GENETIC DISORDER REPORT
==========

Genetic Disorder: Mitochondrial genetic inheritance disorders
Subclass: Leigh syndrome

----- PATIENT DETAILS -----
patient_age: 12
father_age: 45
mother_age: 45
gender: Female
genes_mother_side: Yes
inherited_father: No
maternal_gene: Yes
paternal_gene: No
blood_cell_count: 5.054
white_blood_cell_count: 8000
respiratory_rate: 20
heart_rate: 66
parental_consent: None
follow_up: None
birth_effects: None
folic_acid_intake: None
blood_test_result: Not
No_of_previous_abortion: None

----- DESCRIPTION -----
Okay, let's break down Leigh Syndrome, a type of mitochondrial genetic inheritance disorder, in simple

Leigh Syndrome: A Simplified Explanation

*   **Overview:**
    *   Leigh Syndrome is a severe neurological (brain and nervous system) disorder that usually appear
    *   Think of it like this: The brain and muscles (and sometimes other organs) aren't getting enough "f
    *   It belongs to a broader group of diseases called mitochondrial disorders because the problem lies
*   **Causes:**
    *   **Mitochondria are the "powerhouses" of cells.** They convert food into energy that the body can
    *   **Leigh Syndrome happens when the mitochondria don't work right.** They can't produce enough
    *   **Genetic mutations (changes) are the root cause.** These mutations affect the genes that control
    *   **Mitochondrial Inheritance:** This is how it gets passed down. Mitochondria (and their DNA) are i
*   **Symptoms:**
    *   Symptoms can vary quite a bit from person to person. Here are some common ones:
        *   **Developmental delays or regression:** Babies might not reach milestones on time or might lo
        *   **Muscle problems:** Weakness, floppiness (hypotonia), stiffness (spasticity), or involuntary mo
        *   **Breathing problems:** Irregular breathing, rapid breathing, or pauses in breathing (apnea).
        *   **Feeding difficulties:** Problems sucking, swallowing, or digesting food, leading to poor weigh
        *   **Vision problems:** Abnormal eye movements (nystagmus) or vision loss.
        *   **Seizures:**
        *   **Lactic acidosis:** A buildup of lactic acid in the body, which can cause nausea, vomiting, and
*   **Risk Factors:**
    *   **Family history:** Having a family member with Leigh Syndrome or another mitochondrial disorde
    *   **Maternal inheritance:** If the mother carries a mitochondrial DNA mutation, the risk to her childre
*   **Treatment:**