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#MADEEASY

DIABETES MELLITUS

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What is Diabetes Mellitus?

- ***It is a chronic endocrine pathology.***
- ***It is characterized by high blood glucose levels.***

It is mainly of two types :

- ***Type 1 Diabetes Mellitus***
- ***Type 2 Diabetes Mellitus***

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Can you please explain Type 1 Diabetes?

Type 1 Diabetes Mellitus
It is commonly seen in children and adolescents.

Etiology
- *Genetic predisposition*
- *Environmental triggers: viral infection etc.*

Pathogenesis:
- *Autoimmune disorder*
- *Leads to immune-mediated destruction of beta cells (insulin producing cells) in pancreas.*
- *Marked insufficiency or complete absence of insulin.*

Microscopic changes in pancreas:
- *Islet cell destruction.*

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Can you please explain Type 2 Diabetes?

Type 2 Diabetes Mellitus
Seen mostly in adults

Etiology
- *Genetics and environmental combined.*
- *Family history, Obesity/Sedentary lifestyle*
- *Drugs (glucocorticoids/thiazide etc)*

Pathogenesis:
- *Target tissues do not respond to insulin due to insulin resistance.*
- *There is initial beta cell hyperplasia which produces more insulin with deposition of amyloid and later* undergo atrophy due to exhaustion.
- *As a result, there is decreased insulin production by beta cells hyperglycaemia.*

Microscopic changes in pancreas:
- *Initial increase in beta cell mass, followed by a decline.*
- *Islet hypertrophy*
- *Amyloid deposition as Islet Amyloid Polypeptide (IAPP).*