

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

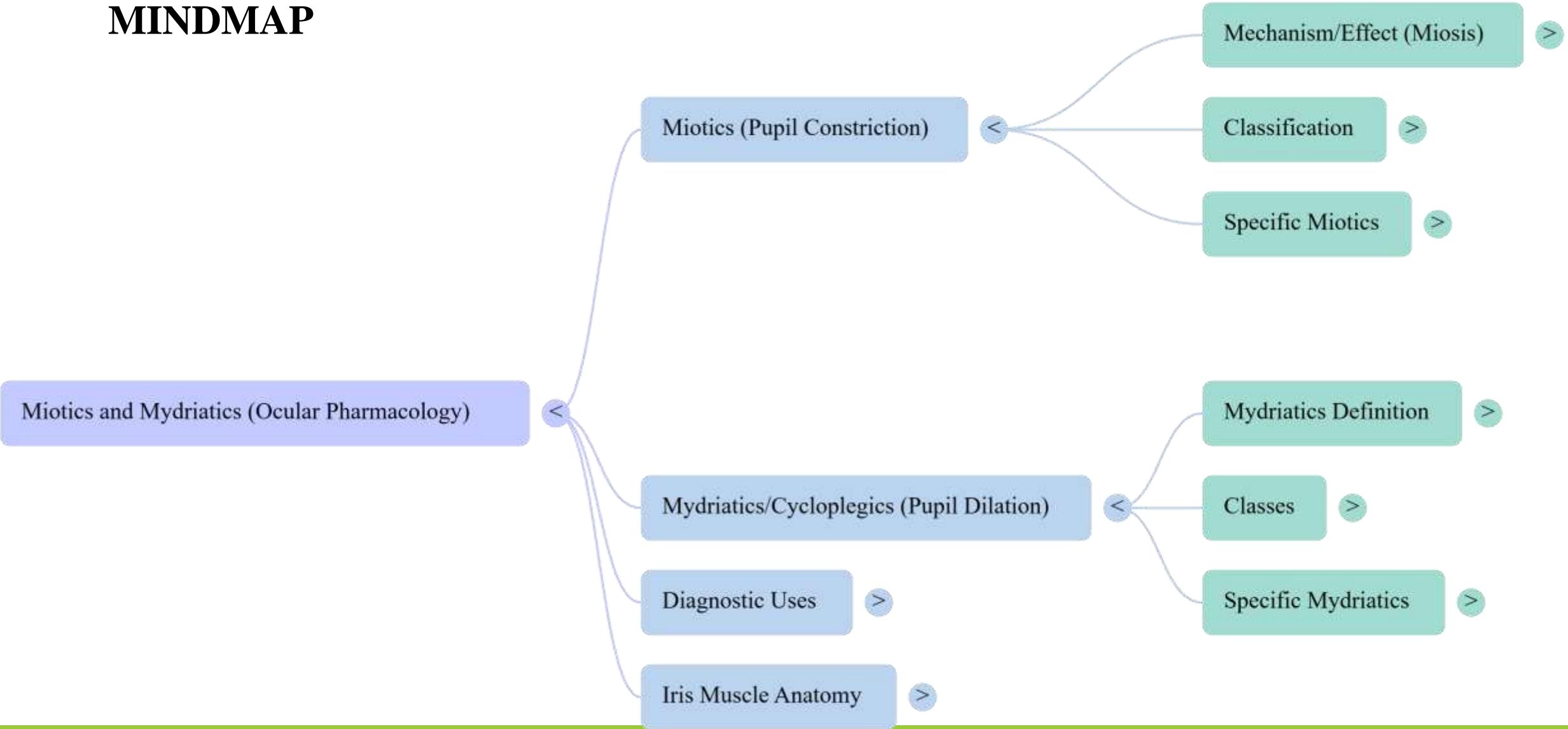
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi. Coimbatore -641035

COURSE NAME : PHARMACOLOGY(ER20-21 T)

