

PHARMACEUTICAL CHEMISTRY

2026-27

DRUGS ACTING ON CNS

PART-
3

D.PHARM 1ST YEAR

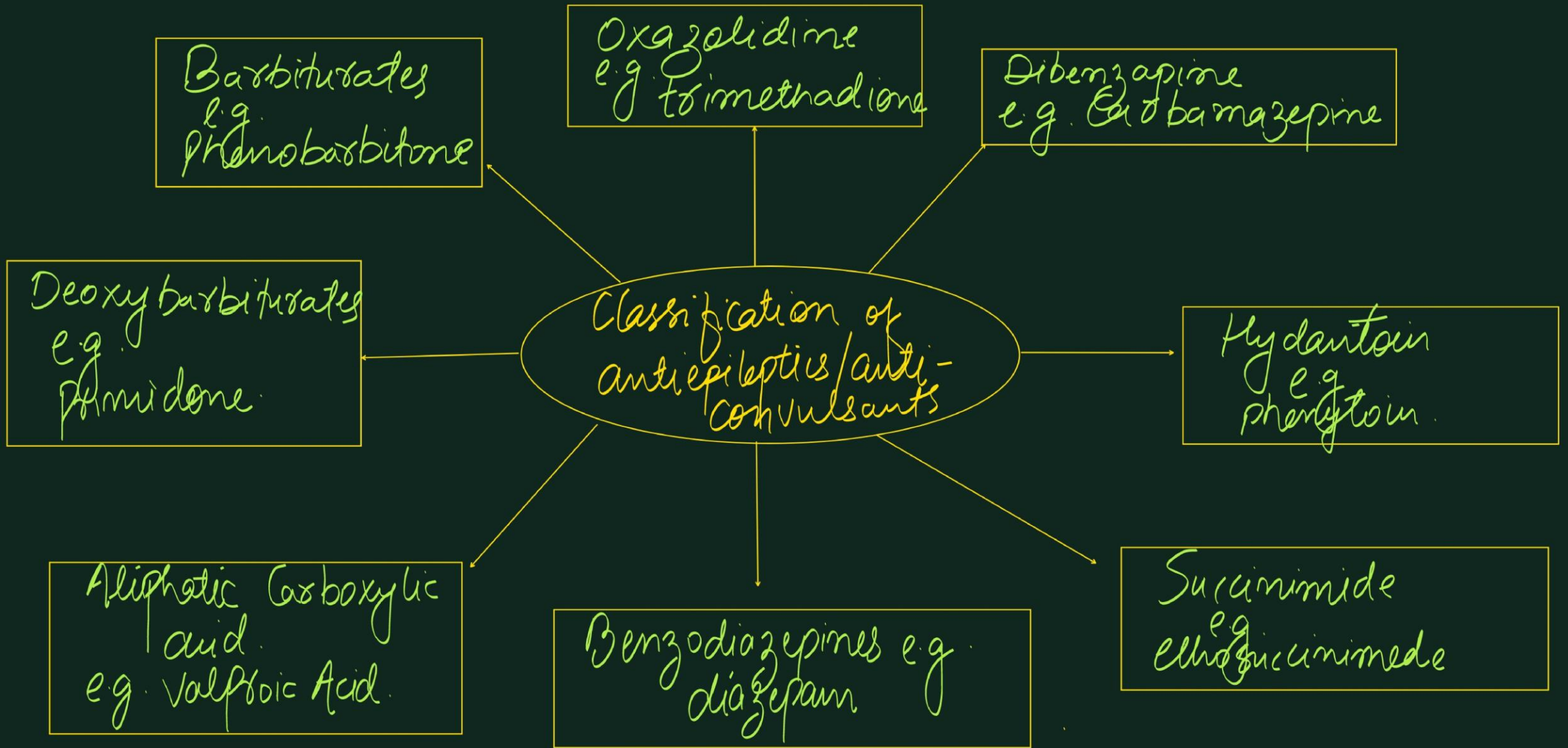


Chapter - 5 (Part - 4)

Drugs Acting on CNS

Anticonvulsants

- They are also known as antiepileptic agents.
- Anticonvulsants or antiepileptic drugs are used to prevent or treat or control epilepsy.
- Epilepsy is a chronic condition arising due to CNS disorders. It is characterised by the recurrence of seizures with partial or complete loss of consciousness.



