# Your guide to therapy with Beovu® (brolucizumab)

For the treatment of neovascular (wet) age-related macular degeneration (AMD) and diabetic macular edema (DME)

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# What is neovascular (wet) agerelated macular degeneration (AMD)?

Wet AMD occurs when abnormal blood vessels form and grow underneath the macula. The macula, which is at the back of the eye, is responsible for clear vision. The abnormal blood vessels may leak fluid or blood into the eye and interfere with the macula's function, resulting in decreased vision.

# What is diabetic macular edema (DME)?

DME is a progressive disease caused by diabetes, which can lead to irreversible vision loss or blindness. Damaged blood vessels in the eye can cause fluid to leak into the macula. The macula is responsible for central vision and is the part of your eye used for things like reading, driving, and recognizing faces.

# Why have I been prescribed Beovu®?

Beovu contains the active substance brolucizumab, which belongs to a group of medicines called anti-neovascularization agents.

A substance called vascular endothelial growth factor A (VEGF-A) causes the growth of blood vessels in the eye. By attaching to VEGF-A, Beovu blocks its effect and reduces the growth of abnormal blood vessels in wet AMD and DME, which in turn reduces the leakage of fluid or blood in the eye.

### How is Beovu administered?

- Beovu is injected into your eye (intravitreal injection) by your doctor
- Your doctor will do some eye tests after your injection. These tests may include measuring the pressure inside your eye or assessing the condition of your optic nerve

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## What to expect after treatment

Sometimes, after an intravitreal injection such as Beovu<sup>®</sup>, the following may occur:

- An uncommon severe inflammation (endophthalmitis), usually associated with infection, inside the eye or a detachment of one of the layers in the back of the eye (retinal detachment/tear)
- A temporary increase in eye pressure (intraocular pressure), which is common but usually without symptoms; the doctor needs to do measurements of the pressure inside the eye to detect this

## Important risk information

- Inflammation of the blood vessels in the retina (retinal vasculitis) and/or blockage of the blood vessels in the eye (retinal vascular occlusion), or a less severe inflammation in the eye (intraocular inflammation) may occur. You may be more at risk if you are female or of Japanese ethnicity
  - If you have had intraocular inflammation and/or retinal vascular occlusion in the last year, you are at increased risk of developing retinal vasculitis and/or retinal vascular occlusion
- An immune response (immunogenicity) is possible

# What to expect after treatment (cont)

Seek immediate medical help if you experience any of the following:



A sudden decrease or change in your vision



New or increased number of floaters (small particles in vision)



Overall redness of the eye



New or persistent eye pain or worsening eye discomfort



Flashes of light or increased sensitivity to light (discomfort from bright lights)

# What can I do after my treatment?

- After your injection, your vision may be temporarily affected (for example, blurred vision). Do not drive or use machines as long as these side effects last
- Be proactive and tell your doctor or nurse if you notice any changes to your vision
- It is important to follow the visit schedule recommended by your doctor

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#### BEOVU

Important note: Before prescribing, consult full prescribing information.

Presentation: Solution for injection. Each vial contains 27.6 mg of brolucizumab in 0.23 mL solution. Each pre-filled syringe contains 19.8 mg of brolucizumab in 0.165 mLsolution Indications: Beovu is indicated for the treatment of

neovascular (wet) age-related macular degeneration (AMD).

visual impairment due to diabetic macular oedema (DME)

visual impairment due to diabette macuiar occurria (Diale).
 Dosage regimen and administration:
 Beovu must be administered by a qualified ophthalmologist experienced in intravitreal injections

Posology
Wet AMD
The recommended dose is 6 mg brolucizumab (0.05 ml solution) administered by intravitreal injection every 4 weeks

(monthly) for the first 3 doses. Thereafter, the physician may individualise treatment intervals based on disease activity as assessed by visual acuity and/or anatomical parameters. A disease activity assessment is suggested 16 weeks (4 months) after treatment start. In patients without disease activity, treatment every 12 weeks (3 months) should be considered. In patients with disease activity, treatment every 8 weeks (2 months) should be considered (see sections 4.4 and 5.1). If visual and anatomical outcomes indicate that the patient is not benefiting from continued treatment, Beovu should

be discontinued.

