

Genetic Disorder Prediction Report

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 improv

- **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 essent

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