

Open Angle And Closed Angle Glaucoma

== Role in treatment of Glaucoma ==

Canine glaucoma (IOP > 22 mmHg) is a significant risk factor for the development of glaucoma. An intraocular pressure greater than 22 mmHg (2. Glaucoma often goes unnoticed in dogs until it is in a more severe Canine glaucoma refers to a group of diseases in dogs that affect the optic nerve and involve a loss of retinal ganglion cells in a characteristic pattern. Untreated glaucoma in dogs leads to permanent damage of the optic nerve and resultant visual field loss, which can progress to blindness. primary glaucoma are the result of a collapsed filtration angle, or closed angle glaucoma

An initial pocket is created under the conjunctiva and Tenon's capsule and the wound bed is treated for several seconds to minutes with mitomycin C (MMC, 0.5–0.2 mg/ml) or 5-fluorouracil (5-FU, 50 mg/ml) soaked sponges. These chemotherapeutics help to prevent failure of the filter bleb from scarring by inhibiting fibroblast proliferation. Alternatively, non-chemotherapeutic adjuvants can be implemented to prevent super scarring...
== Types ==
Signs and symptoms
Latanoprost was approved for medical use in the United States and the European Union in 1996. It is on the World Health Organization's List of Essential Medicines. Latanoprost is available as a generic medication. In 2023, it was the 67th most commonly prescribed medication in the United States, with more than 9 million prescriptions. It is available as a fixed-dose combination with netarsudil as netarsudil/latanoprost and with timolol as latanoprost/timolol. It is the origin of the longitudinal and circular fibres (which swerve acutely from the spur to run circumferentially, as a sphincter near the periphery of the lens) of the ciliary muscle, and is attached posteriorly to the trabecular meshwork. Open-angle glaucoma (OAG) and closed-angle glaucoma (CAG) may be treated by muscarinic receptor agonists (e.g., pilocarpine), which cause rapid miosis and contraction of the ciliary muscles. This pulls the scleral spur and results in the trabecular meshwork being stretched and separated. This opens the fluid pathways, and facilitates drainage of the aqueous humour into the canal of Schlemm, ultimately resulting in decreasing of the intraocular pressure.

Levobunolol and open-angle glaucoma. Like other non-selective beta blockers, levobunolol is contraindicated in patients with airway diseases such as asthma and severe Levobunolol (trade names AKBeta, Betagan, Vistagan, among others) is a non-selective beta blocker. It is used topically in the form of eye drops to manage ocular hypertension (high pressure in the eye) and open-angle glaucoma

Latanoprost Onset of effects is usually within four hours, and they last for Latanoprost, sold under the brand name Xalatan among others, is a medication used to treat increased pressure inside the eye (intraocular pressure). This includes ocular hypertension and open-angle glaucoma. Latanoprost is applied as eye drops to the eyes. hypertension and open-angle glaucoma. Latanoprost is applied as eye drops to the eyes. Onset of effects is usually within four hours, and they last for up to a day

Van Herick technique examination method used to determine the size of the anterior chamber angle of the eye. Glaucoma is currently the principal cause of irreversible blindness in The Van Herick technique is an eye examination method used to determine the size of the anterior chamber angle of the eye

Lens induced glaucomas Lens induced glaucomas or Lens related glaucomas are either open-angle or closed-angle glaucomas that can occur due to The crystalline lens inside the human eye has been implicated as a causative factor in many forms of glaucoma. Lens induced glaucomas or Lens related glaucomas are either open-angle or closed-angle glaucomas that can occur due to a neglected advanced cataract (cloudiness of the lens) or a

dislocated lens. factor in many forms of glaucoma. It is a type of secondary glaucoma. The angle-closure glaucoma can be caused by a swollen or dislocated lens. The open-angle glaucoma can be caused by leakage of lens proteins through the capsule of a mature or hyper mature cataract or by a hypersensitivity reaction to own lens protein following surgery or penetrating trauma e9362454c5

Minimally invasive glaucoma surgery MIGS comprises a group of surgical procedures which share common features. MIGS procedures involve a minimally invasive approach, often with small cuts or micro-incisions through the cornea that causes the least amount of trauma to surrounding scleral and conjunctival tissues. The techniques minimize tissue scarring, allowing for the possibility of traditional glaucoma procedures such as trabeculectomy or glaucoma valve implantation (also known as glaucoma drainage device) to be performed in the future if needed. Endocyclophotocoagulation is indicated for the treatment of both open and closed angle glaucoma and is performed in eyes which have already undergone cataract Micro-invasive glaucoma surgery (MIGS) is the latest advance in surgical treatment for glaucoma, which aims to reduce intraocular pressure by either increasing outflow of aqueous humor or reducing its production e9362454c5

Trabeculectomy It is the most common glaucoma surgery Trabeculectomy is a surgical procedure used in the treatment of glaucoma to relieve intraocular pressure by removing part of the eye's trabecular meshwork and adjacent structures. of glaucoma to relieve intraocular pressure by removing part of the eye's trabecular meshwork and adjacent structures. It is the most common glaucoma surgery performed and allows drainage of aqueous humor from within the eye to underneath the conjunctiva where it is absorbed. Due to the higher risks associated with bulbar blocks, topical analgesia with mild sedation is becoming more common. Rarely general anesthesia will be used, in patients with an inability to cooperate during surgery. This outpatient procedure was most commonly performed under monitored anesthesia care using a retrobulbar block or peribulbar block or a combination of topical and subtenon (Tenon's capsule) anesthesia e9362454c5

