

Genetic Disorder Prediction Report

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 quality of life.

- **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.