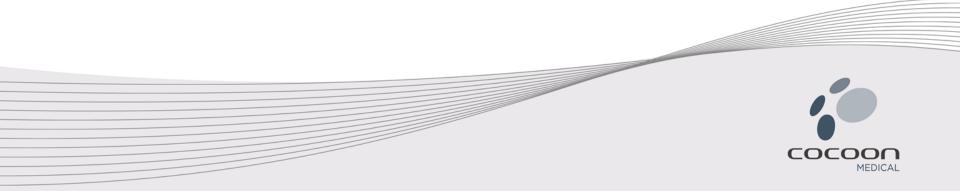
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CLINICAL STUDY Dr. José Ramón Vázquez Casas





# STUDY ON SECURITY AND EFFICACY OF ADIPOCYTOLYSIS THROUGH FREEZING (Adipocytolysis assisted by freezing)



V 0.3 (29 de octubre de 2013) REV. CC



#### STUDY CONDUCTED BY:

> Dr. José Ramón Vázquez Casas – Medical Director in Centretimer.

## CENTER STAFF:

- > Dolors Cámara Center Director.
- > Dr. José Ramón Vázquez Medical Director.
- > Dra. Paloma Mejina –Plastic surgery.
- > Dra. Maria Foglia *Cosmetic surgery. ENT Surgery.*
- > Dr. Luis Navarro Vascular surgery and angiology.





#### PROCEDURE:

> Prospective observational study.

> 30 cases of abdominal freezing, conducted by vacuum with the CoolTech<sup>®</sup> to -8<sup>o</sup>C during one hour. No other intervation will be taken.

> Results assessment after 45 days.

> Abdominal perimeter assessment through a vacuum process in the abdomen area
 5 centimeters below the navel

- > Photographic assessment of morphological changes.
- > Satisfaction rate assessment after procedure.
- > Side-effects evaluation: pain, paresthesia, brusing, localized erythema.





#### **INCLUSION CRITERIA:**

- > Above 18 years.
- > Sign the consent form.
- > Localized fat on an abdominal level through an ultrasonography bigger than 25 mm.
- > Do not present any contrainidcation to the technique.



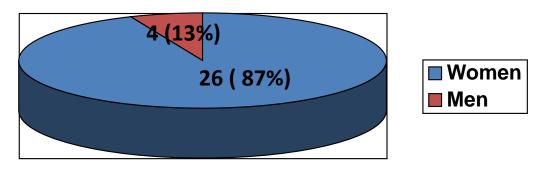
## EXCLUSION CRITERIA:

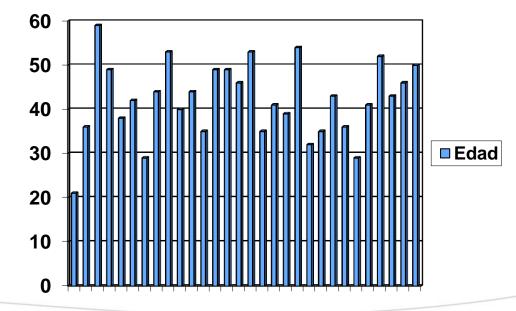
- > Under 18 years.
- > Pregnancy.
- > Severe kidney failure.
- > Severe liver failure.
- > Poorly controlled diabettis with diabetic complications.
- > Cancer.
- > Fever.
- > Raynaud disease.
- > Cryoglobulinemia.
- > Systemic disease affecting the skin.
- > Aversion to cold.





#### **DEMOGRAPHIC DATA:**

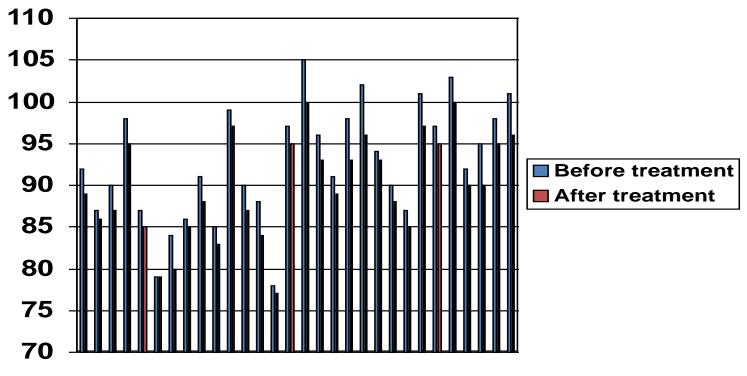




Assessment on 30 people, 26 women and 4 men with an average age of 43 years od.



