



NO EFFECTIVE TREATMENTS FOR CYSTIC FIBROSIS EXISTED 50 YEARS AGO and little was known about the disease. Today, the Foundation maintains a robust pipeline of therapies that target CF from every angle, including the root cause of the disease. Nearly every CF drug available today was made possible because of the Foundation's support and its ongoing work with researchers. The Foundation has raised and invested hundreds of millions of dollars to help in the discovery and development of breakthrough therapies that have improved the quality of life and life expectancy for people with the disease. Visit [CFF.org/pipeline](https://www.cff.org/pipeline) to learn more about the development of CF drugs.

EXPLANATION OF DRUGS IN THE CF PIPELINE

► Restore CFTR Function

The symptoms of cystic fibrosis are caused by a defective protein, known as the cystic fibrosis transmembrane conductance regulator (CFTR). Researchers are investigating potential therapies to restore proper function to the CFTR protein or correct its production process so that a normal protein is made.

► Mucociliary Clearance

People with cystic fibrosis have thick, sticky mucus that blocks passages in their lungs, making it difficult for them to breathe and predisposing them to infections. Mucociliary drugs help break up and hydrate mucus in the lungs to make it easier to clear.

► Anti-Infective

People with cystic fibrosis are prone to infections because of the thick, sticky mucus that clogs their airways. The Foundation is funding research to help fight these infections.

► Anti-Inflammatory

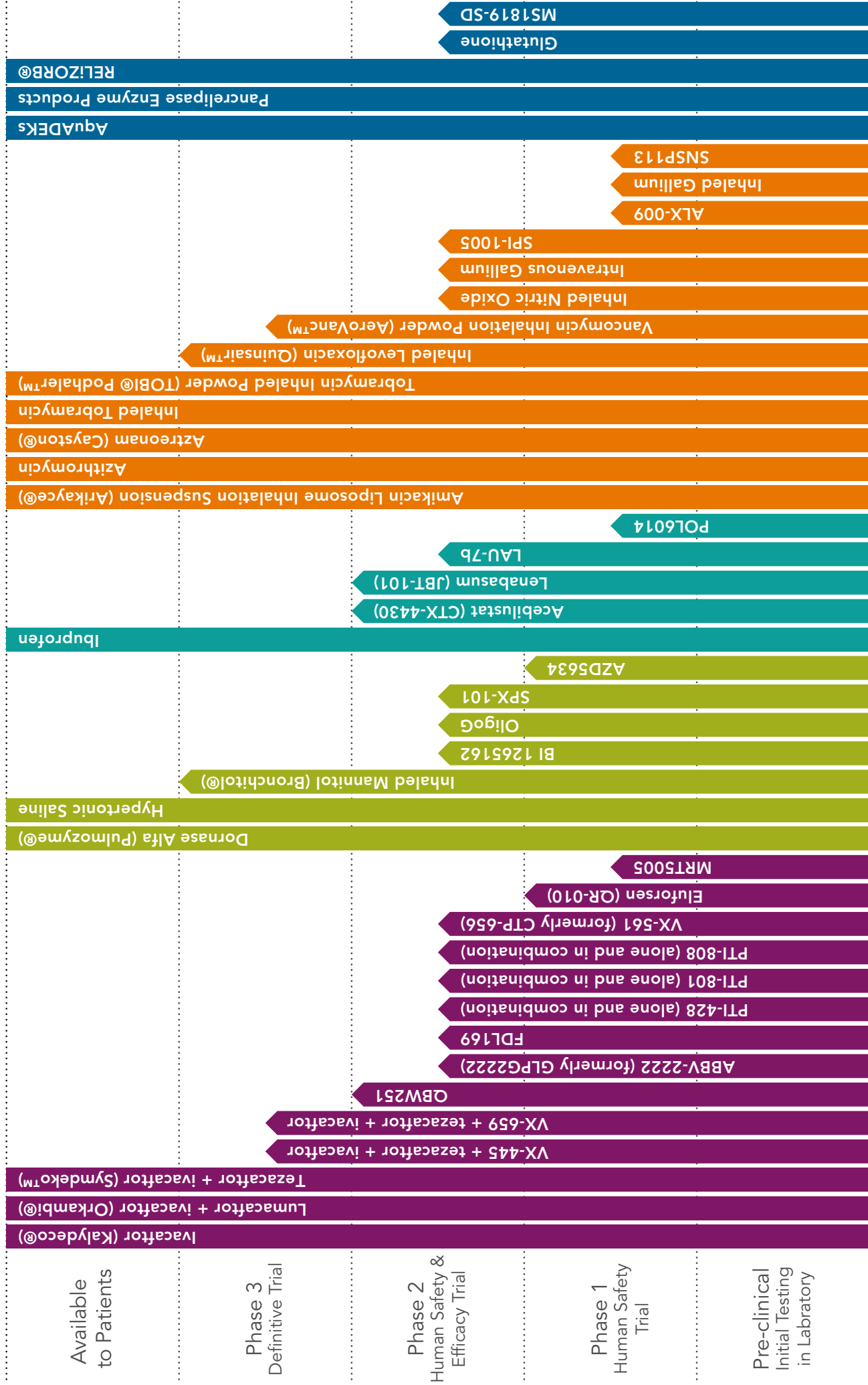
Chronic inflammation in people with cystic fibrosis causes damage to lung tissue that can eventually lead to respiratory failure. Researchers are trying to discover ways to dampen the exaggerated immune response that causes chronic inflammation without affecting the body's natural defenses against infection.

► Nutritional-GI-Other

People with cystic fibrosis can experience complications in the pancreas, liver, and intestines that can lead to malnutrition, constipation, liver disease, CF-related diabetes, and other digestive issues -- including abdominal pain and poor appetite.

Drug Development Pipeline

© 2/25/2019



To advance drug development and a search for a cure, the CF Foundation has contractual agreements with several companies to receive royalties related to drugs that are developed as a result of CFF funding. Any royalties we receive are used in support of our mission.