WARNINGS AND PRECAUTIONS

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INDICATIONS AND USAGE

JEUVEAU (prabotulinumtoxinA-xvfs) for injection, for intramuscular use

Initial U.S. Approval: 2019

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DOSAGE AND ADMINISTRATION

Glabellar Lines Administration: 0.1 mL (4 Units) by intramuscular adult patients (1)

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DOSE FORMS AND STRENGTHS

For Injection: 100 Units vacuum-dried powder in a single-dose vial (3)

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CONTRAINDICATIONS

• Hypersensitivity to any botulinum toxin preparation or to any of the components in the formulation (4.1)

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WARNINGS AND PRECAUTIONS

DISTANT SPREAD OF TOXIN EFFECT

The effects of all botulinum toxin products, including JEUVEAU, may spread from the area of injection to produce symptoms consistent with botulinum toxin effects. These symptoms have been reported hours to weeks after injection. Swallowing and breathing difficulties can be life threatening and there have been reports of death. JEUVEAU is not approved for the treatment of spasticity or any conditions other than glabellar lines. (5.1)

INDICATIONS AND USAGE

JEUVEAU is an acetylcholine release inhibitor and a neuromuscular blocking agent indicated for the temporary relaxation of muscles associated with corrugator and/or procerus muscle activity in adults (1)

DOSE AND ADMINISTRATION

Glabellar Lines Administration: 0.1 mL (4 Units) by intramuscular injection into each of five sites, for a total dose of 20 Units (2.2, 2.3)

DOSE FORMS AND STRENGTHS

For Injection: 100 Units vacuum-dried powder in a single-dose vial (3)

CONTRAINDICATIONS

• Hypersensitivity to any botulinum toxin preparation or to any of the components in the formulation (4.1)

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WARNING: DISTANT SPREAD OF TOXIN EFFECT

See full prescribing information for complete boxed warning

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ADVERSE REACTIONS

The most common adverse reactions are headache (12%), eyelid ptosis (2%), upper respiratory tract infection (3%), increase white blood cell count (1%) (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Evolus at [1-877-386-5871] or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

Closely observe patients receiving concomitant treatment of JEUVEAU and aminoglycosides or other agents interfering with neuromuscular transmission (e.g. curare-like agents), or muscle relaxants, because JEUVEAU's effect may be potentiated. (7)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide. Revised: 01/2020

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*Sections or subsections omitted from the full prescribing information are not listed.
In order to reduce the complication of eyelid ptosis the following steps should be taken:

- Avoid injection near the levator palpebrae superioris, particularly in patients with larger brow depressor complexes.
- Lateral corrugator injections should be placed at least 1 cm above the bony supraorbital ridge.
- Ensure the injected volume/dose is accurate and where feasible kept to a minimum.
- Avoid injecting toxin closer than 1 centimeter above the central eyebrow.
Draw at least 0.5 mL of the properly reconstituted toxin into a sterile syringe and expel any air bubbles in the syringe barrel. Remove the needle used to reconstitute the product and attach a 30-33 gauge needle. Confirm the patency of the needle. Inject a dose of 0.1 mL (4 Units) intramuscularly into each of five sites, the inferomedial and superior middle of each corrugator and one in the mid-line of the procerus muscle for a total dose of 20 Units (See Figure 1).

Figure 1:

3 DOSAGE FORMS AND STRENGTHS
- For injection: 100 Units, vacuum-dried powder in a single-dose vial for reconstitution with preservative-free 0.9% Sodium Chloride Injection, USP.

4 CONTRAINDICATIONS
4.1 Known Hypersensitivity to Botulinum Toxin
JEUVEAU is contraindicated in individuals with known hypersensitivity to any botulinum toxin preparation or to any of the components in the formulation [See Warnings and Precautions (5.4)].

4.2 Infection at the Injection Site(s)
JEUVEAU is contraindicated in the presence of infection at the proposed injection site(s).

5 WARNINGS AND PRECAUTIONS
5.1 Spread of Toxin Effect
Postmarketing safety data from other approved botulinum toxins suggest that botulinum toxin effects may be observed beyond the site of local injection. The symptoms are consistent with the mechanism of action of botulinum toxin and may include asthenia, generalized muscle weakness, diplopia, ptosis, dysphagia, dysphonia, dysarthria, urinary incontinence, blurred vision and breathing difficulties. These symptoms have been reported hours to weeks after injection. Swallowing and breathing difficulties can be life threatening and there have been reports of death related to spread of toxin effects. In unapproved uses, including upper limb spasticity in children and approved indications, symptoms consistent with spread of toxin effect have been reported at doses comparable to or lower than the maximum recommended total dose [see Use in Specific Populations (8.4)]. JEUVEAU is not approved for the treatment of spasticity or any conditions other than glabellar lines. Patients or caregivers should be advised to seek immediate medical care if swallowing, speech or respiratory difficulties occur.

