

Genetic Disorder Prediction Report

Patient Age: 10

Gender: Female

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 your eyesight. It is

Causes

LHON is caused by mutations (or changes) in the mitochondrial DNA, which is the genetic material found

Symptoms

The main symptom of LHON is a sudden loss of vision, which usually occurs in one eye and can then affe

- Changes in color vision (seeing colors differently)
- Difficulty seeing in low light
- A central blind spot in your vision

Diagnosis

To diagnose LHON, your doctor will:

1. ****Take a Medical History****: Ask about your symptoms and family history of vision problems.
2. ****Eye Exam****: Perform a thorough eye examination to check for changes in the optic nerve.
3. ****Genetic Testing****: Conduct tests to look for specific mutations in mitochondrial DNA that are associat

Treatment

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

- ****Nutritional Supplements****: Some studies suggest that certain vitamins (like B vitamins) may help prote
- ****Vision Rehabilitation****: If vision loss occurs, rehabilitation programs can help you adapt and make the

Follow-up Advice

If you are diagnosed with LHON, regular follow-up appointments with your eye doctor are essential to mo

- ****Stay Informed****: Learn about the condition and connect with support groups for people with LHON.
- ****Healthy Lifestyle****: Maintain a healthy diet and avoid smoking, as these can impact your overall health
- ****Family Planning****: If you are considering having children, talk to a genetic counselor about the risks o

If you notice any sudden