YEAR : DPHARM-II YEAR

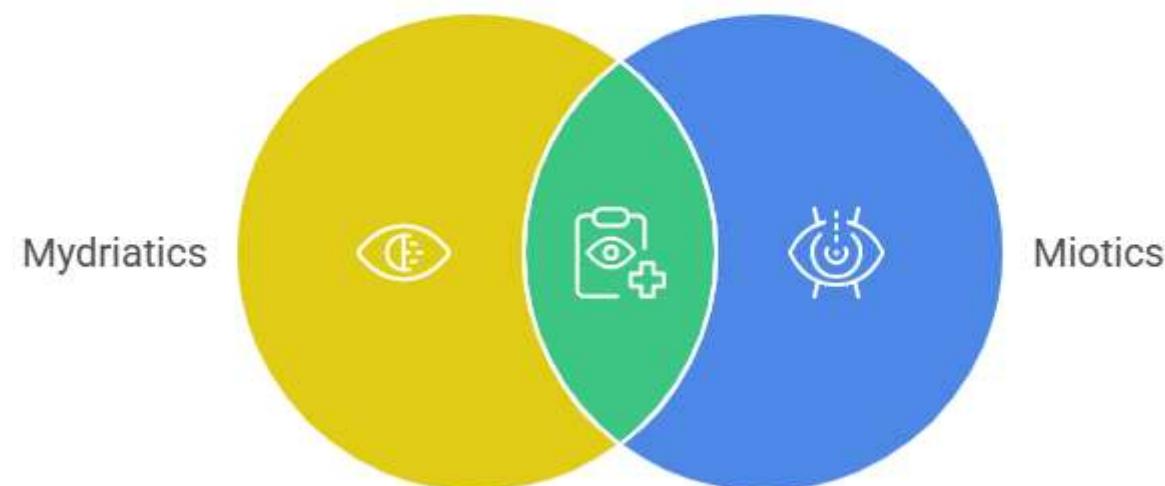
TOPIC : NEUROMUSCULAR BLOCKING AGENTS

MINDMAP



Navigating Pupil-Modifying Drugs in Glaucoma

Glaucoma Management
Considerations



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Mydriatic Mechanisms

Anticholinergics

Block acetylcholine, relaxing iris and ciliary muscles

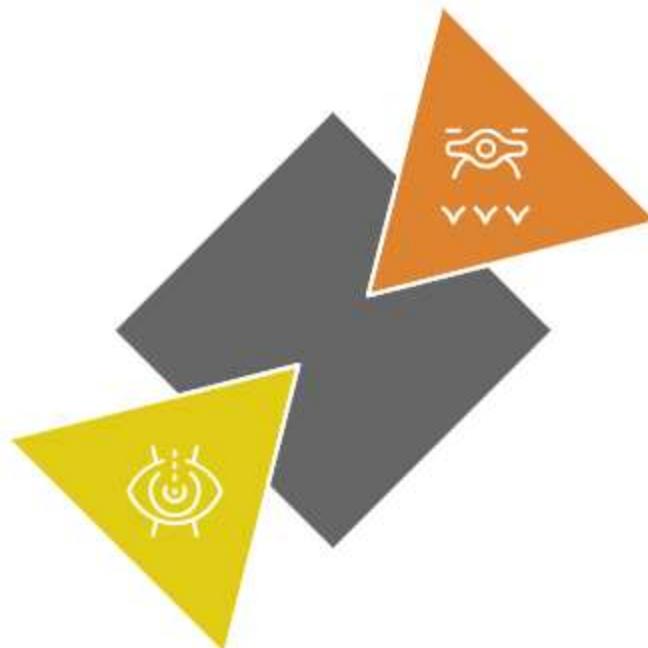


Adrenergic Agonists

Stimulate alpha-adrenergic receptors, contracting iris dilator

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Factors Exacerbating Angle-Closure Glaucoma



► Pupillary Block

Dilation of the pupil causing iris bunching and meshwork obstruction

► Shallow Anterior Chamber

Cycloplegia leading to lens displacement and angle narrowing

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Managing Mydriatics in Angle-Closure Glaucoma



