



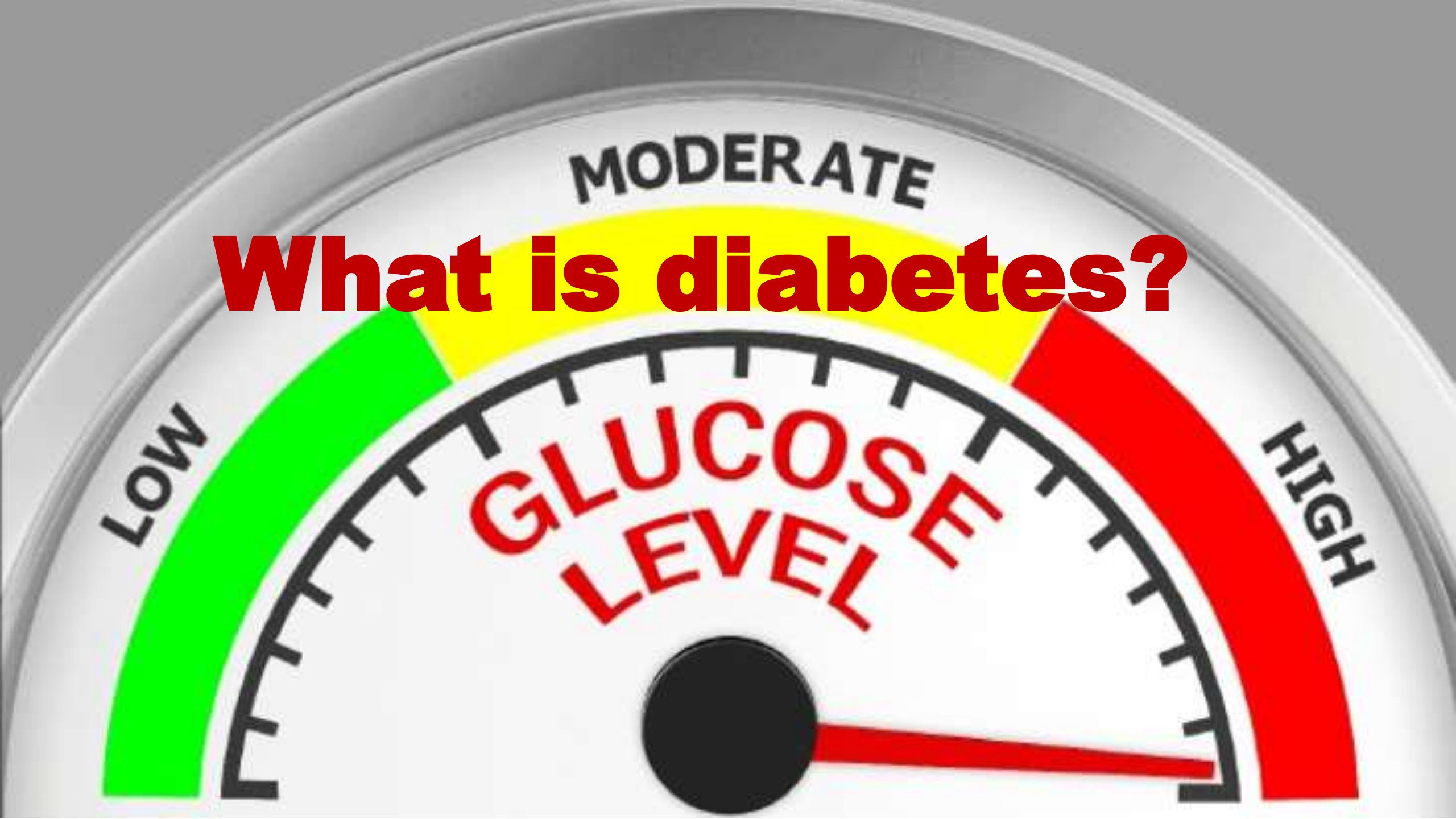
ecofynity

Training System

