

## CONSUMER MEDICINE INFORMATION

**BOTOX®** (botulinum toxin type A) purified neurotoxin complex

*The information in this leaflet is ONLY a summary and is not a complete statement about BOTOX® injection. Your doctor has more detailed information relating to you, your medical history and the product and should be consulted so that you will be informed about all aspects of BOTOX® injection as it relates to you.*

**Please read this leaflet carefully before receiving BOTOX® injection and keep this leaflet handy as you may want to refer to it in the future. If you have any concerns about receiving this medicine, ask your doctor.**

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This leaflet answers some common questions about

1. Product description
2. What BOTOX® injection is used for
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All medicines have benefits and risks. Your doctor has weighed the risks of using BOTOX® injection against the benefits expected from using it for you.

### **1. PRODUCT DESCRIPTION**

#### **What is BOTOX® injection?**

The injection contains a muscle relaxant obtained from the bacterium *Clostridium botulinum*.

#### **What is in BOTOX® injection?**

Each vial contains either 50 units (U), 100 units (U) or 200 units (U) of *Clostridium botulinum* toxin type A-haemagglutinin complex as the active ingredient. It also contains human albumin and sodium chloride.

#### **What it looks like**

The injection is supplied as a sterile white vacuum-dried powder in a clear glass vial. It is diluted before use with 0.9% sterile non-preserved sodium chloride injection.

### **2. WHAT BOTOX® INJECTION IS USED FOR**

#### **How BOTOX® injection works**

BOTOX® works by temporarily relaxing overactive or spastic (contracting) muscles.

BOTOX® injection can also block signals to the sweat glands thus reducing excessive sweating (hyperhidrosis), and can also block the release of chemicals in the brain associated with the cause of pain (chronic migraine). When injected into the bladder wall, BOTOX® works on the bladder muscle to prevent leakage of urine (urinary incontinence).

It is used to treat medical conditions associated with overactive muscles:

- causing excessive eyelid blinking (blepharospasm) in patients twelve years and over
- of the face (hemifacial spasm and VIIth nerve disorders)
- causing “lazy eye” or squint (strabismus)
- causing the head to be in an unusual posture or pain in the neck associated with twisting of the head (cervical dystonia) in adults

- in children aged two years and older, causing altered and unnatural position or movements in the hand and arm as well as legs, including those muscles that cause abnormal ankle position and walking gait (juvenile cerebral palsy)
- in adults, causing focal spasticity in the shoulders, hands, arms or legs (adult focal spasticity).

BOTOX® is also used:

- to treat overactive bladder with leakage of urine (urinary incontinence), the sudden urge to empty your bladder and needing to go to the toilet more than usual when another drug (called an anticholinergic) did not help. BOTOX® has been shown to markedly reduce leakage of urine and improve the quality of life of patients suffering from leakage of urine due to overactive bladder
- to treat leakage of urine (urinary incontinence) in adults with bladder problems due to neurologic disease. BOTOX® has been shown to markedly reduce leakage of urine and improve the quality of life of patients suffering from leakage of urine due to neurogenic bladder
- to treat headaches occurring in adults with chronic migraine
- to treat excessive sweating from the armpit area
- to improve the look of vertical frown lines that appear between the eyebrows, lines around the eyes and on the forehead
- to temporarily improve the appearance of moderate to severe vertical bands connecting the jaw and neck (platysma prominence) seen at maximum contraction in adults.

### **Availability**

The Ministry of Health has approved BOTOX® injection for the uses listed above. However, your doctor may use this medicine for another purpose. If you want more information, ask your doctor.

### **3. WHAT TO BE CAREFUL OF**

#### **BOTOX® injection must not be used if:**

- you are allergic to any of the ingredients listed in section 1 (Product Description)
- you have an infection in the muscles where it would normally be injected
- you have any muscle disorders in other parts of your body, such as myasthenia gravis or Eaton Lambert Syndrome
- you have a sudden onset of urinary tract infection (UTI) for patients being treated for urinary incontinence
- you have a sudden inability to empty your bladder (and are not regularly using a catheter) for patients being treated for urinary incontinence
- the container is damaged or shows signs of tampering, or if the product does not look quite right.

