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

----- PATIENT DETAILS -----
patient_age: 48
father_age: 1000
mother_age: 1000
gender: Male
genes_mother_side: Yes
inherited_father: Yes
maternal_gene: Yes
paternal_gene: Yes
blood_cell_count: 5000
white_blood_cell_count: 5000
respiratory_rate: 15
heart_rate: 72
parental_consent: Yes
follow_up: Medium
birth_effects: Yes
folic_acid_intake: Yes
blood_test_result: Abnormal
No_of_previous_abortion: 1

----- DESCRIPTION -----
Okay, let's break down Cystic Fibrosis (CF) in simple medical terms, remembering it's *not* a mitochon

Overview:

Cystic Fibrosis (CF) is a genetic disease that primarily affects the lungs, pancreas, and other organs, le

Causes:

* **Faulty Gene:** CF is caused by mutations (errors) in a gene called the *CFTR* (Cystic Fibrosis Tra
* **Recessive Inheritance:** To have CF, a person must inherit *two* copies of the faulty CFTR gene

Symptoms:

Symptoms can vary in severity from person to person, but common ones include:

* **Lung Problems:**
  * Persistent coughing, sometimes with thick mucus (sputum)
  * Wheezing and shortness of breath
  * Frequent lung infections (like pneumonia or bronchitis)
* **Digestive Problems:**
  * Very salty-tasting skin
  * Poor growth or weight gain, despite a good appetite
  * Bulky, greasy stools (poop) due to poor digestion
  * Bowel obstruction (especially in newborns – meconium ileus)
* **Other Problems:**
  * Nasal polyps (growths in the nose)
  * Infertility (especially in males)
  * Diabetes (later in life)
  * Liver disease