



# Information Guide

## Ophthalmology

## Retinal Detachment

### Definition

Retinal detachment occurs when the retina becomes separated from its underlying support tissue called the choroid, resulting in visual impairment depending on the affected region. It's often caused by a tear and/or a hole in the retina causing an accumulation of liquid under the retina.

If the detachment is not repaired, visual impairment will progress towards blindness and becomes irreversible.

**Retina:** The light-sensitive part of the eye allowing us to see, consisting in layers of nervous tissue that transforms light into electrical signals which are sent to the brain through the optic nerve.

**Vitreous humour:** The vitreous is a clear, jelly-like substance that fills the inside of the eye.

**Choroid:** Situated between the retina and the sclera, it's the vascular layer of the eye.

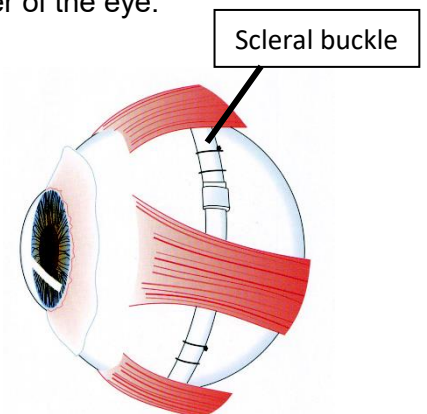
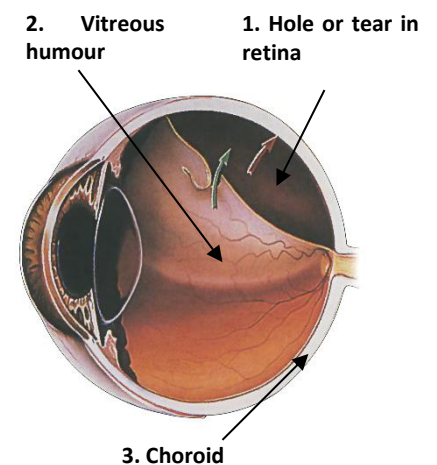
### Scleral Buckling Surgery

A silicone band is sewed to the sclera, under the eye muscles around the eye, to reposition the retina against the choroid.

The silicone band remains permanent, and is not apparent.

**Cryotherapy** (freezing the retina) or laser surgery will be used to seal the tear or hole in the retina

**Vitrectomy:** A vitrectomy is a type of eye surgery where the vitreous gel inside the eye is removed and replaced with a similar liquid, air, or gas.



## How to prepare for the surgery

### Organize your return home now

Make sure to have a family member or friend with you on the day of surgery, the first evening, and the following morning for your first follow-up appointment after surgery.

You must inform the preoperative clinic (validation office) in the following cases:

- A new diagnosis of diabetes
- Known diabetes, but with a change in medication
- Start of anticoagulation medication (blood thinner) and/or any change in your current medication or dosing of anticoagulants medication
- Recent hospitalization.

**To reach the validation office:** 418 525-4444 ext. 84705. Explain the reason for your call.

**To fax documents to the validation office:** 418 682-7937

### The morning of the surgery:

- No jewelry, piercings, or watch
- No perfume
- No nail polish or artificial nails
- **ABSOLUTELY NO false eyelashes**
- No makeup (mascara, lipstick, etc.)
- Follow the nurse's instructions for taking your medications
- You must be accompanied. Your companion must stay at the clinic during your surgery to avoid delays when it's time to leave.

### Postoperative Follow-Up Appointments:

Follow-up appointments are necessary after your surgery. The first visit will be the day after your surgery, and a second visit will be 1 to 2 weeks later. Subsequent appointments will be scheduled based on your condition. Make sure someone comes with you, because you won't be allowed to drive to these appointments.

### Eye Drops

- You will be prescribed eye drops to promote healing.
- Begin using the drops after your first medical visit the day after surgery.
- **Always bring your eye drops with you to your ophthalmologist appointments.**
- If you have any questions about your drops, please contact your pharmacist.

## Gaz injection/silicone oil

Gas has been injected into your eye during the surgery in order to apply pressure to the retina and promote healing (like a dressing).

Depending on the severity of the detachment, silicone oil (instead of gas) may be injected into your eye. If silicone oil was injected, this silicone oil will not reabsorb on its own, a second surgery will be necessary to remove it.

### IMPORTANT NOTICE

For the next 4-14 days, it **is very important to respect the positioning** prescription ordered by your doctor; it will allow the gas injected to cause maximal pressure on the healing retina.

You will not be able to see from the operate eye for the first few days after the surgery due to the presence of the gas in the eye. The improvement of vision will be very gradual.

As the gas will be absorbed, you will notice a bubble edge in your vision, similar to the bubble in a carpenter's level. Do not worry, it's normal.

The bubble might split in many smaller bubbles before disappearing completely.

**If you have gas in your eye, avoid air travel and being in places of high elevation of more than 2000 feet or 610 meters** (ex.: Parc des Laurentides, Parc des Grands Jardins).