Avoid Mydriatics

Generally avoid unless necessary

Gonioscopy

Examine angle width before use

Prophylactic Treatment

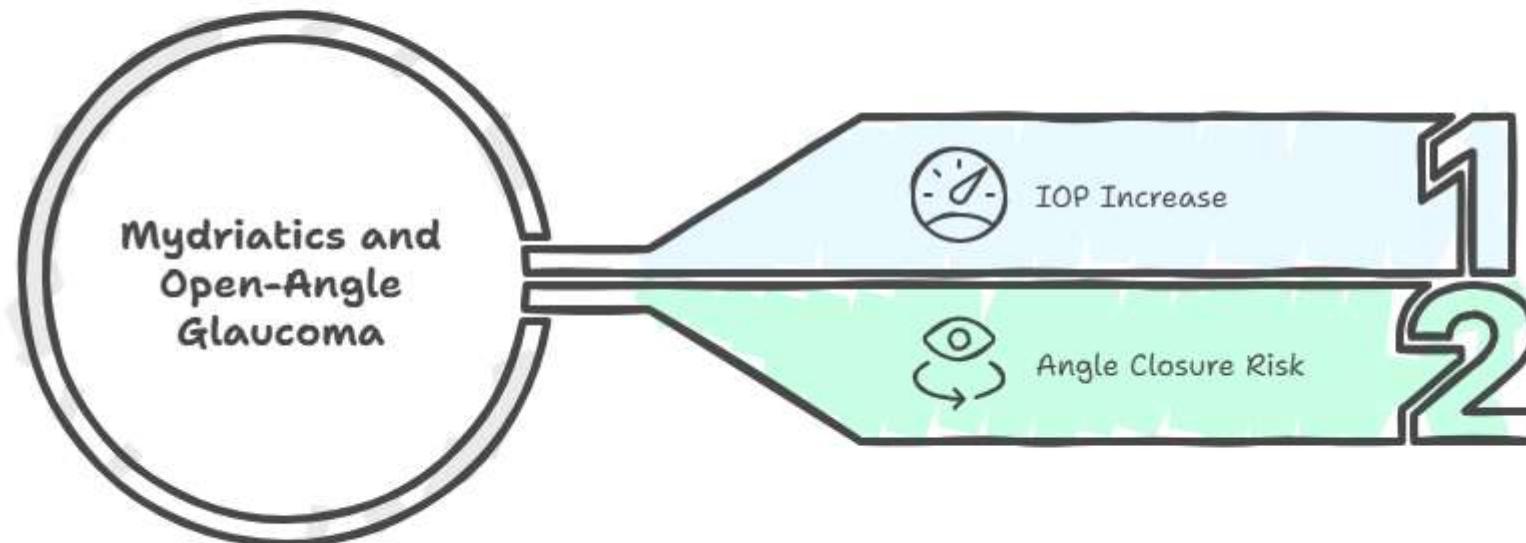
Use pilocarpine to constrict pupil

Close Monitoring

Monitor IOP after administration

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Exploring Mydriatic Effects on Open-Angle Glaucoma



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Should IOP be monitored after mydriatic use in open-angle glaucoma patients?

Monitor IOP

Prudent to monitor IOP, especially in patients with poorly controlled glaucoma, to ensure no significant increase.

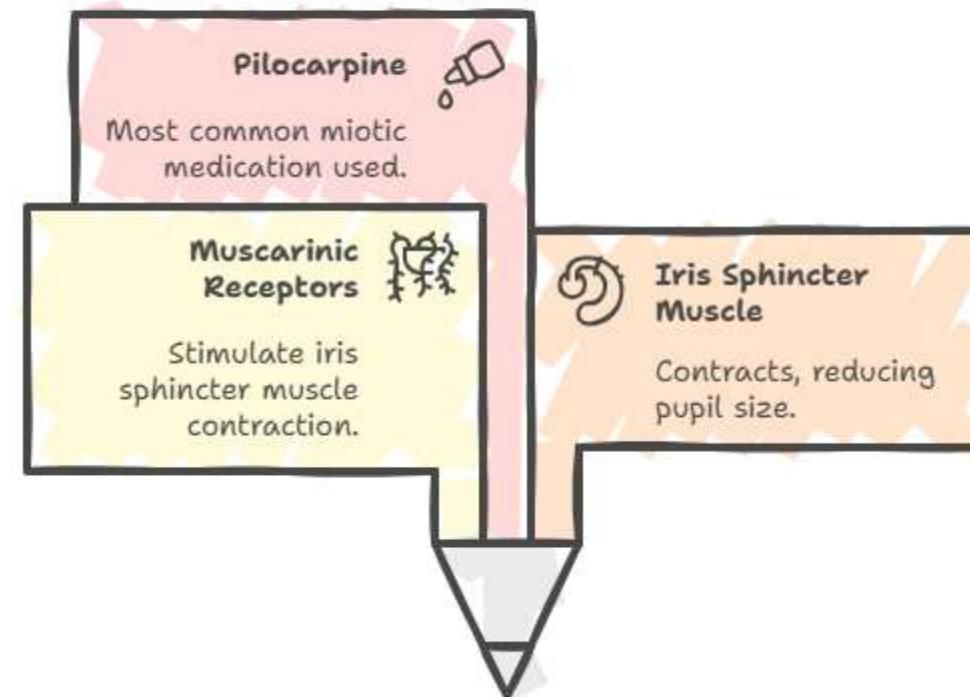
No Monitoring

Generally safe, but monitoring may be unnecessary for well-controlled glaucoma.



