

## The unsaturated fatty acids for scar tissue modulation

Barbara Diaz

Plastic Aesthetic & Reconstructive Surgeon, Argentina

### Abstract

Scar tissue usually generates serious discomfort in the short and long term. Anaesthetics sequelae, pruritus, joints malfunction, new wounds on the surface of the scar and pain are common symptoms. There are several treatments for scars, like compression, topical or intralesional infiltration steroids, 5-fluorouracil, dermabrasion, surgeries with new scar tissue. For adult patients, it is easier to choose the treatment. However in children, compression is for regular use, trying to avoid treatments that involve adverse effects. This is a report about four patients, 2 adult woman before abdominoplasty and two post burn scar treatments, who showed significant changes after the continuous use of a ointment composed of Petrolatum, Cod Liver Oil as Active Ingredients; BHT, Chamomilla Recutita (Chamomile) Oil, Helianthus Annuus (Sunflower) Oil and Prunus Amygdalus Dulcis (Sweet Almond) Oil. Unsaturated fatty acids alter cutaneous structural and immunological status since they constitute the stratum corneum, and they can alter the permeability of the skin. They also interfere with maturation and differentiation of the stratum corneum and inhibit production of proinflammatory eicosanoids, reactive species (ROS and RNS), and cytokines, thus influencing the inflammatory response and possibly wound healing.

This presentation aims to share the experience in adult and pediatric patients, in a period of three months, with the regular use of an ointment that could increase proinflammatory cytokine production at wound sites with a noninvasive, therapeutical and effective cutaneous wound healing and scarring modulation. This physiopathological explanation, could be the cause of a nimble improvement in scars.

### Biography

Dr. Barbara Diaz is a Licensed Professional in Plastic, Aesthetic and Reconstructive Surgery by The Argentinian Health Ministry. She works as Staff Surgeon in the Surgery Department in Ricardo Gutiérrez Children's Hospital, in Buenos Aires City. She has twenty years of experience working in Aesthetic Medicine and Chronic Wounds Treatment. She has been working as a Burn Surgeon for thirteen years, in Burn Assistance in Buenos Aires. Worked in Buenos Aires Province NK Hospital in Plastic, Wound and Burn Surgery Department for four years. She is a Member of Argentinian Burn Association Steering Committee, and The Argentinian Society of Trauma Medicine and Surgery, also in the Directive Board, in the Plastic Surgery and Burns Committee.