

Pharmacology

Drugs Used to Treat Disorders of
Eyes & Ears

Topics

- Glaucoma
- Mydriasis Induction
- Ophthalmic anesthetics

Glaucoma

- Degenerative disease of optic nerve
- Frequently associated with $\uparrow\uparrow$ intraocular pressure (IOP)
- Therapy aimed at $\downarrow\downarrow$ IOP

Beta Blockers

timolol (Timoptic®),
betaxolol (Betoptic®)

Cholinergic

pilocarpine (Isopto
Carpine®)

Causes miosis

Diagnostic Mydriasis & Cycloplegia

- Anticholinergics

- Atropine solutions
 - Atropisol[®]
- Scopolamine solutions
 - Isopto Hyoscine[®]

- Adrenergic Agonists

- Phenylephrine (AK-Dilate[®])

- Local anesthetic

- Tetracaine (Pontocaine[®])
- Ester, not amide
 - ∴ chemically unrelated to lidocaine

Drugs Affecting The Ear

- Antibiotics

- chloramphenicol
 - Chloromycetin Otic®
- gentamicin sulfate otic
 - Garamycin®

- Ear wax break up

- carbamide peroxide
 - Auro Ear Drops®
- glycerin
 - Ear Wax Removal®

- Swimmer's Ear

- isopropyl alcohol
 - AuroDri® Ear Drops
- boric acid/isopropyl
 - Aurocaine 2®

- Ototoxic side effects

- aspirin
- NSAIDS
- erythromycin
- vancomycin
- vurosemide (Lasix®)

Thank You!

- To Temple College EMS Professions for permission to use their materials