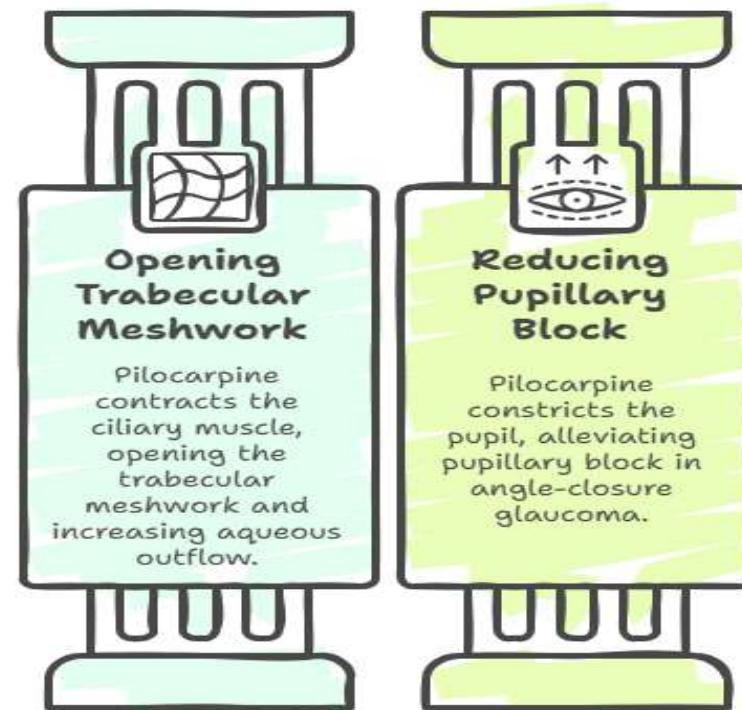
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Miotics and Pupil Control



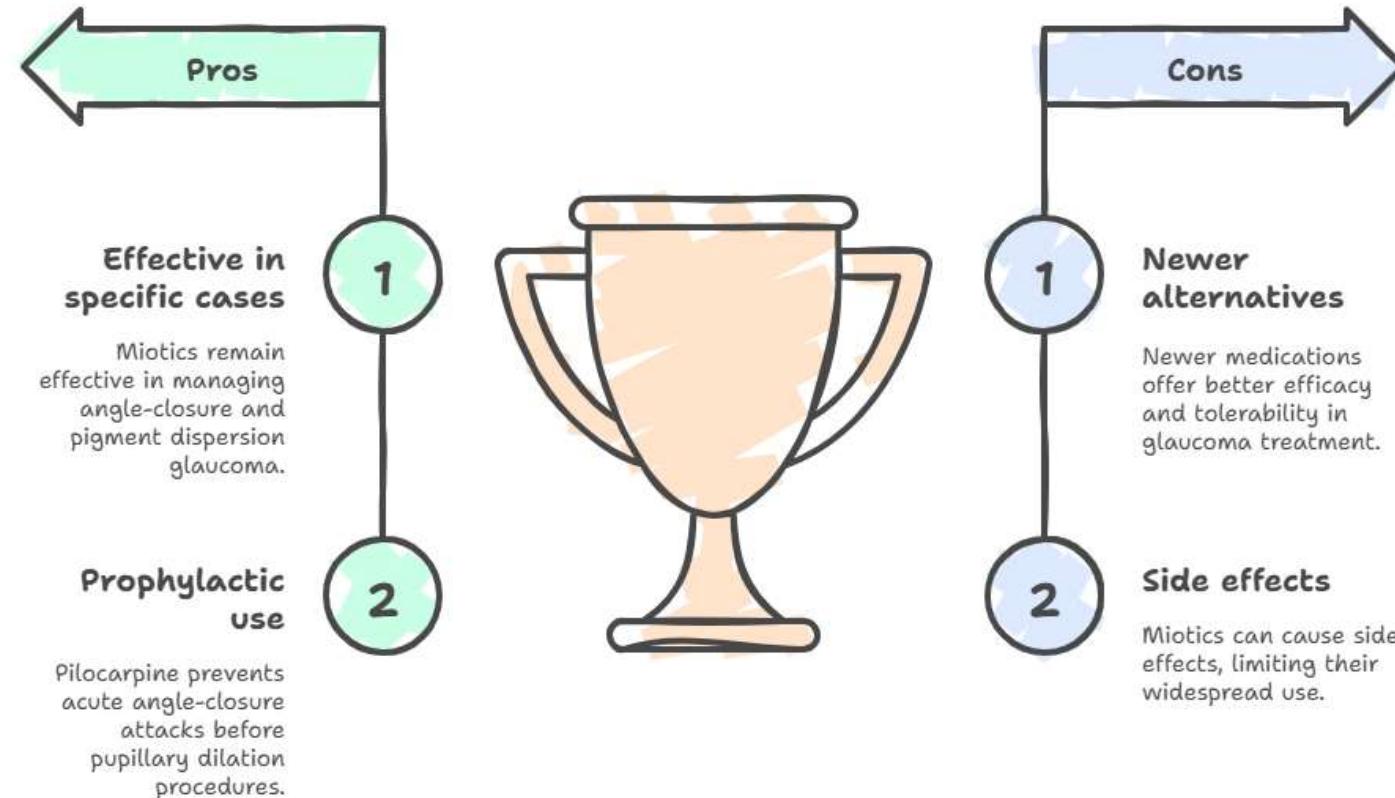
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Pilocarpine's Glaucoma Management



