

Your guide to therapy with ranibizumab for proliferative diabetic retinopathy (PDR) and/or visual impairment due to diabetic macular edema (dME)

Novartis Pharmaceuticals Ophthalmology Franchise





This booklet has been created to help you better understand ranibizumab when used for the treatment of proliferative diabetic retinopathy (PDR) and/or visual impairment due to diabetic macular edema (DME)

Section 1 - What is ranibizumab?



What is ranibizumab?

- In PDR and DME, damage to the retina (the light-sensitive layer at the back of the eye) results from the growth of new, abnormal, leaky blood vessels¹²
- In DME, vision loss is predominantly caused by macular edema (swelling of the center of the retina)^{2,3}
- Ranibizumab is a licensed prescription medicine for the treatment of patients with PDR and/or DME⁴
- Ranibizumab is specifically designed to block new blood vessel growth in the eye, and so in turn can help to stop leakage and vision loss⁵

Section 2 – What is proliferative diabetic retinopathy (PDR) and diabetic macular edema (DME)?



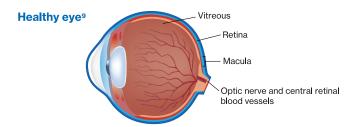
What is proliferative diabetic retinopathy (PDR) and diabetic macular edema (DME)?

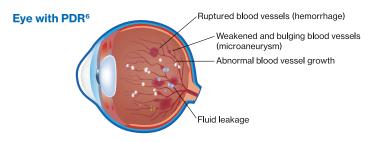
- Diabetic retinopathy (DR) is a common eye condition caused by diabetes that is classified as either non-proliferative DR (early-stage disease) or proliferative DR (end-stage disease).³PDR can severely threaten vision, particularly in the later stages³
- DME is an additional complication of diabetes that may accompany any stage of DR.³This condition can also cause vision problems.⁶ Uncontrolled high blood sugar levels can damage the blood vessels in the retina,⁷ the light-sensitive part in the back of your eye that gathers images.² DME occur when blood vessels in the macula are affected.⁶ The macula is the small indent on the retina that helps you see fine details.⁸

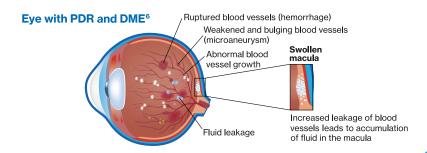




- PDR and DME can develop in anyone who has type 1 or type 2 diabetes.^{2.6} The longer you have diabetes, and the less controlled your blood sugar level is, the more likely you are to develop these eye conditions⁶
- Changes in the eye due to PDR and/or DME that are treated with ranibizumab can include:⁶
 - Abnormal blood vessel growth
 - Leakage of fluid from blood vessels
 - Weakened and bulging blood vessels (microaneurysms)
 - Rupture of blood vessels (hemorrhages)







Section 3 - How are retinal diseases diagnosed?



How are retinal diseases diagnosed?

- There is a range of different techniques used to examine the eye. These can be divided into two broad categories depending on what they examine:¹⁰
 - Eye function: these include techniques assessing vision, e.g. vision charts
 - Eye structure: these techniques examine the tissues of the eye for damage or disease
- As well as the standard tests (vision charts, examination of the eye with a handheld device, etc.)^{10.6} additional techniques are employed to examine eye blood vessels and tissues⁶
- Fluorescein angiography is a technique used to visualize the blood vessels at the back of the eye^{10,11}
 - First, the doctor will dilate your pupils with some eye drops
 - Next, a yellow dye will be injected into your arm (this makes the blood vessels in your eyes glow brightly when a certain type of light is shone on them)
 - A series of photographs is taken
- Optical coherence tomography is a commonly used technique that produces cross-sectional images of the back of the eye^{6.11,12}
 - This is a non-invasive technique¹² that just requires you to keep your head still and look into a machine while detailed images of your retina are taken without needing to touch your eye

Section 4 - How is ranibizumab treatment given?



How is ranibizumab treatment given?

• Ranibizumab is given by your ophthalmologist (eye doctor) as an injection into the eye





- It is normal to worry about such injections, but patients have reported that most often the injection is virtually painless and sounds worse than it is¹³
 - The majority of patients reported that any apprehensions about injections dissipated after the first injection¹³



What will happen at my appointment?