DME The re ded dose is 6 mg brolucizumab (0.05 ml solution) administered by intravitreal injection every 6 weeks for the first 5 doses. Thereafter, the physician may individualise treatment intervals based on disease activity as assessed by visual acuity and/or anatomical parameters. In patients without disease activity, treatment every 12 weeks (3 months) should be considered. In patients with disease activity, treatment every 8 weeks (2 months) should be considered.

If visual and anatomical outcomes indicate that the patient is not benefiting from continued treatment, Beovu should be discontinued.

#### Special populations Elderly

No dosage adjustment is required in patients aged 65 years or above (see section 5.2).

Renal impairment

No dosage adjustment is required in patients with renal impairment (see section 5.2).

Hepatic impairment

Repair. impairment Brolucizumab has not been studied in patients with hepatic impairment. No dosage adjustment is required in patients with hepatic impairment (see section 5.2).

Paediatric population
The safety and efficacy of brolucizumab in children and adolescents below 18 years of age have not been established. No data are available.

Method of administration

Beovu is for intravitreal use only.

The solution for injection should be inspected visually prior to administration (see section 6.6).

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should be administered prior to the injection.

The injection needle should be inserted 3.5 to 4.0 mm posterior to the limbus into the vitreous cavity, avoiding the

ne mjection necelie should be inserted 3.5 to 4.0 mm posterior to the limbus into the vitreous cavity, avoiding the obtrivatial meridian and aiming towards the center of the globe. The injection volume of 0.05 ml is then delivered slowly; a different soleral site should be used for subsequent injections. Immediately following the intravitienal injection, patients should be monitored for elevation in intraocular pressure. Appropriate monitoring may consist of a check for perfusion of the optic nerve head or tonometry. If required, sterile equipment for paracentesis should be available.

Following intravitreal injection patients should be instructed to report any symptoms suggestive of endophthalmitis

nin, redness of the eye, photophobia, blurring of vision) without delay. Pre-filled syringe
The pre-filled syringe is for sin
Since the volume contained in

The pre-filled syning is for single use only. Each pre-filled syringe should only be used for the treatment of a single eye. Since the volume contained in the pre-filled syringe (0.165 ml) is greater than the recommended dose (0.05 ml), a portion of the volume co-filled syringe must be discarded port to administration.

slided yring must be discusted proor in damanstration. Injecting the entire volume of the pri-cilled syringe could result in overdose. To expel the air bubble along with excess medicinal product, the plunger should be slowly depressed until the edge below the dome of the rubber stopper is aligned with the OSS mil dose mark (equivalent to 50 µl, i.e. of mg brotheziramab). <u>Vial</u>
The vial is for single use only. Each vial should only be used for the treatment of a single eye.
Since the volume contained in the vial (0.23 ml) is greater than the recommended dose (0.05 ml), a portion of the

volume contained in the vial must be discarded prior to administration.

Injecting the entire volume of the vial could result in overdose. To expel the air bubble along with excess medicinal product, the air should be carefully expelled from the syringe and the dose adjusted to the 0.05 ml mark (equivalent to

50 μl, i.e. 6 mg brolucizumab).

Contraindications: •Hypersensitivity to the active substance or to any of the excipie

Active or suspected ocular or periocular infection.
 Active intraocular inflammation.
 Warnings and precautions:

Traceability In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded. Endophthalmits, intraocular inflammation, traumatic cataract, retinal detachment, retinal tear, retinal vasculitis,

and/or retinal vascular occlusion
Intravitreal injections, including those with Beovu, have been associated with endophthalmitis, intraocular
inflammation, traumatic cataract, retinal detachment and retinal tear (see section 4.8). Proper aseptic injection

inflammation, trailimatic cataract, remai detaciment and remai tera (see section 4.8), Proper aseptic injection techniques must always be used where administering Beoviu.

Patients should be instructed to report any symptoms suggestive of the above-mentioned events without delay. Intraocular inflammation, including retiral vasculita and/or retiral vascular occlusion. In the contraction of the properties of the properties of the properties of the properties where the

the treatment.

Based on clinical studies these ever
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occlusion (within 12 months prior to the first brolucizumab injection) should be closely monitored, since they are at

increased risk of developing retinal vasculitis and/or retinal vascular occlusion.