#### **Tell your doctor if:**

- you have any muscle disorders in other parts of your body, including amyotrophic lateral sclerosis
- you are taking or are likely to take antibiotics, especially aminoglycoside antibiotics you are taking anti-platelets (aspirin-like products) and/or anti-coagulants (blood thinners)
- you are being treated for leakage of urine and are not willing and/or able to begin using a catheter if required
- you are scheduled to have surgery using a general anaesthetic
- you have inflammation or severe weakness in the muscles where BOTOX® would be injected
- you have a breathing problem, such as asthma or emphysema
- you have swallowing problems
- you have bleeding problems
- you are pregnant or have the intention of becoming pregnant
- you are breast feeding or planning to start breast feeding
- you have ever had facial surgery
- you have drooping eyelids
- you have any other change in the way your face normally looks
- you have angle closure glaucoma

- you have problems with your heart or circulation
- you are taking medicines that may interfere with muscle function
- you have had seizures.

In these circumstances it may not be possible to use BOTOX®.

Tell your doctor if you have problems swallowing, speaking, or breathing. These problems can happen hours to weeks after an injection of BOTOX® usually because the muscles that you use to breathe and swallow can become weak after the injection.

Swallowing problems may last for several months. People who already have swallowing or breathing problems before receiving BOTOX® have the highest risk of getting these problems.

### **Taking other medicines**

Tell your doctor if you are taking any other medicines, including any that you get without a prescription from your pharmacy, supermarket or health food shop. Some medicines and BOTOX® may interfere with each other.

Especially tell your doctor if you:

- have received any other botulinum toxin product in the last four months
- have recently received an antibiotic by injection
- take muscle relaxants
- take an allergy or cold medicine
- take a sleep medicine.

## **4. HOW TO USE BOTOX® INJECTION**

BOTOX® injection should only be administered by a doctor familiar with the required technique. It must be dissolved in sterile non-preserved saline solution immediately before use, and should not be used in higher doses or more frequently than recommended.

In general, when treating adult patients, for one or more indications, the maximum total BOTOX® dose should not exceed 400 U in a three month period.

*The usual dosage of BOTOX® is as follows:*

### **For leakage of urine due to overactive bladder**

#### *Dosage*

Your doctor will give multiple injections into the bladder wall via a specific instrument (cystoscope). The total dose is 100 U of BOTOX®. You may be given a local anaesthetic before the injections (your bladder would be filled with anaesthetic solution for a while and then drained). You may also be given a sedative.

#### *Duration of treatment effect*

You will usually see an improvement within 2 weeks after the injection.

Typically the effect lasts 5 – 6 months after the injection.

When the effects start to wear off, you can have the treatment again if needed, but not more often than every 3 months.

### **For leakage of urine due to bladder problems associated with spinal cord injury or multiple sclerosis**

#### *Dosage*

Your doctor will give multiple injections into the bladder wall via a specific instrument (cystoscope). The total dose is 200 U of BOTOX®. You may be given a local or general anaesthetic before the injections. You may also be given a sedative.

#### *Duration of treatment effect*

You will usually see an improvement within 2 weeks after the injection.

Typically the effect lasts 8-10 months after the injection.

When the effects start to wear off, you can have the treatment again if needed, but not more often than every 3 months.

#### **Blepharospasm, Hemifacial Spasm and VIIth Nerve Disorders**

The recommended dose is 1.25 U to 2.5 U (0.05 mL to 0.1 mL) for each muscle injected. The initial effect occurs within 3 days, with the maximum muscle relaxation reached within 1-2 weeks, and lasting approximately 3 months. After this, you should return for a repeat dose. The total maximum dose in a two month period should not be more than 200 U.

#### **Spasticity in children two years and older**

The recommended total dose is up to 8 U/kg injected into the spastic muscles. The dose is dependent on the size of the spastic muscle and the degree of spasticity. The dose can then be repeated, but not more often than every 3 months.

#### **Focal Spasticity in Adults**

Your doctor will determine the appropriate dose and the number of injection sites based on the number of spastic muscles, the severity of the spasticity and the site and location of the muscles involved. Your doctor may also tailor your dose depending on any muscle weakness that may be present and your response to the injection. Improvement generally occurs within the first 2 weeks after injection, with maximum effect occurring after 4-6 weeks and the effect lasting approximately 3-4 months.

In general, the total maximum dose should not be more than 400 U divided among involved muscles for treating adult upper limb spasticity, and maximum dose of 400 U divided among involved muscles for treating adult lower limb spasticity in any treatment session.