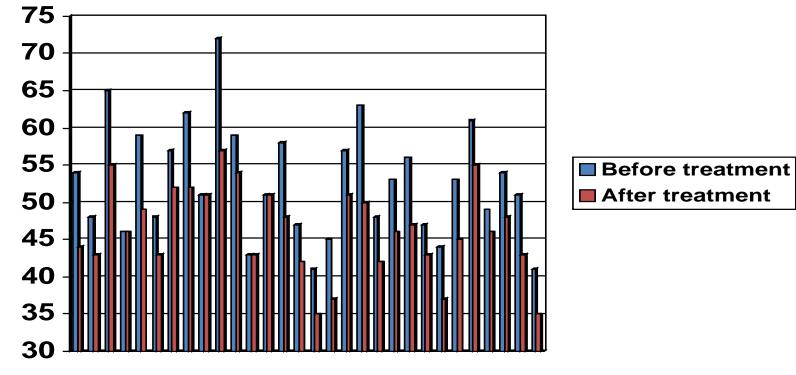
**RESULTS:** 



An average reduction of 5,9 on abdominal perimeter.



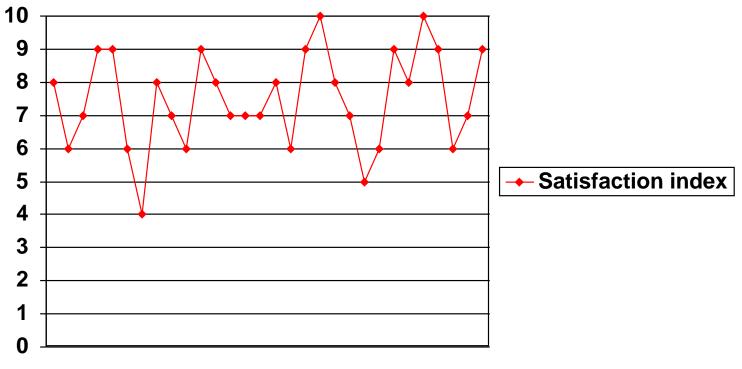
**RESULTS:** 



Average reduction of 52mm on adipose tissue thickness.



**RESULTS:** 

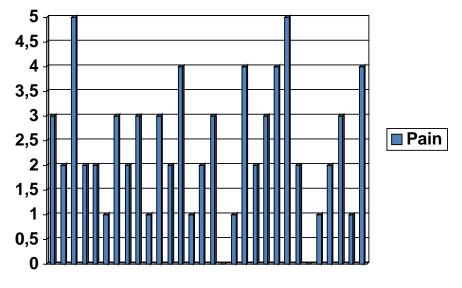


Index satisfaction rate of 7,5 / 10.

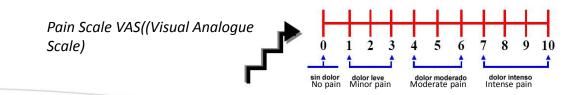




SIDE EFFECTS - PAIN:



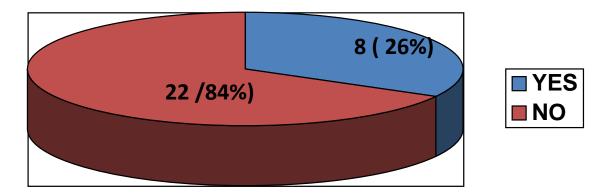
Media de dolor de 2 medido por escala EVA.







## SIDE EFFECTS - BRUISING:

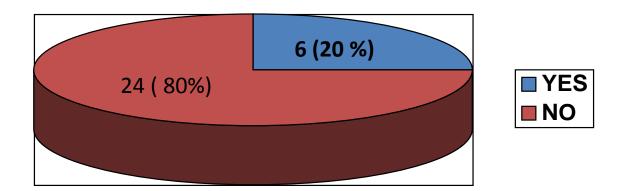


Minimum bruising on 26% of the patients





#### SIDE EFFECTS - SD CONSTITUTIONAL :

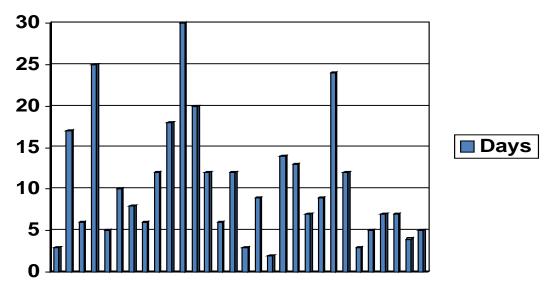


Constitutional SD (asthenia, myalgias and fever) 20%.





