

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

Pr LUCENTIS®

ranibizumab injection

Read this carefully before you start taking **Lucentis®** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **Lucentis**.

If you have difficulties with reading this document, ask someone for help with reading it.

What is Lucentis used for?

Lucentis is given as an injection into the eye by a healthcare professional under a local anesthetic.

In adults, Lucentis is used to treat damage to the retina (the light-sensitive back part of the eye) caused by growth of leaky abnormal blood vessels (choroidal neovascularization, CNV) in diseases that may cause decreased vision such as:

- Wet age-related macular degeneration (AMD),
- Diabetic macular edema (DME), or edema due to retinal vein occlusion (RVO), where fluid accumulates in the back of the eye, causing swelling (“edema”),
- CNV secondary to pathologic myopia (PM),
- CNV due to other causes.

In preterm infants, Lucentis is used to treat retinopathy of prematurity (ROP).

If you are the parent or guardian of a baby who is being treated with Lucentis, the following also applies to your baby.

Lucentis has been shown to slow down the progression of vision loss, improve vision, as well as the ability to perform related activities (e.g. reading, driving, etc.).

For the following indication Lucentis has been approved **with conditions** (NOC/c). This means it has passed Health Canada’s review and can be bought and sold in Canada, but the manufacturer has agreed to complete more studies to make sure the drug works the way it should. For more information, talk to your healthcare professional.

- treat retinopathy of prematurity (ROP) with zone I [stage 1 with plus disease (1+), stage 2 with plus disease (2+), or stage 3 with or without plus disease (3 or 3+)], or zone II [stage 3 with plus disease (3+)] or aggressive posterior ROP (AP-ROP) disease.

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- Diabetic macular edema (DME), or edema due to retinal vein occlusion (RVO), where fluid accumulates in the back of the eye, causing swelling (“edema”),
- CNV secondary to pathologic myopia (PM),
- CNV due to other causes.

What is a Notice of Compliance with Conditions (NOC/c)?

A Notice of Compliance with Conditions (NOC/c) is a type of approval to sell a drug in Canada.

Health Canada only gives an NOC/c to a drug that treats, prevents, or helps identify a serious or life-threatening illness. The drug must show promising proof that it works well, is of high quality, and is reasonably safe. Also, the drug must either respond to a serious medical need in Canada, or be much safer than existing treatments.

Drug makers must agree in writing to clearly state on the label that the drug was given an NOC/c, to complete more testing to make sure the drug works the way it should, to actively monitor the drug’s performance after it has been sold, and to report their findings to Health Canada.

How does Lucentis work?

The active substance in Lucentis is ranibizumab which is part of an antibody. Antibodies are proteins which specifically recognize and bind to other unique proteins in the body.

Ranibizumab binds selectively to all active forms of a protein called human vascular endothelial growth factor A (VEGF-A), which is present in the retina. Ranibizumab helps to stop the growth and leakage of new blood vessels in the eye, abnormal processes that contribute to several eye diseases that may cause decreased vision.

What are the ingredients in Lucentis?

Medicinal ingredient: The active substance in Lucentis is ranibizumab.

Non-medicinal ingredients: α,α -trehalose dihydrate; histidine hydrochloride monohydrate; histidine; polysorbate 20; water for injection.

Lucentis contains no preservatives.

Lucentis comes in the following dosage forms:

Vial (adults and preterm infants):

Lucentis is a solution for injection supplied in a clear, colourless glass vial. The vial contains 0.23 mL of a sterile clear colourless to pale yellow to brown solution.

Lucentis is supplied as a pack containing one glass vial of ranibizumab with chlorobutyl rubber stopper and one filter needle for withdrawal of the vial contents.

Pre-filled syringe (adults only):

Lucentis is a solution for injection supplied in a pre-filled syringe. The pre-filled syringe contains

0.165 mL of a sterile, clear, colourless to pale yellow to brown aqueous solution.

Lucentis is supplied as packs containing one sterile pre-filled syringe.

Do not use Lucentis if:

- you are allergic to ranibizumab or any of the other ingredients of Lucentis listed above. If you think you may be allergic, ask your healthcare professional for advice.
- you have already experienced an allergic reaction tell your healthcare professional before receiving Lucentis.
- you have or suspect you have an infection in or around your eye.
- you have pain or redness in your eye.