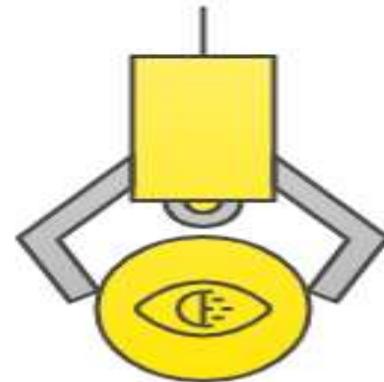
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Miotics in glaucoma treatment



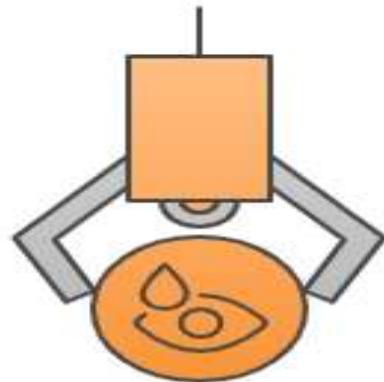
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Pilocarpine uses



Angle-Closure Glaucoma

Pilocarpine breaks acute attacks by constricting the pupil. It also prevents attacks in narrow angles.



Pigment Dispersion Glaucoma

Pilocarpine reduces pigment dispersion by constricting the pupil. This reduces iris chafing against the lens.

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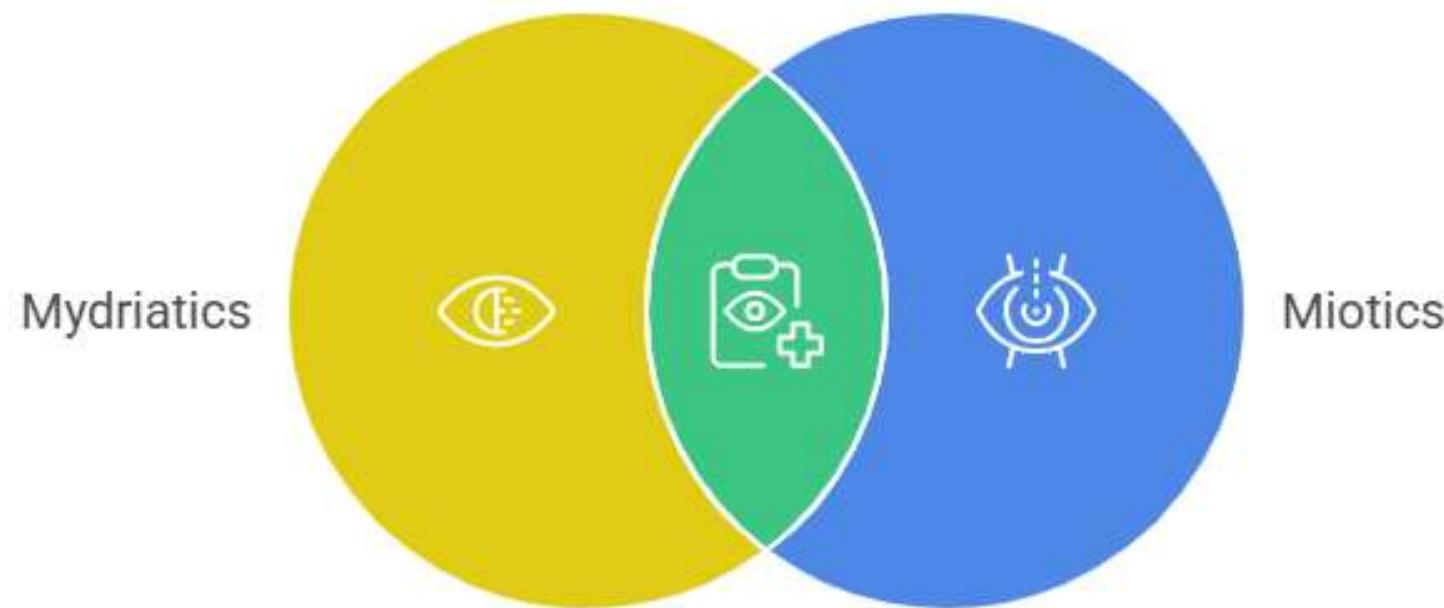
Side Effects of Miotics



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Navigating Pupil-Modifying Drugs in Glaucoma

