Treatments for Open-Angle Glaucoma
A Review of the Research for Adults
Is This Information Right for Me?

Yes, this information is for you if:

- Your eye doctor has said that you have open-angle glaucoma, an eye condition that leads to vision loss.
- Your eye doctor has suggested medicine, laser surgery, or traditional surgery to treat your glaucoma.

No, this information may not be helpful to you if:

- Your eye doctor has said that you have another form of glaucoma, such as closed-angle, juvenile, congenital, traumatic, neovascular, refractory, or inflammatory glaucoma.
- Your eye doctor has not told you that you have open-angle glaucoma or has not suggested that you start treatment for this condition.

What will this summary tell me?

This summary will tell you about medicines, laser surgery, and traditional surgery to treat open-angle glaucoma. It will discuss what research says about how well these treatments work and possible side effects. You can use this information when talking with your eye doctor about what treatment may be right for you.

Note: The research for this summary was done only with people age 40 and older.
Where does the information come from?

Researchers funded by the Agency for Healthcare Research and Quality (AHRQ), a Federal Government research agency, reviewed 109 studies published through October 2011 on treatments for open-angle glaucoma. The report was reviewed by clinicians, researchers, experts, and the public. You can read the report at www.effectivehealthcare.ahrq.gov/glaucomatreatment.cfm.
Understanding Your Condition

What is open-angle glaucoma?

Open-angle glaucoma is one of several kinds of glaucoma (a condition that leads to vision loss). Glaucoma is the result of damage to your optic nerve (the nerve that sends images to your brain). Over time, this damage can cause you to lose the ability to see.

Open-angle glaucoma develops slowly, and most people are not aware of any symptoms. Your eye doctor can check to see if your optic nerve is being damaged. Glaucoma usually happens in both eyes, but one eye may be worse than the other.

A first symptom of glaucoma you may notice is difficulty with your side vision (called “peripheral vision,” pronounced pe-RIF-uh-ral). It may also be difficult to see things in bright light or when you go between light and dark.

Without treatment, your field of vision (the amount you are able to see) gets less and less until you cannot see at all. Your eye doctor can do tests to check for glaucoma. This is why it is important to see your eye doctor regularly.
What causes open-angle glaucoma?

Open-angle glaucoma is the result of damage to your optic nerve. One thing that can damage your optic nerve is an increase in the pressure in your eyes. Some people’s optic nerves are more sensitive to an increase in pressure than other people’s. Your eye pressure may be at a level considered normal, and you can still have damage to your optic nerve. Increased pressure can happen if the fluid inside your eyes is not draining properly.

- Your eyes are always making and draining fluid. This fluid keeps the pressure in your eyes at the correct level so they stay the right shape so you can see.
- Fluid drains from your eyes through a drainage system between the iris and cornea called an “angle” and out through canals (as shown in the diagram above). In people with open-angle glaucoma, the angle to the canals is open, but the fluid is not draining properly.
- There may be several reasons why your eyes are not draining fluid properly. The canals may be too narrow, or they may be blocked.
- If fluid cannot drain out, then it builds up inside your eyes. This could increase the pressure inside your eyes. If the pressure becomes too high for your eyes, it can damage your optic nerve and decrease your ability to see.
What are the risk factors for glaucoma?

People with an increased risk of developing glaucoma include:

- African Americans over age 40
- People over age 60 (especially Latinos)
- People with a family history of glaucoma
- People with increased eye pressure

How does the eye doctor check for glaucoma?

Your eye doctor may do several tests to look for glaucoma, including:

- Checking your eye pressure
  - You may have glaucoma even if your eye pressure is at a level considered normal. That is why the eye doctor does additional tests to check for glaucoma.

- Measuring your side vision (called a visual field test)

- Dilating (widening with medicine drops) the pupils of your eyes so that your eye doctor can see your optic nerve

In glaucoma, the optic nerve is damaged slowly over time. You cannot feel the damage being done to your eyes, and your eyesight may seem normal. That is why it is important for your eye doctor to perform tests to check for glaucoma.