If any of these apply to you tell your healthcare professional. You should not be given Lucentis.

Your baby must not receive Lucentis if:

- your baby is allergic to ranibizumab or any of the other ingredients of this medicine listed above.
- your baby has an infection in or around his/her eye.
- your baby has pain or redness in his/her eye.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you or your baby receive(s) Lucentis.

The warnings and precautions for adults also apply to preterm infants with ROP.

Potential systemic suppression of VEGF cannot be excluded following intravitreal administration of ranibizumab in premature infants with ROP.

The long-term safety profile in preterm infants with ROP has not been established.

Take special care with Lucentis:

- **Inform your healthcare professional if you have already had a stroke or experienced short-lasting signs of stroke (weakness or paralysis of limbs or face, difficulty speaking or understanding). This information will be taken into account to evaluate if Lucentis is the appropriate treatment for you.**
- Lucentis is given as an injection into the eye. Occasionally, an infection in the internal portion of the eye, pain or redness, detachment or tear of retina, or clouding of the lens may occur after Lucentis treatment. It is important to identify and treat such a type of infection or retinal detachment as soon as possible. Please tell your healthcare professional immediately if you develop signs such as eye pain or increased discomfort, worsening eye redness, blurred or decreased vision, an increased number of small particles in your vision or increased sensitivity to light.
- In some patients the eye pressure may increase for a short period directly after the injection. There have also been reports of a long-lasting increase in eye pressure. This is something you may not notice; therefore your healthcare professional should check for this after each injection.
- Non-ocular hemorrhages have been reported after Lucentis treatment.

If you notice any changes after you have been given Lucentis, **please inform your healthcare**

professional immediately.

Talk to your baby's healthcare professional before your baby is given Lucentis.

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- In some patients the eye pressure may increase for a short period directly after the injection. Your baby's doctor may monitor this after each injection.
- Neurodevelopment impairment have been reported in preterm infants treated for ROP with anti-VEGF, including Lucentis.

If you notice any changes after your baby has been given Lucentis, **please inform your baby's healthcare professional immediately.**

BEFORE you receive Lucentis talk to your healthcare professional or pharmacist if:

- you are pregnant or planning to become pregnant. There is no clinical data on the use of Lucentis in pregnant women. Pregnancy should be avoided until at least three months after finishing Lucentis treatment. You should discuss with your healthcare professional the potential risk of Lucentis during pregnancy.
- you are using or plan to use birth control during treatment with Lucentis.
- you are breast-feeding. Lucentis is not recommended during breast-feeding because Lucentis passes into human milk. Ask your healthcare professional or pharmacist for advice before Lucentis treatment.

The use of Lucentis in children and adolescents has not been studied and is therefore not recommended.

Tell your healthcare professional about all the medicines you or your baby take(s), including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with Lucentis:

No relevant interactions are known.

How to receive Lucentis:

All Lucentis injections will be administered by your healthcare professional.

Follow your healthcare professional's instructions carefully.

If you are treated for wet age-related macular degeneration, the injection is given once a month in the first 3 months. Afterwards, your healthcare professional will continue to check your vision and the frequency of dosing can be between 1 and 3 months. Lucentis given every 3 months was not as effective as when given once a month.

If you are treated for visual loss due to diabetic macular edema or macular edema in RVO, the injection is given once a month. Your healthcare professional will monitor your vision monthly. If

your vision remains the same while you are being given Lucentis treatment, your healthcare professional may decide to stop the treatment with Lucentis. Your healthcare professional will continue to monitor your vision monthly and will decide if treatment with Lucentis should be resumed or not. Your healthcare professional may decide that you also need to be treated with laser for these conditions, if so, laser treatment can be administered together with Lucentis.

If you are treated for visual loss due to CNV secondary to PM, the treatment is started with one injection of Lucentis. Your healthcare professional will continue to monitor the condition of your eye. Depending on how you respond to the treatment, your healthcare professional will decide whether and when you need to receive the next injection of Lucentis.

