

# CELLBOOSTER®: A NEW ERA IN INJECTABLE BOOSTERS WITH PATENTED CHAC TECHNOLOGY

**Suisselle unveils the benefits of its brand-new CELLBOOSTER® range developed with its exclusive patented CHAC technology, which allows for the first of its kind stabilised booster complex without the use of a binding agent**



**GABRIEL SIQUIER-DAMETO, MD**, is an aesthetic physician, founder and director of Dameto Clinics International and member of the research group NEOMA, University of Girona, Spain

**C**ELLBOOSTER® IS A NEW CATEGORY OF skin boosters. It is not a regular blend of active ingredients but stabilised complex boosters born from the patented CHAC technology, developed by Suisselle. The CELLBOOSTER® products are a CE-marked\*

**Class III Medical Device.**

CHAC technology provides the opportunity to create high molecular weight hyaluronic acid (HMW-HA)-based products that can effectively and efficiently deliver vitamins, minerals, and amino acids to the skin. This technology allows for the development of formulas that can answer patients' specific needs with long-lasting anti-ageing results.

To improve and regenerate the skin at a cellular level, the CELLBOOSTER® product range has four different formulations to target specific skin issues.

## CHAC technology in brief

CHAC Technology provides a way to integrate biologically active ingredients into hyaluronic acid (HA) macromolecules under mechano-stimulated conditions, such as simultaneous pressure and shear deformation. This technology modifies and exploits the natural features of HMW-HA. Bioactive components such as vitamins and amino acids are simultaneously integrated and uniformly distributed onto the HA macrochains, forming a large complex that can be viewed as an exclusive macromolecular 'depot' of biologically active material. Multiple molecular complexes are formed using CHAC technology. These molecular complexes are based on the formation of weak and reversible bonds between the bioactive components and HA. In this way, the active components are protected within the supramolecular HA complexes, and HA is partially protected from hyaluronidase degradation. The resulting stabilized HMW-HA then becomes an optimal vehicle for transporting active and essential nutrients to the skin, ensuring their effective delivery and improved bioavailability for longer-lasting results.

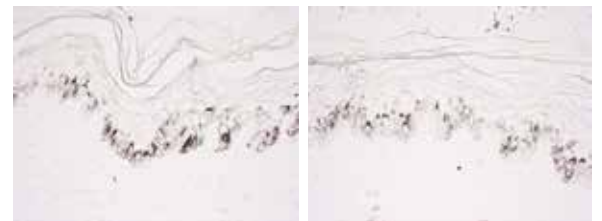
## CELLBOOSTER® Glow study results

In France, Dr. Sylvie Boisnic conducted an independent study at the GREDECO Laboratory. The study aimed to

demonstrate the depigmenting and anti-ageing effectiveness of CELLBOOSTER® Glow injected into the dermis of human skin. Therefore, an ageing experiment was performed by exposing the skin to ultraviolet rays. An anti-ageing effect was observed after injection of CELLBOOSTER® Glow, with a significant increase in pro-collagen type I, elastin, and sulfated glycosaminoglycans. The depigmenting effect of CELLBOOSTER® Glow was also demonstrated by a significantly decreased number of pigmented cells (*Figure 1*).

## Focus on CELLBOOSTER® Shape (HMW-HA + L-carnitine + vitamin C)

CELLBOOSTER® Shape takes advantage of CHAC technology with a combination of two key ingredients in its formulation, L-carnitine and vitamin C. The role of L-carnitine, together with vitamin C as a cofactor, is to reduce fatty acid deposits in adipocytes. Carnitine improves the transport of fatty acids into the mitochondria, so they can be broken



**Figure 1** (Left) Control skin and (Right) skin after 1 injection with CELLBOOSTER® Glow (Fontana staining, x400)




**Figure 2** (Left) before and (Right) after double chin treatment using 3 sessions with 2 weeks intervals with CELLBOOSTER® Shape, Pictures courtesy of Dr. Marco Cerrano (Switzerland)

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down through  $\beta$ -oxidation to acetyl CoA to obtain usable energy via the Krebs cycle. This becomes a natural way to diminish local fat accumulation without the need to damage adipocytes, as in other methods. In addition, L-carnitine can suppress inflammation, reduce oxidative stress, and modulate cell metabolism. The combination with vitamin C will enhance the activity, as with adequate levels, approximately 30% more fat can be oxidized. The continuous and sequential delivery of these ingredients into the tissue using CHAC technology will improve and accelerate the results without cellular damage; thus, no burning sensation or inflammation will occur.

### Benefits for patients

The effect on patients is stable and noticeable. Thanks to the unique components of each formulation, the CELLBOOSTER® range can address various skin issues. It is very effective and instantly improves dull, tired-looking skin and superficial wrinkles. In addition, it ameliorates sluggish blood circulation, aiding the body in flushing out ageing toxins. CELLBOOSTER® can also be used to address hyperpigmentation, skin dryness, non-cicatricial alopecia and 'lit-from-within' skin glow. With a quick course of three sessions, 2 weeks apart, patients can expect results to last up to 4 months. For optimal results, it is recommended that patients continue the treatment once every 1-2 months to maintain their desired appearance. Another benefit is that CELLBOOSTER® products increase the elastin, hyaluronic acid, and collagen production in the body, improving well-being and appearance. Each treatment plan is unique to every patient, and different products can be combined depending on the aesthetic needs of the patient. Full success was observed when the treatment was complete. 

**For more information, visit: [www.suisselle.com](http://www.suisselle.com)**

► \*Medical Devices Class III, regulated health products bearing the CE marking (CE 0373). Only to be administered by appropriately trained healthcare professionals who are qualified or accredited in accordance with national law.



**Figure 3 (Left) Before and (Right) after 3 sessions with 2 weeks intervals with CELLBOOSTER® Glow.** Pictures courtesy of Dr. Gabriel Siquier (The Netherlands)



**Figure 4 (Left) Before and (Right) after 3 sessions with 2 weeks intervals with CELLBOOSTER® Lift.** Pictures courtesy of Dr Gabriel Siquier (The Netherlands)



**Figure 5 (Left) Before and (Right) after alopecia areata barbae treatment with CELLBOOSTER® Hair. Results after 6 sessions with 2 weeks intervals.** Pictures courtesy of Dr. Gabriel Siquier (The Netherlands)

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