5.2 Lack of Interchangeability between Botulinum Toxin Products
The potency units of JEUVEAU are specific to the preparation and assay method utilized. They are not interchangeable with other preparations of botulinum toxin products and, therefore, units of biological activity of JEUVEAU cannot be compared to nor converted into units of any other botulinum toxin products assessed with any other specific assay method [see Description (11)].

5.3 Serious Adverse Reactions with Unapproved Use
Serious adverse reactions, including excessive weakness, dysphagia, and aspiration pneumonia, with some adverse reactions associated with fatal outcomes, have been reported in patients who received botulinum toxin injections for unapproved uses. In these cases, the adverse reactions were not necessarily related to distant spread of toxin, but may have resulted from the administration of botulinum toxin products to the site of injection and/or adjacent structures. In several of the cases, patients had pre-existing dysphagia or other significant disabilities. There is insufficient information to identify factors associated with an increased risk for adverse reactions associated with the unapproved uses of botulinum toxin products.

5.4 Hypersensitivity Reactions
Serious and/or immediate hypersensitivity reactions have been reported for botulinum toxin products. These reactions include anaphylaxis, serum sickness, urticaria, soft tissue edema, and dyspnea. If such a reaction occurs, further injection of JEUVEAU should be discontinued and appropriate medical therapy immediately instituted. The use of JEUVEAU in patients with a known hypersensitivity to any botulinum neurotoxin or to any of the components in the formulation could lead to a life threatening allergic reaction [See Contraindications (4.1)].
5.5 Cardiovascular System
There have been reports following administration of botulinum toxins of adverse events involving the cardiovascular system, including arrhythmia and myocardial infarction, some with fatal outcomes. Some of these patients had risk factors including pre-existing cardiovascular disease. Use caution when administering to patients with pre-existing cardiovascular disease.

5.6 Increased Risk of Clinically Significant Effects with Pre-Existing Neuromuscular Disorders
Individuals with peripheral motor neuropathic diseases, amyotrophic lateral sclerosis or neuromuscular junction disorders (e.g., myasthenia gravis or Lambert-Eaton syndrome) were excluded from the clinical studies of JEUVEAU. Patients with neuromuscular disorders may be at increased risk of clinically significant effects including generalized muscle weakness, diplopia, ptosis, dysphonia, dysarthria, severe dysphagia and respiratory compromise from typical doses of JEUVEAU.

5.7 Dysphagia and Breathing Difficulties
Treatment with botulinum toxin products, including JEUVEAU, can result in swallowing or breathing difficulties. Patients with preexisting swallowing or breathing difficulties may be more susceptible to these complications. In most cases, this has been a consequence of weakening of muscles in the area of injection that are involved in breathing or oropharyngeal muscles that control swallowing or breathing [see Warnings and Precautions (5.1)].

Deaths as a complication of severe dysphagia have been reported after treatment with botulinum toxin. Dysphagia may persist for several months, and require use of a feeding tube to maintain adequate nutrition and hydration. Aspiration may result from severe dysphagia and is a particular risk when treating patients in whom swallowing or respiratory function is already compromised.

Treatment with botulinum toxins, including JEUVEAU, may weaken neck muscles that serve as accessory muscles of ventilation. This may result in a critical loss of breathing capacity in patients with respiratory disorders who may have become dependent upon these accessory muscles. There have been postmarketing reports from other botulinum toxin products of serious breathing difficulties, including respiratory failure.

Patients with smaller neck muscle mass and patients who require bilateral injections into the sternocleidomastoid muscle for the treatment of cervical dystonia have been reported to be at greater risk for dysphagia. Injections into the levator scapulae for the treatment cervical dystonia may be associated with an increased risk of upper respiratory infection and dysphagia. JEUVEAU is not approved for the treatment of cervical dystonia.

Patients treated with botulinum toxin products, including JEUVEAU, may require immediate medical attention should they develop problems with swallowing, speech or breathing. These reactions can occur within hours to weeks after injection with botulinum toxin [see Warnings and Precautions (5.1)].