#### SIDE EFFECTS - PARESTHESIA:



Presence of paresthesia with an average duration of 10 days





#### CONCLUSIONS:

- The adipocytolysis as a result of the freezing process is a non-invasive method of body fat removal, with minimum complications, allowing daily life activities right after the procedure.
- Significant reduction of abdominal perimeter and subcutaneous fat thickness.
- High patient's satisfaction rate after the treatment.
- Female population in their 40s is the main customer for this treatment.





#### LITERATURE:

- > Non-invasive cryolipolysi for body contouring in Chinese- a firts commercial experience.
  - Shek SY, Chan NP, Chan HH.
  - Laseres Surg Med. 2012 Feb; 44(2): 125-30.
- > Synergistic effects of cryolypolisis and shock wawes for noninvasive body contouring.
  - Ferraro GA, De Francesco F, Cataldo C, Rossano F, Nicoletti G, D'Andrea F.
  - Anesthetic Plast Surg. 2012 Jun; 36(3): 666-79.
- > Cryolypolisis for reduction of excess adipose tissue.

Nelson AA, Wasserman D, Avram MM.

Lasers Surg med 2009 Dec; 28(4): 244-9.





> Cryolypolisi for subcutaneous fat layer reduction.

Avram MM, Harry RS.

Lasers Sug Med. 2009 Dec;41(10): 703-8.

> Cryolypolisis for noninvasive fat cell destruction: initial results from a pig model.
Zelickson B, Egbert BM, Preciado J, Allison J, Springer K, Rhoades RW, Manstein

D. Dermatol Surg. 2009 Oct;35(10): 1462-70.

> Clinical efficacy of noninvasive cryolypolisis and its effects on pheripheral nerves.

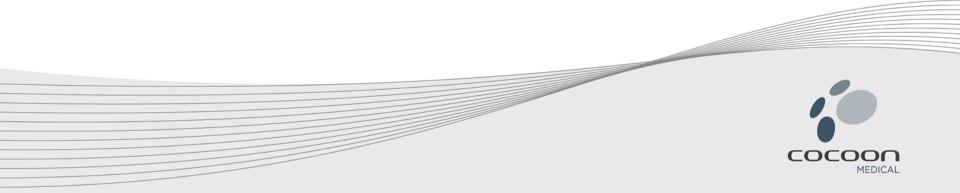
Coleman SR, Sachdeva K. Egbert BM, Preciado J, Allison J.

Aesthetic Plast Surg. 2009 Jul;33(4):482-8.

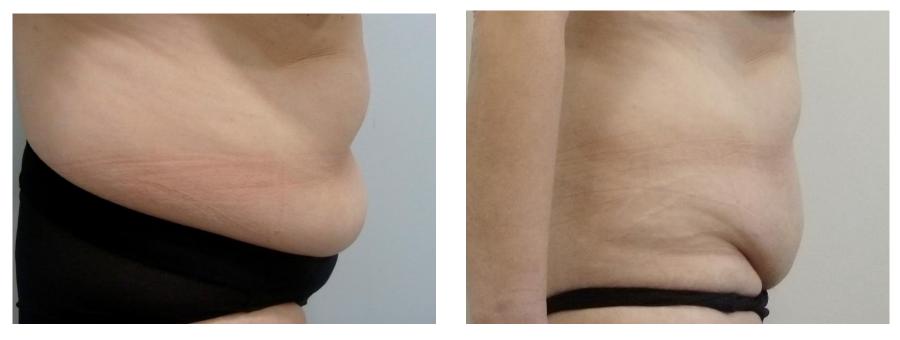


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**CLINICAL RESULTS** 







## **AFTER**

> Female / 45 years

> 2 sessions / 6 weeks later









AFTER 4 weeks

> Female / 28 years

> 2 sessions / 4 weeks later









#### **AFTER**

> Female / 28 years

> 2 sessions / 4 weeks later







> Female / 34 years

> 1 session / 6 weeks later











> Female / 33 years

> 2 sessions / 6 weeks later









> Female / 26 years

> 2 sessions / 6 weeks later

