Anti-Aging TOP Secret Tòxina Botulìnica Tipo A Back to the healthy me







REDUX®

Lanzox®

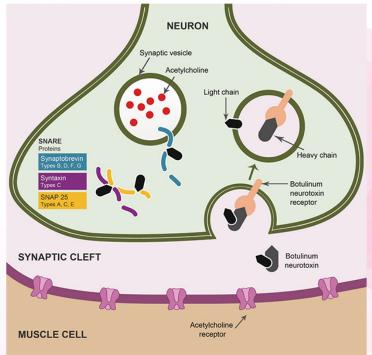


Лантокс*





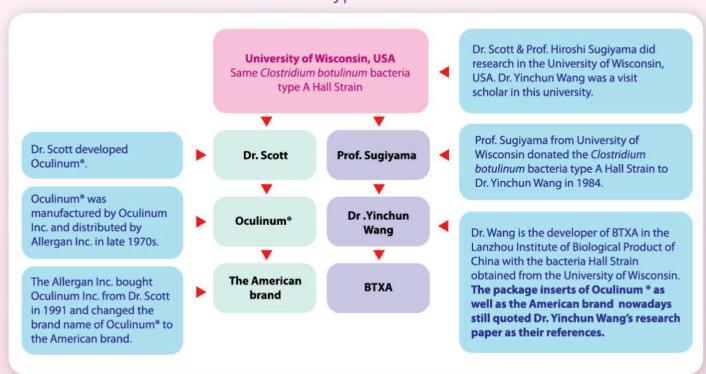
Mode of Action



BTXA, Botulinum Toxin Type A, inhibits release of acetylcholine at presynaptic membrane of nerve terminals, resulting in muscular flaccid paralysis.

History of BTXA

History of BTXA - BTXA and the American brand share the same Clostridium botulinum bacteria type A Hall Strain







Evidence on the Clinical Efficacy and Safety of BTXA Compared to the American Brand

The treatment with BTXA is considered the golden standard in both Blepharospasms (BS) and Hemifacial spasm (HS).

In A double-blind, randomized, crossover study of BTXA versus the American brand in patients with blepharospasms and hemifacial spasm¹, the selected patients, all with HS or idiopathic BS, were followed in two periods for at least three months.

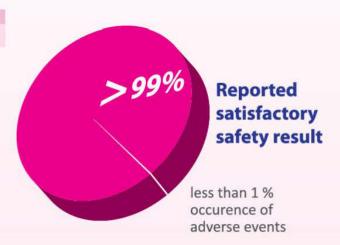
The study evaluated the subjective global improvement, response onset, efficacy duration, and incidence and severity of adverse events.

In all analyzed parameters, there were no significant differences between the two drugs. It has been concluded that BTXA and the American brand are comparable with respect to efficacy and safety for the treatment of blepharospasm and hemifacial spasm.

Safety Assessment

A more than five years' continuous safety monitoring on BTXA application was carried out in Brazil and respective Periodic Safety Update Report (PSUR) was issued in Jan 2009².

During the period covered (Jun 2003- Dec 2008), about 300,000 cases had been treated with BTXA



Overall adverse event rate is classified as uncommon. Most of the reported scenarios were also expected in other brands of botulinum toxin type A.

BTXA treatment is continuously under Safety monitoring of Health Authorities



Botulinum Toxin Type A injections were the #1 non-surgical cosmetic procedure and the #1 cosmetic procedure overall for the sixth year in a row³.

