

This is an Education Platform

We provide Free PDF Notes and Videos Classes for Pharmacy Students

Web Site http://www.fdspharmacy.in/

You tube https://www.youtube.com/channel/UC77iEsiuZolU4pB8WAJIR5Q

What app https://chat.whatsapp.com/IzSgXtFEvhS4LN5xhUgq5z

Telegram https://t.me/+cvxmi7xSloA4MjVl

Face book <u>https://www.facebook.com/Fdspharmacy-105764311994440/</u>

E-mail fdspharmacyinfo@gmail.com



Diploma in Pharmacy 2 nd Year Pharmacotherapeutics Important Questions Chapter 2 (c) : Endocrine System Disorders	
Questions	Page No
Q1. Define Diabetes ? Write etiopathogenesis, clinical manifestations, pharmacological management, and non-pharmacological management.	3
Q2. What is Hypothyroidism ? Give etiopathogenesis, clinical manifestations, pharmacological management, and non- pharmacological management.	5
Q3. What is Hyperthyroidism ? Give etiopathogenesis, clinical manifestations, pharmacological management, and non- pharmacological management.	6
EUDELICIT	LY



Chapter 2 (c) Endocrine System Disorders IMPORTANT Questions

Q1. Define Diabetes ? Write etiopathogenesis, clinical manifestations, pharmacological management, and non-pharmacological management. Ans.

Diabetes

- → Diabetes Mellitus is a inherited or acquired disease occurs due to defect in insulin secretion or insulin action or both , in which blood sugar level is high for long time.
- → It is also called Hyperglycemia.
- → Diabetes means pass through , and mellitus means sweet,

→ So we can say abnormal passing of sugar through blood or urine is called Diabetes mellitus. Normal range of blood sugar level

	normal people	diabetes patients target
Before meals	72-99 mg/dl	80-130mg /dl
2 hours after meals	less than 140/ mg/dl	less than 180mg/dl

Types of Diabetes

- Type 1 Diabetes : This type of diabetes occurs due to severe reduction in production of Insulin because of autoimmune destruction of beta cells of Pancreas . This occurs in younger age usually . (before 35-40 years)
- Type 2 diabetes : This type of diabetes occurs due to the resistances to the action of Insulin . Or cells do not respond to insulin . This occurs in older age usually .
- Gestational Diabetes : During pregnancy , placenta generate hormones that alter the function of insulin.

Etiology

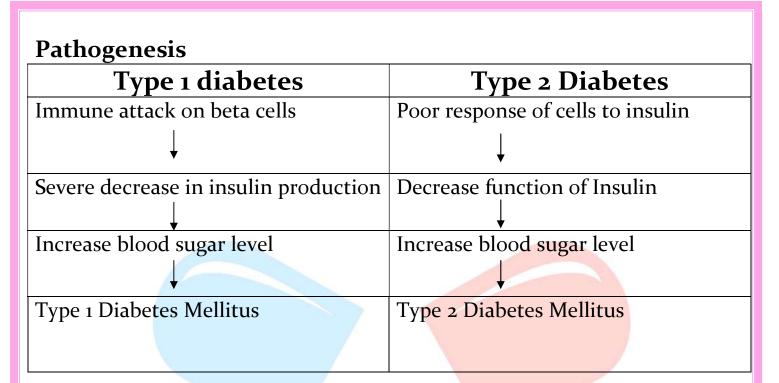
1) Type 1 Diabetes :

- Autoimmune destruction of beta cells of pancreas.
- Any disease in pancreas
- Age
- Genetic factors
- Beta blockers and Thiazide drugs if used for long term

2) Type 2 Diabetes

- Insulin does not function properly.
- Resistances to insulin function
- Obesity.
- lack of physical activity
- Genetic factors





Clinical Manifestations

- Presence of sugar in urine
- Increase thirst
- Increase frequency of urination
- ✤ Extreme hunger
- Fatigue
- **H** Blurred vision
- Headache
- **4** Frequent infection
- Delay in healing of cuts and wounds
- Itchy skins

