



***INTERNATIONAL
RESEARCH
GROUP***

Study in association with the company:



BODY HEALTH®



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GROUP



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PROJECT REPORT



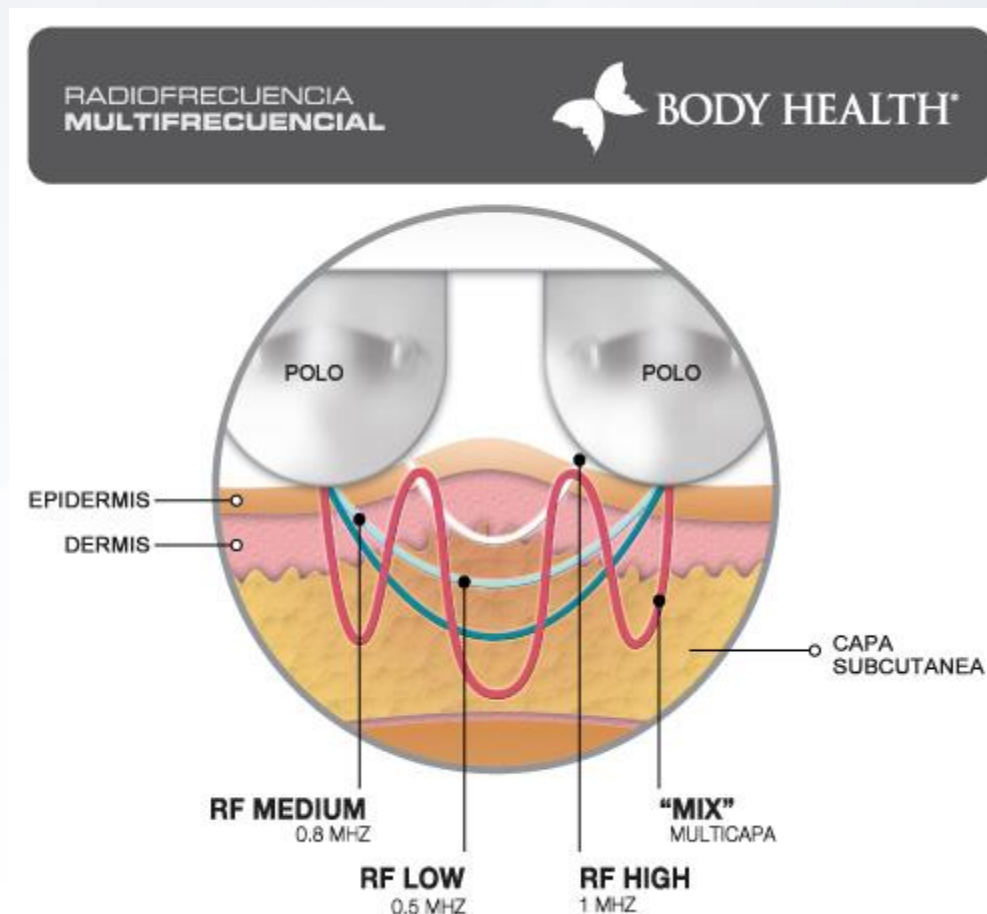
INSTITUTE
PATRICIA FROES
TRAINING AND DEVELOPMENT - SCHOOL CLINIC

¿What is CRYOFREQUENCY?

Cryofrequency is an aesthetic therapy for various treatments, It's a device that use electromagnetic waves to reach the deep dermis producing enough heat to create collagen synthesis

DIFFERENCE BETWEEN CRYOFREQUENCY AND RADIOFREQUENCY

Cryofrequency, unlike radiofrequency, makes a “thermal shock” in the tissue, thanks to the combination of radiofrequency and a cooling performed simultaneously in the same applicator, which generates an instantaneous skin tightening.



OBJECTIVES OF THE STUDY

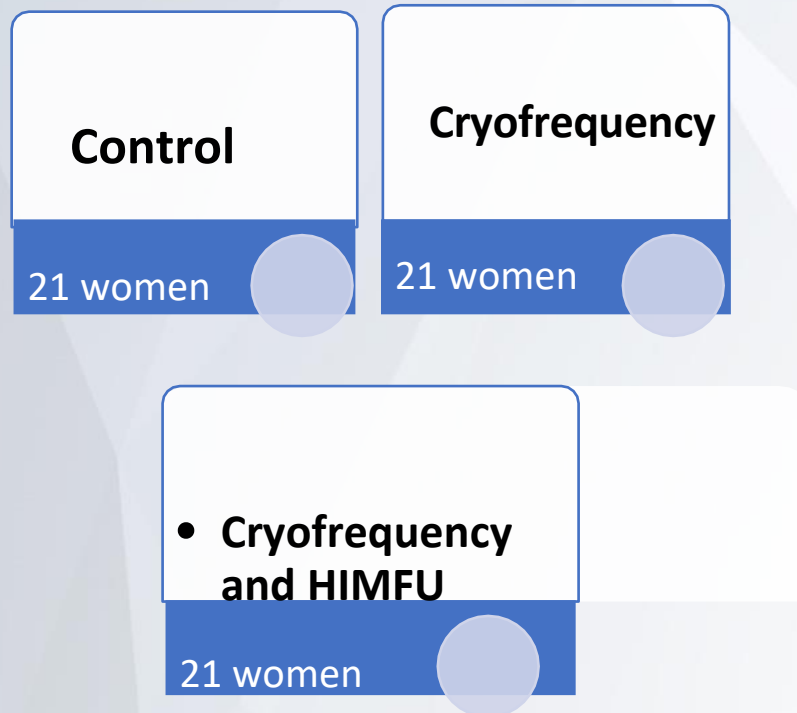
GENERAL

- **Verify the effectiveness of Cryofrequency in reducing localized adiposity.**

SPECIFIC

- **Examine alterations in relation to perimetry after the application of Cryofrequency.**
- **Verify alterations in plycometrics after the application of Cryofrequency.**
- **Observe alterations by ultrasonic in the thickness of adipose tissue**
- **Verify possible reactions and sensations through validated questionnaires and verify satisfaction and aesthetic improvement through the GAIS scale**

STUDY DESIGN:



This study follows the recommendations of the Consolidated Standards of Reporting Trials- CONSORT (CONSORT TRANSPARENT REPORTING OF TRIALS, 2010).

63 women

Age range: 45 to 60 years.