Efficacy vs Long - lasting Effects of BTXA in Facial Wrinkles Treatment



- ➤ The satisfactory rate reached more than 90% in 14 days after injection⁴
- ➤ 50% patients maintained satisfactory result up to 6-month period⁴
- Only 1% of the patients reported much pain or burning upon the injection and no patients reported significant post-injection pain⁴
- Conclusion: BTXA was deemed safe, well tolerated and reached good satisfactory levels⁴

References

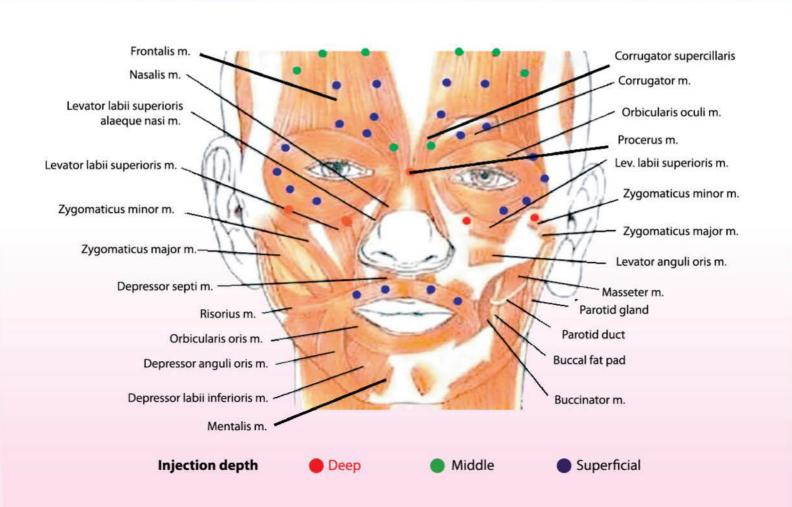
- 1. Costa J, Rieder C, et al. A double-blind, randomised, crossover study of Prosigne versus Botox in patients with blepharospasm and hemifacial spasm. Clin Neuropharmacol. 2007;30:39-42.
- 2. Drug Safety Report-Prosigne @ (Botulinum Toxin Type A), Jan 2009, Hugh Source (Int'l) Ltd. Data on file.
- 3. 2007 American Society of Aesthetic Plastic Surgery (ASAPS) Cosmetic Surgery National Data Bank Statistics.
- 4. Talarico S, Bgatin E, Pecora CS, Ferreira LM, Orofino R, Godoy A, et al. Open-Label, Prospective, Multicenter, Multidisciplinary Phase III Study to Evaluate the Efficacy and Tolerability of Prosigne (Botulinum Toxin Type A) in the Aesthetic Treatment of the Upper third of the Face in Patients with Facial Wrinkles. Data on file.



Injection Dosage (for reference)

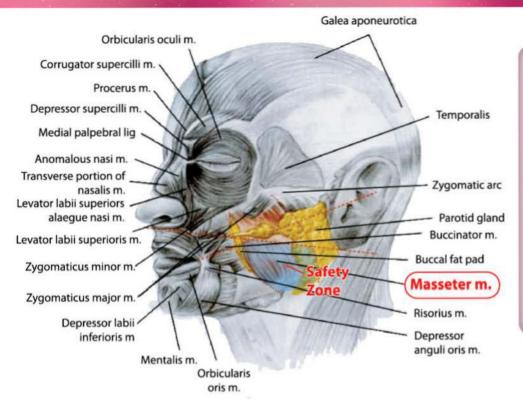
Application areas		Dose per site	No. of sites	Total dose	Injection depth
Forehead lines		2 - 4 U	5 - 10	10 – 20 U	SC/IM
Vertical glabellar lines		4 U	4	16 U	SC/IM
Horizontal glabellar lines		4 U	1	4 U	SC/IM
Crow's feet (each side)		2 U	3 – 6	6 -12 U	SC
Perioral rhytides		1 - 2 U	4	4 -8 U	Superficial
Horizontal platysmal		3-5 U	3	12-15 U	IM
bands (each band)					
Masseter muscle	Man	10 – 13 U	3 – 4	30 – 40 U	IM: 2 – 3 cm
hypertrophy (each side)	Woman	7 – 10 U	3 – 4	20 – 30 U	IM: 1 – 1.5 cm
Calf muscle hypertrophy (each	side)	5 U	20 – 30	100 – 150 U	IM: ~2 cm

Facial Injection Sites





Treatment of Masseter Muscle Hypertrophy

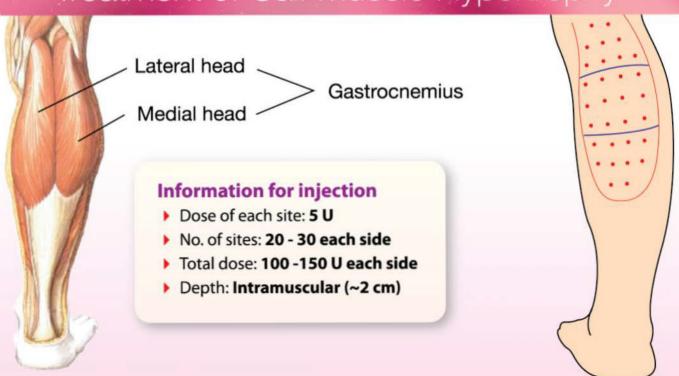


Information for injection

- Dose of each site:
 - Man: 10 13 U
 - Woman: 7 10 U
- No. of sites: 3 4 each side
- Total dose for each side:
 - Man: 30 40 U
 - Woman: 20 30 U
- Depth: Intramuscular
 - Man: 2 3 cm
 - Woman: 1 1.5 cm

- Ask the patient to close the jaw tightly to show the masseter muscle
- · Use 23G needle to inject at the deeper portion of muscle
- · Avoid injection to the origin site and upper portion to prevent cheek depression
- · Space the injections 2 cm apart

Treatment of Calf Muscle Hypertrophy



- · Carry out intravenous sedation with Ketamine
- Mark the outline contour of calf muscle when the patient is raising heel for tip-toeing



Treatment of Hyperhidrosis

Classical locations of hyperhidrosis: face, underarm, hands and feet Before injection:

An iodine starch test can be performed to ascertain the injection areas

eps: 1. The areas to be evaluated are covered with castor oil & iodine in a 1:9 proportion

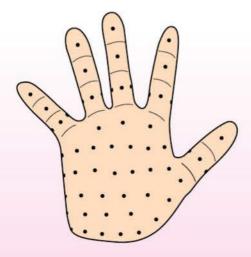
- 2. The areas are sprinkled by potato starch
- 3. The areas of active sweating turn black
- · This test should be carried out prior to regional nerve blocks or the use of topical anaesthetics
- · It is helpful to draw a grid on the skin to mark the injection fields

For palms and soles:

- > The dose varies from patient to patient and depends on the size of the hyperhidrotic area to be injected
- In plantar hyperhidrosis, the lateral and medial edges of the foot may need additional injections
- The main limitation is that most patients find the injections painful and may require regional anesthesia via median and ulnar nerve blocks for palms and sural and posterior tibial nerve block for soles
- Alternatively, the area can be rendered relatively pain free by prior application of anesthetic cream under occlusion, iontophoretic application of lidocaine, or cryospray

Location	Dose	Concentration	Total injection sites
Palms	50-100 U / palm	2-2.5 U / 0.1 ml / site	
Soles	50-100 U / sole	2- 2.5 U / 0.1 ml / site	Depends on the size of the hyperhidrotic area
Axillae	50 U / axilla	2.5 U / 0.1 ml / site	10-15 sites / axillae
		5 U / 0.2 ml / site	

Palms	Soles	Axillae
Inject intradermally	Inject intradermally	Inject intradermally
Approximate depth of 3 mm	Approximate depth of 3 mm	Approximate depth of 3 mm and at a 45° to
		the skin surface
Avoid intramuscular injections	Avoid intramuscular injections	Avoid intramuscular injections
Injections are scattered every	Injections are scattered every	Injection to multiple sites approximately
1.5 - 2 cm on the palm of the	1.5 - 2 cm on the sole, sides of	1.5 - 2 cm apart
hand and on the fingertips, tips	the sole and will be placed in	
and webs of hand	the webs between the toes and	
	on the tips of the toes	







