Genetic Disorder Prediction Report

Patient Age: 12

Gender: Female

Predicted Disorder: Genetic Disorder

Subclass: Mitochondrial myopathy

Date: 26-12-2025

Description:

Overview
Mitochondrial myopathy is a type of genetic disorder that affects the muscles and is caused by problems

Causes
Mitochondrial myopathy is caused by mutations (changes) in the DNA of mitochondria or in the nuclear D

Symptoms
The symptoms of mitochondrial myopathy can vary widely from person to person but often include:
- Muscle weakness, especially after exercise
- Muscle pain or cramps
- Fatigue and low energy
- Difficulty with coordination and balance
- Problems with vision or hearing
- Heart issues or other organ problems in some cases

Symptoms may develop in childhood or adulthood and can range from mild to severe.

Diagnosis
To diagnose mitochondrial myopathy, doctors typically:
1. **Take a detailed medical history**: This includes asking about symptoms and family history.
2. **Perform a physical exam**: They will check muscle strength and function.
3. **Order tests**: These may include blood tests, muscle biopsies (taking a small sample of muscle tissu

Treatment
Currently, there is no cure for mitochondrial myopathy, but treatment focuses on managing symptoms an
- **Physical therapy**: To help strengthen muscles and improve mobility.
- **Medications**: Some patients may benefit from supplements like Coenzyme Q10 or L-carnitine, which
- **Lifestyle changes**: Eating a balanced diet, staying active within limits, and avoiding extreme tempera

Follow-up Advice
If you or a loved one has been diagnosed with mitochondrial myopathy, regular follow-up appointments w