#### **Strabismus**

The recommended initial dose is between 1.25 U – 2.5 U (0.05mL-0.1mL) or 2.5 U – 5.0 U (0.1mL-0.2mL) depending on the type of strabismus you have. The initial effect occurs within 1-2 days, with the maximum muscle relaxation reached within 1 week, and lasting approximately 2-6 weeks, then gradually fading away over a further 2-6 weeks. You should be re-examined 1-2 weeks after the first dose. If you need further doses once the first has worn off, you may receive up to twice the initial dose, depending upon your response. The maximum recommended dose is 25 U per muscle per injection, with a total maximum dose of 200 U in a two month period.

#### **Cervical Dystonia**

The recommended dose depends on the type of muscle spasm, the position of the head and neck, whether muscle weakness is present, where pain is felt, your weight and response to the injection. Your doctor will prescribe the proper dose for you. Improvement generally occurs within the first 2 weeks after the injection, with the maximum effect after 6 weeks, and the effect lasting approximately 3-4 months. In general, the total maximum dose in a 2 month period should not be more than 360 units.

#### **Chronic Migraine**

The recommended dose for treating chronic migraine is 155 U to 195 U administered intramuscularly as 0.1 ml (5 U) injections across 7 specific muscle areas in the head and neck. The dose can then be repeated every 12 weeks.

#### **Primary Hyperhidrosis**

Recommended dosage is 50 U of BOTOX® (2.0 mL) per armpit, evenly distributed in multiple sites approximately 1 – 2 cm apart within the armpit area. Injections should be repeated when the effects from the previous injection wear off, but not more often than every 4 months.

## **Upper Facial Lines**

The recommended injection volume per injection site is 0.1 mL. However, the optimum dose levels and number of injection sites per muscle may vary among patients. In general, the benefits obtained from BOTOX® treatment will vary between individual people and may depend on the severity of the frown lines.

### *Frown Lines*

The recommended dose of BOTOX® for the treatment of glabellar lines is 20 U. This is usually injected into the muscles around your eyebrows in 5 different places. Improvement in the severity of the lines generally occurs within one week after the injections and has been shown to last for up to 4 months.

### *Crow's Feet*

The recommended dose of BOTOX® injection for the treatment of crow's feet lines is 6-18 U per side. This is usually injected into the muscles around your eyes, where most lines are seen when a smile is forced, in 3 different places. Improvement in the severity of the lines generally occurs within one week after the injections and has been shown to last for up to 4 months.

### *Forehead Lines*

The recommended dose of BOTOX® for the treatment of forehead lines is 8-24 U. This is usually injected into the forehead muscle in 4 different places. Improvement in the severity of the lines generally occurs within two weeks after the injections and has been shown to last for up to 6 months.

**Vertical bands connecting the jaw and neck (platysma prominence) seen at maximum contraction**  
BOTOX® is injected directly into the muscle of the affected area at each side of the neck.

The usual dose is either 26, 31, or 36 Units. You will be injected with the recommended volume of 0.05 ml (2 Units) of BOTOX® into 4 sites in the upper segment of platysma muscle, below the jawline on each side. In addition, you will be injected with 0.025 ml (1 Unit) of BOTOX® into 5 sites along each vertical neck band, 1 to 2 vertical neck bands per side. Depending on platysma prominence severity, the total dose may be 26 Units (1 band/side), 31 Units (1 band one side, 2 bands other side), or 36 Units (2 bands/side). You cannot receive another treatment sooner than 3 months.

## **Use in pregnancy**

Use of BOTOX® when pregnant or breast-feeding is not recommended. Tell your doctor or pharmacist if you become pregnant while being treated with BOTOX®.

## **Use in children**

Use in patients below the age of 18 years has not been established for the treatment of urinary incontinence.

Use in children below the age of 18 years has not been established for chronic migraine.

Use in children below the age of 12 has not been established for blepharospasm, strabismus, VIIth nerve disorders, cervical dystonia, hyperhidrosis, or frown lines.

Use in children two years or older is only recommended for focal spasticity (e.g. juvenile cerebral palsy, spasticity of the arm, hip).

