

INNOVATIVE APPLICATIONS OF PREHEATED CARBOXYTHERAPY FOR HAIR LOSS TREATMENT

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INTRODUCTION

Hair is made up of protein called keratin. An average adult head has about 100.000 to 150.000 hair. We lose 100 hair a day. As follicles produce new hair cells, old hair cells are forced out through the skin. Each follicle has its own life cycle, which can be influenced by age, diseases and other factors, and is divided in three phases:

Anagen (or hair growth phase),

Catagen (or cessation phase),

Telogen (or resting phase).

As people age, their rate of hair growth slows down.

DISCUSSION

Hair loss and thinning hair are caused by a combination of factors, including genetics and poor circulation.

It may occur as a natural part of aging, due to diseases, medications, poor diet, heredity, male pattern baldness or hormonal changes associated with pregnancy, menopausal changes, emotional stress, illness or injury.

There are varying types of hair loss such as:

- **Androgenic Alopecia/male pattern baldness:** this is the most common type of hair loss and it is usually seen in men. Female hair loss is also common and affects about 30% of the female population. Androgenetic alopecia is genetically predisposed hair loss. The follicle begins to produce hair with a shorter growth cycle and continues growing weaker and thinner hair during each succeeding cycle. This usually affects the top and crown.

- **Telogen effluvium:** it is most commonly seen in women. The hair

loss is distributed across the scalp. It can occur at any age; its onset can be quite sudden and it is often noticed by an increase of shedding hairs during washing or grooming. It usually appears as a decrease in hair density, instead of a bald patch.

- **Alopecia areata:** approximately 2% of the population develops this condition. There are one or more patches of reversible baldness.

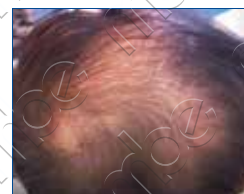
- **Traumatic alopecia**

- **Traction alopecia**

- **Cicatricial alopecia.**



Before



After

There are different options of treatment, as laser light therapy, hair transplant surgery, mesotherapy, drugs, platelet-rich plasma, carboxytherapy and Oxygen Infusion.

Carboxytherapy was born in France more than 80 years ago.

Its beneficial effects were initially observed in the Royat spa, when it was found out that patients bathing in the thermal waters rich in carbon dioxide showed quicker wound healing.

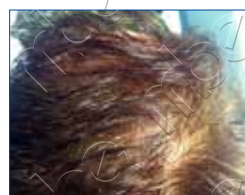
Since then, it has been proven that carboxytherapy can improve blood circulation, enhance skin's elasticity, etc.

As a result, this treatment method is gaining ground constantly in the field of dermatology, since the range of applications covers both medical and cosmetic needs of skin and hair.

This therapy acts directly in the bulb, which constitutes the vital part of hair and whose alterations are a major cause of hair thinning and hair loss.

During the treatment, CO2 injections are performed in those areas of the scalp where hair thinning is observed. The aim is to enhance oxygenation and therefore nutrition of the weak hair follicles.

This treatment takes advantage of a completely natural process of our organism.



Before



After