How common is open-angle glaucoma?

- Two to 3 million people in the United States (around 1 percent of Americans) have open-angle glaucoma.

- Glaucoma is a leading cause of blindness in the United States and around the world.
Understanding Your Options

How is open-angle glaucoma treated?

Eye doctors treat open-angle glaucoma by lowering the pressure in your eyes. There are no treatments to fix damaged optic nerves. Once sight is lost, there is no way to bring it back.

There are three types of treatment for glaucoma: medicine, laser surgery, and traditional surgery. None of these treatments will cure your glaucoma, but they can help stop the damage to your optic nerve.

- **Medicine** is often the first treatment for glaucoma and works in one of two ways:
  - Making your eyes produce less fluid
  - Increasing the outflow of fluid from inside your eyes

- **Laser surgery** works in one of two ways:
  - Helping your eyes drain fluid better
  - Decreasing the amount of fluid that your eyes produce (this type of laser surgery is not discussed in this summary)

- **Traditional surgery** works in one of two ways:
  - Redirecting fluid to bypass the part of the drainage system in your eyes that is not working properly
  - Making new pathways for fluid to drain from your eyes
Many people with glaucoma will be treated first with medicine.

- There are many types of glaucoma medicine. Each type of medicine has several brand names.
- Most medicines are eye drops that you put in your eyes one or more times a day.
- Some eye doctors may suggest glaucoma medicines that are pills, but this is much less common because of their side effects.

It is important to always use your glaucoma eye drop medicine or take your glaucoma pills exactly as your doctor tells you. You should do your best to avoid missing even one day of medicine. It is also important to continue to see your eye doctor regularly for checkups.
## Medicines for Lowering Eye Pressure

<table>
<thead>
<tr>
<th>Type of Medicine</th>
<th>Brand Name</th>
<th>How Taken</th>
<th>Taken How Often</th>
<th>Generic Available?</th>
<th>Drug Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prostaglandin Analogs</td>
<td>Lumigan®</td>
<td>Eye drops</td>
<td>Once a day</td>
<td>No</td>
<td>Bimatoprost</td>
</tr>
<tr>
<td></td>
<td>Travatan Z®</td>
<td>Eye drops</td>
<td></td>
<td>No</td>
<td>Travoprost</td>
</tr>
<tr>
<td></td>
<td>Xalatan®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Latanoprost</td>
</tr>
<tr>
<td></td>
<td>Zioptan®**</td>
<td>Eye drops</td>
<td></td>
<td>No</td>
<td>Tafluprost*</td>
</tr>
<tr>
<td>Beta-Adrenergic Antagonists</td>
<td>Betagan®</td>
<td>Eye drops</td>
<td>Twice a day</td>
<td>Yes</td>
<td>Levozuxolol</td>
</tr>
<tr>
<td></td>
<td>Betoptic S®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Betaxolol</td>
</tr>
<tr>
<td></td>
<td>Ocupress®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Carteolol</td>
</tr>
<tr>
<td></td>
<td>Timoptic®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Timolol</td>
</tr>
<tr>
<td>Carbonic Anhydrase Inhibitors</td>
<td>Azopt®</td>
<td>Eye drops</td>
<td>Three times a day</td>
<td>No</td>
<td>Brinzolamide</td>
</tr>
<tr>
<td></td>
<td>Trusopt®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Dorzolamide</td>
</tr>
<tr>
<td></td>
<td>Diamox®</td>
<td>Pills</td>
<td>Twice a day</td>
<td>Yes</td>
<td>Acetazolamide</td>
</tr>
<tr>
<td></td>
<td>Neptazane®**</td>
<td>Pills</td>
<td></td>
<td>Yes</td>
<td>Methazolamide*</td>
</tr>
<tr>
<td>Alpha-Adrenergic Agonists</td>
<td>Alphagan® P</td>
<td>Eye drops</td>
<td>Three times a day</td>
<td>Yes</td>
<td>Brimonidine</td>
</tr>
<tr>
<td>Miotics</td>
<td>Isopto® Carpine*</td>
<td>Eye drops</td>
<td>Up to 4 times a day</td>
<td>Yes</td>
<td>Pilocarpine*</td>
</tr>
<tr>
<td>Combination Medicines</td>
<td>Combigan®</td>
<td>Eye drops</td>
<td>Twice a day</td>
<td>No</td>
<td>Brimonidine and timolol</td>
</tr>
<tr>
<td></td>
<td>Cosopt®</td>
<td>Eye drops</td>
<td></td>
<td>Yes</td>
<td>Dorzolamide and timolol</td>
</tr>
</tbody>
</table>