## **Things to be careful of**

- Tell your doctor as soon as possible if you do not feel well while being treated with BOTOX® injection.
- Be careful to resume activities gradually if you have had little exercise for a long time.
- Be careful driving or operating machinery until you know how BOTOX® affects you.
- If you are being treated for leakage of urine due to overactive bladder, you will be seen by your doctor approximately 2 weeks after the injection. You will be asked to pass urine and will then have the volume of urine left in your bladder measured using ultrasound. Your doctor will decide if you

need to return for the same test during the next 12 weeks. You must contact your doctor if at any time you find it difficult to pass urine because it is possible that you may need to start using a catheter. In clinical studies for patients being treated for leakage of urine due to overactive bladder, approximately 6% of patients not using a catheter before treatment for leakage of urine needed to use a catheter after treatment.

- If you are being treated for leakage of urine due to bladder problems associated with spinal cord injury or multiple sclerosis, you will be seen by your doctor approximately 2 weeks after the injection, if you were not using a catheter before the injection. You will be asked to pass urine and will then have the volume of urine left in your bladder measured using ultrasound. Your doctor will decide if you need to return for the same test during the next 12 weeks. You must contact your doctor if at any time you find it difficult to pass urine because it is possible that you may need to start using a catheter. In clinical studies for patients being treated for leakage of urine due to neurogenic bladder, approximately one third of patients not using a catheter before treatment for leakage of urine needed to use a catheter after treatment.

### **Overdose**

Telephone your doctor or National Poisons Centre on 0800 POISON (0800 764766) or go to casualty at your nearest hospital immediately if you think that you or anyone else may have swallowed or accidentally injected BOTOX<sup>®</sup> injection, even if there are no signs of discomfort or poisoning. You may need to be watched for several days for signs of muscle weakness or loss of muscle movement.

Tell your doctor if you feel any general weakness, or local muscle weakness in the weeks following your injection. There is an anti-toxin to the toxin in BOTOX<sup>®</sup>, but it is only likely to be effective if injected within 30 minutes after the BOTOX<sup>®</sup> injection. If you have questions or concerns, or are not sure about something, please consult your doctor or pharmacist.

## **5. SIDE EFFECTS**

All medicines can have side effects. Sometimes they are serious, most of the time they are not. Some patients may experience unwanted effects with BOTOX<sup>®</sup> treatment, and may need further medical treatment. Ask your doctor to answer any questions you may have.

**If while undergoing treatment with BOTOX<sup>®</sup> injection you experience any side-effects or symptoms which may be due to this medication (whether or not it is mentioned below) please inform your Doctor as early as possible.**

This product contains albumin, an extract of human blood. Based on effective donor screening and product manufacturing processes, it carries an extremely remote risk for transmission of viral diseases. A theoretical risk for transmission of Creutzfeldt-Jakob disease (CJD) also is considered extremely remote. No cases of transmission of viral diseases or CJD have ever been identified for albumin.

### **Things which may occur:**

#### **General**

Pain, tenderness, inflammation, tingling or numbness, swelling (including swelling of the eyelid following injection), redness of the skin, infection, bleeding and/or bruising at the site of injection, generally feeling unwell, dry eye, localised muscle twitching/involuntary muscle contractions and weakness. The following symptoms have been reported on rare occasions: changes in the way the heart beats, chest pain, skin rash and allergic reaction (symptoms: shortness of breath, wheezing or difficulty breathing; swelling of the face, lips, tongue or other parts of the body; rash, itching or hives on the skin).

In some cases, the effect of botulinum toxin may be observed beyond the site of injection and the following symptoms may occur:

- loss of strength and muscle weakness
- drooping of the upper eyelid

- double or blurred vision
- trouble speaking or saying words clearly
- constipation
- aspiration pneumonia (serious lung infection)
- trouble swallowing or breathing, which can be life-threatening.

These symptoms can happen hours to weeks after injection and are more likely to occur in patients treated with high doses or who have underlying conditions that would predispose them to these symptoms.

Tell your doctor immediately or go to Accident and Emergency at your nearest hospital if you experience any of the above symptoms.

Injections in the bladder wall for leakage of urine due to overactive bladder

Very common side effects: urinary tract infection, painful urination after the injection\*.

Common side effects: bacteria in the urine, inability to empty your bladder (urinary retention), incomplete emptying of the bladder, frequent daytime urination, blood in the urine after the injection\*\*.

*\* This side effect may also be related to the injection procedure.*

*\*\*This side effect is only related to the injection procedure.*

If any of the side effects gets serious, or if you notice any side effects not listed in this leaflet, please tell your doctor or pharmacist.