5.8 Pre-existing Conditions at the Injection Site
Caution should be used when JEUVEAU treatment is used in the presence of inflammation at the proposed injection site(s) or when excessive weakness or atrophy is present in the target muscle(s).

Caution should be used when JEUVEAU treatment is used in patients who have marked facial asymmetry, ptosis, excessive dermatocchalasis, deep dermal scarring, thick sebaceous skin or when subjects do not respond to 20 Units of botulinum toxin (e.g. the inability to substantially lessen glabellar lines even by physically spreading them apart). Do not exceed the recommended dosage and frequency of administration of JEUVEAU.

5.9 Ophthalmic Adverse Reactions in Patients Treated with Botulinum Toxin Products
Dry eye has been reported with the use of botulinum toxin products in the treatment of glabellar lines. Reduced tear production, reduced blinking, and corneal disorders may occur with use of botulinum toxins, including JEUVEAU. If symptoms of dry eye (e.g., eye irritation, photophobia, or visual changes) persist, consider referring patient to an ophthalmologist [see Warnings and Precautions (5.1)].

5.10 Human Albumin and Transmission of Viral Diseases
This product contains albumin, a derivative of human blood. Based on effective donor screening and product manufacturing processes, it carries an extremely remote risk for transmission of viral diseases and variant Creutzfeldt-Jakob disease (vCJD). There is a theoretical risk for transmission of Creutzfeldt-Jakob disease (CJD), but if that risk actually exists, the risk of transmission would also be considered extremely remote. No cases of transmission of viral diseases or CJD or vCJD have ever been identified for licensed albumin or albumin contained in other licensed products.

6 ADVERSE REACTIONS
The following serious adverse reactions are discussed in greater detail in other sections of the labeling:

- Spread of Toxin Effects [see Warnings and Precautions (5.1)]
- Hypersensitivity [see Contraindications (4.1) and Warnings and Precautions (5.4)]
- Dysphagia and Breathing Difficulties [See Warnings and Precautions (5.7)]

6.1 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, the adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.
In general, most adverse reactions occur within the first week following injection of JEUVEAU and while generally transient, may have a duration of several months or longer. Localized pain, infection, inflammation, tenderness, swelling, erythema, and/or bleeding/bruising may be associated with the injection. Needle-related pain and/or anxiety may result in vasovagal responses, including syncope and hypotension, which may require appropriate medical therapy.

Local weakness of the injected muscle(s) represents the expected pharmacological action of botulinum toxin. However, weakness of nearby muscles may also occur due to spread of toxin effect [see Warnings and Precautions (5.1)].

**Glabellar Lines**

The adverse reactions below reflect exposure to JEUVEAU in the treatment of glabellar lines in placebo-controlled trials [See Clinical Studies (14)].

**Table 2. Adverse Reactions Reported at Higher Frequency (≥1%) in the JEUVEAU Group Compared to the Placebo Group**

<table>
<thead>
<tr>
<th>adverse reaction</th>
<th>JEUVEAU EV-001, EV-002</th>
<th>PLACEBO EV-001, EV-002</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n=492</td>
<td>n=162</td>
</tr>
<tr>
<td>headache</td>
<td>57 (12%)</td>
<td>21 (13%)</td>
</tr>
<tr>
<td>eyelid ptosis</td>
<td>8 (2%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>upper respiratory tract infection</td>
<td>13 (3%)</td>
<td>1 (1%)</td>
</tr>
<tr>
<td>white blood cell count increase</td>
<td>6 (1%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

Two multi-center, open label, 1-year repeat dose safety trials, EV-004 [NCT02184988] and EV-006 [NCT02428608], were also conducted with JEUVEAU. Both trials evaluated repeat treatments of 20 units of JEUVEAU, up to a maximum total of 80 units, for the treatment of moderate to severe glabellar lines in adult subjects. Of the 922 subjects enrolled, the median number of treatments was three. The adverse events profile was similar to that reported in single dose trials.

**6.2 Immunogenicity**

As with all therapeutic proteins, there is a potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to prabotulinumtoxinA-xvfs in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

Treatment with botulinum toxins may result in the formation of antibodies that may reduce the effectiveness of subsequent treatments by inactivating biological activity of the toxin. Among 1,414 subjects treated with prabotulinumtoxinA-xvfs, 2 subjects were found to have pre-existing antibodies and 2 subjects had treatment-emergent antibodies.

**7 DRUG INTERACTIONS**

No formal drug interaction studies have been conducted with JEUVEAU (prabotulinumtoxinA-xvfs) for injection. However, the potential for certain drugs to potentiate the effects of JEUVEAU warrant consideration given the potential risks involved and should be used with caution.

- Aminoglycosides or other agents interfering with neuromuscular transmission
- Anticholinergic drugs
- Botulinum neurotoxin products
- Muscle relaxant

**8 USE IN SPECIFIC POPULATIONS**

**8.1 Pregnancy**

**Risk Summary**

The limited available data on JEUVEAU use in pregnant women are insufficient to inform a drug associated risk of adverse developmental outcomes. An embryofetal developmental study conducted with JEUVEAU in pregnant rats revealed no treatment-related effects to the developing fetus when JEUVEAU was administered intramuscularly during organogenesis at doses up to 12 times the maximum recommended human dose (MRHD) (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.
Data

Animal Data

In an embryofetal developmental study, intramuscular doses up to 4 unit/kg JEUVEAU were administered to pregnant rats once daily during organogenesis (gestation days 6 to 16). No maternal or embryofetal toxicities were observed at doses up to 4 unit/kg (12 times the MRHD of 20 units, based on unit/kg comparison).

8.2 Lactation

There is no information regarding the presence of prabotulinumtoxinA in human or animal milk, its effects on the breastfed infant or on milk production.

The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for JEUVEAU and any potential adverse effects on the breastfed infant from JEUVEAU or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

The two clinical trials of JEUVEAU included 68 subjects age 65 and greater. Although no differences in safety or efficacy were observed between older and younger subjects, clinical studies of JEUVEAU did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

10 OVERDOSAGE

There is no information regarding overdose from clinical studies of JEUVEAU. Excessive doses of JEUVEAU (prabotulinumtoxinA-xvfs) Injection may be expected to produce neuromuscular weakness with a variety of symptoms.

Symptoms of overdose are likely not to be present immediately following injection. Should accidental injection or oral ingestion occur, or overdose be suspected, these patients should be considered for further medical evaluation and appropriate medical therapy immediately instituted, which may include hospitalization. The person should be medically supervised for several weeks for signs and symptoms of systemic muscular weakness which could be local, or distant from the site of injection [see Boxed Warning and Warnings and Precautions (5.1)].

If the musculature of the oropharynx and esophagus are affected, aspiration may occur which may lead to development of aspiration pneumonia. If the respiratory muscles become paralyzed or sufficiently weakened, intubation and assisted respiration may be necessary until recovery takes place. Supportive care could involve the need for a tracheostomy and/or prolonged mechanical ventilation, in addition to other general supportive care.

In the event of overdose, antitoxin raised against botulinum toxin is available from the Centers for Disease Control and Prevention (CDC) in Atlanta, GA. However, the antitoxin will not reverse any botulinum toxin-induced effects already apparent by the time of antitoxin administration. In the event of suspected or actual cases of botulinum toxin poisoning, please contact your local or state Health Department to process a request for antitoxin through the CDC. If you do not receive a response within 30 minutes, please contact the CDC directly at 1-770-488-7100. More information can be obtained at http://www.cdc.gov/ncidod/srp/drugs/formulary.html#1a.

11 DESCRIPTION

PrabotulinumtoxinA-xvfs is an acetylcholine release inhibitor and a neuromuscular blocking agent. PrabotulinumtoxinA-xvfs is supplied as a sterile, vacuum-dried powder in a single-dose vial intended for intramuscular use after reconstitution.

PrabotulinumtoxinA-xvfs is a 900 kDa botulinum toxin type A, produced from fermentation of Clostridium botulinum.

The primary release procedure for JEUVEAU uses an animal based potency assay to determine the potency relative to a reference standard. The assay is specific to Evolus Inc. product, JEUVEAU. One Unit of JEUVEAU corresponds to the calculated median intraperitoneal lethal dose (LD₅₀) in mice. Due to specific details of this assay Units of biological activity of JEUVEAU cannot be converted into Units of any other botulinum toxin or any toxin assessed with any other specific assay method.

