What is botulinum toxin for facial wrinkles?
The first signs of aging are often wrinkles around your eyes, forehead, cheeks, and lips. Wrinkles are a normal feature of the human face. But many people feel wrinkles make them look tired or older.

To reduce the appearance of wrinkles, some people choose to have injections (shots) of botulinum toxin. These injections are often called by their brand names, such as Botox®, Dysport® or Xeomin®. The injections relax certain muscles in the face, and certain wrinkles become less noticeable for a period of time.

Types of wrinkles
There are two types of wrinkles: dynamic wrinkles and very fine lines and wrinkles.

Dynamic wrinkles are caused by facial muscles that move when you smile, laugh, and squint. These are often around the lips, on the forehead and between the eyebrows. They are also the “crows’ feet” at the corner of your eyelids. Everyone is born with dynamic wrinkles. As you age, these wrinkles get deeper and easier to see. Botulinum toxin can be used to make these dynamic wrinkles less noticeable.

Very fine lines and wrinkles are formed when collagen in the skin starts to thin. Collagen is protein just beneath and within deep skin layers. Aging and sun damage cause collagen thinning. It makes the skin on your face stretch and sag, creating fine wrinkles. Botulinum toxin does not erase fine lines and wrinkles. However, there are other ways to reduce their appearance.
How botulinum toxin works

Botulinum toxin is produced by a specific type of bacteria. In higher amounts, it can be poisonous. However, only small, weaker doses of botulinum toxin are used to reduce facial wrinkles.

When botulinum toxin is injected, it blocks certain nerve signals that make muscles contract. The muscles relax, reducing unwanted wrinkles. This effect lasts about 3–6 months. After that, the muscles move again and wrinkles come back.

When you have botulinum toxin injected, your doctor may first rub an anesthetic cream on the area to numb it. Then he or she will inject the medicine into specific facial muscles. This only takes a few minutes, and can be done right in the doctor’s office. You will be able to continue your daily activities right afterwards.

About 3 days after the injection, you should notice some muscles starting to relax. After 1 week, you likely will see fewer facial wrinkles and lines. This effect wears off in about 3–6 months.

Botulinum toxin injections usually work for wrinkle reduction.

For most people, these injections help wrinkles go away. But for some people, wrinkles may look just the same. Talk with your doctor about what to expect from botulinum toxin injections. He or she can tell you about other wrinkle-reduction options if injections do not work for you.

Who can get botulinum toxin injections?

You need to be healthy and at least 18 years old before you can get botulinum toxin injections.

Some people should not get botulinum toxin. They include those who:

- have a neuromuscular disease (such as multiple sclerosis or myasthenia gravis)
- are pregnant or nursing
- have weakness in certain facial muscles
- have ptosis (drooping eyelids), deep facial scars, very thick facial skin, or uneven facial features (when features are not the same on both sides of the face)
- have skin problems near the injection area

If you are planning to get botulinum toxin injections, tell your doctor about your medical history and all the prescription medicines, vitamins, and herbal supplements you take.

While botulinum toxin injections may help, they sometimes cause side effects or other health problems. Common side effects include:

- headache
- eye redness, tearing, or irritation
- redness or bruising in the injection area. This is more likely to happen if you take aspirin or blood-thinning medicine. Ask your doctor if you should stop taking those medicines a few days before getting a botulinum toxin injection.

A less common but more serious side effect is ptosis (drooping eyelids). This can make it hard to see. Ptosis should go away when the botulinum toxin wears off in a couple of months.

To help reduce the possibility of side effects, your doctor may recommend using eye drops or ointment after a botulinum toxin injection. You may also be asked to sit upright (not lie down) and avoid pressing on the treated area for about 4 hours after the injection. Also, your doctor may recommend you not exercise for 24 hours after treatment.

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Thinking about getting botulinum toxin injections for wrinkles?

Talk with your ophthalmologist. He or she is an eye medical doctor and surgeon. They are the most familiar with your eyes, including the muscles and structures surrounding them.

Summary

As you age, it is normal to get wrinkles around your eyes, forehead, cheeks, and lips. Botulinum toxin injections can reduce the appearance of these wrinkles by relaxing certain muscles in the face. This effect lasts about 3–6 months.

For most people, botulinum toxin injections work to make certain wrinkles go away. However, some people find it does not work for them. They can discuss other wrinkle-reducing options with their doctor.

Like any medication or procedure, botulinum toxin injections carry possible risks or unwanted side effects. People thinking about having these injections should discuss these risks and options with their ophthalmologist.

If you have any questions about your eyes or your vision, speak with your ophthalmologist. He or she is committed to protecting your sight.
Get more information about botulinum toxin from EyeSmart—provided by the American Academy of Ophthalmology—at aao.org/botox-link.