معلومات هامة لسلامة المرضى

دلیل المریض إلی العلاج باستخدام ®Beovu (برولوسیزوماب)

لعلاج الضمور البقعي الرطب المرتبط بالعمر (إيه إم دي) والوذمة البقعية السكرية

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Materials



لماذا وُصِف لي Beovu؟

يحتوي Beovu على المادة الفعَّالة برولوسيزوماب، التي تنتمي إلى مجموعة من الأدوية تُسمَّى مضادات التَّوَعِّي الحَديث.

تُسبِّب مادة تُسمَّى عامل النّمو البطاني الوعائي أ (VEGF A) نمو الأوعية الدَّموية في العين.

يمنع Beovu تأثير المادة المُسمَّاة بعامل النمو البطاني الوعائي أ عن طريق الارتباط بها، وبالتَّالي يقلل من نمو الأوعية الدَّموية غير الطبيعية في حالات الضمور البقعي الرطب المرتبط بالعمر والوذمة البقعية السكرية؛ الأمر الذي بدوره يقلل من تسريب السوائل أو الدَّم في العين.

كيف يُعطَى Beovu؟

- يحقن طبيبك Beovu في عينك (حَقْن داخل الجسم الزجاجي للعين)
- سيُجري لك طبيبك بعض اختبارات العين بعد حَقْنك. قد تشمل هذه الاختبارات قياس الضغط داخل عينك أو تقييم حالة عصبك البصري.

ما هو الضمور البقعي الوعائي (الرطب) المرتبط بالعمر؟

يحدث الضمور البقعي الرطب المرتبط بالعمر عندما تتكون أوعية دموية غير طبيعية وتنمو تحت البقعة. البقعة، التي توجد بالجزء الخلفي من العين، هي المسؤولة عن الرؤية الواضحة. قد تُسرب الأوعية الدَّموية غير الطبيعية السوائل أو الدم إلى العين وتتداخل مع وظيفة البقعة، الأمر الذي يُؤدي إلى انخفاض الرؤية.

ما هي الوذمة البقعية السكرية (DME)؟

الوذمة البقعية السكرية هي مرض تصاعدي يسببه مرض السكري، وقد يؤدي إلى فقدان البصر أو العمى. قد ترشح الأوعية الدَّموية التالفة في العين سائلًا في البقعة. البقعة هي المسؤولة عن الرؤية المركزية وهي الجزء من العين الذي يُستَخدَم لفعل أمور مثل القراءة والقيادة والتعرف على الوجوه.

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ما المُتوَقّع بعد العلاج؟

في بعض الأحيان، بعد الحَقْن داخل الجسم الزجاجي للعين كما هو الحال مع Beovu®، قد يحدث ما يلى:

- التهاب غير شائع ولكنه شديد (التهاب باطن المقلة)، مرتبط عادةً بحدوث عدوى داخل العين أو انفصال للطبقات الموجودة في الجزء الخلفي من العين (انفصال الشبكية/تمزّقها)
- ارتفاع مؤقت في ضغط العين (الضغط داخل العين)، وهو أمر شائع ولكنه عادةً يكون بدون أعراض؛ يجب على الطبيب إجراء قياسات للضغط داخل العين لاكتشاف ذلك

كيف يُعطَى Beovu؟

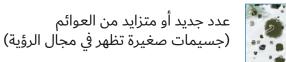
- قد يحدث التهاب بالأوعية الدَّموية الموجودة في الشبكية و/أو انسداد بالأوعية الدموية للعين (انسداد وعائي شبكي)، أو التهاب أقل شدة بالعين (التهاب باطن العين). قد يزداد خطر الإصابة بالسابق إذا كنت من أصل ياباني أو إذا کنت انثی
- إذا أصِبت بالتهاب باطن العين و/أو انسداد وعائي شبكي خلال العام الماضي، فأنِت أكثر عرضة للإصابة بالتهاب الأوعية الدَّموية الموجودة في الشبكية و/أو الانسداد الوعائي الشبكي
 - من الممكن أيضًا حدوث رد فعل مناعي (استجابة مناعية).

ما المُتوَقّع بعد العلاج؟ (تابع)

اطلب المساعدة الطبية فورًا إذا تعرَّضت لأيٍّ مما يلي:



انخفاض أو تغيُّر مفاجئ في حدة الرؤية





احمرار كلي في العين





ألم جديد أو مستمر بالعين أو تفاقم الشعور غير المريح بالعين



ومضات من الضوء أو زيادة الحساسية تجاه الضوء (شعور بالانزعاج من الأضواء الساطعة)

ما الذي يمكنني فعله بعد علاجي؟

- بعد الحَقْن، قد تتأثر رؤيتك مؤقتًا (على سبيل المثال: عدم وضوح الرؤية). لا تقم بممارسة القيادة أو استخدام الآلات طالما استمرت هذه الآثار الجانبية.
 - كن سبَّاقًا وأخبر طبيبك أو ممرضتك إذا لاحظت أيَّة تغيُّرات في رؤيتك.
 - من المهم اتباع جدول مواعيد الزيارات الذي أوصى به طبيبك.

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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).
 Dosage regimen and administration:
 Boovu must be administered by a qualified ophthalmologist experienced in intravitreal injections.

Posology

100000g; Wei 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

should be considered as 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

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 Brolucizamab 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).