Diabetes

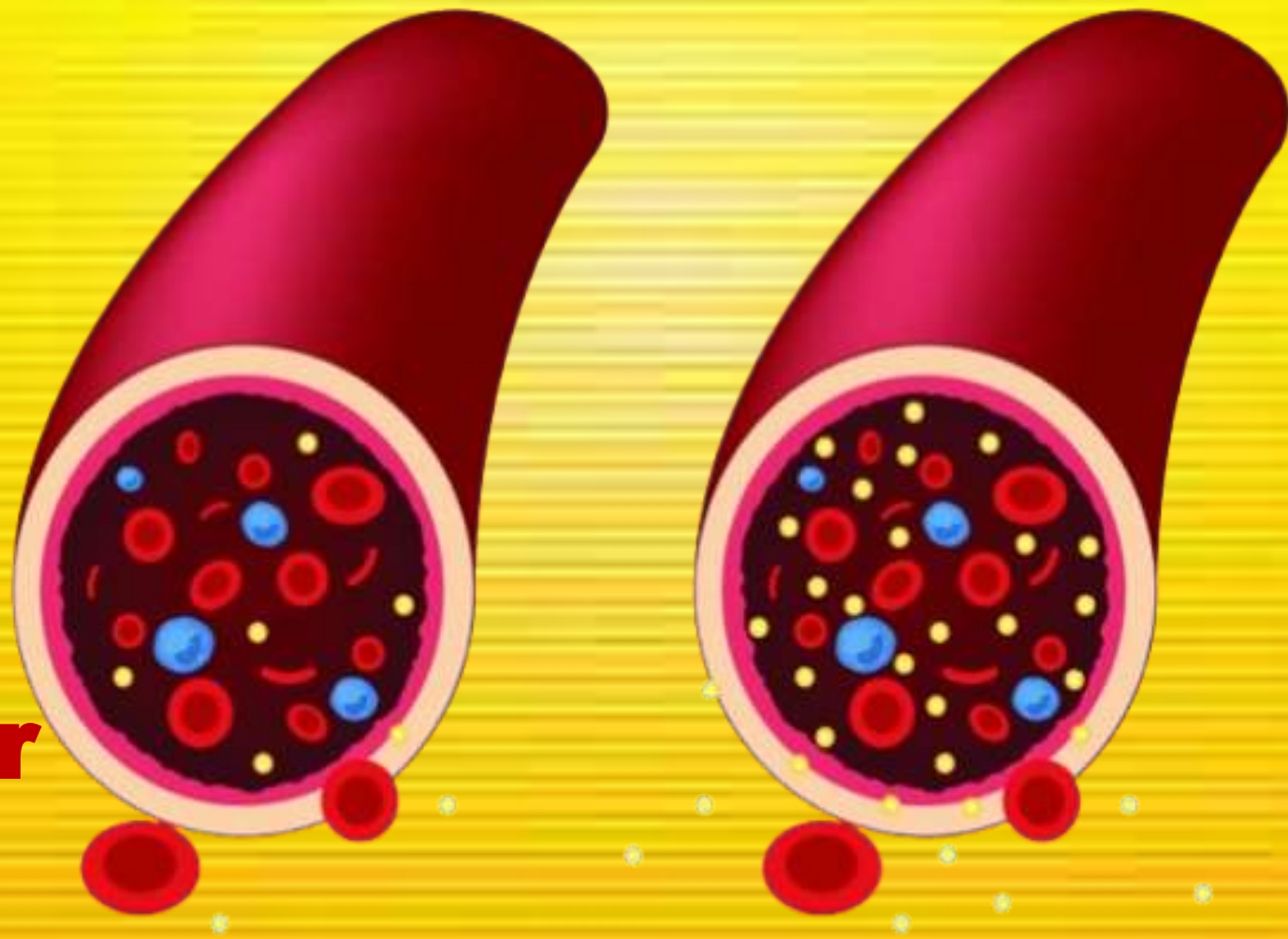


What is diabetes?