The interval between two Boovu does during maintenance treatment should not be less than 8 weeks considering that a higher incidence of intraocular inflammation (including retinal vasculitis) and retinal vascular occlusion was reported in patients with nAMD who received Beovu every 4 week maintenance dosing in a clinical study compared to patients who received Beovu every 8 or 12 week maintenance dosing in the pivotal Phase III clinical studies. Intraocular pressure increases

Transient increases in intraocular pressure have been seen within 30 minutes of intravitreal injection with vascular endothelial growth factor (VEGF) inhibitors, including broluciantal see section 48.8, Special production is needed in patients with poorly controlled glaucoma (do not inject Beovu while the intraocular pressure is 250 mtnlg). Both intraocular pressure and perfision of the optic nerve head must be monitored and managed appropriately.

Immunogenicity
As this is a therapeutic protein, there is a potential for immunogenicity with brolucizumab (see section 4.8). Patients should be instructed to inform their physician if they develop symptoms such as eye pain or increased discomfort, worsening eye redness, blurred or decreased vision, an increased number of small particles in their vision, or increased sensitivity to light (see section 4.8). Concomitant use of other anti-VEGF

There are no data available on the concomitant use of Beovu with other anti-VEGF medicinal products in the same Proceedings of the Concommand use of Decora with other anti-VEGF medicinal products in the same eye. Brolucizumab should not be administered concurrently with other anti-VEGF medicinal products (systemic of ocular).

#### Withholding treatment

In intravitreal anti-VEGF treatments, the dose should be withheld and treatment should not be resumed earlier than the next scheduled treatment in the event of:

- a decrease in best-corrected visual acuity (BCVA) of≥30 letters compared with the last assessment of visual
- a retinal break;
- a subretinal haemorrhage involving the centre of the fovea, or, if the size of the haemorrhage is ≥50% of the total performed or planned intraocular surgery within the previous or next 28days.

Retinal pigment epithelial tear
Risk factors associated with the development of a retinal pigment epithelial tear after anti-VEGF therapy for wet AMD include a large and/or high pigment epithelial retinal

detachment. When initiating brolucizumab therapy, caution should be used in patients with these risk factors for retinal pigment epithelial tears.

Treatment should be discontinued in subjects with rhegmatogenous retinal detachment or stage 3 or 4 macular holes

Systemic effects following intravited use:
Systemic adverse events, including non-ocular haemorrhages and arterial thromboembolic events, have been reported following intravited accidence of the first many through the proported following intravited injection of VEGF inhibitors and there is a theoretical risk that these may relate to VEGF inhibition. There are limited data on safety in the treatment of patients with AMD and DME with a history of stroke, transient ischaemic attacks or myocardial infarction within the last 3 months. Caution should be exercised stroke, transient ischaemic a when treating such patients.

Sodium content
This medicinal product contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially "sodium-free".

Populations with limited data

There is limited experience with Beovu treatment in diabetic patients with HbAI c greater than 10% or with
proliferative diabetic retinopathy. There is also no experience of treatment with Beovu in diabetic patients with
uncontrolled hypertension. This lack of information should be considered by the physician when treating such nationts

#### Pregnancy, lactation, females and males of reproductive potentia

Women of childbearing potential
Women of childbearing potential should use effective contraception during treatment with brolucizumab and for at
least one month after the last dose when stopping treatment with brolucizumab. Pregnancy

There are no or limited amount of data from the use of brolucizumab in pregnant women. A study in pregnant cynomolgus monkeys did not indicate any harmful effects with respect to reproductive toxicity. Animal studies are insufficient with respect to reproductive toxicity (see section 5.3). Although the systemic exposure after ocular administration is very low due to its mechanism of action, there is a potential risk to embryofoetal development. Therefore, brolucizumab should not be used during pregnancy unless the potential benefit outweighs the potential risk to the foetus.

#### Breast-feeding

It is unknown whether brolucizumab is excreted in human milk. In a reproductive toxicity study, brolucizumab was not detected in the maternal milk or infant serum of cynomolgus monkeys (see section 5.3). A risk to the breast-fed newborn/infant cannot be excluded.

Robucizumab is not recommended during breast-feeding and breast-feeding should not be started for at least one month after the last dose when stopping treatment with brobucizumab. A decision must be made whether to discontinue breast-feeding or to abstain from brobucizumab therapy, taking into account the benefit of breast-feeding or to abstain from brobucizumab therapy, taking into account the benefit of breast-feeding or the start of the sta for the child and the benefit of therapy for the woman. Fertility

No reproductive or fertility studies have been conducted. VEGF inhibition has been shown to affect follocular development, corpus luteum function and fertility. Based on the mechanism of action of VEGF inhibitiors, there is a potential risk for female reproduction.

