

Genetic Disorder Prediction Report

Patient Age: 1

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

The 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.
- **Seizures**: Some children may experience seizures, which are sudden bursts of electrical activity in the brain.
- **Weak muscle tone**: This can make it difficult for the child to move or control their body.
- **Breathing problems**: Some children may have difficulty breathing or may breathe irregularly.
- **Feeding difficulties**: They may have trouble eating or swallowing.

Diagnosis

To diagnose Leigh syndrome, doctors will typically:

1. **Review the medical history**: They will ask about symptoms and family history.
2. **Perform a physical examination**: This helps assess the child's development and neurological function.
3. **Order tests**: These may include blood tests, MRI scans of the brain, and genetic testing to look for specific mutations.

Treatment

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

- **Physical therapy**: To help with movement and muscle strength.
- **Occupational therapy**: To assist with daily activities.
- **Medications**: To control seizures or other symptoms.
- **Nutritional support**: Some children may need special diets or feeding tubes to ensure they get enough energy.

Follow-up Advice

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

- **Monitor development**: