

## **Princeton Dermatology Associates**

301 North Harrison Street Suite 1E  
Princeton, NJ 08540  
609-683-4999  
Fax: 609-683-0298

5 Centre Drive Suite 1A  
Jamesburg, NJ 08831  
(609) 655-4544  
Fax: 609-655-2390

### **Frown Line FAQs**

**Q. What are frown lines?**

A. Frown lines are lines that form in the skin most often vertically between the eyebrows, but at times also horizontally at the bridge of the nose.

**Q. How do frown lines form?**

A. This is a very interesting question. These form as a result of the action of the muscles adjacent to inner eyebrows, the bridge of the nose, and the lower mid forehead, natural aging, and sun exposure. This causes a reduction primarily in collagen and less so other substances in the second layer (dermis) of the skin.

**Q. What can I do to treat frown lines?**

A. Dr. Kaufmann treats frown lines primarily with Botox to relax the muscles that contribute to this problem. Often this is enough to make these lines much less noticeable. Occasionally, if the lines are deep Juvederm may be added to give the desired result. This may be done at the same visit or at another time. See the individual product FAQ sheets for further details.

**Q. How long does Botox® take to work? How long does Botox ® last for frown lines? Will I need more injections?**

Experience tells us, it takes 7 to 10 days for most patients to see the effects. Some patients notice the effects in as few as 3 days. Most patients get 90% relaxation of these muscles. Dr. Kaufmann has been treating patients with Botox since 1992. The treatment parameters he follows avoid a frozen forehead! A recent study in the USA showed that Botox lasted from 3 to 8 months for upper facial wrinkling, in most patients it lasts 3 to 5 months. Yes, repeated injections are performed to maintain a benefit over a long period of time, often three times a year. The treatment can be performed for as long as is desired. With continued treatments the effects are more lasting. When combined Botox allows Juvederm to last the normal amount of time approximately six months. If used alone, Juvederm would be torn down by the action of these muscles.

***If you would like more information on the treatment of Frown lines, please contact:***

***Dr. Roderick T. Kaufmann, Jr., at (609) 683-4999 or (609) 655-4544.***

***Or schedule a visit at our conveniently located offices.***