== Medical uses == e9362454c5

Scleral spur The spur is an annular structure composed of collagen in the human eye. the ciliary muscle, and is attached posteriorly to the trabecular meshwork. Open-angle glaucoma (OAG) and closed-angle glaucoma (CAG) may be treated The scleral spur in the visual system is a protrusion of the sclera (the white of the eye) into the anterior chamber e9362454c5

Glaucoma is currently the principal cause of irreversible blindness in the world. Therefore, The Van Herick technique is pertinent to the interests of all eye care practitioners as it permits for a quick and simple screening alternative to the conventional Gonioscopy examination. It should not however, be used as a replacement for the gonioscopy examination but rather be used as a means of refuting or confirming the results of a gonioscopy examination. e9362454c5 == Contraindications == e9362454c5 Like other non-selective beta blockers, levobunolol is contraindicated in patients with airway diseases such as asthma and severe chronic obstructive pulmonary disease (COPD), as well as heart problems such as sinus bradycardia, second- or third-degree atrioventricular block, sick sinus syndrome, and cardiogenic shock. Combination with MAO-A inhibitors is also contraindicated because it could cause a dangerous rise in blood pressure. e9362454c5 In the United States, latanoprost is indicated for the reduction of elevated intraocular pressure in people with open... e9362454c5

Trabectome The trabecular meshwork is a major The Trabectome is a surgical device that can be used for ab interno trabeculotomy, a minimally invasive glaucoma surgery for the surgical management of adult, juvenile, and infantile glaucoma. Active irrigation of the trabectome surgery system helps to keep the anterior chamber formed during the procedure and precludes the need for ophthalmic viscoelastic devices. The trabecular meshwork is a major site of resistance to aqueous humor outflow. The Trabectome decreases the. The Trabectome handpiece is inserted into the anterior chamber, its tip positioned into

Schlemm's canal, and advanced to the left and to the right. trabeculotomy, a minimally invasive glaucoma surgery for the surgical management of adult, juvenile, and infantile glaucoma. Viscoelastic devices tend to trap debris or gas bubbles and diminish visualization. Hypotony with damage to the macula (hypotony maculopathy), can occur with pressures below 5 mmHg, for instance, after traditional trabeculectomy, because of the episcleral venous pressure limit. Different from cautery, the tip generates plasma to molecularize the trabecular meshwork and remove it drag-free and with minimal thermal effect. As angle surgeries such as Trabectome follow the physiologic outflow pathway, the risk of complications is significantly lower than filtering surgeries e9362454c5

Glaucoma A major risk factor for glaucoma is increased pressure within the eye, known as intraocular pressure (IOP). Inside the eye, a liquid called aqueous humor, which Glaucoma is a group of eye diseases that can lead to damage of the optic nerve, which transmits visual information from the eye to the brain. It is associated with old age, a family history of glaucoma, and certain medical conditions or the use of some medications. different types of glaucoma, the most common are called open-angle glaucoma and closed-angle glaucoma. The word glaucoma comes from the Ancient Greek word γλαυκός (glaukós), meaning 'gleaming, blue-green, gray'. Glaucoma may cause vision loss if left untreated. It has been called the "silent thief of sight" because the loss of vision usually occurs slowly over a long period of time e9362454c5

Of the different types of glaucoma, the most common are called open-angle glaucoma and closed-angle glaucoma. Inside the eye, a liquid called aqueous humor, which is produced by the ciliary body, helps to maintain shape and provides nutrients. The aqueous humor normally drains through the trabecular meshwork. In open-angle glaucoma, the drainage is impeded, causing the build up of aqueous to accumulate in the anterior chamber causing the pressure inside the eye to increase. This elevated pressure can reduce vascular perfusion in the vitreous... e9362454c5 The Van Herick's technique has become the most commonly used qualitative method of assessing the size of the anterior chamber angle (ACA). Whereby, it involves comparing the depth of the peripheral anterior chamber to the thickness of the cornea, when a narrow beam is shone within the limbus at a 60° angle. The anterior chamber drainage angle is then graded as a ratio between the peripheral anterior chamber depth and corneal thickness (AC : C ratio) or expressed traditionally as a fraction to provide the Van Herick's result. Grading can also be obtained by distinguishing the structures visible upon observation. Each... e9362454c5 Levobunolol is not useful for the treatment of closed-angle glaucoma. e9362454c5 == Procedure == e9362454c5 Traditional glaucoma surgery generally involves an external (ab externo) approach through the conjunctiva and sclera; however, MIGS procedures reach their surgical target from an internal (ab interno) route, typically through a self-sealing corneal incision. By performing the procedure from an internal approach, MIGS procedures often reduce discomfort and lead to more rapid recovery periods. While MIGS procedures offer fewer side effects, the procedures tend to result... e9362454c5 Common side effects include blurry vision, redness of the eye, itchiness, and darkening of the iris. Latanoprost is in the prostaglandin analogue family of medications. It works by increasing the outflow of aqueous fluid from the eyes through the uveoscleral tract. e9362454c5 The group of multifactorial diseases which cause glaucoma in dogs can be divided roughly into three main categories: congenital, primary or secondary. In dogs, most forms of primary glaucoma are the result of a collapsed filtration angle, or closed angle glaucoma. e9362454c5

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