

GLAUCOMA NUTS AND BOLTS

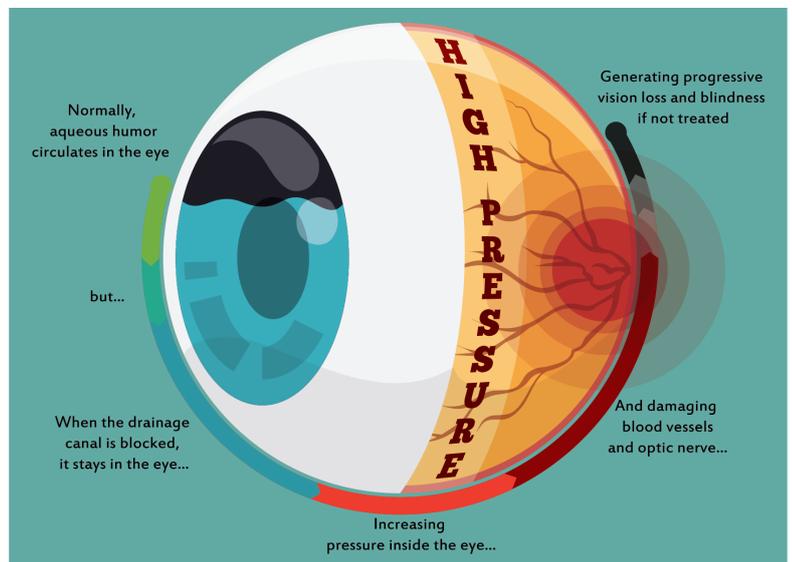
Glaucoma – known as the “silent thief of sight” – is an eye disease that slowly and painlessly steals your sight, often without symptoms. However, it is the second leading cause of blindness worldwide, and half of people who have glaucoma are unaware they have the disease and are going blind.

Glaucoma damages vision by destroying the optic nerve, which connects your eye to your brain, and carries visual information to your brain for processing. When the optic nerve is damaged from glaucoma, you lose your vision. Your peripheral – or side – vision is lost first. If the glaucoma remains untreated, the vision loss creeps in toward the center, first causing tunnel vision and eventually blindness.

The cause of optic nerve damage in glaucoma is unknown, but since most eyes with glaucoma have high intraocular pressure (IOP), it is likely that high IOP plays a role in damaging the nerve. IOP is a measure of the fluid pressure inside the eye. The eye is filled with clear fluid that flows in through a spigot and flows out through a drain. In glaucoma, the drain of the eye gets plugged, and fluid coming into the eye cannot get out, raising the IOP.

A thorough examination for glaucoma should include the measurement of IOP. However, since some eyes can have glaucoma without high IOP, a careful examination of the optic nerve looking for glaucoma damage is also very important. If the IOP is high or the optic nerve looks damaged (or both), a special test called a visual field test should be performed. The visual field test shows whether or not you’ve lost any side vision to glaucoma.

If you are diagnosed with glaucoma, treatment is available to save your vision. The goal of glaucoma treatment is to lower IOP and stop the optic nerve damage. Several kinds of treatment are available to lower IOP. These include eye drops, laser therapy, and surgery.



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Eye drop medications lower IOP by either reducing the amount of fluid entering the eye or increasing the amount of fluid exiting the eye. There are several different kinds of glaucoma medications, and each differs in terms of both its ability to lower IOP and its potential side effects. Laser therapy often is used when medications fail to lower IOP; it is also used for patients who cannot tolerate medications due to side effects. Recent advances in laser therapy have produced lasers so safe and effective that, for some patients, laser therapy is used instead of medications. If medications and/or laser therapy fail to bring the IOP down to a safe range, surgery is available to lower IOP.

Your doctor will work with you to develop a treatment plan that will safely lower your IOP.

GLAUCOMA RISK FACTORS

The cause of glaucoma is unknown, but there are several risk factors that increase your risk of developing glaucoma. These include:

- High eye pressure (called intraocular pressure, or IOP)
- Older age
- Ethnicity (specifically, being African American or Hispanic)
- A family history of glaucoma

Anyone with any of these risk factors should get regular eye examinations to look for glaucoma.