

## Wrinkles

Botulinum Toxin A blocks the transmission of nerve impulses to desired muscles by selectively preventing the release of the required neurotransmitter (acetylcholine) at the neuromuscular junction. This results in a weakening or complete paralysis of the muscle. As new neuromuscular junctions form, the muscle function returns. This takes approximately 4- 6 months.

The treatment is administered by injection into selected muscles to obtain the desired result. The amount of the drug and the placement of the injections determines which muscles are weakened and how much.

The deeper a wrinkle is to start with the longer the muscles will have to be blocked to smooth it out. When the muscles begin working again the wrinkle starts forming again.

Injections can be used to reduce the wrinkles in the forehead, between the eyebrow's (used when frowning), around the eyes (crows feet) and around the mouth. Can also raise the eyebrows, lift the neck and subtly enlarge the lip.

After the treatment you are advised to avoid bending down, massaging the area, drink alcohol and exercise for the rest of that day in order to avoid spreading the effect of the drug to undesirable areas by increasing the blood flow to the treated area.

The potential complications are:

Drooping eyelids

Small bruise

If you develop antibodies to the product it will not work

Contraindications for treatment :

Pregnancy and nursing mothers

Neuromuscular disease (MS and Myasthenia Gravis)

If you are taking any of the following medication:

Streptomycin

Tobramycin

Gentamycin

Penicillamine

Quinine blockers

Calcium blockers