*These medicines were not studied in the research for this summary.*

### What does research say about possible benefits of glaucoma medicines?

- All the glaucoma medicines studied in the research work to lower eye pressure.
  - Prostaglandin analogs (Lumigan®, Travatan Z®, Xalatan*) and the combination of the medicines dorzolamide and timolol (Cosopt®) seem to lower eye pressure better than the other medicines.
- People who use medicine to treat their glaucoma are less likely to have optic nerve damage and lose their side vision than people who are not treated.
What are the possible side effects of glaucoma medicines?

The U.S. Food and Drug Administration (FDA) lists the following possible side effects for glaucoma medicines.

- In general, glaucoma eye drop medicines have these possible side effects:
  - Redness in and around the eyes
  - Blurred vision
  - Burning and stinging
  - Itching
  - Increased tears
  - The feeling that something is in your eye
  - Sensitivity to light
  - Dry eye
  - Eye or eyelid discomfort

- Prostaglandin analogs (Lumigan®, Travatan Z®, Xalatan®, Zioptan®) can cause the following side effects:
  - Darkened color of the iris (the colored part of the eye surrounding the pupil)
  - Darkened color of the eyelid
  - Eyelash changes (increased length, thickness, color, or number of lashes)

- Diamox® and Neptazane® pills can cause the following side effects:
  - Loss of appetite
  - Nausea and vomiting
  - Diarrhea
  - Drowsiness
  - Bad taste in your mouth
  - Tingling in your hands or feet
  - Severe anemia
  - Ringing in your ears
  - Kidney stones
  - A rash

The FDA warns that the pill medicines for glaucoma may have severe side effects or may cause allergic reactions. If you are taking high doses of aspirin or have liver, kidney, heart, or lung disease, you should check with your eye doctor before taking Diamox® or Neptazane®.
What does research say about the possible side effects of glaucoma medicines?

- Eye redness is the most common side effect of glaucoma eye drop medicines.

- Out of prostaglandin analogs, latanoprost (Xalatan®) seems to cause less eye redness than bimatoprost (Lumigan®) or travoprost (Travatan Z®).

- Timolol (Timoptic®) appears to cause less eye redness than prostaglandin analogs. However, timolol (Timoptic®) is more likely to cause side effects such as shortness of breath and a slow heart rate.

**FDA warnings for Betagan®, Betoptic S®, Ocupress®, OptiPranolol®, and Timoptic®:**

- People with breathing conditions such as asthma, chronic bronchitis, or emphysema should check with their eye doctor before using one of these medicines to treat their glaucoma.

- These medicines can lower blood pressure and pulse, especially in people who take beta-blocker pills (medicine used to treat high blood pressure). People who take beta-blocker pills for high blood pressure should check with their eye doctor before using one of these medicines to treat their glaucoma.

- People with insulin-dependent diabetes may not know or feel when their blood sugar is low while using one of these eye drop medicines. These people should check with their eye doctor and the doctor who treats their diabetes before using one of these medicines to treat their glaucoma.
Laser Surgery

Another option to treat glaucoma is laser surgery. Eye doctors can use a focused beam of light—a laser—to help your eyes drain better.

Laser surgery can be done in an outpatient surgery center and does not require staying in a hospital. Usually each eye is done in a separate visit several days to weeks apart. The entire surgery may take only minutes to complete. Eye drops are used to numb your eye so you do not feel pain. You sit in a chair during the surgery, and the eye doctor uses a special microscope and lens to guide the laser beam into your eye.

