

Genetic Disorder Prediction Report

Patient Age: 20

Gender: Female

Predicted Disorder: Genetic Disorder

Subclass: Leigh syndrome

Date: 31-01-2026

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 mutations (changes) in the genes that are important for energy production in

Symptoms

Symptoms of Leigh syndrome can vary widely but often include:

- Delayed development or loss of previously acquired skills (like walking or talking)
- Muscle weakness and poor muscle tone
- Breathing problems
- Seizures
- Difficulty swallowing
- Abnormal movements or coordination issues
- Problems with vision or hearing

Symptoms usually start in the first year of life, but they can sometimes appear later.

Diagnosis

Diagnosing Leigh syndrome involves several steps:

1. **Medical History and Physical Exam**: The doctor will ask about symptoms and family history.
2. **Imaging Tests**: MRI scans of the brain can show characteristic changes associated with Leigh syndrome.
3. **Genetic Testing**: A blood test can identify mutations in the genes associated with 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 strength
- Occupational therapy to assist with daily activities
- Medications to control seizures or other symptoms
- Nutritional support, sometimes through a feeding tube if swallowing is difficult

Follow-up Advice

If you or your child has been diagnosed with Leigh syndrome, regular follow-ups with a healthcare team are important.

- Keep track of any new symptoms and report them to your doctor.
- Stay informed about the condition and connect with support groups for families affected by Leigh syndrome.
- Ensure regular check-ups to monitor development and adjust treatments as needed.

Remember, while Leigh syndrome can be challenging, many families find support through healthcare pro