

# Genetic Disorder Prediction Report

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Patient Age: 2

Gender: Male

Predicted Disorder: Genetic Disorder

Subclass: Leigh syndrome

Date: 26-12-2025

## Description:

### ### Overview

Leigh syndrome is a rare genetic disorder that affects the brain and nervous system. It usually appears in

### ### Causes

Leigh syndrome is caused by changes (mutations) in genes that are important for energy production in the

### ### Symptoms

Symptoms of Leigh syndrome can vary widely but often include:

- **Developmental delays**: Children may not reach milestones like sitting up or walking on time.
- **Loss of motor skills**: Skills that were previously learned may be lost.
- **Muscle weakness**: Children may have difficulty moving or controlling their muscles.
- **Seizures**: Some children may experience seizures.
- **Breathing problems**: This can include difficulty breathing or irregular breathing patterns.
- **Poor feeding**: Infants may have trouble feeding or gaining weight.

Symptoms can worsen over time, and the severity of the disorder can vary from child to child.

### ### Diagnosis

To diagnose Leigh syndrome, doctors typically perform:

- **Medical history and physical examination**: This helps assess symptoms and family history.
- **Genetic testing**: A blood test can identify specific gene mutations associated with Leigh syndrome.
- **Imaging tests**: MRI scans of the brain can show characteristic changes associated with the disorder.

### ### Treatment

Currently, there is no cure for Leigh syndrome, but treatment focuses on managing symptoms and improving

- **Physical therapy**: To help improve movement and muscle strength.
- **Occupational therapy**: To assist with daily activities and skills.
- **Medications**: To manage symptoms like seizures or muscle spasms.
- **Nutritional support**: Special diets or supplements may be recommended to ensure proper nutrition.

### ### Follow-up Advice

If your child has been diagnosed with Leigh syndrome, regular follow-up with a healthcare team is essential

It's also important to connect with support groups or organizations that focus on Leigh