What does research say about possible benefits of laser surgery?

- Researchers found that laser surgery works to lower eye pressure in people with glaucoma.
- Laser surgery may reduce the need for glaucoma medicines, but there is not enough research to know this for certain. Some people who have laser surgery may need to keep using medicine to treat their glaucoma.
- People who have laser surgery to treat their glaucoma are less likely to have optic nerve damage or lose their side vision than people who are not treated.

What are the possible side effects of laser surgery?

- Temporary eye redness, blurry vision, increased eye pressure, and swelling in the eye (these usually go away within 24 hours)

Note: Laser surgery does not cure glaucoma. Some people who have laser surgery may still need to use medicine to treat their glaucoma. The effects of laser surgery may wear off after several years, and your eye doctor may suggest another laser surgery or other treatment. After laser surgery, it is important to continue to see your eye doctor regularly for checkups.
Traditional Surgery

Traditional surgery is a third option to treat glaucoma.

Traditional surgery for glaucoma can be done by:

- Redirecting fluid so it bypasses the part of the drainage system in your eyes that is not working properly
- Creating new drainage pathways for the fluid in your eyes
  - Sometimes this is done by putting small drainage devices such as tubes in your eyes.

These surgeries are done in an operating room. Each eye is usually done in a separate visit 4 to 6 weeks apart. Before the surgery, medicines are used to numb your eye so you do not feel pain. You are also given medicine to help you relax.

**Note:** Traditional surgery does not cure glaucoma. Some people who have traditional surgery may still need to use medicine to treat their glaucoma. The effects of surgery may wear off after several years, and your eye doctor may suggest another surgery or other treatment. After surgery, it is important to continue to see your eye doctor regularly for checkups.
What does research say about possible benefits of traditional surgery?

- Researchers found that a type of surgery to create new drainage pathways called a “trabeculectomy” (pronounced trab-EK-you-lect-oh-me) works to lower eye pressure.

- People who have a trabeculectomy to treat their glaucoma are less likely to have optic nerve damage or lose their side vision than people who are not treated.

- There is not enough research comparing all types of traditional surgery to know for certain which works the best.

- More research is needed to know whether traditional surgery works better or worse than medicines or laser surgery to help you keep your side vision or reduce the damage to your optic nerve in the long run.

What are the possible side effects and risks of traditional surgery?

- All glaucoma surgeries come with some risk of bleeding, infection, and vision loss, although these are rare.

- Some surgeries increase your risk of developing cataracts.
## Comparing Glaucoma Treatments

<table>
<thead>
<tr>
<th>Description</th>
<th>Medicines</th>
<th>Laser Surgery</th>
<th>Traditional Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Eye drops that are used or pills that are taken one or more times a day</td>
<td>Surgery with a laser that is done in an outpatient surgery center that only takes a few minutes</td>
<td>Surgery done in an operating room</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>□ The effects of this surgery may wear off after several years.</td>
</tr>
<tr>
<td><strong>Possible Benefits</strong></td>
<td>□ Lowers eye pressure □ Prostaglandin analogs (Lumigan®, Travatan Z®, Xalatan®) and a combination of the medicines dorzolamide and timolol (Cosopt®) seem to lower eye pressure better than the other medicines. □ Helps prevent optic nerve damage and loss of side vision</td>
<td>□ Lowers eye pressure □ Helps prevent optic nerve damage and loss of side vision □ May reduce the need for medicines to treat glaucoma, but there is not enough research to know this for certain □ Some people who have laser surgery may still need to use medicine to treat their glaucoma.</td>
<td>□ Trabeculectomy lowers eye pressure □ Trabeculectomy helps prevent optic nerve damage and loss of side vision</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>□ Some people who have traditional surgery may still need to use medicine to treat their glaucoma.</td>
</tr>
<tr>
<td><strong>Possible Side Effects</strong></td>
<td>□ Eye drops can cause eye redness, blurred vision, stinging, and itching. □ Pills can cause nausea, vomiting, diarrhea, and drowsiness. □ The pills may cause more severe side effects or allergic reactions than the eye drop medicines.</td>
<td>□ Temporary eye redness, blurred vision, increased eye pressure, and swelling in the eye (all of these usually go away within 24 hours after surgery)</td>
<td>□ Increased risk of bleeding, infection, and vision loss, although these are rare □ Increased risk of developing cataracts</td>
</tr>
</tbody>
</table>
Making a Decision

What should you think about?