***The control group used the Criogen system without activating the Radio Frequency**

MATERIALS



Body Health Cryofrequency machine

METHODOLOGY EVALUATION

- **WEIGHT, PLICOMETRY, PERIMETRY AND ULTRASONIC ECOGRAPHY**

- **QUESTIONNAIRES:**

- Patient satisfaction analysis
Segot-chicqet, (2007)
- Global Aesthetic Improvement Scale –GAIS, by Narins (2010)
- **PHOTOGRAPHS**



METHODOLOGY EVALUATION



**INFRARED THERMOMETER
THERMOGRAPH CAMERA**

APPLICACION PARAMETERS

- **CRYOFREQUENCY APPLICATION PARAMETERS**

- 1 Application per week, totaling 04 applications using the starting temperature parameter: -10 ° C.
- Frequency: Mix
- Time: 16 minutes / treatment area: two areas of 10x10cm on the infraumbilical region
- Power: 85%

- **HIMFU APPLICATION PARAMETERS**

- Interval between applications and evaluations: 01 week
- 1 application per week, totaling 04 applications (after cryofrequency)
- Frequency: 60Hz
- Power: 70% Shooting: 25
- Time: 18 min.

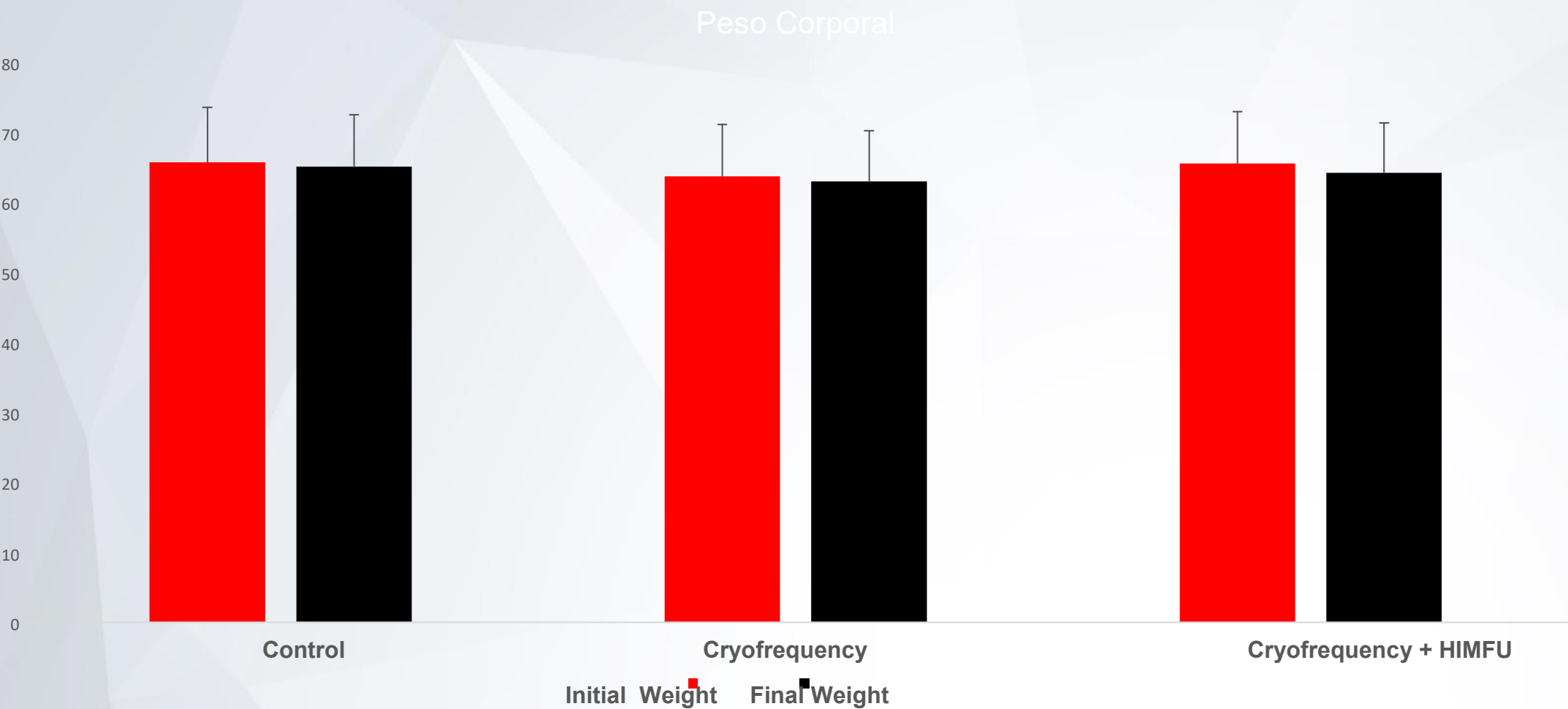
ESTADISTIC ANALYSIS– METHODOLOGY USED

- The two-way anova test was performed, with post hoc tukey. A significance level of 95% was adopted (with $p < 0.05$)