* Phenytoin :-

Properties :-

- white hygroscopic powder.
- soluble in water & alcohol.
- insoluble in organic solvents
- it is odourless and tasteless.

Storage :- it must be stored in air-tight containers.

Uses: —

→ it is used in the treatment of epilepsy.

Formulations: —

Tablets | capsules | suspensions | injections.

Brand Names: —

Eptoin, Dilantin, Atoin etc.

Carbamazepine :-

Properties

- white color crystalline powder.
- Insoluble in water.
- Soluble in chloroform & ether.
- Bitter in taste.

Storage :- it must be stored in air-tight containers

Uses : —

it is used in the treatment of epilepsy.

Formulations : — tablets / syrup.

Brand Names : — Zepтол, Mazetol, Tegretol.

Clonazepam

Properties:

- Light yellow crystalline powder.
- Faint odour.
- Insoluble in water.

Storage: — it must be stored in airtight containers.

Uses :-

- used in the treatment of seizures.
- it can be also used in treating panic disorders.

Formulations :- Tablets.

Brand Names :- Klonopin, Aliona, Alpa3 etc.

Valproic Acid

Properties :-

- white crystalline powder.
- Freely soluble in water and alcohol.

Storage :- it must be stored in air-tight containers.

Uses : —

- used to treat symptoms of seizures.
- used to treat epilepsy.

Formulations : —

tablets / syrups

Brand Names : —

Epilex, Depakene etc.

Gabapentin :-

Properties :-

- white to off-white crystalline powder.
- Freely soluble in water.
- Insoluble in toluene.

Storage :- it should be stored in air-tight containers.

Uses :- used in the treatment of epilepsy.

Formulations :- Tablets / Capsules.

Brand names :- Neurontin, Gabarone etc.

Topiramate :-

Properties :-

- white to off white powder.
- Bitter in taste
- Soluble in alkaline solution.

Storage :- it must be stored in air tight containers.

Uses :- It is used to treat epilepsy.

Formulations :- Tablets / Capsules

Brand Names :- Topamax, Neuramate, Topamed etc.

Vigabatrin

Properties:—

- white to off-white powder.
- freely soluble in water.

Storage:— it must be stored in air-tight containers.

Uses:— it is used to treat seizures.

Formulations:— Tablets

Brand Names:— Sabril etc.

Lamotrigine : —

Properties : —

- white to pale cream color powder.
- slightly soluble in water.

Storage : — it must be stored in air-tight containers.

Uses — used to control seizures.

Formulations — Tablets

Brand Names — lamictal, lamictal etc.

Anti-depressants :-

- anti-depressant are the drugs used in the treatment of mental depression. They are also known as antimanic drugs or mood stabilizers.
- Mental depression is characterized by marked sadness, loss of concentration, a low self-esteem, worry etc.
- Depression is a mood disorder arises due to disturbances in the brain.

Classification of Anti-depressants:-

- 1) Monoamine oxidase inhibitors:- Imipramine, Desipramine
Nortryptiline
Amitryptiline
Doxepine
- 2) Tricyclic Anti-depressants:- Tramylupramine
Phenelzine
Isocarboxazid.

Amityptylene Hydrochloride :-

Properties :-

- white crystalline powder.
- Bitter in taste
- Soluble in water & alcohol.
- Insoluble in chloroform.

Storage :- it must be stored in air-tight containers.

Uses :- It is used in the treatment of mental depression

Formulations :- Tablets

Brand Names :- Triptizol, Prpytanol etc.

Imipramine Hydrochloride: —

Properties: —

- white or slightly yellow color crystalline powder.
- odourless & tasteless.
- soluble in water & alcohol.
- Insoluble in ether.

Storage: — it must be stored in air-tight containers.

Uses:—

- used in the treatment of mental depression.
- Nocturnal enuresis in children.

Formulations:— Tablets / injections

Brand Names:— Dyna-Zina, Depsimal etc.

Fluoxetine

Properties:—

- white to off-white color crystalline powder.
- soluble in water and methanol.

Storage:— it must be stored in air-tight containers.

Uses:— it is used to treat depression & obsessive compulsive disorder.

Formulations:— Tablets / capsules.

Brand Names:— Brintex, Floatin etc.

Venlafaxin :-

Properties -

- white to off-white crystalline powder.
- soluble in water.

Storage :- it must be stored in air-tight containers.

Uses - it is used in the treatment of depression.

Formulations :- tablets / capsules.

Brand Names :- Envelaf, Dalium etc.

THANK

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