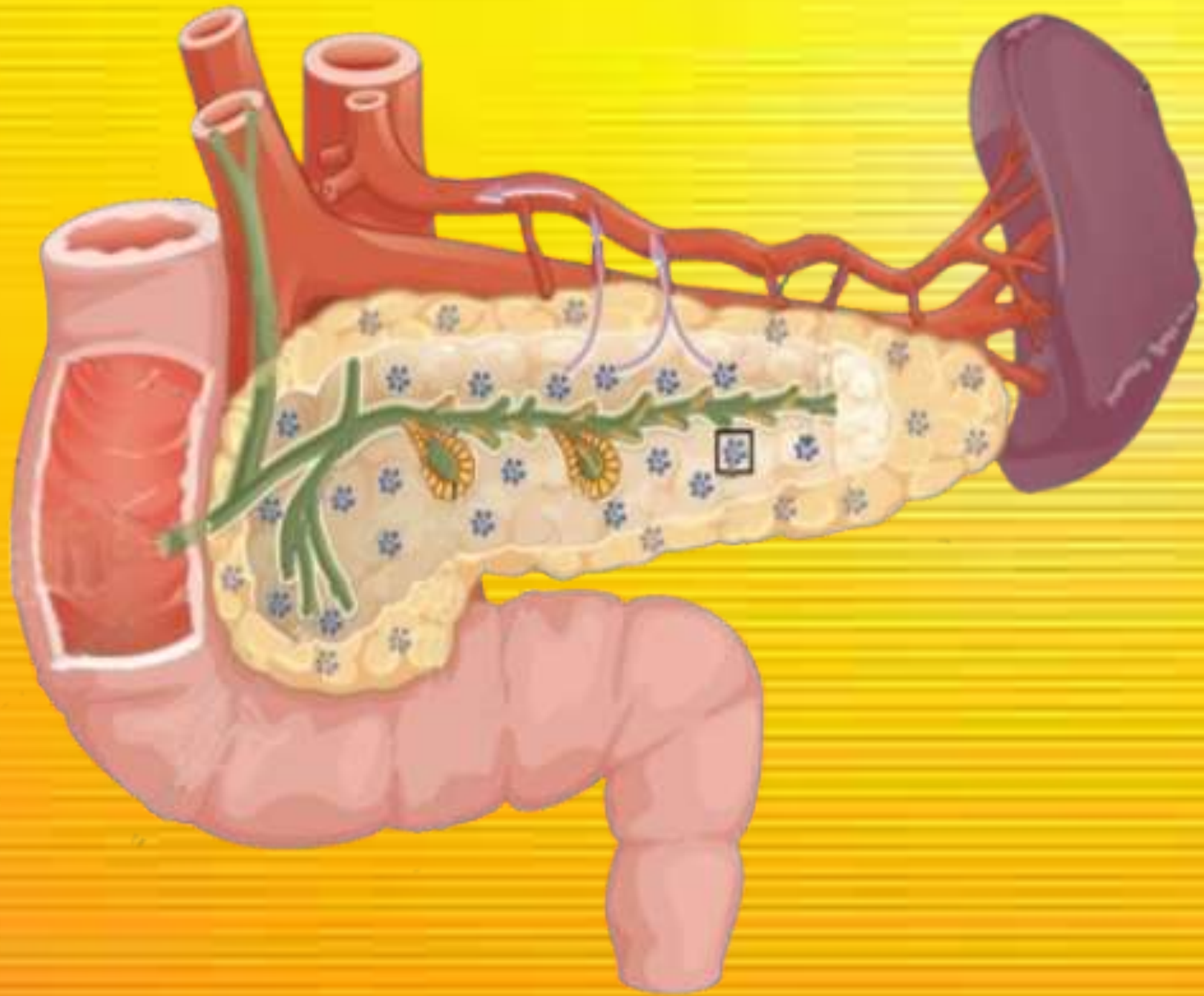
Diabetes is a metabolic condition that happens when your blood sugar is too high