#### Adverse drug reactions:

Summary of the safety profile

decreasing seriousness

For wet AMD, a total of 1,088 patients treated with brolucizumab constituted the safety population in two Phase III studies. Of these, 730 patients were treated with the recommended dose of 6 mg.

The most frequently reported adverse reactions were reduced visual acuity (7.3%), cataract (7.0%), conjunctival

haemorrhage (6.3%) and vitreous floaters (5.1%). The most serious adverse reactions were blindness (0.8%), endophthalmitis (0.7%), retinal artery occlusion (0.8%)

and retinal detachment (0.7%). <u>DME</u> For DME, a total of 558 patients treated with brolucizumab constituted the safety population in two Phase III studies.

Of these, 368 patients were treated with the recommended dose of 6 mg.

The most frequently reported adverse reaction was conjunctival haemorrhage (5.7%).

The most serious adverse reactions were treinal artery occlusion (0.5%) and endophthalmitis (0.3%).

Tabulated list of adverse reactions
The adverse reactions experienced following administration of Beovu in cli Adverse reactions (Table 1) are listed according to the MedDRA system organ class. Within each system organ class, the adverse reactions are ranked by frequency, with the most frequent reactions first. Frequency categorie each adverse reaction are based on the following convention: very common ( $\geq$ 1/10), common ( $\geq$ 1/100 to <1/100), uncommon ( $\geq$ 1/1,000 to <1/10,000, very rare (<1/10,000), no to known (eannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of

Frequencies of adverse reactions in clinical studies and post-marketing experience

MeuDRA System organ class	rrequency categor	
Immune system disorders		
Hypersensitivity (including urticaria, rash, pruritus, erythema)	Common	
Eye disorders		
Visual acuity reduced	Common	
Retinal haemorrhage	Common	
Uveitis	Common	
Iritis	Common	
Vitreous detachment	Common	
Retinal tear	Common	
Cataract	Common	
Conjunctival haemorrhage	Common	
Vitreous floaters	Common	
Eye pain	Common	
Intraocular pressure increase	Common	
Conjunctivitis	Common	
Retinal pigment epithelial tear	Common	
Vision blurred	Common	
Corneal abrasion	Common Common Uncommon	
Punctate keratitis		
Blindness		
Endophthalmitis	Uncommon	
Retinal detachment	Uncommon	
Conjunctival hyperaemia	Uncommon	
crimation increased Uncommon		
Abnormal sensation in eye	Uncommon	
Detachment of retinal pigment epithelium	Uncommon	
Vitritis	Uncommon	
Anterior chamber inflammation	Uncommon	
Iridocyclitis	Uncommon	
Anterior chamber flare	Uncommon	
Corneal oedema Uncommon		
Titreous haemorrhage Uncommon		
Retinal vascular occlusion Uncommon		
Retinal vasculitis	Uncommon	

Description of selected adverse reactions

Immunogenicity
There is a potential for an immune response in patients treated with Beovu

Wet AMD

After dosing with Beovu for 88 weeks, treatment-emergent anti-brolucizumab antibodies were detected in 23-25% of patients. DME

Among AMD and DME patients with treatment-emergent antibodies, a higher number of intraocular inflammation adverse reactions were observed. After investigation, retinal vasculitis and/or retinal vascular occlusion, typically in the presence of intraocular inflammation, were found to be immune-mediated adverse events related to exposure to Beovu (see section 4.4). Antibrolucizumab antibodies were not associated with an impact on clinical efficacy

<u>Product-class-related adverse reactions</u>

There is a theoretical risk of arterial thromboembolic events, including stroke and myocardial

infaction, following intravited use of VEGC inhibitors. A low incidence rate of predictal thromboembelic events was observed in the brolucizumab clinical studies in patients with ADD and DME. There were no major notable differences between the groups treated with southcuramab and

comparator.

Interactions: No formal interaction studies have been performed

Packs and prices: Country specific Legal classification: Country specific

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Rhegmatogenous retinal detachment or macular holes

# How to contact your eye care clinic:

Contact:	 -	
Telephone:	_	1
Address:	 _	
E-mail:		



Scan a QR code to listen to the patient guide