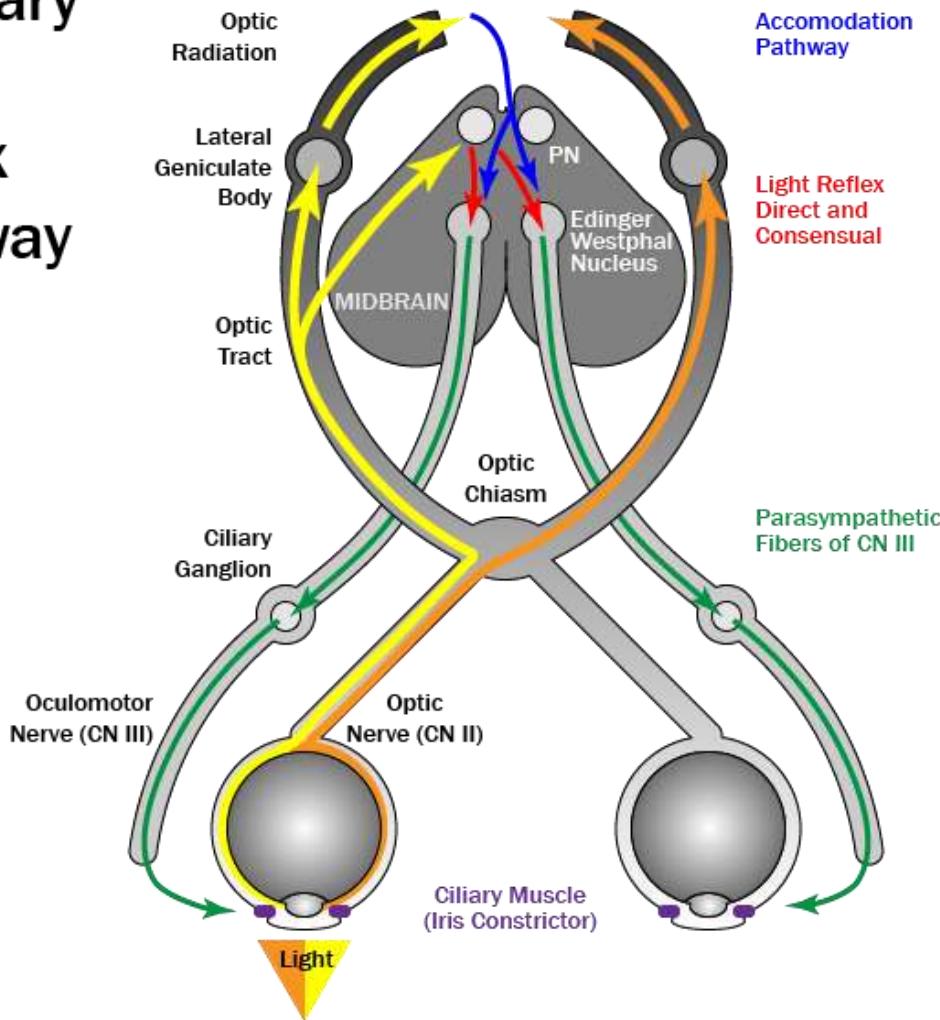
Glaucoma Management Considerations



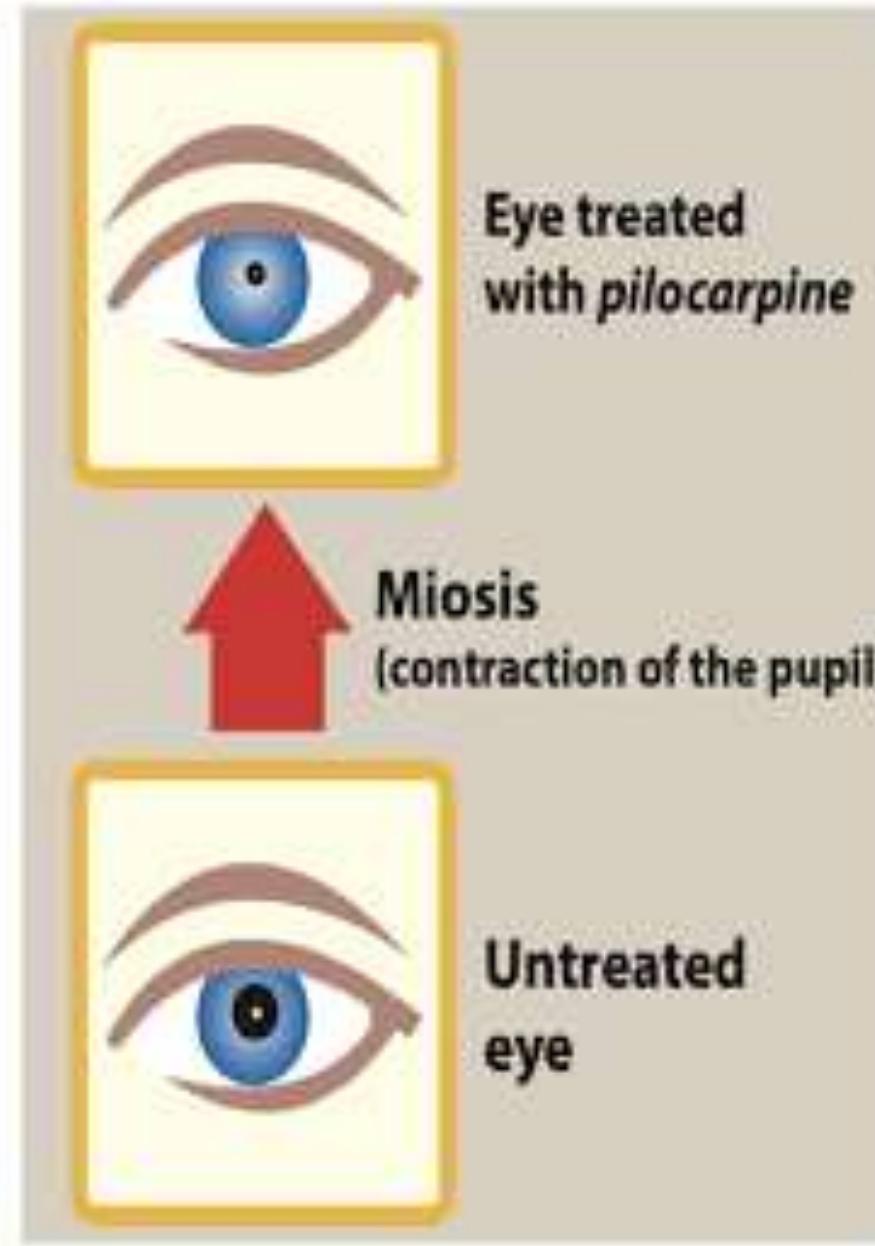
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Pupillary Light Reflex Pathway

