GENETIC DISORDER REPORT
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Genetic Disorder: Mitochondrial genetic inheritance disorders
Subclass: Cystic fibrosis

----- PATIENT DETAILS -----
patient_age: 11
father_age: 41
mother_age: 51
gender: Male
genes_mother_side: Yes
inherited_father: Yes
maternal_gene: No
paternal_gene: No
blood_cell_count: 5.1179092424933112
white_blood_cell_count: 60872167523839368
respiratory_rate: 15
heart_rate: 88
parental_consent: None
follow_up: None
birth_effects: None
folic_acid_intake: None
blood_test_result: Yes
No_of_previous_abortion: None

----- DESCRIPTION -----
Okay, let's break down Cystic Fibrosis (CF) in simple medical terms. It's important to note that CF is NO
It's a genetic disorder, but it's inherited differently than mitochondrial disorders.

Disorder: Cystic Fibrosis (CF)

Overview:

* Cystic Fibrosis is a genetic disease that primarily affects the lungs, pancreas, liver, intestines, sinuse
* It causes the body to produce abnormally thick and sticky mucus. This mucus clogs the lungs, leadin

Causes:

* CF is caused by a mutation (a change) in a gene called the CFTR (Cystic Fibrosis Transmembrane C
* This gene provides instructions for making a protein that controls the movement of salt and water in
* When the CFTR gene is mutated, the protein doesn't work properly, leading to the thick, sticky mucu
* **Inheritance:** You must inherit TWO copies of the mutated CFTR gene – one from each parent – t

Symptoms:

Symptoms can vary from person to person, but commonly include:

* **Lung Problems:**
  * Persistent cough with thick mucus
  * Wheezing and shortness of breath
  * Frequent lung infections (pneumonia, bronchitis)
  * Nasal Congestion and Sinus Infections
* **Digestive Problems:**
  * Very salty-tasting skin
  * Poor growth and weight gain, despite a normal appetite
  * Bulky, greasy stools