If you are treated for visual loss due to CNV, the treatment is started with one injection of Lucentis. Your healthcare professional will continue to monitor frequently the condition of your eye. Depending on how you respond to the treatment, your healthcare professional will decide whether and when you need to receive the next injection of Lucentis.

Before the injection, your healthcare professional will use an eye drop that kills germs or wash your eye carefully to prevent infection. Your healthcare professional will also give you a local anesthetic to reduce or prevent any pain you might have with the injection.

If your baby is treated for retinopathy of the prematurity (ROP), Lucentis is administered as a single injection into your baby's eyes by the eye doctor under a local anaesthetic. If ROP is present in both eyes, a second injection of Lucentis can be given to your baby on the same day. The usual dose of an injection is 0.01 ml (which contains 0.1 mg of active substance). The interval between two doses injected into the same eyes should be at least four weeks. All injections will be administered by the eye doctor.

Before the injection, your baby's healthcare professional will wash your baby's eyes carefully to prevent infection. The healthcare professional will also give your baby a local anaesthetic to reduce or prevent any pain it might have with the injection.

The healthcare professional will monitor the condition of your baby's eye and, depending on how your baby responds to the treatment, will decide if and when your baby will need to receive further injection of Lucentis.

If you have further questions on the use of this product, ask your healthcare professional or your baby's healthcare professional.

Usual dose:

Lucentis is given as a single injection into your eye. For adults, the usual dose is 0.05 mL (which contains 0.5 mg of medicine). In preterm infants, the usual dose is 0.01 mL (which contains 0.1 mg of medicine). The time between two doses injected into the same eye should not be shorter than one month.

Older people (65 years or above): Elderly people can receive Lucentis without adjusting the dose.

Overdose:

If you think you, or a person you are caring for, have been given too much Lucentis, contact your healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you forget to attend an appointment

Contact your healthcare professional or hospital as soon as possible to reschedule your appointment.

Before stopping Lucentis treatment

If you are considering stopping Lucentis treatment, please go to your next appointment and discuss this with your healthcare professional. Your healthcare professional will advise you and decide how long you should be treated with Lucentis.

If you are considering stopping Lucentis treatment for your baby, please go to your next appointment and discuss this with your baby's healthcare professional. Your baby's healthcare professional will advise you and decide how long your baby should be treated with Lucentis.

What are possible side effects from using Lucentis?

As with all medicines, patients treated with Lucentis may experience side effects, although not everybody gets them. These are not all the possible side effects you may feel when receiving Lucentis. If you experience any side effects not listed here, contact your healthcare professional.

With administration of Lucentis, there may be some side effects, mostly in the eye and due to the injection procedure. Occasionally an infection in the internal portion of the eye, detachment or tear of the retina, or clouding of the lens may occur in the two weeks after Lucentis treatment. Other side effects include pain or redness and increased eye pressure. The symptoms you might experience are described in the "[Do not use Lucentis if](#)" section. Please read this section. It tells you what to do if you have any of these symptoms.

The most common side effects in babies born prematurely are described below:

Visual side effects include: Bleeding in the back of the eye (retinal bleeding), bloodshot eye (conjunctival bleeding), bleeding into the thick fluid that fills the center of the eye (vitreous hemorrhage) and inflammation or infection of the transparent membrane (conjunctivitis).

Non-visual side effects include fever, nasal congestion, runny nose and cough (upper respiratory tract infection), low red blood cell counts (with symptoms such as tiredness, breathlessness, pale skin), urinary tract infection, allergic reactions like rash and skin reddening, diarrhea and slow heart rate (bradycardia).

Additional side effects that have been observed with Lucentis in adults are listed below. These side effects may also occur in babies born prematurely.

