

# Genetic Disorder Prediction Report

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Patient Age: 3

Gender: Male

Predicted Disorder: Genetic Disorder

Subclass: Cystic fibrosis

Date: 26-12-2025

Description:

## ### Cystic Fibrosis: A Patient-Friendly Overview

### #### Overview

Cystic fibrosis (CF) is a genetic disorder that affects the lungs and digestive system. It causes the body to

### #### Causes

Cystic fibrosis is caused by a change (mutation) in a gene called CFTR (Cystic Fibrosis Transmembrane

### #### Symptoms

Symptoms of cystic fibrosis can vary from person to person but often include:

- **Respiratory Issues:** Frequent coughing, wheezing, and difficulty breathing due to mucus buildup in the
- **Digestive Problems:** Difficulty digesting food, which can lead to poor growth and weight gain. This ha
- **Salty Sweat:** People with CF often have salty-tasting skin, which is a result of the body losing too mu
- **Frequent Lung Infections:** Due to mucus buildup, people with CF are more prone to lung infections.

### #### Diagnosis

Cystic fibrosis is usually diagnosed through:

- **Newborn Screening:** Many places perform a test shortly after birth to check for CF.
- **Sweat Test:** This test measures the amount of salt in sweat. High levels of salt can indicate CF.
- **Genetic Testing:** A blood test can check for mutations in the CFTR gene.

### #### Treatment

While there is currently no cure for cystic fibrosis, there are treatments that can help manage symptoms a

- **Medications:** These may include antibiotics to treat lung infections, mucus thinners to help clear muc
- **Airway Clearance Techniques:** These are exercises or devices that help loosen and clear mucus fro
- **Nutritional Support:** A high-calorie diet and vitamin supplements can help with growth and digestion.
- **Lung Transplant:** In severe cases