There are many things to consider when deciding how best to treat your glaucoma. The treatment your eye doctor suggests will depend on:

- How much damage, if any, has already happened to your optic nerve
- Your other medical conditions

When deciding how to treat your glaucoma, you should think about:

- Possible benefits and side effects of each treatment option
- How you feel about medicines, laser surgery, or traditional surgery

What is the cost of treatment?

The cost to you for treating glaucoma depends on:

- Your health insurance
- The type of surgery you have
- Whether the medicine comes in a generic form (generic medicines cost less than brand-name medicines)
Wholesale Prices of Glaucoma Medicines

The wholesale prices of medicines for glaucoma are listed below. Wholesale prices are the prices paid by pharmacies. These prices are given here so you can compare the costs of different medicines to see which are more expensive and which are less expensive. The cost to you for each medicine depends on your health insurance and whether the medicine comes in a generic form.

<table>
<thead>
<tr>
<th>Brand Name</th>
<th>Strength</th>
<th>Taken How Often</th>
<th>Price per Month of Brand Name*</th>
<th>Drug Name</th>
<th>Price per Month of Generic*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prostaglandin Analogs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lumigan®</td>
<td>0.01%</td>
<td>Once a day</td>
<td>$115</td>
<td>Bimatoprost</td>
<td>NG</td>
</tr>
<tr>
<td></td>
<td>0.03%</td>
<td></td>
<td>$115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travatan Z®</td>
<td>0.004%</td>
<td>Once a day</td>
<td>$115</td>
<td>Travoprost</td>
<td>NG</td>
</tr>
<tr>
<td>Xalatan®</td>
<td>0.005%</td>
<td>Once a day</td>
<td>$120</td>
<td>Latanoprost</td>
<td>$90</td>
</tr>
<tr>
<td>Zioptan®</td>
<td>0.0015%</td>
<td>Once a day</td>
<td>$115</td>
<td>Tafluprost</td>
<td>NG</td>
</tr>
<tr>
<td><strong>Beta-Adrenergic Antagonists</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Betagan®</td>
<td>0.25%</td>
<td>Twice a day</td>
<td>$25</td>
<td>Levobunolol</td>
<td>$15</td>
</tr>
<tr>
<td></td>
<td>0.5%</td>
<td>Twice a day</td>
<td>$40</td>
<td></td>
<td>$20</td>
</tr>
<tr>
<td>Betoptic S®</td>
<td>0.25%</td>
<td>Twice a day</td>
<td>$185</td>
<td>Betaxolol</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>0.5%</td>
<td></td>
<td>NA</td>
<td></td>
<td>$125</td>
</tr>
<tr>
<td>Ocupress®</td>
<td>1%</td>
<td>Twice a day</td>
<td>NA</td>
<td>Carteolol</td>
<td>$20</td>
</tr>
<tr>
<td>Timoptic®</td>
<td>0.25%</td>
<td>Twice a day</td>
<td>$125</td>
<td>Timolol</td>
<td>$15</td>
</tr>
<tr>
<td></td>
<td>0.5%</td>
<td></td>
<td>$135</td>
<td></td>
<td>$20</td>
</tr>
<tr>
<td><strong>Carbonic Anhydrase Inhibitors</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Azopt®</td>
<td>1%</td>
<td>Three times a day</td>
<td>$135</td>
<td>Brinzolamide</td>
<td>NG</td>
</tr>
<tr>
<td>Trusopt®</td>
<td>2%</td>
<td>Three times a day</td>
<td>$85</td>
<td>Dorzolamide</td>
<td>$70</td>
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<tr>
<td>Diamox®</td>
<td>250 mg</td>
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<td>NA</td>
<td>Acetazolamide</td>
<td>$266</td>
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<tr>
<td></td>
<td>500 mg (extended release)</td>
<td>Twice a day</td>
<td>$390</td>
<td></td>
<td>$260</td>
</tr>
<tr>
<td>Neptazane®</td>
<td>50 mg</td>
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<td></td>
<td>Methazolamide</td>
<td>$180</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$270</td>
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</table>