If injection sites are marked in ink, do not inject BTXA directly through the ink mark to avoid a permanent tattoo effect





User Tips for Injection

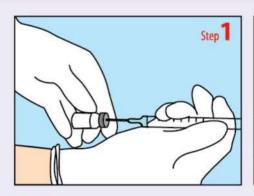
Storage condition:

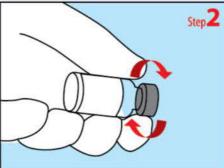
	Before reconstitution	After reconstitution
Storage temperature	2°C to 8°C or -20°C to -5°C	2°C to 8°C, do not freeze
Shelf life	2 or 3 years after lyophilization	Use within 4 hours ideally

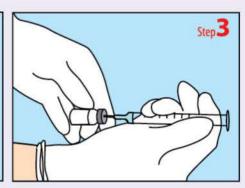
Dilution table:

Concentration (U/ 0.1 ml)	Volume of diluents (ml) added		
Concentration (or our may	50 U vial	100 U vial	
10.0 U / 0.1 ml	0.5 ml	1.0 ml	
5.0 U / 0.1 ml	1.0 ml	2.0 ml	
4.0 U / 0.1 ml	/	2.5 ml	
2.5 U / 0.1 ml	2.0 ml	4.0 ml	
1.25 U / 0.1ml	4.0 ml	8.0 ml	

Reconstitution techniques:







- Step 1: Use a 21G needle and an appropriately sized syringe to draw up appropriate amount of 0.9% sterile saline without preservative. Insert the needle into glass vial gently and slowly inject to avoid bubble formation. Discard the vial if a vacuum does not pull the diluents into vial.
- **Step 2: Gently rotate the vial** (do not vigorously shake the vial) to avoid bubble formation which may affect the potency of toxin.
- **Step 3:** Draw the mixture back into the syringe. Inject the mixture into muscle by using appropriate needle tip for injection.

Basic injection techniques:

- Remove any make-up on the patient's skin and wipe the sites with alcohol swab. Allow to dry
- Evaluate the bulk of muscle contraction at the proposed injection site
- After aspiration of BTXA solution, remove the 21G needle tip and attach a 30G needle tip in order to minimize discomfort to patient
- Clear the air bubble from the syringe using minimal agitation before injection
- Advise the patient to relax during injection



Post-injection:

- Press on the site with a tissue immediately after the injection for minutes to minimize bruising
- Any bruising that occurs should be treated immediately with ice pack
- No other treatments or massage unless otherwise specified
- Advise patient to take rest for 15 minutes before returning to normal activity

Contraindications:

- X Pregnant and breast feeding women
- X Hypersensitive patients
- X Heavy forehead furrows with slight ptosis
- X Redundant facial skin
- X Unrealistic goal and expectations
- X Infection or tumor at the proposed injection sites
- X Long-term usage of anticoagulant or patients with dysfunction of blood coagulation
- X Unstable mental state
- Patients who are taking aspirin, aminoglycosides antibiotics (eg: gentamicin), aminoquinolines, cyclosporine,
 D-penicillamine within two weeks prior to injection

How to avoid antibody formation?

- Use minimum effective dose
- Keep at least 2 to 3 months interval between injections
- Avoid booster injection
- Inject no more than 300 units in 3 months

Effectiveness:

- The onset time is 1 to 2 days for most of the patients
- Best effect will usually be attained 1 to 4 weeks after injection
- After 3 to 4 months, effectiveness will gradually fade, but the overall efficacy of BTXA can be maintained for 6 to 8 months
- According to many reports, the duration of effectiveness increased after repeated injections
- Younger patients with more elastic skin will have a longer effect

Potential risks:

Among all the cases of BTXA cosmetic applications, severe adverse reaction was rarely reported.