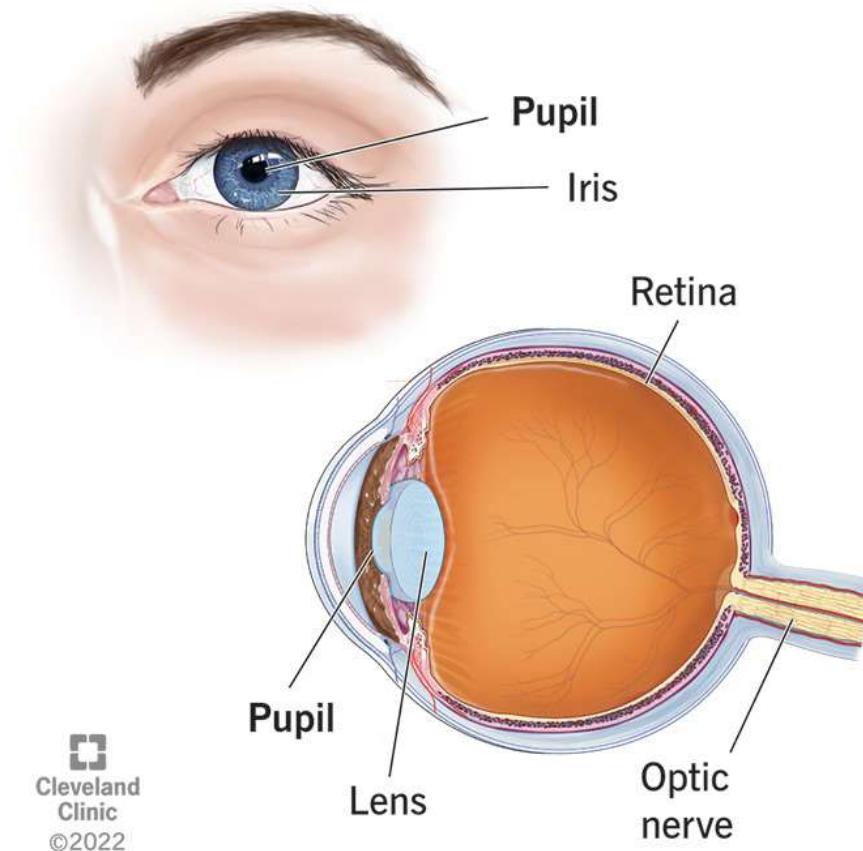
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MIOSIS DRUG



Pupil of the Eye

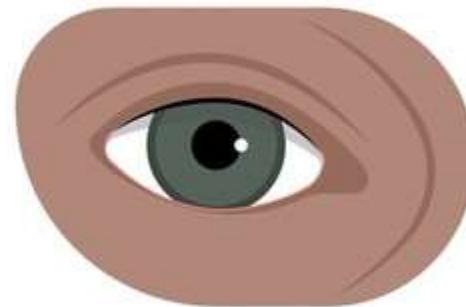


CLASS ASSESSMENTS

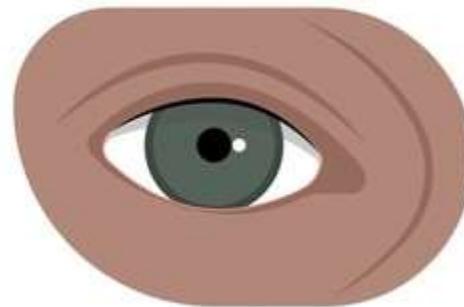


WHETHER PUPIL SIZE INCREASE OR DECREASE IN MIOSIS?