Known as Hyperglycemia





Just look at our pancreas



**What are the
different types
of diabetes?**





**The most common
types of diabetes are**

A. Type I

B. Type II

C. Gestational diabetes.




Type I diabetes



Type I diabetes

If you have type I diabetes, your body does not make insulin



Type I diabetes
Immune system
attacks and
destroys the
cells in your
pancreas that
makes insulin



It is called

**Insulin dependent
diabetic mellitus
(IDDM)**



Type I diabetes is usually diagnosed in children and young adults

Although it can appear at any age

**People with type
I diabetes need
to take insulin
every day to
stay alive**





Type II diabetes

Type II diabetes

**Body is unable
to effectively
use insulin to
bring glucose
into your cells**



**Type II is the
most common
type of diabetes**




It is called

**Noninsulin
dependent diabetes
mellitus (NIDDM)**



Type II diabetes

**Type II diabetes
can develop at
any age, even
during childhood**



**However, this
type of diabetes
occurs most often
in middle-aged
and older people**



Gestational diabetes

Gestational diabetes (GDM) develops in some women when they are pregnant.



**Most of the time,
this type of
diabetes goes
away after the
baby is born**




But gestational diabetes, have a greater chance of developing type 2 diabetes later in life.



**Sometimes
diabetes diagnosed
during pregnancy
is actually type II
diabetes**



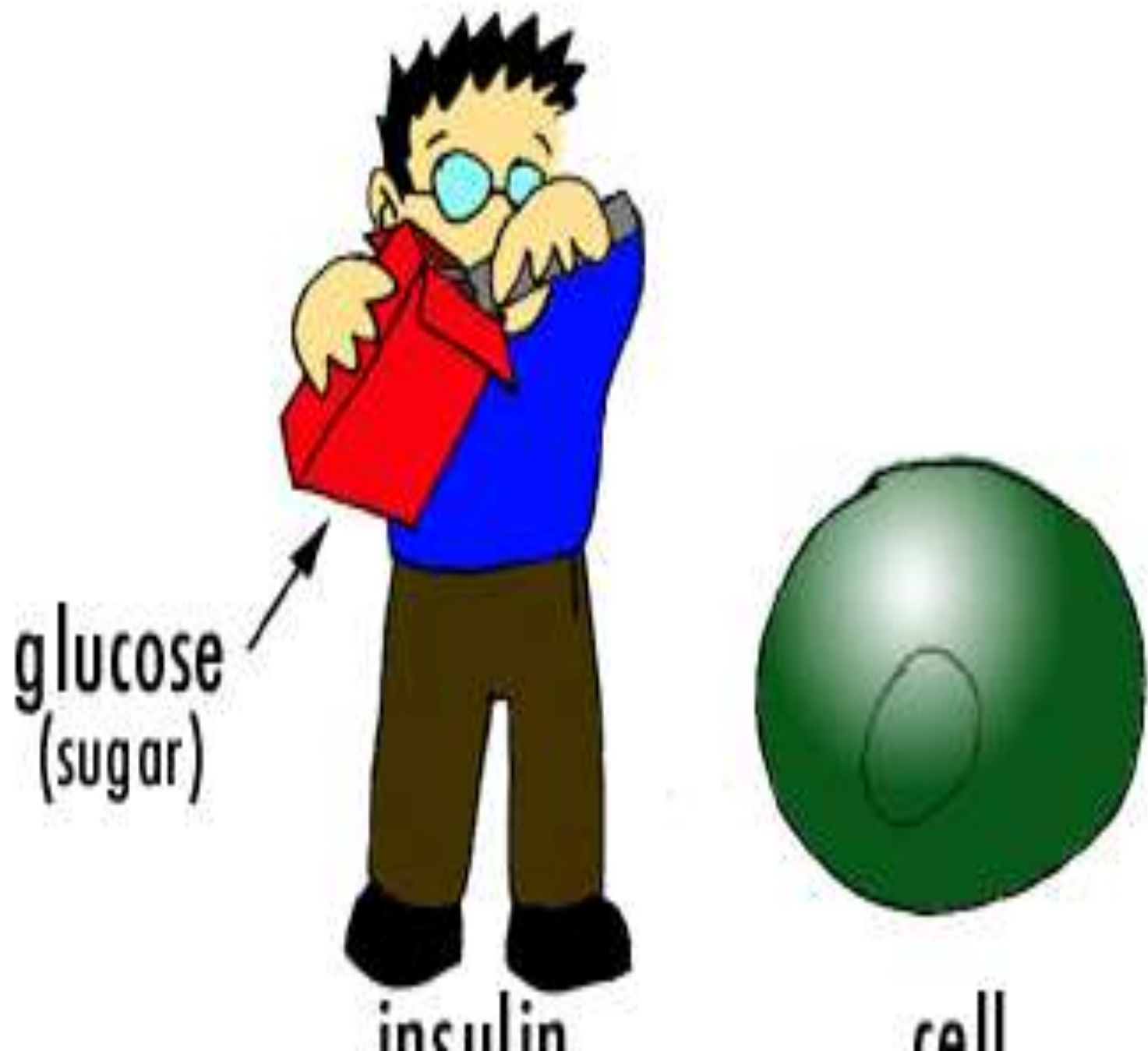


We first need to understand the role of insulin in our body



Insulin is a type of hormone

The role of insulin in the body is to allow glucose in the blood to enter cells, providing them with the energy to function



Role of insulin



Common symptoms include:

Polyuria

Polydipsia

Polyphagia

Common symptoms include:

**Polyuria
(more and
frequent
urination)**



Common symptoms include:

**Polydipsia
(Being
more
thirsty than
usual)**



Common symptoms include:

**Polyphagia
(Always feeling
hungry)**



Common symptoms include

Feeling tired and lethargic



Common symptoms include:

**Unexplained
weight loss**



Common symptoms include:

Blurred vision



**Having cuts
that heal
slowly**

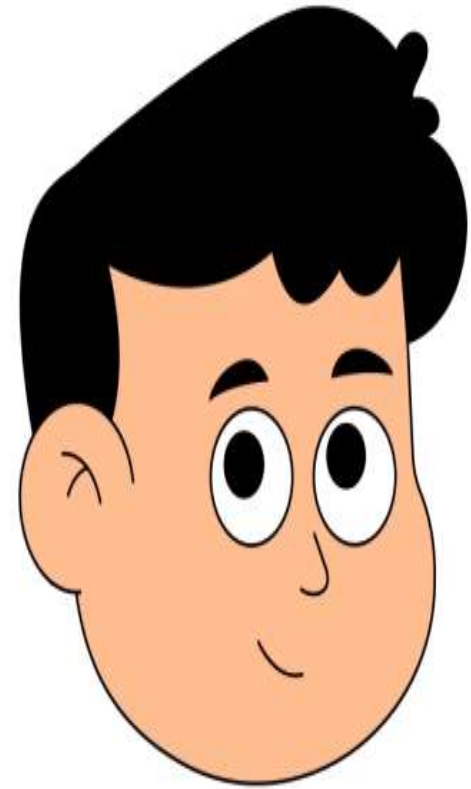


Itching, skin infections

Ri



Mood swings



Leg cramps



Feeling dizzy



Headaches





Category of a person	Fasting Value		Post- Prandial
	Minimum Value	Maximum Value	Value 2 h after consuming glucose
Normal	70	100	Less than 140
Early Diabetes	101	126	140 to 200
Established Diabetes	More than 126	-	More than 200



