

# Genetic Disorder Prediction Report

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Patient Age: 11

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 the genes that are responsible for producing energy

### ### Symptoms

Symptoms of Leigh syndrome can vary but often include:

- Delayed development or loss of milestones (like sitting up or walking)
- Weak muscle tone (hypotonia)
- Difficulty with movement and coordination
- Seizures
- Breathing problems
- Feeding difficulties
- Abnormalities in the heart or other organs

Symptoms usually start in the first year of life and can progress quickly.

### ### Diagnosis

To diagnose Leigh syndrome, doctors will typically:

1. **\*\*Review Medical History\*\***: Discuss symptoms and family history.
2. **\*\*Physical Examination\*\***: Check for signs of developmental delays and neurological issues.
3. **\*\*Genetic Testing\*\***: A blood test can identify specific gene mutations associated with Leigh syndrome.
4. **\*\*Imaging Tests\*\***: MRI scans of the brain can show characteristic changes related to the disorder.

### ### Treatment

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

- **\*\*Physical therapy\*\***: To help with movement and coordination.
- **\*\*Occupational therapy\*\***: To assist with daily activities.
- **\*\*Medications\*\***: To control seizures or other specific symptoms.
- **\*\*Nutritional support\*\***: Special diets or feeding tubes may be needed for those with feeding difficulties.

### ### Follow-up Advice

If your child has been diagnosed with Leigh syndrome, regular follow-ups with a healthcare team, including

- **\*\*Monitor Development\*\***: Keep track of your child's milestones and any changes in symptoms.
- **\*\*Stay Informed\*\***: Learn about the condition and connect with support groups for families affected by Leigh syndrome.
- **\*\*Plan for Emergencies\*\***: Be prepared for possible health crises