Results according to anthropometric data

Weight, IMC, plicometry, perimetry and ultrasonic ecography

Body Weight



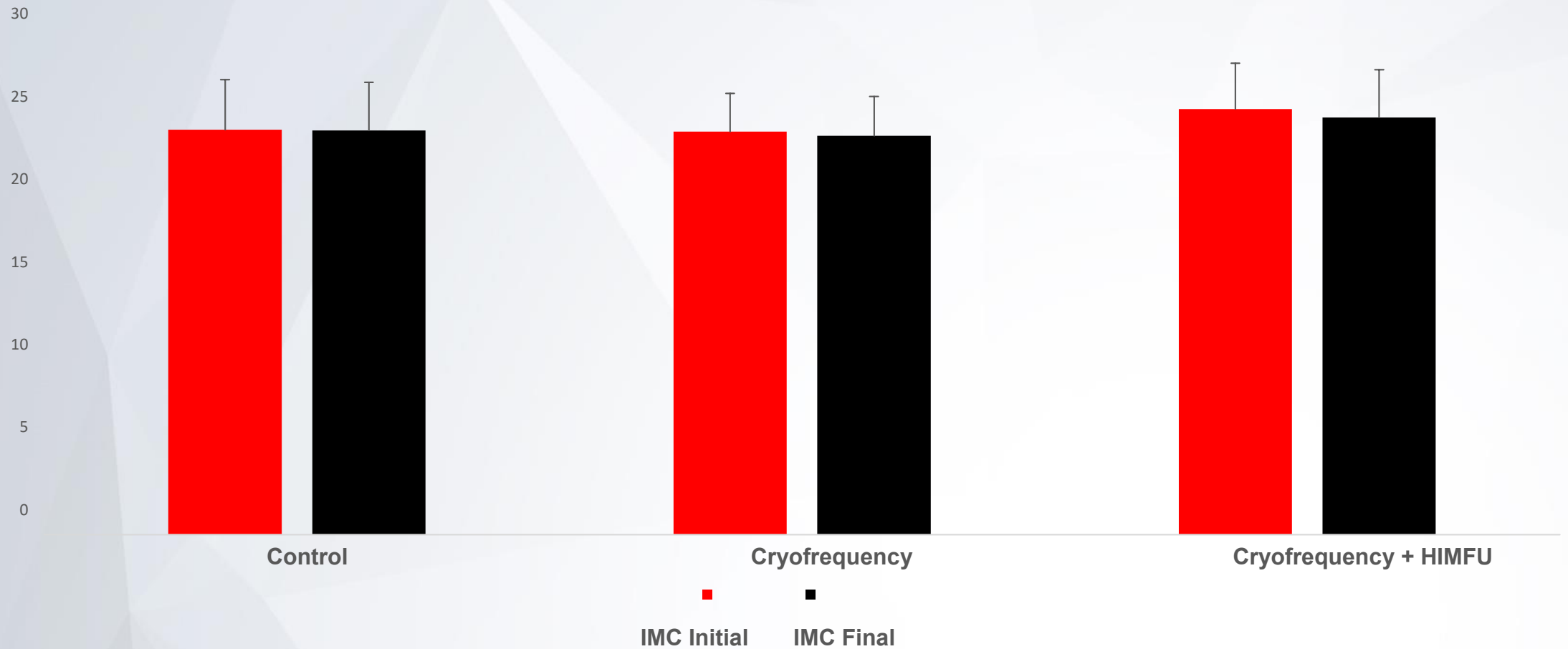
There is no significant difference in body weight before and after treatment.

Table of body weight values before and after treatment

	Control	Cryofrequency	Cryofrequency + HIMFU	DP	DP2	DP 3
Initial Weight	65,7	63,73	65,54	7,88	7,38	7,4
Final Weight	65,1	63	64,22	7,4	7,2	7,1

*** Body weight without significant difference**

IMC VALUES BEFORE AND AFTER TREATMENT



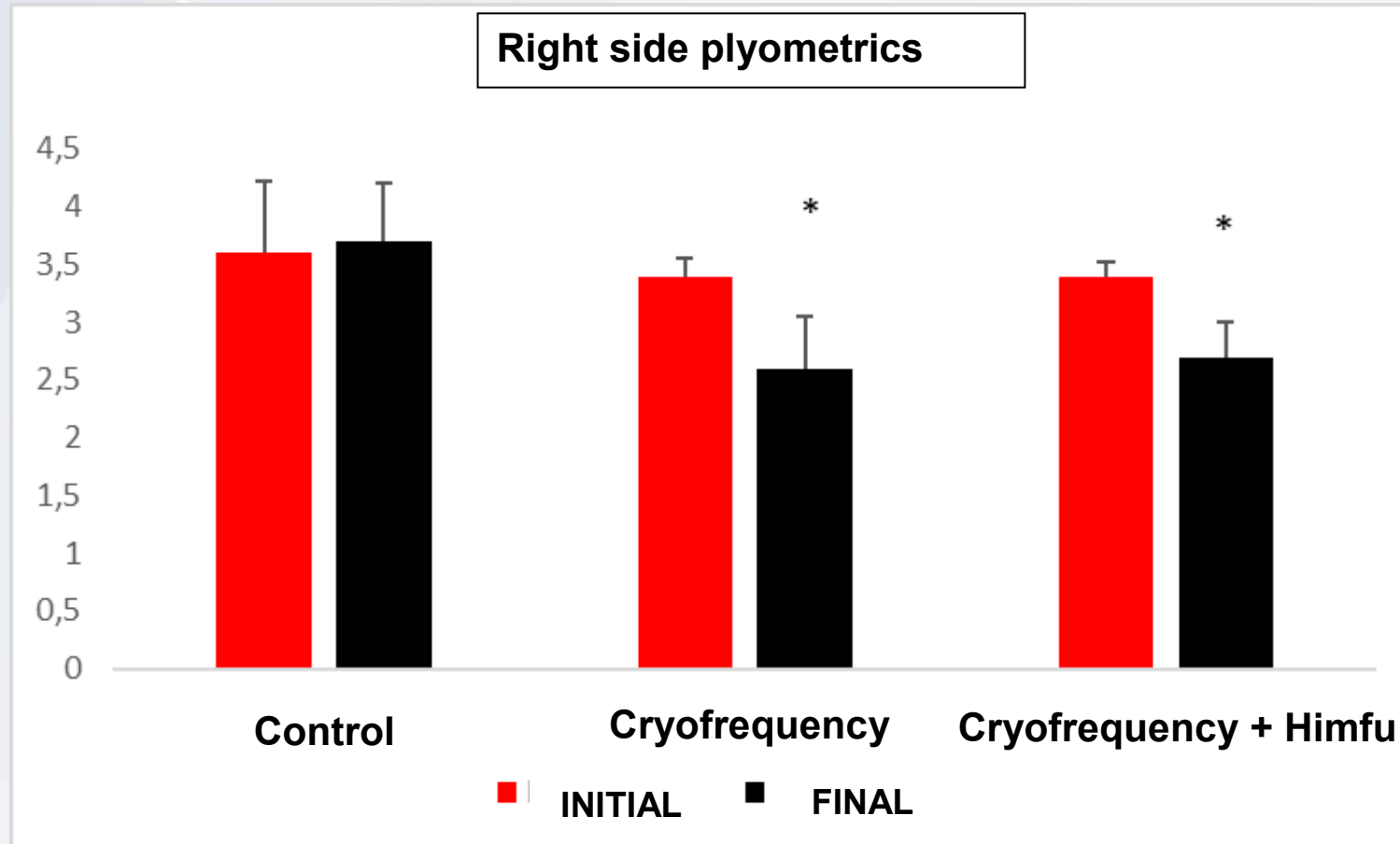
***IMC without significant difference**

IMC VALUES BEFORE AND AFTER TREATMENT

	Control	Cryofrequency	Cryofrequency + HIMFU	DP	DP2	DP3
IMC Intial	24,5	24,38	25,76	3,02	2,31	2,77
IMC Final	24,46	24,12	25,24	2,9	2,4	2,9