TREATMENT

Anti-Diabetic Range



Diabetic Care Juice



Neem



Azadirachta indica

Neem

**Nimbin (triterpene) helps
for activation of the insulin
resistance pathways**

**Nimbin (triterpene) increase in
pancreatic islet function (insulin
secretion)**

The image features a dense, repeating pattern of small, dark, oval-shaped objects, likely seeds or beans, filling the entire frame. The objects are dark in color, possibly black or dark brown, and have a slightly glossy, reflective surface. Overlaid on this background is the word "Jammun" in a large, stylized font. The letters are filled with a bright pink color and have a thick yellow outline. The text is centered horizontally and occupies a significant portion of the middle of the image.

Jammun

Syzygium cumini **Jamun**

**Helps in conversion
of carbohydrates to
energy and regulates
blood sugar levels**

A close-up photograph of a large quantity of Amla (Indian gooseberry) fruits. The fruits are round and vary in color from bright green to a pale yellowish-green, indicating different stages of ripeness. They are densely packed together, filling the entire frame. The lighting is bright, highlighting the smooth texture and slight sheen of the fruit skins.

Amla

Phyllanthus emblica
Amla

**It supports healthy digestion
and metabolism that
prevents excess sugar from
depositing**

**Amla is known for its
hypoglycaemic properties**

Phyllanthus emblica
Amla

**Amla berries have a high
soluble fibre**

**Amla helps slow down
the rate glucose
absorption**

Phyllanthus emblica
Amla

**Amla comprises
chromium, a mineral
that regulates
carbohydrate
metabolism and more
responsive to insulin**



Methi

**Trigonella Foenum Graecum
Methi**

**Several clinical trials showed
that fenugreek seeds can
improve most metabolic
symptoms associated with
both type 1 and type 2 diabetes**

**Trigonella Foenum Graecum
Methi**

**Several clinical trials
showed that fenugreek seeds
lowers blood glucose levels
and improving glucose
tolerance**

**Trigonella Foenum Graecum
Methi**

**Soluble fibres in fenugreek
including glucomannan fibre
delays intestinal absorption
of ingested sugars**

**Trigonella Foenum Graecum
Methi**

**Alkaloids such as
fenugrecin and
trigonelline have
hypoglycemic action**

**Trigonella Foenum Graecum
Methi**

**Amino acids in fenugreek, act
on pancreas to release insulin**

Trigonella Foenum Graecum Methi

**Alkaloids such as fenugrecin
and trigonelline have
hypoglycemic action**

**Amino acids in fenugreek, act
on pancreas to release insulin**



Karela

Momordica Charantia
Karela

**Bitter melon has properties
that act like insulin**

**Bitter melon which helps to
bring glucose into the cells
for energy**

Momordica Charantia
Karela

**Karela contains three active
substances with anti-diabetic
properties**

Lectin

Vicine

Charantin

Momordica Charantia
Karela

**Vicine is an insulin-like
compound known as
polypeptide-p**

Momordica Charantia
Karela

**Vicine helps to regeneration
of pancreatic β cells**

Momordica Charantia
Karela

**Vicine improves insulin
sensitivity**

Momordica Charantia Karela

Charntin in karela is a polypeptide that imitate insulin

Charntin helps to regulating the metabolism and use of sugar the body has consumed

Momordica Charantia Karela

**Charntin helps to
prevent unpredictable
spikes and
drops in insulin levels**

Momordica Charantia

Karela

**Lectins are defined as proteins,
can bind carbohydrates
reduces the rate of
carbohydrate absorption**

**Bitter gourd is a rich source
of vitamins and minerals**

Momordica Charantia
Karela

**Its high fibre content slows
down glucose absorption**

Momordica Charantia Karela

Various anti-oxidants and anti-inflammatory compounds are present in bitter gourd which It strengthens the immune system

Momordica Charantia Karela

**It contains iron,
magnesium, calcium,
potassium and vitamins like
A and C**

Bell Leaf



Aegle marmelos
Bell Leaf

The active constituent
“Feronia gum,
Polyphenols and
flavonoids present in
the Bell Leaf

