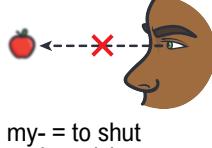


CONCEPT: VISUAL SYSTEM: VOCABULARY

Visual Pathology

- ◆ Medical terms describing the clinical disorders of the visual system.

Medical Term	Definition	Memory Tool	Medical Term	Definition	Memory Tool
Cataract	Opaque or _____ lens that impairs vision.	Cloudy Affects Transparency. 	Strabismus (Cross-eyed) (struh-biz-muhs)	_____aligned eyes found mostly in children; caused by eye muscle weakness.	 STRAy-eye
Chalazion (kuh-lay-zee-uhn)	Firm, _____ cyst that forms on an eyelid when eye glands are blocked.	Chill-azion 	Myopia (Nearsightedness)	An _____ability to see objects far away.	 my- = to shut -opia = vision condition
Hordeolum (Style) (hawr-dee-uh-luhm)	_____ cyst that forms on an eyelid when eye glands are infected.	HORrible LUMp. 	Retinitis Pigmentosa	Chronic, progressive degeneration of the retina leading to blindness.	 Rods Perish.

EXAMPLE

A patient is presented with a nontender and gradually developing lump on their upper eyelid, which is causing mild visual distortion. They report no discomfort with the lump, even though they suffer from eczema. Which of the following is the most likely condition of the patient?

a) Cataract b) Hordeolum c) Myopia d) Chalazion e) Ocular expansion

PRACTICE

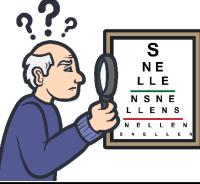
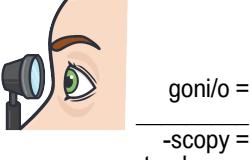
Which of the following is a term for the outward turning of a person's eyes?

a) Exotropia b) Esotropia c) Peritropia d) Mesotropia e) Hypotropia

CONCEPT: VISUAL SYSTEM: VOCABULARY

Medical Procedures

- ◆ Terms that relate to surgical or diagnostic exams relating to the visual system.

Medical Term	Definition	Memory Tool
Snellen Test	Measures a person's visual sharpness looking at varying sized letters from ____ ft way.	
Keratometry	Measures the curvature of the anterior surface of the cornea.	 kerat/o = cornea -metry = to
Gonioscopy	Measures the eye's drainage angle where the iris and cornea meet.	 goni/o = -scopy = to observe
Exophthalmometry	Measures exophthalmos (_____ eyes) and tracks its progression.	 Exit-ing eyes lead to exophthalmos.
Enucleation	Surgical _____ of an eyeball.	 Eject the Nucleus

EXAMPLE

Which of the following conditions would warrant a therapeutic enucleation procedure?

- a) Treatment of simple strabismus.
- b) Removal of a benign, intraocular tumor.
- c) Correction of a disfigured, painful eye suffering from anopia.
- d) Treatment of a significant corneal abrasion.

CONCEPT: VISUAL SYSTEM: VOCABULARY

PRACTICE

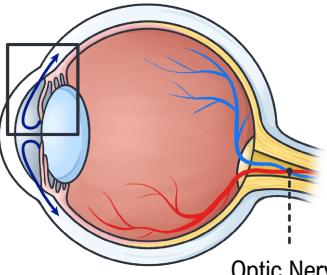
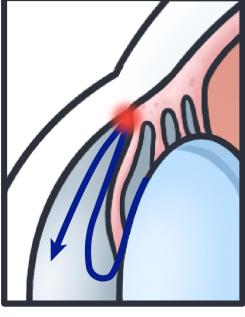
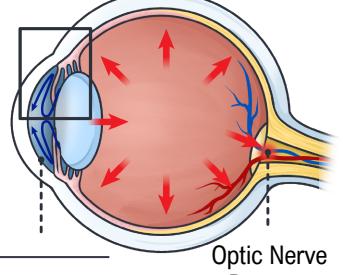
A nearsighted (myopic) person, without their needed glasses, takes a Snellen Test. They stand at the standard 20 feet away from the chart. Their visual acuity is recorded as 20/80. Which of the following is a true statement based on their 20/80 vision?

- a) They can see an object 80 feet away with the same acuity as someone with normal vision can see at 20 feet.
- b) They have normal 20/20 vision and can see objects clearly at 80 feet away.
- c) They can read the smallest letters at the bottom chart with 80 times greater acuity.
- d) They can see an object 20 feet away with the same acuity as someone with normal vision can see at 80 feet.

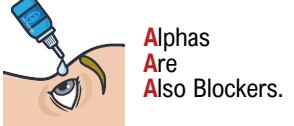
CONCEPT: VISUAL SYSTEM: VOCABULARY

Pathogenesis of Glaucoma

- ◆ Glaucoma is characterized by _____ pressure caused by excess aqueous humor damaging the optic nerve.

Healthy Eyes vs. Glaucoma		
Healthy	Blocked Duct	Glaucoma
		
► Unblocked ducts _____ aqueous humor.	► Blocked duct causes pooling of aqueous humor.	► _____ pressure from excess aqueous humor damages the optic nerve.

- ◆ The following drugs _____ outflow of aqueous humor and/or _____ production of aqueous humor.

Medical Term	Definition	Memory Tool
Prostaglandin Analogues	_____ the outflow of aqueous humor.	
Beta Blockers	_____ aqueous humor production.	
Alpha Adrenergic Antagonist	_____ aqueous humor production & increase drainage.	
Carbonic Anhydrase Inhibitors	_____ aqueous humor production & increase drainage.	
Cholinergic Agonist	Increase constriction of pupils to _____ outflow of aqueous humor.	

CONCEPT: VISUAL SYSTEM: VOCABULARY

EXAMPLE

Which of the following statements is true?

- a) Intraocular pressure is regulated by the continuous turnover of intraocular fluid.
- b) The formation of a chalazion causes blockage of the eye's drainage & decreases intraocular pressure.
- c) Gonioscopy is used for decreasing intraocular pressure.
- d) Intraocular pressure increases when the eye produces less intraocular fluid.

PRACTICE

An 81-year-old patient with glaucoma is given a cholinergic agonist eye drop. What is the mechanism used to lower intraocular pressure?

- a) By decreasing production of intraocular fluid.
- b) By constricting the pupils, which decreases outflow of intraocular fluid.
- c) By dilating the pupils, which decreases outflow of intraocular fluid.
- d) By constricting the pupils, which increases outflow of intraocular fluid.