

# New cryoadipolysis device with four handpieces and 360° cooling coverage: A clinical study of efficacy and safety



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## Biography

Medical surgeon, with master's degree in aesthetic and cosmetic medicine and physiological aging, certified in nutrition, dietetics, and ergogenic aids with special interest in metabolic issues and non-surgical body contouring treatments. Speaker at conferences of aesthetic medicine in countries such as Russia, Romania, Dubai and HK. Author of scientific articles related to the technique of cryoadipolysis and its adverse effects (lipodystrophies or hyperplasia's), as well as laser technologies. Currently in charge of medical affairs in the clinical department of cocoon medica.

## Abstract

Cryoadipolysis is a non-invasive technique for complete body remodeling. It is a permanent fat reduction option for patients with localized unwanted fat. Due to the unique advantages of the technology, it provides multiple benefits compared to other options. The objective of this study is to evaluate the efficacy and safety of the new Cooltech Define 360° device with the use of four simultaneous applicators. A simultaneous multi-procedure was performed on up to 4 areas with different homogenous cooling applicators, on 23 subjects and a total of 69 areas treated. All subjects received one session per area. Clinical data was well recorded with assessments completed before and after the procedure under evaluation using calipers, perimeter measurements and iconography. All potential side effects were also well documented. The results showed the average skin fold reduction to be -7.80 mm ( $\pm 3.46$  mm) with a maximum change of 20 mm (50% reduction), and the average circumference reduction was -32.3 mm ( $\pm 18.6$  mm) with the highest result achieved in this study being 80 mm. Good results were shown in all treated areas for all applicators used on both genders. The level of patient and clinician satisfaction was high with all 23 subjects. The treatment was safe, subjects had no complaints about side effects and felt that the treatment presented no disruption to their daily schedule. In conclusion, the new Cooltech Define device has 4 applicators that can provide up to 4 simultaneous treatments in one session and, thanks to the new applicator design, provides faster and homogenous cooling. It achieves superior results for localized unwanted fat reduction while also providing greater patient comfort.

## Publications

Vargas R, Viera-Mármol G, Sánchez R, Villena J, Ferrández JA, Cano C, Adell N, Rubio D (2021), Paradoxical Adipose Hyperplasia after Cryoadipolysis: A Colombian Observational Study, International Research Journal of Pharmacy and Medical Sciences. 2021. 6(4): 30-35

Villena-García J., Viera-Mármol G., Cano-Ochoa C, Vargas-Lamas R, Adell-Gómez N, Altaba-Rosas Mar, Buendía-Bordera G (2020) Preliminary clinical validation of cryoadipolysis treatment under effects of ischemia simulated by COMSOL Multiphysics® software. Aesthetic Medicine. 2020. 6(4): 30-35

Vélez-González M, Castro D, Fajardo-Urdiales C, Pérez MLI, Viera- Mármol G (2019) Study on the reduction of the localized panniculus adiposus (adipocyte lysis) through the use of controlled cooling system. International Research Journal of Pharmacy and Medical Sciences. 2019; 2(5):4-9

Viera-Mármol G., Pérez MLI, Oliva-Morel J, Giménez C (2019) Efficacy and Safety of subcutaneous fat reduction by cryoadipolysis, International Research Journal of Pharmacy and Medical Sciences. 2019; 2(3):38-43.

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