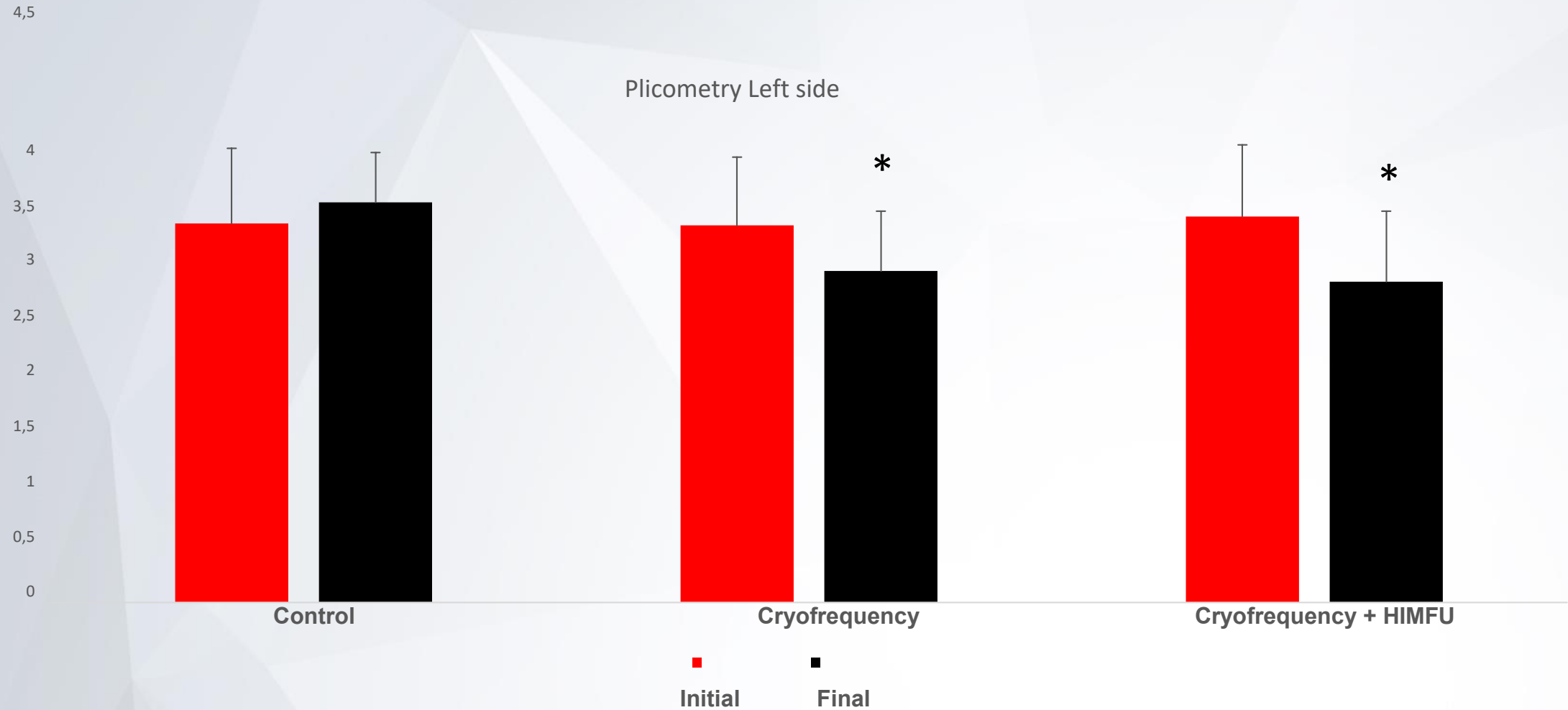
Plyometrics right side

* There was a difference between the groups Cryofrequenc and Control($p=0,02$) and Criofrecuencia+HIMFU and control ($p=0,03$)