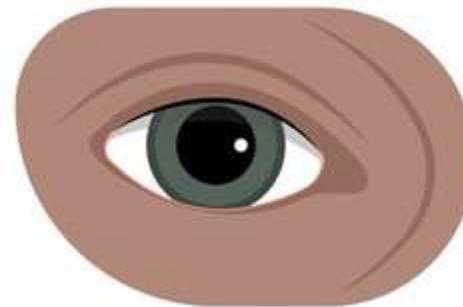
PUPILLARY LIGHT REFLEX



NORMAL LIGHT



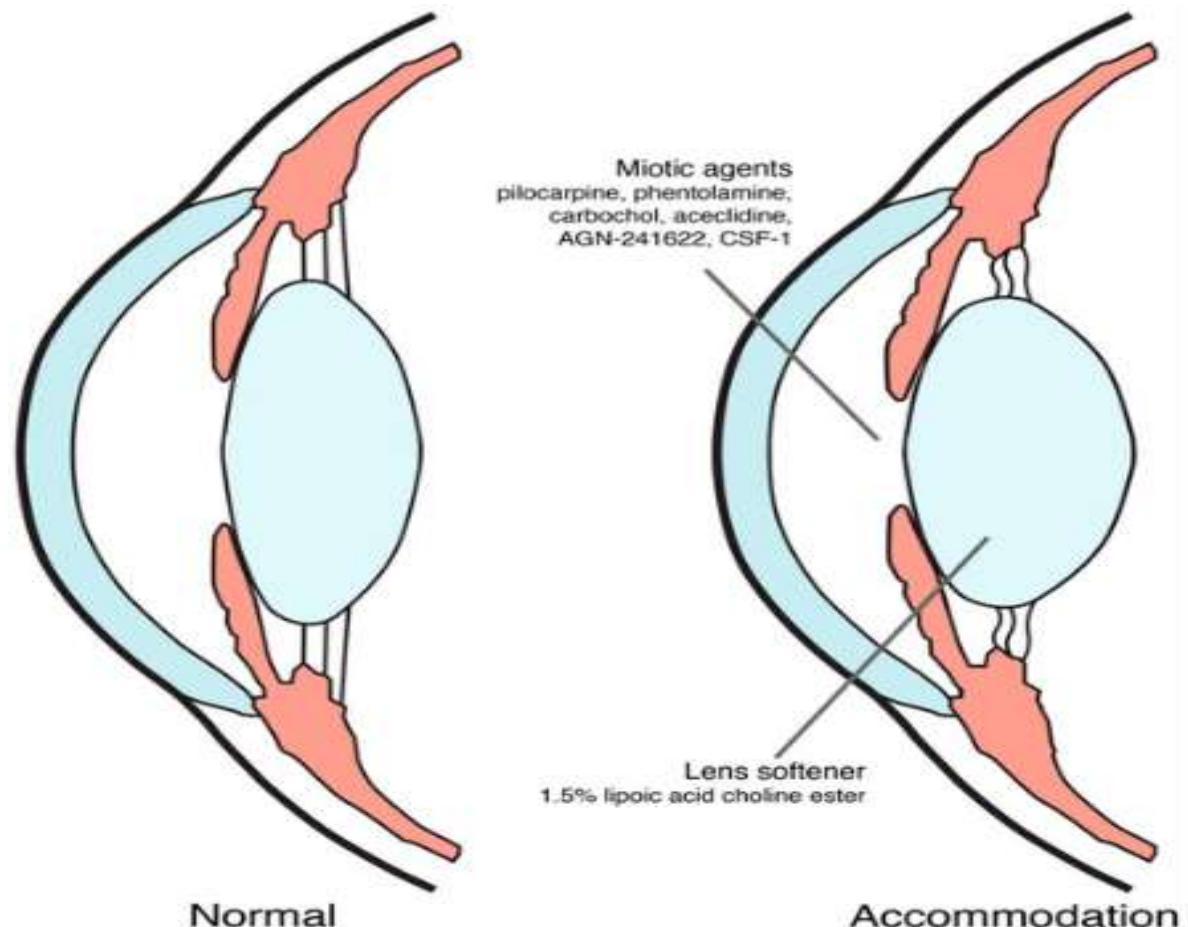
BRIGHT LIGHT



DIM LIGHT

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SUMMARY



REFERENCE

- Rang & Dale's Pharmacology, 9th Edition, Elsevier, 2019.
- Goodman & Gilman's: The Pharmacological Basis of Therapeutics, 13th Edition, McGraw-Hill, 2018.
- Text book of Pharmacology by KD Tripathi.