Aegle marmelos
Bell Leaf

Feronia gum in Bell Leaf
regulates the production
of insulin from the cells
into the blood stream

Aegle marmelos
Bell Leaf

Enhances insulin sensitivity

**Aegle Marmelos is rich
in anti-oxidants which
helps in insulin
secretion which leads to
low blood sugar levels**

Kutki



Picrorhiza kurroa
Kutki

**The medicinal herb is
packed with
antihyperglycemic
properties, which help in
lowering blood sugar levels**

Picrorhiza kurroa
Kutki

Helps in Detoxification of blood

Maintains blood sugar level

Picrorhiza kurroa
Kutki

Kutki contains active compounds like **Picrorhizin and **Kutkin**, which help in reducing and controlling blood glucose levels**

Picrorhiza kurroa
Kutki

**It helps to improve
digestion, metabolism of
carbohydrates**

Picrorhiza kurroa
Kutki

Picrorhizin and Kutkin
these compounds stimulate
the beta cells of the
pancreas

**Picrorhiza Kurroa
Kutki**

Picrorhizin and Kutkin
increasing insulin production

Diabetic Control



COMPOSITION

Neem

Curcuma Amada

Methi

Kerela

Jamun

Billav Patra

Gurmar

Amlaki

Bivalai

Jamun Beej

Mameejawa

Gudhuchi

Gudhuchi

A close-up photograph of the Gudhuchi plant (Tinospora cordifolia). The image shows several large, heart-shaped, bright green leaves with prominent veins. Interspersed among the leaves are clusters of small, round, red berries. The background is a dense thicket of similar foliage.

Tinospora cordifolia
Guduchi

**Tinospora Cordifolia was
evaluated for hypoglycemic
and anti-hyperglycemic activity
Guduchi supplementation can
relieve diabetic neuropathy**

Tinospora cordifolia
Guduchi

Extracts from the herb have been found to have a high density of phytosterols, alkaloids, and glycosides, among other organic compounds

Tinospora cordifolia
Guduchi

Guduchi can also promote improvements in glucose metabolism and increase glucose tolerance

Tinospora cordifolia
Guduchi

One of the alkaloid compounds
in giloy is **berberine**

Tinospora cordifolia
Guduchi

Studies have shown that
Berberine works in a similar
way to the diabetes medication
metformin

Tinospora cordifolia

**Giloy helps to boost our
immune system**

Reducing insulin resistance

Tinospora cordifolia
Guduchi

**Giloy, the Ayurvedic herb,
can help the body to
naturally create insulin,
which can be beneficial in
managing diabetes**

A photograph of ginger (Curcuma Amada) featuring a whole piece of ginger root with several thin, yellow slices stacked on the left. Two vibrant green leaves are attached to the right side of the root. The background is a plain, light color.

Curcuma

Amada

Curcuma amada
Mango ginger

β -cells population

**Treatment with Curcuma
amada dramatically reduced
HbA1C levels and restored
normal insulin levels**

Curcuma amada
Mango ginger

**It is rich in antioxidant
properties and certain
mineral compounds**

Gurmar



Gymnema sylvestre
Gurmar

Stops the pancreatic cell damage

Increase insulin secretion

Gymnema sylvestre

Gurmar

Gymnema sylvestre can also block receptors in your intestines and thus sugar absorption, lowering your post-meal blood sugar levels

Vijayasara

Vijayasara

Pterocarpus marsupium
Vijayasara

support healthy blood sugar levels

Pterocarpus marsupium
Vijayasara

The active phytoconstituent phenolic C-glycosides present in Pterocarpus marsupium are responsible for the antihyperglycemic activity

Pterocarpus marsupium
Vijayasara

**helps to improve the
function of normal cells,
membrane permeability, and
metabolic stability**

Stevia



Neem



thanks!