Injections in the bladder wall for leakage of urine due to bladder problems associated with spinal cord injury or multiple sclerosis

Very common side effects: urinary tract infection, inability to empty your bladder (urinary retention).

Common side effects: difficulty in sleeping, constipation, muscle weakness, muscle spasm, bulge in the bladder wall, tiredness, problems with walking, fall.

Common side effects related to the injection procedure: blood in the urine after the injection, painful urination after the injection, possible uncontrolled reflex reaction of your body (e.g. profuse sweating, throbbing headache or increase in pulse rate) around the time of the injection.

### **Blepharospasm, Hemifacial Spasm or VIIth Nerve Disorders**

Drooping of the eyelids, irritation or tearing, dry eye, not being able to close the eye, sensitivity to light, dizziness and tiredness. Less commonly, inward or outward turning of the eye, inflammation of the eye, double vision, and swelling of the eyelid skin lasting several days.

### **Spasticity in children two years and older**

Falling, clumsiness, leg pain, weakness of the leg, localised and generalised muscle weakness. Less commonly, leg cramps, fever and knee or ankle pain, increased frequency of passing urine, joint dislocation and muscle spasms.

### **Focal Spasticity in adults**

Most side effects that have been reported in patients being treated for focal spasticity were mild to moderate and got better without needing medical attention. Side effects reported include: nausea, pain in extremities such as hands and feet, tiredness and swelling of the extremities such as hands and feet.

### **Strabismus**

Disorientation, double vision, or inability to focus the eyes properly, drooping of the eyelids. Less commonly, perforations of the white of the eye during injection, bleeding inside the eye, change to the pupil where it may become slow to react to light; but none of these have resulted in loss of vision.

### **Cervical Dystonia**

Soreness or bruising where the injection was given, difficulty in swallowing, neck pain, weakness of the neck, and less commonly, general weakness. Side effects, if they occur, tend to appear in the first week after injection, and last about two weeks.

However, in rare instances, patients may have difficulty in swallowing that could persist for longer than two weeks after injection and may develop into a more serious condition. Make sure you tell your doctor if you experience any difficulty in swallowing.

### **Chronic Migraine**

Loss of movement on the face, drooping of the eyelids, skin rash, itching, pain at the injection site, neck pain, muscle pain, tenderness or weakness, muscle spasms or tightness. Less commonly, pain of skin, pain of jaw and difficulty in swallowing. Mephisto sign (quizzical or Spock's eyebrow, when the outer end of the eyebrow is located above the inner end) has been reported in post-marketing experience.

Headache, including worsening migraine, has been also reported, usually occurring within the first month after treatment; however, these reactions did not always reoccur with following treatments and the overall incidence decreased with repeated treatments.

### **Primary Hyperhidrosis**

Increase in sweating in other areas of the body, and pain at the injection site.

### **Frown Lines**

Drooping of the eyelids, headache, face pain, redness, swelling at the injection site, bruising, skin tightness, muscle weakness, numbness or a feeling of pins and needles or nausea were among the more common effects reported in clinical trials. Inability to completely close the eyelid and Mephisto sign (quizzical or Spock's eyebrow, when the outer end of the eyebrow is located above the inner end) have been reported in post-marketing experience.

### **Crow's Feet**

Bruising at the injection site, headache and flu-like symptoms and inability to completely close the eyelid.

### **Forehead Lines**

Headache, bruising, drooping of the eyebrows, eyelid swelling, aching/itching forehead, nausea, feeling of tension and flu-like symptoms.

### **Vertical bands connecting the jaw and neck (platysma prominence) seen at maximum contraction**

**Uncommon:** may affect up to 1 in 100 people

- difficulty swallowing
- weakness in the lower part of the face.

## **6. STORAGE AND DISPOSAL**

- BOTOX® should not be used after the date marked on the label (expiry date).
- KEEP ALL MEDICINES WHERE YOUNG CHILDREN CANNOT REACH THEM.
- BOTOX® should be stored in the refrigerator. The injection should be given within 24 hours after being reconstituted, and stored in a refrigerator during this time. The injection should be clear, colourless and free from particles. Each vial is intended for use by a single individual patient.

## **7. FURTHER INFORMATION**

If you have any further questions on your BOTOX® treatment, or are unsure of the information, please see your doctor, who will be able to assist you.



**Manufacturer/Supplier**

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