The intravited injection procedure visible plant of administration (see account of the injection procedure visible) plant of administration (see account of the injection procedure visible plant as the level of security conditions, which includes the use of surgical hard quity intervention, steril gallegers, as terile disease and a sterile vegled speculum or equivalent). Sterile pracaretics hard quity and a valuable as a precautionary measure. The patient's medical history for hypersensitivity reactions should be carefully evaluated prior to performing the intervitived procedure (see section 4.3). Adequate anassethesia and a broad-spectrum protein time/order for distinct the periocular skin, eyeld and ocular surface.

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 mjectoon needle should be mserted 3.5 to 4.0 mm posterior to the limbus into the vitreous cavity, avoiding the horizontal merdician and aiming towards the center of the globe. The injection volume of 0.05 ml is then delivered slowly; a different scleral 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

in, 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 per-filled syringe is for single use only. Each pre-filled syringe should only be used for the tre-Since the volume contained in the pre-filled syringe (0.165 ml) is greater than the recommended de filled syringe mass be discarded prior to administration.

illidel yring must be discarded poor to featmenteration. 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 pl. it. 6. of mg brotheziramab).

Vial
The vial is for single use only. Each vial should only be used for the tri

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

intianimation, trailimatic citarrict, fremai detaciment and retinat test (see section 4.8), Proper aseptic injection techniques must always be used when administering Beorus .

Patients should be instructed to report any symptoms suggestive of the above-mentioned events without delay. Intraocular inflammation, including reitnal vasculita and/or retinal vascular occlusion, has been reported with the use of Beowy (see sedion 4.3 and historial inflammation, including reitnal vasculita coclusion, has been reported with the use of Beowy (see sedion 4.3 and historial refinancial inflammation, including reitnal vasculitar coclusion, has been reported with the use of Beowy (see sedion 4.3 and disper number of intraocular inflammation, including reitnal vasculitar coclusion was readed to the contract inflammation, including reitnal vasculitar coclusion was readed in special and are spirit and the spiri

the treatment.
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In patients developing these events, treatment with Beovu should be discontinued and the events should be promptly managed. Patients treated with Beovu with a medical history of intraocular inflammation and/or retinal vascular 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 doese 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

<u>intraccular pressure intraocular pressure have been seen within 30 minutes of intravitreal injection with vascular ransient increase in intraocular pressure have been seen within 30 minutes of intravitreal injection with vascular endothelial growth factor (VEGF) inhibitors, including brobicziamush (see section 4.8). Special precaution is needed in patients with poorly controlled glaucoma (do not inject Beovu while the intraocular pressure is 230 mmHg). Both intraocular pressure and perfusion of the optic nerve head must be monitored and managed appropriately.</u> Bilateral treatment

The safety and efficacy of brolucizumab administered in both eyes concurrently have not been studied

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 mber of small particles in their vision, or increased sensitivity to light (see section 4.8)

Concomitant use of other anti-VEGF

...ere are no oata available on the concomitant use of Beovu with other anti-VEGF medicinal products in the same eye. Broducizumab should not be administered concurrently with other anti-VEGF medicinal products (systemic or coults). There are no data available on the concomitant use of Beovu with other anti-VEGF medicinal products in the same

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 intravireal use
Systemic adverse events, including non-ocular baenorrhages and arterial thromboembolic events, have been reported following intravireal rection 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 patients

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 potent 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.

Renderization 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 broulcization. A decision must be made whether to discontinue breast-feeding or to abstain from broulcization that the last dose when stopping the start of the start feeding or to abstain from broulcizational therapy, taking into account the benefit of breast-feeding or 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 follicular 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

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 haemoga (5.7%).

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

Tabulated list of adverse reactions
The adverse reactions experienced following administration of Beovu in cl

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 <1/10), uncommon (\geq 1/1,000 to <1/1000, very rare (<1/10,000), not known (cannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Frequencies of adverse reactions in clinical studies and post-marketing experience MedDRA System organ class Frequency category

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
Punctate keratitis	Common
Blindness	Uncommon
Endophthalmitis	Uncommon
Retinal detachment	Uncommon
Conjunctival hyperaemia	Uncommon
Lacrimation 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
Vitreous haemorrhage	Uncommon
Retinal vascular occlusion	Uncommon
Retinal vasculitis	Uncommon

Description of selected adverse reactions

Wet AMD

<u>Immunogenicity</u>

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

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

infarction, following intravitreal use of VEGF inhibitors. A low incidence rate of arterial thromboembolic events was observed in the brolucizumab clinical studies in patients with AMD and DME. There were no major notable differences between the groups treated with brolucizumab and

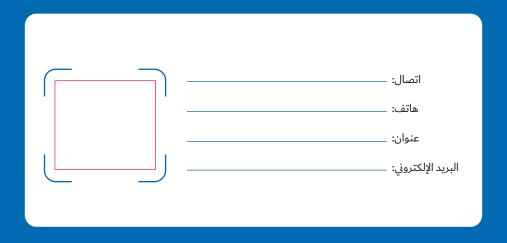
comparator. $\label{lem:normal} \textbf{Interactions:} \ \ No \ \ formal \ interaction \ studies \ have \ been \ performed$

Packs and prices: Country specific Legal classification: Country specific

NSS version number: SA_v2.1_NSS_Beovu_Oct2022 Leaflet revision date: Approved by EMA in 03/2022

Rhegmatogenous retinal detachment or macular holes

كيفية الاتصال بعيادة رعاية العين:





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