

# Genetic Disorder Prediction Report

---

Patient Age: 5

Gender: Female

Predicted Disorder: Genetic Disorder

Subclass: Diabetes

Date: 26-12-2025

Description:

## ### Overview

Diabetes is a condition that affects how your body processes sugar (glucose), which is a major source of energy for your body.

## ### Causes

The exact cause of diabetes can vary depending on the type:

- \*\*Type 1 Diabetes\*\*: This is often thought to be an autoimmune condition where the body mistakenly attacks its own insulin-producing cells.
- \*\*Type 2 Diabetes\*\*: This type is more commonly linked to lifestyle factors such as being overweight, lack of exercise, and diet.

## ### Symptoms

Common symptoms of diabetes include:

- Increased thirst and frequent urination
- Extreme hunger
- Fatigue
- Blurred vision
- Slow-healing sores or frequent infections
- Unexplained weight loss (more common in Type 1)

## ### Diagnosis

Diabetes is diagnosed through blood tests that measure your blood sugar levels. Common tests include:

- \*\*Fasting Blood Sugar Test\*\*: Measures blood sugar after an overnight fast.
- \*\*Oral Glucose Tolerance Test\*\*: Measures blood sugar before and after drinking a sugary solution.
- \*\*A1C Test\*\*: Shows your average blood sugar levels over the past 2 to 3 months.

## ### Treatment

Treatment for diabetes focuses on managing blood sugar levels and can include:

- \*\*Lifestyle Changes\*\*: Eating a balanced diet, exercising regularly, and maintaining a healthy weight.
- \*\*Medications\*\*: For Type 1 diabetes, insulin therapy is essential. For Type 2 diabetes, medications may be recommended.
- \*\*Monitoring\*\*: Regularly checking your blood sugar levels to ensure they stay within a target range.

## ### Follow-up Advice

- \*\*Regular Check-ups\*\*: Schedule regular appointments with your healthcare provider to monitor your condition and adjust treatment as needed.
- \*\*Healthy Lifestyle\*\*: Continue to focus on a balanced diet and regular physical activity, as these can greatly improve blood sugar control and overall health.