



# Glaucoma: Condition that damages optic nerve

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## ABOUT THE STUDY

Glaucoma is one all told the leading causes of blindness for people over the age of 60. It can occur at any age but is more common in older adults. Glaucoma may well be a significant, lifelong disease which is able to lead to vision loss if not controlled. For several people, glaucoma doesn't must cause blindness. That's because glaucoma is controllable with modern treatment, and there are many choices to help keep glaucoma from further damaging your eyes. Treatment cannot reverse damage that has already occurred, but it can prevent further vision loss. Glaucoma is a watch fixed disease that causes loss of sight by damaging part of the eye called the second cranial nerve. This nerve sends information from your eyes to your brain. When glaucoma damages your second nerve, you begin to lose patches of vision, usually side vision (peripheral vision).The fluid inside eye, called humor, usually flows out of your eye through a mesh-like channel. If this channel gets blocked, or the eye is producing an excessive amount of fluid, the liquid builds up. Sometimes, experts don't know what causes this blockage. But it'll be inherited, meaning it's passed from parents to children.

Less-common causes of glaucoma include a blunt or chemical injury to eye, severe hordeolum, blocked blood vessels inside your eye, and inflammatory conditions. It's rare, but eye surgery to correct another condition can sometimes bring it on. it always affects both eyes, but it's visiting be worse in one than the alternative.

## TYPES OF GLAUCOMA

There are many sorts of glaucoma. Often, the reason for top within the attention can help tell the type of glaucoma and also the simplest treatment for it. the foremost common types include:

### Chronic (open angle) glaucoma

This is the foremost common type. In open angle glaucoma, aqueous fluid drains too slowly and pressure inside the eye builds up. it always results from aging of the drainage channel, which doesn't work furthermore over time. However, younger people can also get this sort of glaucoma.

### Normal tension glaucoma

This is a form of open angle glaucoma not related to atmospheric state. People with normal tension glaucoma is additionally unusually sensitive to normal levels of pressure. Reduced blood supply to the second cranial nerve may play employment in normal tension glaucoma.

### Acute (angle closure) glaucoma

Those of Asian and Native American descent are at higher risk for this sort of glaucoma. It occurs when the system of the eye becomes blocked. It causes a sudden rise in pressure, requiring immediate, emergency medical care. The signs are usually serious and can include blurred vision, severe headaches, eye pain, nausea, vomiting or seeing rainbow-like halos around lights. Occasionally, the condition is additionally without symptoms; similar to open angle.

### Secondary glaucoma

Secondary glaucoma is that the results of another condition or disease, like inflammation, trauma, or tumor. Learn more about uveitis, an inflammation which is able to cause secondary glaucoma.

The most common surgical approach currently used for the treatment of glaucoma is trabeculectomy, during which the sclera is punctured to alleviate pressure.

Non Penetrating Deep Sclerectomy (NPDS) surgery is also an analogous, but modified, procedure, during which instead of puncturing the scleral bed and trabecular meshwork under a scleral flap, a second deep scleral flap is formed, excised, with further procedures of deroofting the channel, upon which, percolation of liquid from the inner eye is achieved and thus alleviating pressure, without penetrating the eye. NPDS is demonstrated to possess significantly fewer side effects than trabeculectomy.