

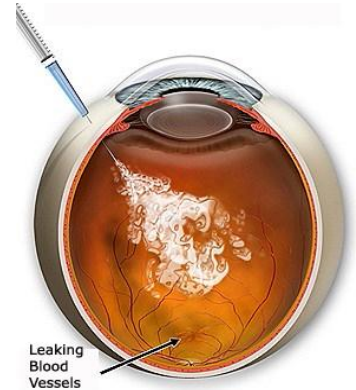
Patient Information: Intravitreal Injection

Overview:

An intravitreal (into the vitreous cavity) injection is a way of delivering medications to the retina in the back of the eye. Certain medications will not reach the retina if given as eye drops or pills, and therefore needed to be injected directly into the eye. Intravitreal injection is a procedure typically performed when fluid has built up either in or under the retina. Common medications that are injected include Avastin, Lucentis, Dexamethasone and/or Kenalog. Your doctor will discuss with you which specific medication is recommended for your condition and why it will help your vision.

Avastin and Lucentis are a certain class of medication called Anti-VEGF. Vascular Endothelial Growth Factor (VEGF) is a local hormone that is released in the tissues that causes blood vessels to become porous (allowing fluid to leak) or to grow new blood vessels (abnormal vessels). Both these medication are used to stop fluid and/or blood from leaking out of blood vessels, which is a common occurrence in both wet macular degeneration and macular edema. In wet macular degeneration, Avastin or Lucentis is also used to prevent the growth of abnormal blood vessels under the retina. These abnormal blood vessels leak fluid and blood and are very damaging to the retinal photoreceptors.

Dexamethasone and Kenalog are anti-inflammatory medications. When tissue becomes damaged, it has a natural inflammatory response. Long-term inflammation causes damage, and both medications are used to reduce the inflammation within the retina and under the retina.



How is it done?

First your doctor will place several local anesthetic drops in the eye, and then inject a small amount of anesthesia on the outside of your eye in the spot where the injection is to be performed. Following this he will clean around the outside of the eye with an antiseptic solution. After allowing 10 minutes for the cleaning solution and anesthetic to take effect, your doctor will inject the medication through the white part of your eye.

Does it hurt?

In almost all cases the anesthesia eliminates any sensation of pain. Some patients may feel pressure with the injection. They may also notice a graying of or blurry vision for 5 minutes after the injection. On very rare occasions, a very quick pinching sensation or pain may be felt.

What are the risks?

The most important risk of the injection is an infection inside the eye. However this is a very rare complication occurring in much less than 1% of injections. Other rare complications including bleeding inside the eye, cataract, glaucoma and retinal detachment. More common side effects include mild irritation and a temporary increase in pressure inside the eye. Moving circular black spots in your vision (floaters) may be noticeable immediately following the injection and can last up to 24 hours. ***A small red area or hemorrhage at the site of injection is also commonly seen in the first few days after injection.*** This occurs as a result of a capillary being punctured and is nothing to be concerned about. It is similar to a bruise on the outside of your eye, and will resolve completely over 1-2 weeks.

What would be the symptoms of an infection inside the eye?

The symptoms of an infection inside the eye include ***severe eye pain*** that doesn't go away, ***a large drop in vision*** and a ***severe red eye***. (Mild irritation and redness on the white part of the eye are normal after the injection, especially in the first day.) ***If you have any of these symptoms or if you are concerned you should call your doctor the same day for further evaluation.***

Do I need to take any special care or medications after my injection?

Yes. Your doctor will give you an antibiotic drop to use in the injected eye and you should take one drop, 4 times a day for 3 days. You should avoid getting water in the eye for the first 3 days after the injection. There are no restrictions on watching TV or working on the computer after the injection.

My Post Injection Instructions

- Use the antibiotic eye drop as directed; 1 drop four times daily in the injected eye for 3 days.
- Avoid swimming or getting water in the injected eye for 3 days. (Showers are OK)
- **Call my Doctor immediately if I experience significant pain, redness, or a large drop in vision in the injected eye.**