

Genetic Disorder Prediction Report

Patient Age: 11

Gender: Male

Predicted Disorder: Genetic Disorder

Subclass: Leber's hereditary optic neuropathy

Date: 26-12-2025

Description:

Overview

Leber's hereditary optic neuropathy (LHON) is a genetic condition that primarily affects the eyes, leading

Causes

LHON is caused by mutations in the mitochondrial DNA, which is the genetic material found in the mitochondria.

Symptoms

The main symptom of LHON is a sudden loss of vision, which often starts in one eye and can progress to the other.

- Blurred or cloudy vision
- Changes in color perception
- Difficulty seeing in low light

Diagnosis

To diagnose LHON, a doctor will typically:

- Review your medical history and family history.
- Conduct a comprehensive eye examination, including tests to assess your vision.
- Perform genetic testing to identify mutations in mitochondrial DNA.

Treatment

Currently, there is no cure for LHON, but some treatments may help manage the condition or improve vision.

- Nutritional supplements, such as idebenone, which may help support optic nerve health.
- Vision rehabilitation services to help adapt to vision loss.

Follow-up Advice

If you or a family member is diagnosed with LHON, it's important to have regular follow-ups with your eye doctor.

If you notice any sudden changes in your vision, seek medical attention immediately.