- Bruising—resolve in 7 to 10 days
 - Avoided by not taking aspirin prior to injection
- Ptosis—resolve within a few weeks
 - Avoided by injection at least 1 cm above the eyebrow and no massage after injection
- Ecchymosis & oedema
- Tightening of forehead
- Mild nausea
- Pain at the injection sites
- Erythema
- Cyanosis
- Unnatural facial expression



Most side effects are transient and will disappear spontaneously after 1-2 weeks





ETXA (BOTULINUM TORIN TYPE A) DESCRIPTION BTXA (Botulinum Toxin Type A) is a sterile, lyophilized form of purified botulinum toxin type A, produced from the crude toxin of the culture of the Hall strain of Clostridium botulinum grown in a medium containing typicase and yeast sofract. A series of purifying procedure were taken to form a crystalline complex consisting of the active high molecular weight toxin protein and an associated hemaggiuthin. After re-dissolved and dialyzed the crystalline toxin, an accurate amount of the sterile fitness (10,2 microrus) toxin vere active to a solution containing gelatin-dextren-sucrose, then hypophilized. Each vial of BTXA cortains 100 or 50 units (10,6 of C. botulinum toxin type A, 5 mg of gelatin. 25 mg of destrain and 25 mg of sucrose. Dilute with sterile normal statine eccorning to deflete microse before using. The write loose product turns to be observed to content of the product turns to the observed through the mouse, BTXA could block neuromuscular conclusion by inhibiting the release of acetylcholine and therefore causes local muscle faccial paralysis. INDICATIONS BTXA is indicated for the treatment of blopherospasm, hemifecial spasm in actuals and some types of stratismus, especially for acute peralytic stabilization, continuity at several points or originations. The peral and statement of the content through the peralytic stabilization of the product through the peralytic stabilization of the product through the peralytic stabilization of the product through the peralytic statement within a contractive or interest the product of the product of the peralytic statement of the peralytic statement within a contractive or interest the peral to the peralytic statement of the per

Concentration	Volume of Diluent (ml) Added		
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5.0 U / 0.1 ml	1.0 ml	2.0 ml	
2.5 U / 0.1 ml	2.0 mi	4,0 ml	
1.25 U / 0.1 ml	4.0 ml	8,0 mi	

Shaking the vial gently after adding sterile normal saline to the complete dissolving. The reconstituted BTXA should be used at once or stored in refrigerator at 2 to 5°c and to be used within 4 hours. The container and the syringe used with the drug as well as the residual BTXA solution should be disposed after sterilization. SIDE EFFECTS Temporary plosis of the eyelid, drawback of the lower eyelid, recluded blinking, eyelid close incompletely, weakness of facial muscles, etc. may occur to a few patients who received BTXA therapy for blighterospasm and hamiltacide speams. However, all the symptoms will disappear without any therapy and different degree of plosis of the eyelid, vertical deviation and rarely mychiaes, which related to the diffusion of the toxin to the muscles adjocant, may cocur to some patients who received BTXA therapy for strainsmus. The symptoms will disappear without any therapy within a few weeks. CONTRAINDICATIONS BTXA is contraindicated in inclinations of the operation. Precading supposition of the programming precading the programming personal precisions will be precaded by special person and administrated only to the patients with above inclinations. Physicians activities the inclinations are active to the relations of sever, south infectious diseases and interpret women. Bottom, they to the patients who have fever, south infectious diseases and programmy women. Bottom turning the patients with the extension of the patients who have fever, south infectious diseases and programmy women. Bottom turning the patients with other to the patients in the following situations: strabismus above 50 prism diopters, fixed strabismus, Duane's syndrome due to week lateral rectus, strabismus caused by excessively corrected operation, chronic paralysis strabismus, chronic Vivil is an investigation of the patients who just received operation, chronic paralysis strabismus, chronic Vivil is an investigation of the patients who just received operation, chronic paralysis strabismus, chronic Vivil is an inve



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