ACTIA
Inherited Genetics

MEDGENOME

About
# Maturity Onset Diabetes of the Young (MODY)

- A monogenic form of diabetes
- Characterized by a primary defect in pancreatic ß-cell function
- Autosomal dominant mode of inheritance
- Can occur at any age, but more likely to affect adolescents and young adults

## Symptoms

The signs and symptoms of MODY are similar to those of Type 1 or 2 diabetes, such as:

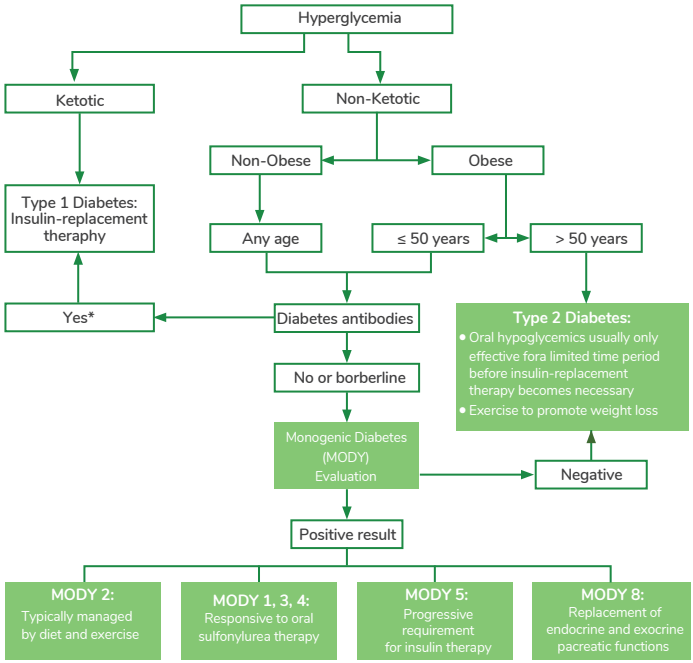
- High blood sugar levels
- Feeling thirsty
- Frequent urination
- Weight loss

## Prevalence of Monogenic form of Diabetes

**About 2-5 % of type 2 diabetes patients, who are less than 35 years of age.**

## Diagnosis of MODY

- Often misdiagnosed as type 1 or type 2 diabetes mellitus
- MODY can only be diagnosed by 'genetic testing'



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## Who should opt for the MODY genetic test ?

- People with family history of diabetes
- Children or young people with diabetes

## What role does genetics play in MODY?

- MODY is much different from the most common types of diabetes (Type 1 and 2)
- It runs in families and is caused by a single gene mutation.
- There are 14 different forms of MODY, each with its own unique clinical characteristics

## How is MODY treated and managed?

- Once the diagnosis for MODY is confirmed, on the basis of the form of MODY, insulin or other oral hypoglycaemic medications are prescribed by the clinicians.
- The treatment is offered on case to case basis and subjected to the judgement of the clinician on what he thinks is best suited for the patient.

| MedGenome offers | Test Sample requirements | Methodology | TAT |
|---|---|---|---|
| **MGM 033**<br>Maturity-onset diabetes of the young (MODY) | Peripheral blood<br>OR<br>Amniotic fluid<br>OR<br>Chorionic villus sample (CVS)<br>OR<br>Purified genomic DNA | NGS | 21 days |

## MODY: genes covered

***ABCC8, AKT2, APPL1, BLK, CEL, CISD2, EIF2AK3, FOXP3, GCK, GLIS3, GLUD1, HADH, HNF1A, HNF1B, HNF4A, IER3IP1, INS, INSR, KCNJ11, KLF11, MNX1, NEUROD1, NKX2-2, NKX6-1, PAX4, PDX1, PTF1A, RFX6, SLC2A2, WFS1, ZFP57***

## Get in touch

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