Each vial of JEUVEAU (prabotulinumtoxinA-xvfs) for injection contains 100 Units of botulinum toxin type A neurotoxin complex, human serum albumin (0.5 mg), and sodium chloride (0.9 mg) in a sterile, vacuum-dried form without a preservative.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

JEUVEAU blocks neuromuscular transmission by binding to acceptor sites on motor nerve terminals, entering the nerve terminals, and inhibiting the release of acetylcholine. This inhibition occurs as the neurotoxin cleaves SNAP-25, a protein integral to the successful docking and release of acetylcholine from vesicles situated within nerve endings. When injected intramuscularly at therapeutic doses, JEUVEAU produces partial chemical denervation of the muscle resulting in a localized reduction in muscle activity. In addition, the muscle may atrophy, axonal sprouting may occur, and extrajunctional acetylcholine receptors may develop. There is evidence that reinervation of the muscle may occur, thus slowly reversing muscle denervation produced by JEUVEAU.

12.2 Pharmacodynamics

No formal pharmacodynamic studies have been conducted with JEUVEAU.
12.3 Pharmacokinetics

Using currently available analytical technology, it is not possible to detect JEUVEAU in the peripheral blood following intramuscular injection at the recommended doses.

No drug interaction studies have been conducted with JEUVEAU.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Animal studies have not been conducted to evaluate the carcinogenic, mutagenic or impairment of fertility potential of JEUVEAU.

14 CLINICAL STUDIES

Two randomized, multi-center, double-blind, placebo-controlled trials (EV-001 [NCT02334423] and EV-002 [NCT02334436]) of identical design were conducted to evaluate JEUVEAU for use in the temporary improvement of the appearance of moderate to severe glabellar facial lines. These trials enrolled 654 subjects, randomized 3 to 1 to a single treatment with JEUVEAU (n=492) or placebo (n=162).

The trials enrolled healthy adults (ranging in age from 18 to 81) with glabellar lines of at least moderate severity at maximum frown. The trials excluded subjects who had ptosis, deep dermal scarring, or an inability to substantially lessen glabellar lines even by physically spreading the glabellar lines apart. Injection volume was 0.1 mL/injection site, for a dose/injection site in the active treatment groups of 4 Units. Subjects were injected intramuscularly at five sites, one in the procerus muscle and two in each corrugator supercilii muscle, for a total dose in the active treatment groups of 20 Units.

The primary efficacy endpoint was measured at Day 30 and was defined as the proportion of subjects achieving ≥2-grade improvement from baseline at maximum frown, as assessed independently by both the investigator and the subject using the Glabellar Line Scale (GLS). The GLS is a 4-point grading scale (0=none, 1=mild, 2=moderate, 3=severe). The results of these two efficacy trials are presented below (See Table 3).

The mean age was 51 years, with 68 subjects (10%) ≥ 65 years of age. Most of the subjects were women (91%), and a majority of the subjects were white (84%).

Table 3. Trials EV-001 and EV-002: Composite Investigator and Subject Assessment of Glabellar Line Severity at Maximum Frown at Day 30 – Responder Rates (% of Subjects Achieving ≥ 2-Grade Improvement from Baseline)

<table>
<thead>
<tr>
<th>Trial</th>
<th>JEUVEAU</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trial EV-001</td>
<td>N=246</td>
<td>N=84</td>
</tr>
<tr>
<td></td>
<td>68%</td>
<td>1%</td>
</tr>
<tr>
<td>Trial EV-002</td>
<td>N=246</td>
<td>N=78</td>
</tr>
<tr>
<td></td>
<td>70%</td>
<td>1%</td>
</tr>
</tbody>
</table>

16 HOW SUPPLIED/STORAGE AND HANDLING

JEUVEAU (prabotulinumtoxinA-xvfs) for injection is a vacuum-dried powder supplied in a single-dose vial in the following size:

100 Units (NDC 72301-595-10)

Storage

Unopened vials of JEUVEAU should be stored in a refrigerator between 2° to 8°C (36° to 46° F) in the original carton to protect from light.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Advise patients to inform their doctor if they develop any unusual symptoms (including difficulty with swallowing, speaking or breathing), or if any known symptom persists or worsens [see Warnings and Precautions (5.1, 5.4)].

Inform patients that JEUVEAU injection may cause eye dryness. Advise patients to report symptoms of eye dryness (e.g., eye pain, eye irritation, photosensitivity, or changes in vision) to their doctor [see Warnings and Precautions (5.9)].

Inform patients that if loss of strength, muscle weakness, blurred vision or drooping eyelids occur, they should avoid driving a car or engaging in other potentially hazardous activities.

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