DIABETES MELLITUS



is a chronic disorder of carbohydrate, protein, and fat metabolism resulting from insulin deficiency or abnormality in the use of insulin

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Types

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1. Type I

- ✓ formerly known as <u>Insulin</u> Dependent Diabetes Mellitus (IDDM)
- ✓ Autoimmune (Islet cell antibodies)
 - Early introduction of cow's milk and cereals
 - ·Intake of medicine during pregnancy
 - ·Indoor smoking of family members
- ✓destruction of beta cells of the pancreas → little or no insulin production
- requires daily insulin admin.
- may occur at any age, usually appears below age 15

Pre-Diabetes



- Impaired fasting glucose (IFG)
 - FPG- 100-125mg/dL
- Impaired glucose tolerance (IGT)
 - OGTT 140-199mg/dL
- HbA1c 5.7-6.4%



2. Type II

- formerly known as <u>Non Insulin-</u>
 <u>Dependent Diabetes Mellitus (NIDDM)</u>
- probably caused by:
 - disturbance in insulin reception in the cells
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 - Inumber of insulin receptors
- ✓ occurs over age 40 but can occur in children
- common in overweight or obese
- w/ some circulating insulin present,
 often do not require insulin

Clinical Manifestations (Signs and Symptoms)

- Polyuria
- Polydipsia
- Polyphagia
- weight loss
- nausea / vomiting
- changes in LOC (severe hyperglycemia)
 (sleepiness, drowsiness → coma)
- recurrent infection, prolonged wound healing
- altered immune and inflammatory response, prone to infection (glucose inhibits the phagocytic action of WBC → resistance)
- genited pruritus (hyperglycemia and glycosuria favor fungal growth: candidal infection - resulting in pruritus, common presenting symptom in women)

- weakness DRx ToniSingh

- fatigue

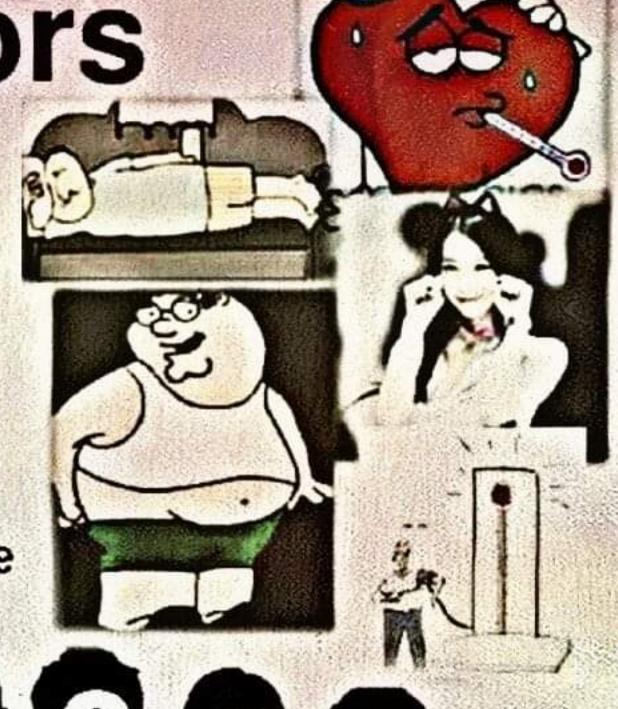
- 1 blood sugar / glucose level
- (+) glucose in urine (glycosuria)

Risk Factors

· Obesity DRx ToniSingh

- Race
- History of CVD
- · HTN
- Physical inactivity
- Familial history
- Polycystic Ovary Syndrome
- . Gestational Diabetes





Diagnostics

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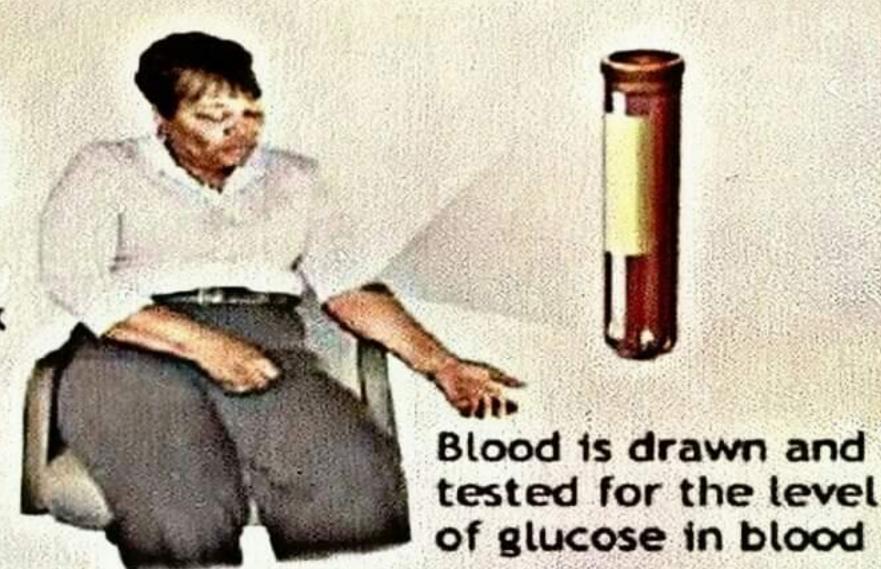


Fasting Plasma Glucose

Fasting Plasma Glucose Tolerance Test



No food or drink 8 to 12 hours prior to test



High glucose level = potential diabetes

Oral Glucose Tolerance Test PRx Tonisingh World Flooding Western & Western

Oral Glucose Tolerance Test



No food or drink 8 to 12 hours prior to test



Drink glucose



Blood is tested two hours later

High glucose level = potential diabetes