At high altitude, the gas will expand and cause an increase of eye pressure and subsequent pain. The expansion of the gas can cause thrombosis in your eye and thus permanent loss of vision.

You must wait to have your doctor's authorisation before flying or travelling through these 2 parks (Parc des Laurentides, Parc des Grands Jardins)

### Duration of the gas or air in the eye

Air	4-5 days
SF6	10-21 days
C3F8	8-12 weeks

### General Recommendations after surgery:

- Sleep (including naps and nighttime) with the protective shield in place for 10–14 days, or as recommended by your doctor.
- Avoid rubbing your eyes during the first 2 weeks.
- Do not wear makeup around the eyes for 2 weeks.
- You may read, watch TV, and do your usual daily activities.
- Avoid any hit or injury to the eye, and be careful to prevent falls.
- You may take a bath, shower, and wash your hair.
- Avoid getting water directly into the operated eye.
- You can wear your glasses. Your ophthalmologist will let you know when they need to be adjusted (usually 6 weeks after surgery).
- Wear sunglasses if needed for your comfort.

### Pain Relief

Take non-narcotic pain medication (such as Tylenol®) regularly during the first few days if you feel pain.

Use narcotic pain medication only if needed, and only as prescribed by your doctor.

If you have questions about pain medication, please contact your pharmacist.

ACTIVITY	VITRECTOMY AND/OR SCLERAL BUCKLE
<b>Driving a motor vehicle</b>	Do not drive a car for the first few weeks (at least 2 weeks); wait until your doctor gives you authorization to drive.
<b>Resume sedentary occupations( exemple : office work)</b>	Depending on the healing process: between 4-6 weeks.
<b>Resume physial work</b>	After 4-6 weeks
<b>Lift objects</b>	Maximum of 10 pounds during 2 weeks and maximum of 25 pounds during 2-4 weeks.
<b>Sport activities</b>	Wait at least 2 months before resuming any sport activity. Get authorization from your doctor prior.

**N.B.: The length of recovery will be discussed with your doctor.**

Common side effects	
Effects of the drops	<ul style="list-style-type: none"> <li>The pupil of the eye will be dilated from the mydriatic drops (Cyclogyl)</li> <li>The effect can last a few days after the end of the treatment.</li> <li>You may feel a burning sensation, a bad taste in your mouth or a runny nose with the application of the drops.</li> </ul>
Effects of the surgery	<ul style="list-style-type: none"> <li>The conjunctiva and the eyelid will be red and inflamed (eyelid swollen, pink eye).</li> <li>You might have a bruise around the eye (black eye). You may feel a burning sensation, a feeling of tightness and pressure in the operated eye.</li> <li>You might have the feeling of having sand in your eye.</li> <li>The stitches, if there has, will dissolve and disappear by themselves.</li> </ul>
Effects of positioning	<ul style="list-style-type: none"> <li>Both your eyelids and your face can become swollen, especially if your positioning is on your stomach and face down.</li> <li>This should go away within a few days after the end of the required positioning.</li> </ul>
Effects of gas	<ul style="list-style-type: none"> <li>Vision will be blurry for a few weeks, and the improvement in vision will be gradual.</li> </ul>

**\*\* Vision may improve for up to a year after surgery \*\***

## Dry Eye

Retina surgery often increases eye dryness, especially during the first year after the procedure. You will likely need to use artificial tears regularly.

## Possible Complications

Cataract development is a known complication of vitrectomy. It may occur a few months to a few years after surgery.

Although very rare, more serious complications can happen. Some of these may require another surgery or can lead to complete vision loss.

- Intraocular infection
- Intraocular bleeding (hemorrhage)
- Formation of new retinal tears
- Recurrent retinal detachment
- Significant increase in eye pressure
- Irritation or inflammation of the surface of the eye
- Optic nerve atrophy
- Epiretinal membrane formation
- Scleral buckle intolerance
- Double vision
- Macular edema
- Drooping of the upper eyelid (also called ptosis)

**Be vigilant :**

If you experience **significant decrease in eyesight, or excessive pain or redness to the operated eye**, blind spots, light flashes in the operated eye (to see some small light is normal) and persisting nausea and vomiting, call us or present to the Emergency Room of the hospital to ensure proper follow-up as soon as possible.

**To contact us :****During the day, Monday to Friday**

At the ophthalmology clinic: 418 525-4444 ext. 84739

**Evening, nights and weekends :**

At any time in case of complications, present yourself at the Emergency Room of Saint-Sacrement Hospital.

**Personal notes :**

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This guide makes recommendations in accordance with the scientific information available at the time of its publication, i.e. april 25. However, these recommendations are in no way a substitute for the judgment of a clinician. If you have any questions, we invite you to contact your healthcare professional. If in one way or another you misuse the information contained in this document, the CHU de Québec cannot be held responsible for any damages of any kind in this regard.

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