Genetic Disorder Prediction Report

Patient Age: 10

Gender: Male

Predicted Disorder: Genetic Disorder

Subclass: Cystic fibrosis

Date: 26-12-2025

Description:

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 co

Symptoms
Symptoms of cystic fibrosis can vary, but common ones include:
- **Respiratory issues:** Persistent cough, wheezing, shortness of breath, and frequent lung infections.
- **Digestive problems:** Difficulty digesting food, poor weight gain, and greasy, bulky stools.
- **Salty skin:** Many parents notice that their child's skin tastes salty when they kiss them.
- **Other symptoms:** Clubbing of fingers or toes (widening and rounding of the nails), and infertility in ma

Diagnosis
Cystic fibrosis is usually diagnosed through:
- **Newborn screening:** A simple blood test done shortly after birth can check for CF.
- **Sweat test:** This test measures the amount of salt in sweat. People with CF have higher levels of sal
- **Genetic testing:** A blood test can identify mutations in the CFTR gene.

Treatment
While there is no cure for cystic fibrosis, treatments can help manage symptoms and improve quality of li
- **Medications:** Antibiotics to treat lung infections, mucus thinners to help clear mucus from the lungs, a
- **Chest physiotherapy:** Techniques to help loosen and clear mucus from the lungs.
- **Nutritional support:** A high-calorie diet and vitamin supplements to ensure proper nutrition.
- **Lung transplant:** In severe cases, a lung transplant may be considered.

Follow-up Advice
If you or your child has cystic fibrosis, regular follow-up care is essential. This may include:
- **Routine check-ups