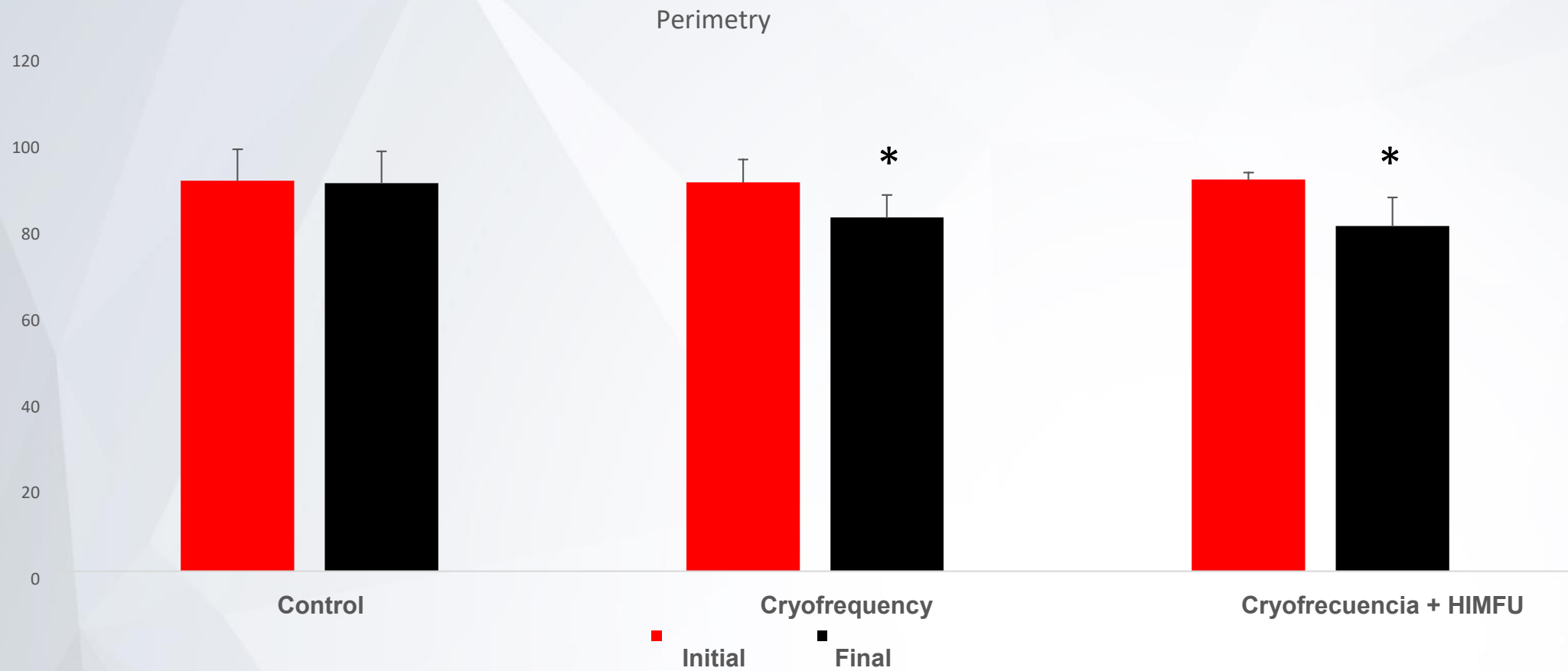


Plicometry Left side

There was a difference between the Cryofrequency and control groups ($p = 0.04$) and Cryofrequency + HIMFU and control ($p = 0.04$)



PERIMETRY

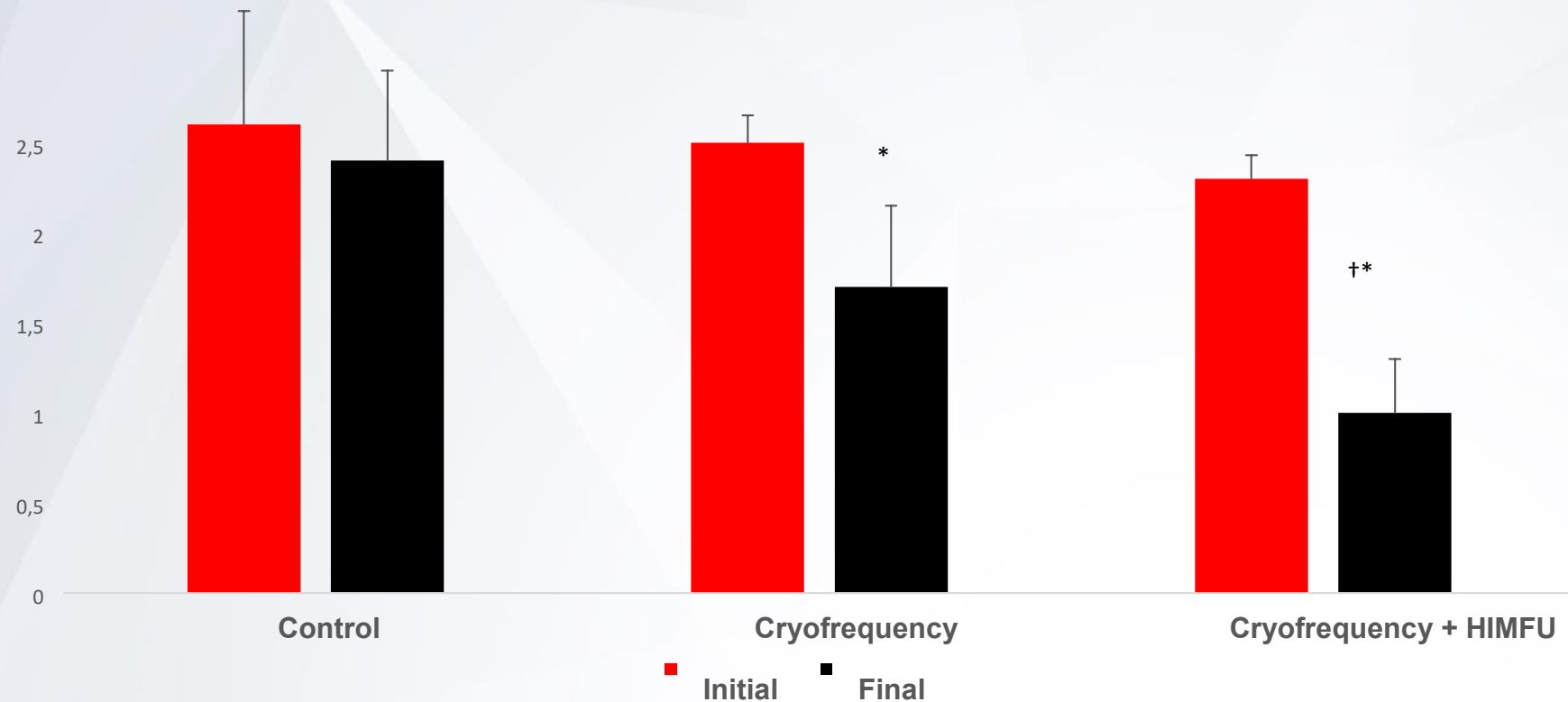


There was a significant difference compared to the control - ($p=0,01$)

PERIMETRY

	Control	Cryofrequency	Cryofrequency + HIMFU	DP	DP2	DP3
Initial Perimetry	90,49	90,12	90,7778	7,33	5,34	1,6
Final Perimetría	89,92	82	80	7,44	5,18	6,6