Non Pharmacological managements

- Physical Activity
- Diet (should avoid carbohydrates , salt in excess amount)
- Should avoid Sweats

Pharmacological managements

- **Type 1 diabetes :** It is insulin dependent , insulin is administered to treat this type of diabetes .
- ♦ Type 2 diabetes

> Hypoglycemic agents

- Sulfonylurea : they stimulate the release of insulin from pancreas , : Tolbutamide , chlorpropamide , glibenclamide
- Biguanides : prevent liver from production of glucose , : metformin , phenformin
- α Glucosidaese Inhibitors : it prevent the absorption of carbohydrates form intestine : Acarbos , miglitol



Q2. What is Hypothyroidism ? Give etiopathogenesis, clinical manifestations, pharmacological management, and non-pharmacological management.

Ans.

Hypothyroidism

→ Lake of Thyroid Hormones (TH) in blood circulation about 20% to 40 % which slow down the metabolism is called Hypothyroidism.

Etiology :

There are two types of etiology of Hypothyroidism , primary (Problem in thyroid gland) , secondary (problem in Pituitary gland)

Primary:

- Autoimmune disorder
- Dietary iodide deficiency.
- Anti-thyroid drugs
- Lithium therapy
- Radioactive iodine (RAI) uses.

Secondary :

- low secretion of TSH.
- Damage of pituitary gland.

Pathogenesis of Hypothyroidism

Primary or secondary causes	
Autoimmune disorder	
decreased production of TH	
lake of TH in blood	
Hypothyroidism	

Clinical manifestation

- 4 Constipation
- Depression, Feeling tiredness
- ✤ high blood cholesterol level, Dry skin
- Excessive forgetfulness, Heavy and frequent menstrual cycle
- 4 Tingling in hands, Loss of sexual desire, Gaining weight

Non Pharmacological Management

- Exercise
- Stress management
- Diet (Increase intake of foods, fruits, vegetables are rich in iodine, zinc, iron copper selenium, Vitamin A, D.

Pharmacological Management

- ♦ Levothyroxine (T₄)
- ♦ Liothyronine (T₃)
- Combination Of T₄ and T₃



Q3. What is Hyperthyroidism ? Give etiopathogenesis, clinical manifestations, pharmacological management, and non-pharmacological management.

Ans.

Hyperthyroidism

→ A condition in which thyroid gland produces more Thyroid Hormones (TH) than requirement of the body is called Hyperthyroidism.

Etiology

- Graves 's Disease : It is an immune system disorder in which thyroid produce excess amount of Thyroid hormones.
- Infection of Thyroid gland.
- Excess consumption of Iodine
- Pituitary gland disorder

Pathogenesis of Hyperthyroidism

Increases production of TH	Thyroid gland disorder	
	Increases production of TH	
High level of TH in Blood	High level of TH in Blood	•
Hyperthyroidism	Hyperthyroidism	

Clinical Manifestation

- Weight Loss
- Increased appetite
- 4 Changes in menstrual
- Restless
- Diarrhoea
- Excess sweating
- Sleep problems
- **4** Swollen in thyroid gland etc.

Non Pharmacological Management

- Exercise
- Stress management
- Diet (decrease intake of foods , fruits , vegetables are rich in iodine , zinc , iron copper selenium , Vitamin A , D.

Pharmacological Management

- Hormone Inhibitors : Methimazole , Propylthiouracil .
- Beta Blockers : Propranolol (these drugs provide relief from hyperthyroid symptoms till the anti-thyroid drugs become effective .
- Glucocorticoids : They inhibit the conversion of T4 to T3 (T3 is more power full Hormone)
- Radioactive Iodine : These drugs destroy thyroid cells and control thyroid hormones . the dosage of RAI should be given carefully , otherwise cause hypothyroid .



Hello

Friends

If you Get Any Help From This Notes / Videos

Next You Turn To Help Us

Please Contribute Some Amount

To Our

- **FDSPharmacy Team**
- Phone pe 6398439940
- Paytm 6398439940
- **Google Pay 6398439940**



Amir Khan



