

## **Press Release**

### ***QR678 Hair Growth Factor Injections Help Provide Thicker, Fuller-Looking Hair!***

**The Esthetic Clinics publishes its clinical results of the QR 678 hair growth factor Injections, in a top American Journal, to provide a solution to baldness**

**Surat, March 2018: The Esthetic Clinics led by chief investigator Dr. Debraj Shome, a world renowned and acclaimed Facial Plastic Surgeon, and Dr.Rinky Kapoor, a well-known dermatologist published the First-In-Man Clinical research study to assess the efficacy and safety of the QR 678 intradermal injections in reducing hair loss and enhancing hair growth, in a top American journal.**

Thinning hair or hair loss is a highly common occurrence with more than one in two people across the globe experiencing some level of thinning. However, for something that affects so many people, there is a shocking lack of helpful, clear and consistent information available on what thinning hair or hair loss is and why it occurs. It's true that men are more likely to lose their hair than women, mostly due to male pattern baldness. But, thinning hair and hair loss are also common in women, and no less demoralizing. 95% of baldness or hair loss is due to alopecia. In a man that's most commonly seen as the "m" shaped baldness where the hairline recedes and in a woman, it's seen that the hair becomes thinner all over the head. Changing lifestyles of people such as the increasing consumption of alcohol, tobacco, and other associated products, increasing stress levels and the increasing prevalence of various chronic diseases such as arthritis, depression, PCOS, diabetes mellitus, hypertension, and cancer are the key factors driving the growth of the alopecia market.

Key current treatments for alopecia include oral treatments, topical interventions and scalp treatment, all of which are expensive & have multiple side effects.

Thus, Dr. Debraj and Dr.Rinky at The Esthetic Clinics, thought it was imperative and the call of the hour to find a way to reduce hair loss and improve hair growth in individuals. They developed a breakthrough in hair loss treatment with a formulation named QR678. This hair formulation was developed in 2009 and has since been awarded with a USA patent by the United States Patent & Trademark Office, in July 2017.

To prove the efficacy of the QR 678 hair injections in treating hair loss, Dr. Shome & Dr. Kapoor started a clinical trial with a total of 1000 patients across India and with specifically 75 patients from Gujarat.

These patients, who ranged from 20 to 60 years of age, were injected the QR 678 hair growth factor formulation, in the superficial scalp skin. They were called in once every three weeks for a total of 8 sessions and a hair pull test was performed, before every session.

The hair formulation QR678 is a bioengineered, recombinant formulation, consisting of a combination of growth factors that was prepared and administered intradermally, and is known to prevent hair loss and stimulate hair growth.

Dr. Debraj studied various growth factors for hair follicle growth and thus created the hair formulation containing the growth factors like Vascular Endothelial Growth Factor, Basic Fibroblast Growth Factor, Insulin like Growth Factor, Keratinocyte Growth Factor, Thymosin  $\beta$ 4 & Copper tripeptide 1; suspended in a sterile injectable vehicle. All these growth factors are safe, cheap, & non-allergenic tools, in the management of alopecia & most importantly this formulation has no side effects.

The key results of this First-In-Man Pilot Clinical study are as below:

- Significant reduction in hair fall was seen in 83% patients, on hair pull test
- Videomicroscopic image evaluation showed that most patients had a decrease in the number of vellus (short, thin) hairs, increase in number of terminal (thicker, longer) hairs & increase in shaft diameter
- 75% patients believed that the hair injections were aiding the treatment of their hair loss, & it was also beneficial in post-hair transplant patients
- The treatment was effective in improving the appearance of scalp hair in men and women with patterned hair loss
- Total 15% of patients reported occasional slight itching on the scalp
- At one year, a statistically significant increase in total hair count continued to be seen. Treatment was extremely well tolerated, with no side effects.

Thus, it was concluded that the Intra-dermal injections of the QR 678 hair growth factor injections, may be a promising option for treating male as well as female patterns of hair loss.

The findings of this study suggested that this formulation of multiple growth factors (QR 678) was safe and effective in treating male as well as female pattern hair loss and alopecia.

The QR678 hair formulation has also been awarded a composition patent (the most difficult form of patent to acquire) by the United States Patent and Trademark Office (USPTO), on 11<sup>th</sup> July 2017.

This landmark research has been published in the Journal of Cosmetic & Laser Therapy, a top American peer reviewed journal and the QR 678 hair injections are now on the way for commercial manufacture and sale in India & all over the world – Truly, a landmark ‘Made in India’ story of top quality research from India.

#### **About Dr. Debraj Shome:**

Dr Debraj Shome is a Facial Plastic Surgeon, with multiple awards and research grants to his credit. Dr. Debraj Shome trained in the USA, Germany, Singapore & India and is one of the leading / best Facial Plastic & Cosmetic Surgeons in the world. Dr. Debraj Shome is the Co-Founder and currently heads The Esthetic Clinics, which are a chain of top dermatology & plastic surgery centers located in Mumbai, Surat and Hyderabad currently.

#### **About Dr. Rinky Kapoor:**

Dr. Rinky Kapoor, is a renowned cosmetic dermatologist & laser expert. She is Director of The Esthetic Clinics, ([www.theestheticclinic.com](http://www.theestheticclinic.com)), located at Mumbai, Surat & Hyderabad currently.

### **About The Esthetic Clinics:**

The Esthetic Clinics are a group of world-class centres, dedicated to plastic surgery & skin care of the entire body. They practice evidence-based medicine & perform cosmetic surgery for beauty, plastic surgery for birth abnormalities, plastic surgery for fractures, trauma & cancer induced facial deformities, provide laser surgery & many cosmetic solutions for skin cosmesis, as well as provide therapy for many skin & hair diseases. The Esthetic Clinics are currently located at stand-alone centers & also many reputed hospitals in Mumbai, Hyderabad & Surat India. The Esthetic Clinics were voted as the “Most Promising & Innovative Cosmetic Clinics 2016” at the historic Pharma Leaders’ Summit & Awards 2016. Besides top quality patient care, what makes The Esthetic Clinics unique is their focus on cutting edge research, leading to many inventions like the QR 678 hair growth factor injections.