



Vertex Receives CHMP Positive Opinion for ORKAMBI® (lumacaftor/ivacaftor) in Children With Cystic Fibrosis Ages 1 to <2 Years Old

April 27, 2023

- If approved by the European Commission, nearly 300 children with cystic fibrosis and two copies of the F508del mutation would be eligible for the first time for a medicine that can treat the underlying cause of their disease -

LONDON – 27 April 2023 – [Vertex Pharmaceuticals](#) (Nasdaq: VRTX) today announced that the European Medicines Agency's (EMA) Committee for Medicinal Products for Human Use (CHMP) adopted a positive opinion for the label extension of ORKAMBI® (lumacaftor/ivacaftor) for the treatment of children with cystic fibrosis (CF) ages 1 to <2 years old who have two copies of the *F508del* mutation in the cystic fibrosis transmembrane conductance regulator (*CFTR*) gene, the most common form of the disease.

"Symptoms and organ damage start very early in the lives of people with cystic fibrosis. Treating patients as young as possible is important, as it can potentially slow the progression of this devastating disease," said Fosca De Iorio, Vice President, International Medical Affairs at Vertex. "Today's news provides great hope that, if approved, a treatment option will be available for the first time for about 300 young children with CF who have two copies of the *F508del* mutation."

In the European Union, ORKAMBI® (lumacaftor/ivacaftor) is already approved for the treatment of people with CF who have two copies of the *F508del* mutation, ages 2 years and above.

About Cystic Fibrosis

Cystic fibrosis (CF) is a rare, life-shortening genetic disease affecting more than 88,000 people globally. CF is a progressive, multi-organ disease that affects the lungs, liver, pancreas, GI tract, sinuses, sweat glands 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, and these mutations can be identified by a genetic test. While there are many different types of *CFTR* mutations that can cause the disease, the vast majority of people with CF have at least one *F508del* mutation. *CFTR* mutations lead to CF by causing CFTR protein to be defective or by leading to a shortage or absence of CFTR protein 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, chronic lung infections and progressive lung damage that eventually leads to death for many patients. The median age of death is in the early 30s.

About ORKAMBI® (lumacaftor/ivacaftor)

In people with two copies of the *F508del* mutation, the CFTR protein is not processed and trafficked normally within the cell, resulting in little to no CFTR protein at the cell surface.

ORKAMBI® (lumacaftor/ivacaftor) is an oral medicine that is a combination of lumacaftor and ivacaftor. Lumacaftor is designed to increase the amount of mature protein at the cell surface by targeting the processing and trafficking defect of the *F508del*-CFTR protein. Ivacaftor, which is known as a CFTR potentiator, is designed to facilitate the ability of CFTR proteins to transport salt and water across the cell membrane. The combined actions of lumacaftor and ivacaftor help hydrate and clear mucus from the airways.

For complete product information, please see the Summary of Product Characteristics that can be found on www.ema.europa.eu.

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 multiple 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 clinical pipeline of investigational small molecule, mRNA, cell and genetic therapies (including gene editing) in other serious diseases where it has deep insight into causal human biology, including sickle cell disease, beta thalassemia, APOL1-mediated kidney disease, acute and neuropathic pain, type 1 diabetes and alpha-1 antitrypsin deficiency.

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. 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 13 consecutive years on Science magazine's Top Employers list and one of Fortune's 100 Best Companies to Work For. For company updates and to learn more about Vertex's history of innovation, visit www.vrtx.com or follow us on Twitter, LinkedIn and YouTube.

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, statements made by Fosca De Iorio in this press release and statements regarding the eligible patient population for ORKAMBI[®], our expectations for the number of patients newly eligible for ORKAMBI[®], and statements regarding the potential benefits of ORKAMBI[®]. While Vertex believes the forward-looking statements contained in this press release are accurate, these forward-looking statements represent the company's beliefs only as of the date of this press release and 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 risks listed under the heading "Risk Factors" in Vertex's annual report and in subsequent filings filed with the Securities and Exchange Commission and available through the company's website at www.vrtx.com and www.sec.gov. You should not place undue reliance on these statements. Vertex disclaims any obligation to update the information contained in this press release as new information becomes available.

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