ULTRASONIC ECOGRAPHY RIGHT SIDE



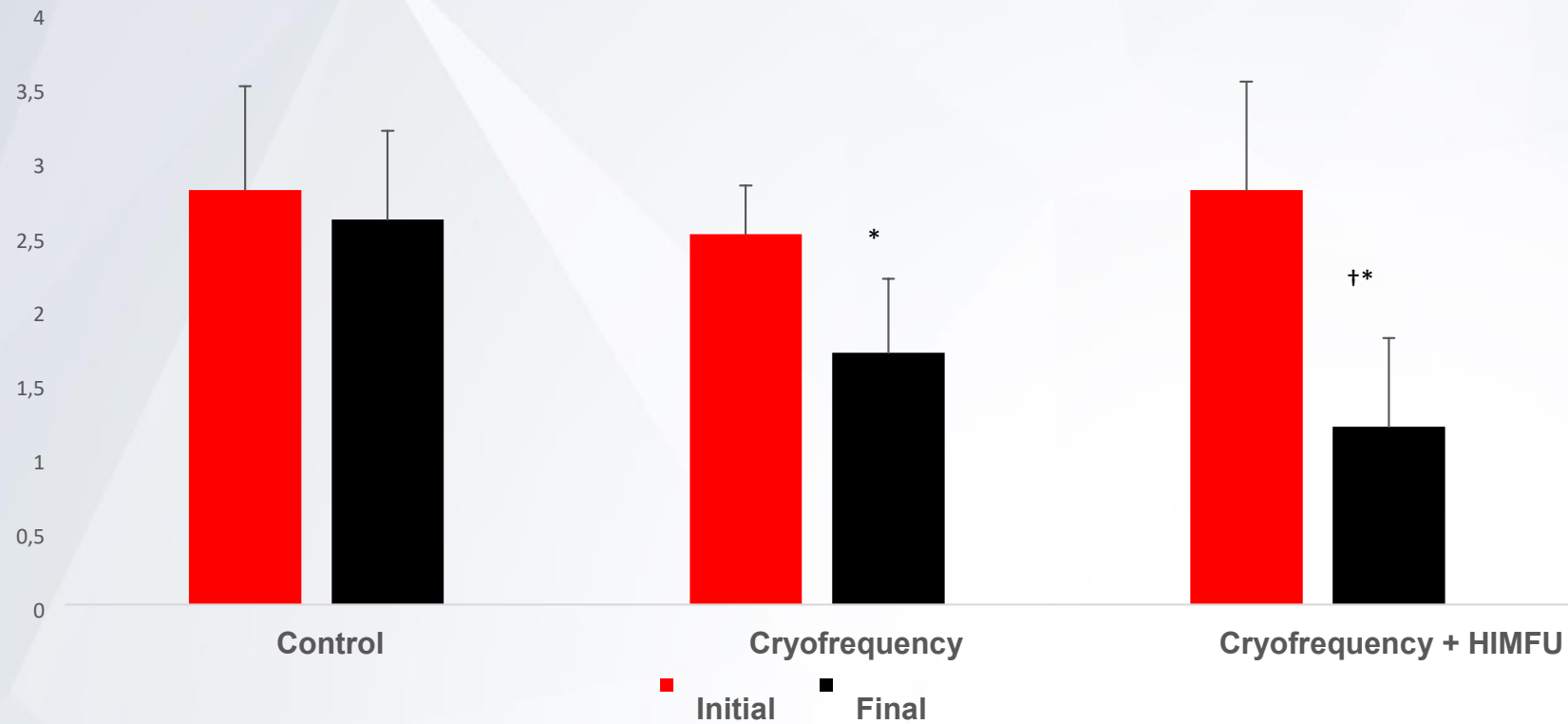
* There was a significant difference compared to the control- $p = 0.01$

* There was a significant difference between the Cryofrequency + HIMFU and Cryofrequency group, with $p = 0,001$

ULTRASONIC ECOGRAPHY RIGHT SIDE

	Control	Cryofrequency	Cryofrequency + HIMFU	DP	DP2	DP3
Ultra R Initial	2,6	2,5	2,3	0,7	0,33	0,73
Ultra R Final	2,4	1,7	1	0,6	0,24	0,69

ULTRASONIC ECOGRAPHY LEFT SIDE



* There was a difference compared to the control- $p = 0.01$

* There is a difference between the Cryofrequency + HIMFU and Cryofrequency group, with $p = 0.001$

ULTRASONIC ECOGRAPHY LEFT SIDE

	Control	Cryofrequency	Cryofrequency + HIMFU	DP	DP2	DP3
Initial Ultral	2,8	2,5	2,8	0,7	0,33	0,73
Final Ultral	2,6	1,7	1,2	0,6	0,5	0,6

Results according to photographic analysis

Weight, BMI, plicomteria, perimetry and ultrasonic ultrasound.

