located in Boston's Innovation District and its international headquarters is in London, UK. Additionally, the company has research and development sites and commercial offices in North America, Europe, Australia and Latin America. Vertex is consistently recognized as one of the industry's top places to work, including 10 consecutive years on Science magazine's Top Employers list and top five on the 2019 Best Employers for Diversity list by Forbes.

## **Special Note Regarding Forward-looking Statements**

This press release contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, including, without limitation, Dr. Kewalramani's statement in the second paragraph of this press release. While Vertex believes the forward-looking statements contained in this press release are accurate, there are a number of factors that could cause actual events or results to differ materially from those indicated by such forward-looking statements. Those risks and uncertainties include, among other things, that data from the company's development programs may not support registration or further development of its compounds due to safety, efficacy or other reasons, and other risks listed under Risk Factors in Vertex's annual report and quarterly reports filed with the Securities and Exchange Commission and available through the company's website at <a href="https://www.vrtx.com">www.vrtx.com</a>. Vertex disclaims any obligation to update the information contained in this press release as new information becomes available.

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