- On the day of your treatment, care will be taken to make sure you are relaxed and comfortable
- Before receiving ranibizumab, you should inform your doctor if you have had a stroke or
 experienced transient signs of stroke (weakness or paralysis of limbs or face, difficulty
 speaking or understanding) so that it can be decided whether this is the most
 appropriate treatment for you
- Tell your doctor if you are taking or have recently taken any other medicines, including medicines obtained without prescription
- A doctor or nurse will:
 - Cover your face and the area around the eye with a special drape
 - Clean your eye and the skin around it
 - Hold your eye open so you don't blink
 - Numb your eye with an anesthetic to prevent pain
- The doctor will then give the injection into the white part of your eye. You may feel a little
 pressure with the injection
- It's important to tell your doctor if you:
 - Have an eye infection
 - Have any pain or redness in your eye
 - Think you may be allergic to ranibizumab or to Betadine^{®†} (iodine)

Section 5 - After treatment



What will happen after I receive my ranibizumab injection?

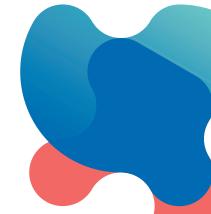
- Your doctor will perform eye tests, such as measuring the pressure in your eye, to make sure the treatment went well
- The white area of the eye, where the injection is given, will likely be red
 - This redness is normal and it will go away in a few days
 - Contact your doctor if it does not go away or gets worse

- You may see a few spots or 'floaters' in your vision
 - These spots are normal and should go away in a few days
 - Contact your doctor if they do not go away or get worse
- Your pupils will be dilated for the injection, and this can make it difficult for you to see for a few hours after the treatment
 - You should not drive until your vision has returned to normal
- It is important to monitor for any changes in the condition of your eye and your overall wellbeing in the week following your injection
- Rarely, injections in the eye can cause infection
- Contact your doctor as soon as possible if you have any of the following signs and symptoms in your eye:
 - Pain
 - Light sensitivity/tearing
 - Swollen lids or other swelling
 - Increasing redness
 - Blurred, distorted or sudden loss of vision
 - Light flashes
 - Seeing flies, black spots or colored halos
 - Drying of the surface of your eye
- If you notice any side effects not listed in this leaflet, tell your doctor or pharmacist



How long will I need to continue ranibizumab treatment?

- Every patient is different. It is likely that you will need additional ranibizumab injections, but this will depend on how you respond to treatment and how your vision changes
- Talk with your doctor about your results and your feelings about your treatment
- It is important to keep attending your eye doctor appointments
 - -The best way to protect your independent lifestyle and your vision is to visit your doctor on a regular basis
 - -Be sure to discuss your treatment options with your doctor
- If you are considering stopping treatment with ranibizumab, ask your doctor for advice first
- For any further questions on the use of this product, please ask your doctor



 Follow all your doctor's instructions carefully. They may differ from the general information in this leaflet

Your doctor will decide how often they wish to see you to monitor your condition and determine if you need additional injections



Always go to every appointment that your doctor arranges for you

If you miss an appointment for ranibizumab treatment, contact your doctor as soon as possible



What can I do to help improve my visual impairment?

- Monitor your own vision regularly
 - At home, take note of any changes in your vision
 - Be proactive and tell your doctor or nurse if you notice any changes
- Dealing with changes in your vision can be difficult it's OK to ask for support
 - Talk with family and friends about your vision, and let them know if you are having trouble reading, getting around, taking medication or doing housework
 - If you don't have family or friends who can help, ask at your doctor's office about support services
- Take care of your diabetes
 - High blood sugar levels make it more likely for PDR and DME to get worse and increase the risk of visual impairment due to DME^{14,15}
 - Controlling your blood sugar levels is an important part of maintaining your vision and getting the most out of your treatment¹⁵
- There are many things that you and your healthcare team can do to manage your diabetes
 - Regularly monitor your blood sugar levels as instructed by your doctor¹⁵
 - Take your medication as directed.¹⁴Taking all of your medications correctly, both for diabetes and for your PDR and/or visual impairment due to DME, will give you the best results
 - Manage your diet with your healthcare team.^{14,16} Your doctor can tell you what you should and should not eat and when you should eat





Adjust your lifestyle

 You should eat a balanced diet because it is good for your body and overall health, which is, in turn, good for your eyes^{14,16}

Keep this booklet; you may need to read it again



If you have any further questions, ask your doctor or pharmacist

If you experience any signs or symptoms that you consider to be associated with the use of ranibizumab, but are not listed in this booklet, please tell your doctor

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Risk management plan V.21

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If you want to report a side effect, click the following link: https://www.report.novartis.com/es or via e-mail to: seguridad.clinica@novartis.com

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