Volunteer Control Group

08/03/2019



16/04/2019



Volunteer Control Group

08/03/2019



16/04/2019



Volunteer Control Group

08/03/2019



16/04/2019



Volunteer Cryofrequency Group

11/03/2019

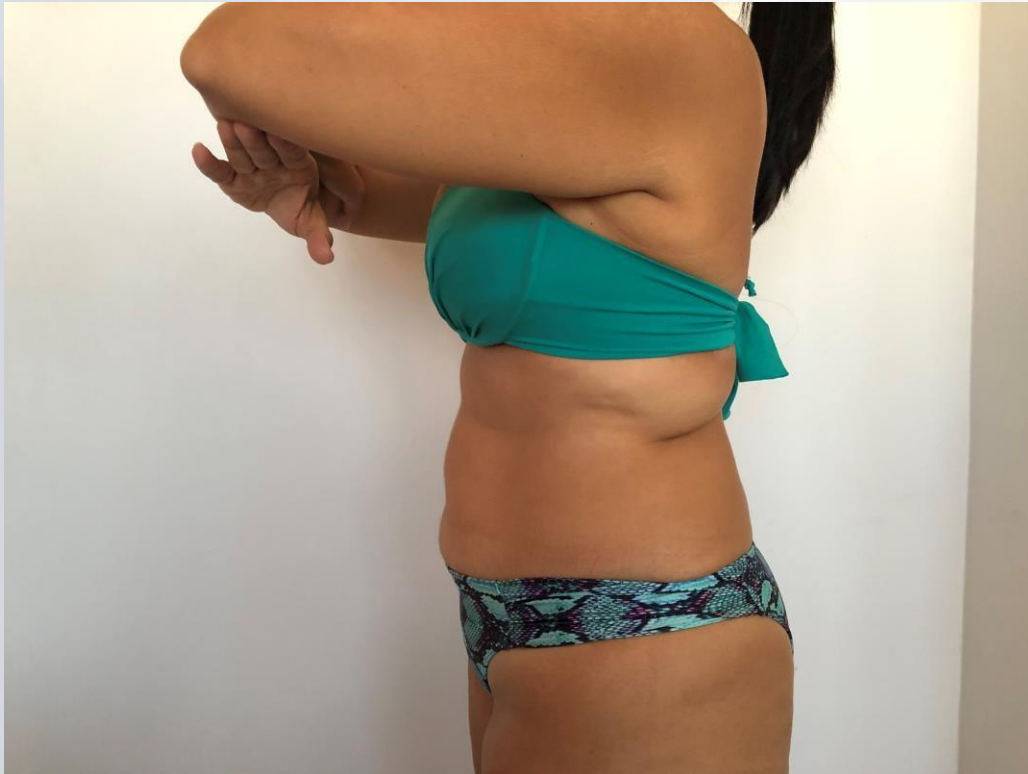


15/04/2019



Volunteer Cryofrequency Group

11/03/2019



15/04/2019



Volunteer Cryofrequency Group

11/03/2019



15/04/2019



Volunteer Cryofrequency and HIMFU Group

18/01/2019



22/02/2019