*Prices are the average wholesale prices listed from RED BOOK Online® rounded to the nearest $5. Generic prices are the middle value in the range of prices listed from different manufacturers. The actual prices of the medicines may be higher or lower than the prices listed here, depending on the manufacturer used by your pharmacy.

NA = price is not available; NG = no generic form

(Continued on next page)
### Wholesale Prices of Glaucoma Medicines (Continued)

<table>
<thead>
<tr>
<th>Brand Name</th>
<th>Strength</th>
<th>Taken How Often</th>
<th>Price per Month of Brand Name*</th>
<th>Drug Name</th>
<th>Price per Month of Generic*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alpha-Adrenergic Agonists</strong></td>
<td></td>
<td></td>
<td></td>
<td>Brimonidine</td>
<td></td>
</tr>
<tr>
<td>Alphagan® P</td>
<td>0.1%</td>
<td>Three times a day</td>
<td>$180</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.15%</td>
<td></td>
<td>$200</td>
<td>Brimonidine</td>
<td>$180</td>
</tr>
<tr>
<td><strong>Miotics</strong></td>
<td></td>
<td></td>
<td></td>
<td>Pilocarpine</td>
<td></td>
</tr>
<tr>
<td>Isopto® Carpine</td>
<td>1%</td>
<td>Up to 4 times a day</td>
<td>$85</td>
<td>$70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2%</td>
<td></td>
<td>$85</td>
<td></td>
<td>$75</td>
</tr>
<tr>
<td></td>
<td>4%</td>
<td></td>
<td>$90</td>
<td></td>
<td>$80</td>
</tr>
<tr>
<td><strong>Combination Medicines</strong></td>
<td></td>
<td></td>
<td></td>
<td>Brimonidine and timolol</td>
<td>NG</td>
</tr>
<tr>
<td>Combigan®</td>
<td>0.2—0.5%</td>
<td>Twice a day</td>
<td>$105</td>
<td>Brimonidine and timolol</td>
<td>NG</td>
</tr>
<tr>
<td>Cosopt®</td>
<td>0.2—0.5%</td>
<td>Twice a day</td>
<td>$80</td>
<td>Dorzolamide and timolol</td>
<td>$60</td>
</tr>
</tbody>
</table>

*Prices are the average wholesale prices listed from RED BOOK Online® rounded to the nearest $5. Generic prices are the middle value in the range of prices listed from different manufacturers. The actual prices of the medicines may be higher or lower than the prices listed here, depending on the manufacturer used by your pharmacy. NA = price is not available; NG = no generic form
Ask your eye doctor

- Can my glaucoma be treated with medicine, or do you think I will need laser surgery or traditional surgery?
- What if I also have or later develop cataracts?
- Which medicine is best for me?
- How will we know if the medicine is not working?
- What happens if I miss a dose of the medicine? Are there ways to help me remember to take it?
- Could my glaucoma medicine interact with other medicines I am taking?
- If I need laser surgery or traditional surgery, how long will I be away from work or other activities?
- If I have surgery, will I still need medicine? Is it a one-time surgery, or will I need another surgery in the future?
- What serious side effects should I look for, and when should I contact you about them?
- How often should I have my eyes checked to make sure the treatment is working?

Other questions:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Write the answers here:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Source

The information in this summary comes from the report *Treatment for Glaucoma: Comparative Effectiveness*, April 2012. The report was produced by the Johns Hopkins University Evidence-based Practice Center through funding by the Agency for Healthcare Research and Quality (AHRQ).


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