

## THE EVOLUTION OF CHEMICAL PEELINGS AND THEIR COMBINATIONS

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To revitalise the skin and always keep it fresh and radiant has, for a long time, been the goal of medical professionals and the cosmetic industry.

Retinoic Acid was the first chemical substance that obtained successful results in skin revitalisation, although its use was limited, because of its irritability on the more sensitive skins. Glycolic Acid is currently the most popular chemical agent amongst Dermatologists and Plastic Surgeons, because of its ease of use, and the normality of the skin during the treatment. These two substances have been shown to be very efficient in the treatment of skin that has been damaged to a lower degree, and can improve the more severely damaged photoaged skin. Generally, the more severe skin lesions are deep in the epidermis and because of this, require a more aggressive, and severe treatment, so that they can be effectively eliminated.

Different chemical peeling systems (Jessner Solution, Resorcine, Liquid TCA and Phenol), Mechanical Peeling (Dermoabrasion) and Physical Peelings (CO<sub>2</sub> and Erbium YAG Lasers) were all developed to work deeply in the skin and remove more complex epidermal lesions. Because of the complexity of these more aggressive treatments, only a few medical professionals have been trained to work with these peelings that cause large exfoliation and require long periods for the skin to recover.

In an attempt to simplify the peelings, which have the capacity to promote efficient epidermolysis, we are using formulations containing **Trichloroacetic Acid 30% (TCA)** in the form of a **chelated lotion** (a process that limits the penetration of the TCA into the dermal layer, avoiding unnecessary necroses in this layer of the skin) The resulting peeling is efficient and causes less localised inflammation. This peeling requires that the medical professionals be properly trained.

**Yellow Peel** is the latest, and weaker chemical peeling, which can promote the elimination of the epiderm at different depths, and it can also be tailored to the type of lesion. This peeling uses the exfoliant action of the Retinoic Acid (in high concentrations) together with the action of three substances, which block the synthesis of Melanin (Phytic Acid, Kojic Acid and Azelaic Acid). This peeling can be used for the treatment of Epidermal Melasma, Benign Hyperchromic Lesions of the Epidermis, Superficial Wrinkles and Superficial / Medium Acne Sequels. This peeling is easy to apply, and when repeated, can provide the same benefits as the more aggressive peelings.