Very common side effects *(These may affect more than 1 in every 10 patients)*

The most common side effects in the eye reported to be possibly caused by the medicinal product or by the injection procedure include:

- bloodshot eye

- eye pain
- seeing spots or cobwebs (floaters)
- increased pressure inside the eye
- displacement of the jelly-like portion inside the eye (vitreous body)
- swelling of the eye
- blurred vision
- eye irritation
- clouding of the lens
- a feeling of having something in the eye
- vision change
- swelling or infection of the rim of the eye
- formation of fibrous tissue under the retina
- redness of the eye
- blurred or decreased sharpness of vision
- dry eye
- inflammation of the jelly-like portion inside the eye
- temporary blindness
- increased tear production
- itching of the eye
- detachment of a layer of the retina

The most common non-visual side effects reported to be possibly caused by the medicinal product or by the injection procedure include:

- headache
- elevated blood pressure
- sore throat
- pain in the joints

Common side effects *(These may affect between 1 and 10 in every 100 patients)*

Other common side effects in the eye reported to be possibly caused by the medicinal product or by the injection procedure include:

- discomfort of the eye
- clouding of a part of the lens
- deposits in the back of the eye
- infection of the surface of the eye
- changes in the part of the retina responsible for central vision
- bleeding in the back of the eye
- degeneration of the retina
- small scratches on the cornea (front part of the eye)
- bleeding in the eye or at the site of injection
- tear or detachment of the retina
- redness of the eye
- light sensitivity
- swelling of the eyelid
- eyelid pain
- eye discharge

- bleeding in the jelly-like portion inside the eye

Other common non-visual side effects reported to be possibly caused by the medicinal product or by the injection procedure include:

- stroke
- infection of the lower part of the airways
- reduced number of red blood cells (you may experience tiredness, breathlessness, dizziness, pale skin)
- feeling of tension or fullness in the nose, cheeks and behind the eyes sometimes with a throbbing ache
- urinary tract (bladder) infection
- flu
- cough
- nausea
- back pain
- inflammation of the joints
- fatigue
- general feeling of being unwell
- allergic reactions (rash, hives, itching, skin reddening)
- changes in heart rhythm

Uncommon side effects *(These may affect between 1 and 10 in every 1000 patients)*

Uncommon side effects in the eye reported to be possibly caused by the medicinal product or by the injection procedure include:

- irritation and edema of the eyelids
- blindness
- inflammatory deposits in the front part of the eye
- reactions at the site of injection
- abnormal sensation in the eye
- blurred vision with light sensitivity
- Double vision
- Visual loss
- Distorted vision
- Serious allergic reaction

Other uncommon non-visual side effects reported to be possibly caused by the medicinal product or by the injection procedure include:

- wheezing
- increased secretion of the upper airways
- inflammatory disease of the skin
- heart attack
- inflammation of the sinuses
- increased skin sensitivity
- feeling faint
- low blood sugar
- anxiety

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
COMMON			
Pain or redness in the eye		√	
Detachment of the layer in the back of the eye		√	
Tear of the layer in the back of the eye		√	
Increased pressure in the eye		√	
Signs of stroke, such as weakness or paralysis of limbs or face, difficulty speaking or understanding. If you experience these signs, please go to the hospital emergency as immediate medical care is needed.		√	
Signs of non-ocular hemorrhage, such as black or tarry stool, vomit that looks like coffee grounds, weakness, headache of abrupt onset, nausea and vomiting, purplish bruises on the skin, etc		√	
UNCOMMON			
Infection in the eye		√	
Clouding of the lens		√	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Driving and using machines: After Lucentis treatment you may experience some short term vision blurring. If this happens, do not drive or use machines until this resolves.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on [Adverse Reaction Reporting](https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html) (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Do not use Lucentis after the expiry date which is stated on the carton and label after EXP. The expiry date refers to the last day of that month.
- Do not use any pack that is damaged.

Vial:

- Store in a refrigerator (2°C – 8°C). DO NOT FREEZE.
- Prior to use, the unopened vial may be kept at room temperature (25°C) for up to 24 hours.
- Keep the vial in the outer carton in order to protect from light.

Pre-filled syringe:

- Store in a refrigerator (2°C – 8°C). DO NOT FREEZE.
- Prior to usage, the unopened tray may be kept at room temperature (25°C) for up to 24 hours.
- Keep the pre-filled syringe in its sealed tray in the carton in order to protect from light.

If you want more information about Lucentis:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the [Health Canada website](https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html); the manufacturer's website www.novartis.ca, or by calling 1-800-363-8883.

This leaflet was prepared by Novartis Pharmaceuticals Canada Inc.

Last Revised: September 28, 2022

Novartis version: March 14, 2023

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