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Pharmacology
Chapter 3 : Drugs Acting on Eye

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Chapter 3

Drugs Acting on Eye

→ These are the drugs which used to treat eye problems , like inflammation , Infection and reduction of intraocular pressure.

Miotics

➢ The drugs are used to produce miosis / constriction of pupils are called Miotics.

Classification

1. Muscarinic Agents : Pilocarpine , carbachol and other cholinergic drugs .
2. α adrenergic blockers(relaxation of dilator muscle) : Tolazoline and other alpha blocker . pupil get constricted when iris dilated .

Indications

❖ These drugs are used to treat glaucoma .
❖ To control mydratic effect.
❖ To prevent or break adhesion (attachment) between iris and lens.

Contraindications

◈ These are contraindicated during pregnancy.
◈ These are contraindicated during lactation.
◈ These are contraindicated during in children because its safety is not clear.
◈ These are contraindicated in patients are above 65 years.
◈ These are contraindicated in patients are suffering from cataract.

Dose

- Pilocarpine : 1-4% pilocarpine nitrate in eye drops.
- Tolazoline ; 1-2mg/kg intravenously over 10 minutes.

Mydriatics

- The drug are used to dilate the pupil to perform easier and detailed examination.

Classification

1. Adrenergic agonist : Adrinaline , Phenylephrine.
2. Cholinergic Antagonist : Tropicamide , Atropine , cyclopentolet.

Indications

- These are used to dilate the pupil.
- These are used for examination of retina and optic nerves.
- These are used for diagnosis of iris problems.
- These are used to determine refractive error (it is a disease in which eye can not focus the image clearly and result in blurred vision.

Contraindications

- It is contraindicated in hypertension.
- In Glaucoma.
- In intraocular pressure.

Doses

- Tropicamide : 0.5% solution dilate for 30 minutes nearly.
- Atropine : 1% solution 7-12 days
- Cyclopentolate : 1-2 % 24 hours

Glaucoma

- → Glaucoma is a ocular (eye) Disease in which intraocular pressure is increased and damage the optic nerves which causes visual loss.
- → When drainage canal of aqueous humorous get blocked , the intraocular pressure increases.

There are two types of glaucoma :

- Open Angle Glaucoma
- Narrow / Closed Angle Glaucoma

Classification

1. Osmotic Agent : Mannitol, Glycerol
2. β- Adrenergic blockers : Timolol, Betaxolol, Brimonidine
3. Miotics : Pilocarpine,

Indication

- For the treatment of glaucoma
- Reduce Intraocular Pressure
- Eye pain etc

Dose

- Timolol 0.23 – 0.5 % one drop B.D
- Brimonidine 0.2% B.D

Contraindication

- Peptic Ulcer
- Hyyotension
- Epilepsy etc