

Genetic Disorder Prediction Report

Patient Age: 1

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 mitochondria, which are the tiny power

Causes

Mitochondrial myopathy is caused by mutations (or changes) in the genes that are responsible for the fu

Symptoms

The symptoms of mitochondrial myopathy can vary widely from person to person, but common signs inclu

- Muscle weakness or fatigue, especially after exercise
- Muscle pain or cramps
- Difficulty with coordination and balance
- Exercise intolerance (feeling very tired after physical activity)
- Some individuals may also experience issues with their heart, eyes, or nervous system.

Diagnosis

To diagnose mitochondrial myopathy, doctors typically start with a thorough medical history and physical

- Blood tests to check for elevated levels of certain enzymes that indicate muscle damage.
- Genetic testing to identify specific mutations.
- Muscle biopsy, where a small sample of muscle tissue is taken and examined for mitochondrial abnorm
- Imaging tests, like MRI, to assess muscle condition.

Treatment

While there is currently no cure for mitochondrial myopathy, treatment focuses on managing symptoms a

- Physical therapy to help strengthen muscles and improve mobility.
- Medications to manage pain or other symptoms.
- Nutritional support, including supplements like Coenzyme Q10, which may help improve energy product
- Regular follow-ups with healthcare providers to monitor the condition and adjust treatment as needed.

Follow-up Advice

If you or a loved one has been diagnosed with mitochondrial myopathy, it's important to:

- Keep regular appointments with your healthcare team to monitor your condition.
- Stay active within your limits; gentle exercise can help maintain muscle strength.
- Eat a balanced diet to support overall health.
- Be aware of any new symptoms and report them to your doctor promptly.
- Consider joining support groups or connecting with others who have similar experiences for emotional s

Remember