Volunteer Cryofrequency and HIMFU Group

18/01/2019



22/02/2019



Volunteer Cryofrequency and HIMFU Group

18/01/2019



22/02/2019

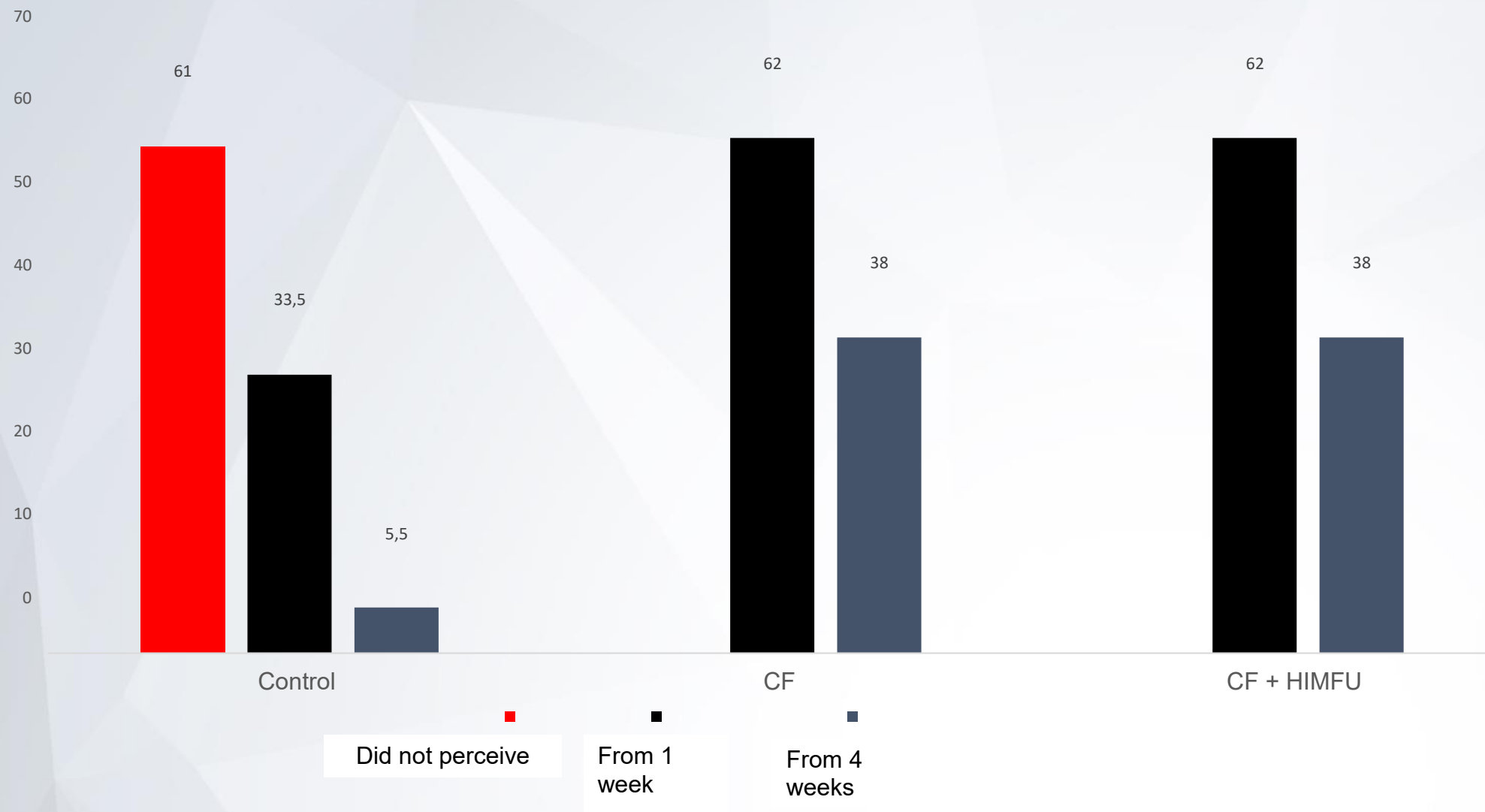


Results according to questionnaires

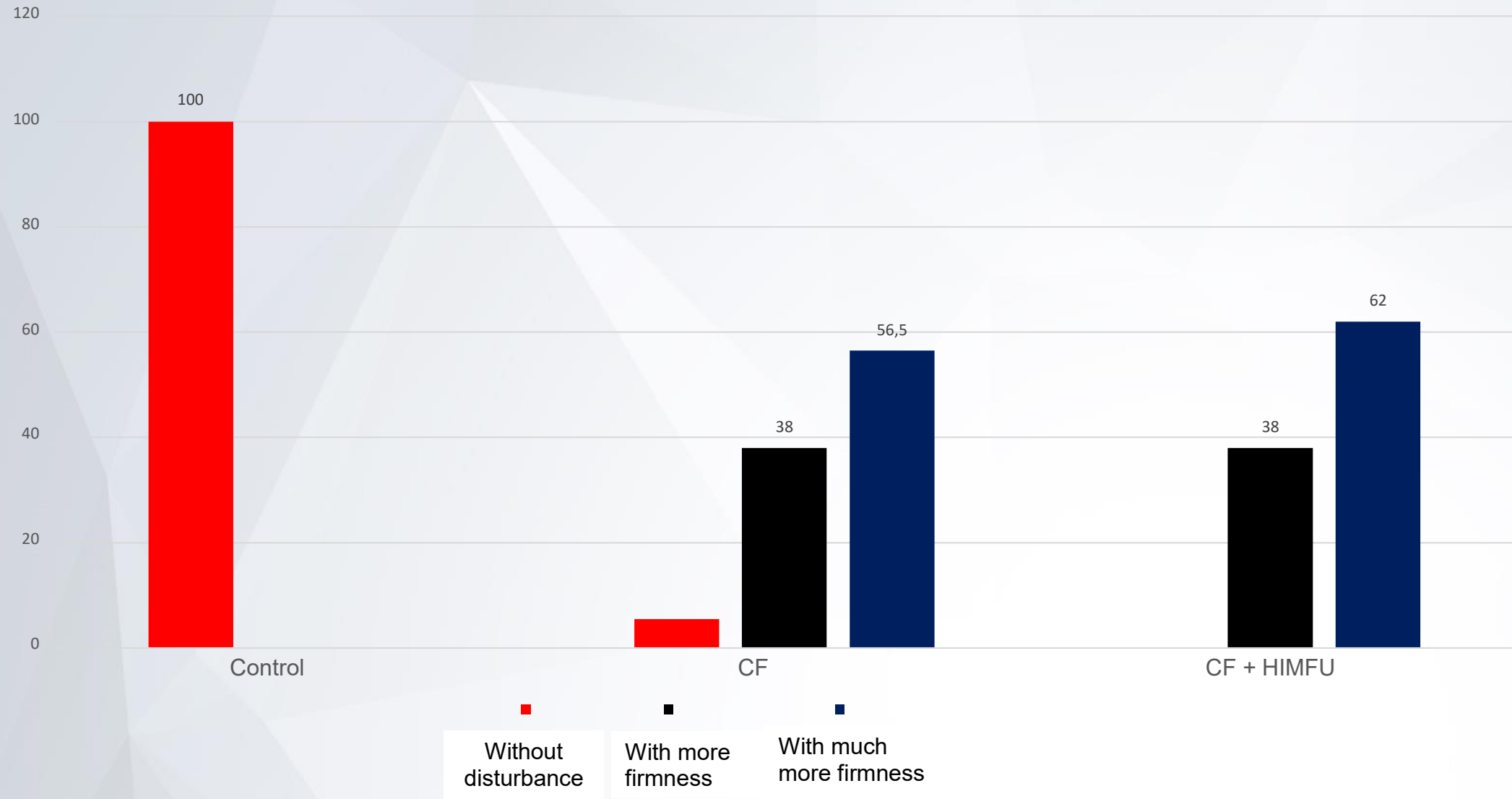
Patient Satisfaction Analysis: Segot-chicq et al, (2007)

Global Aesthetic Improvement Scale – GAIS, de Narins (2010)

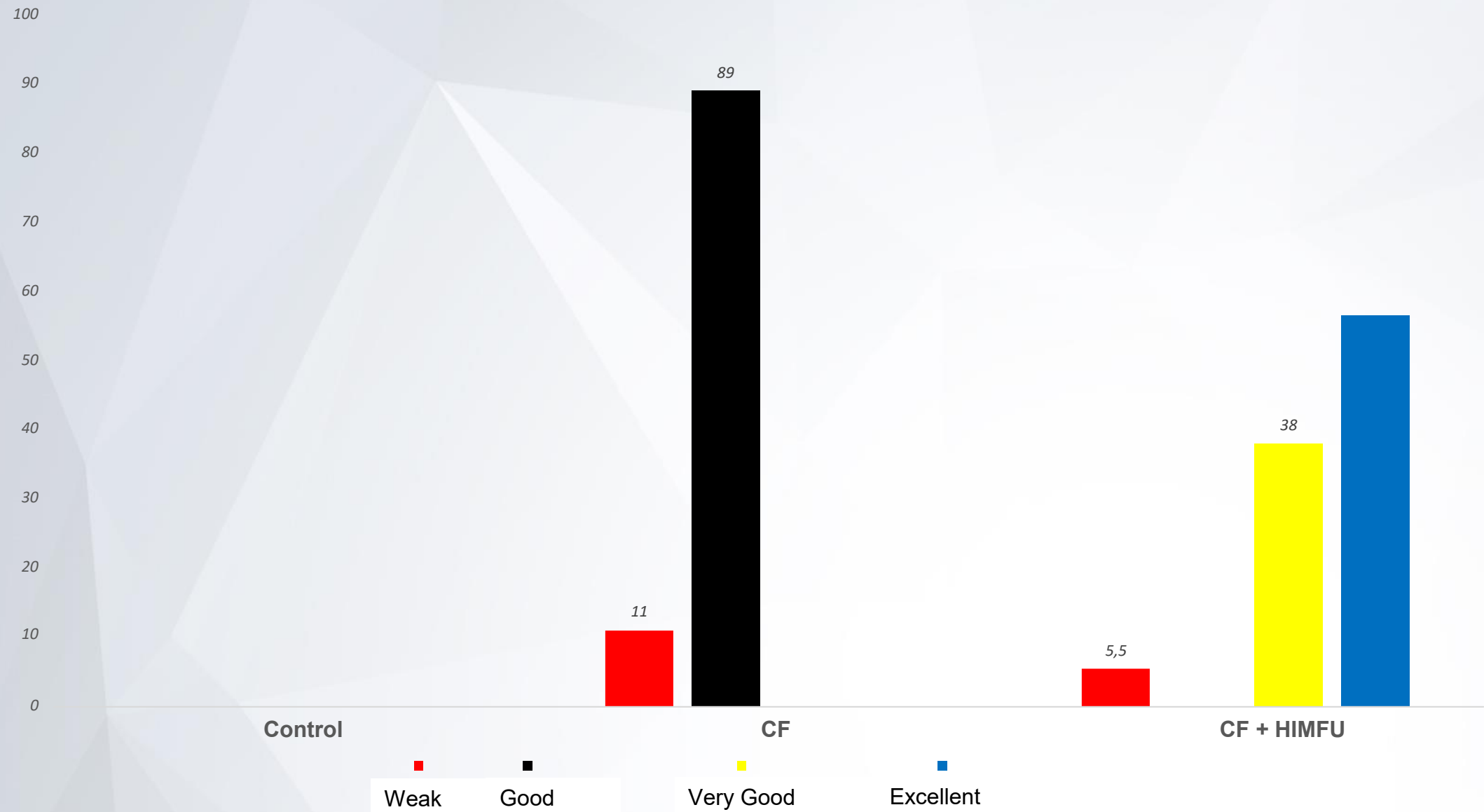
Volunteers who reported looser clothes



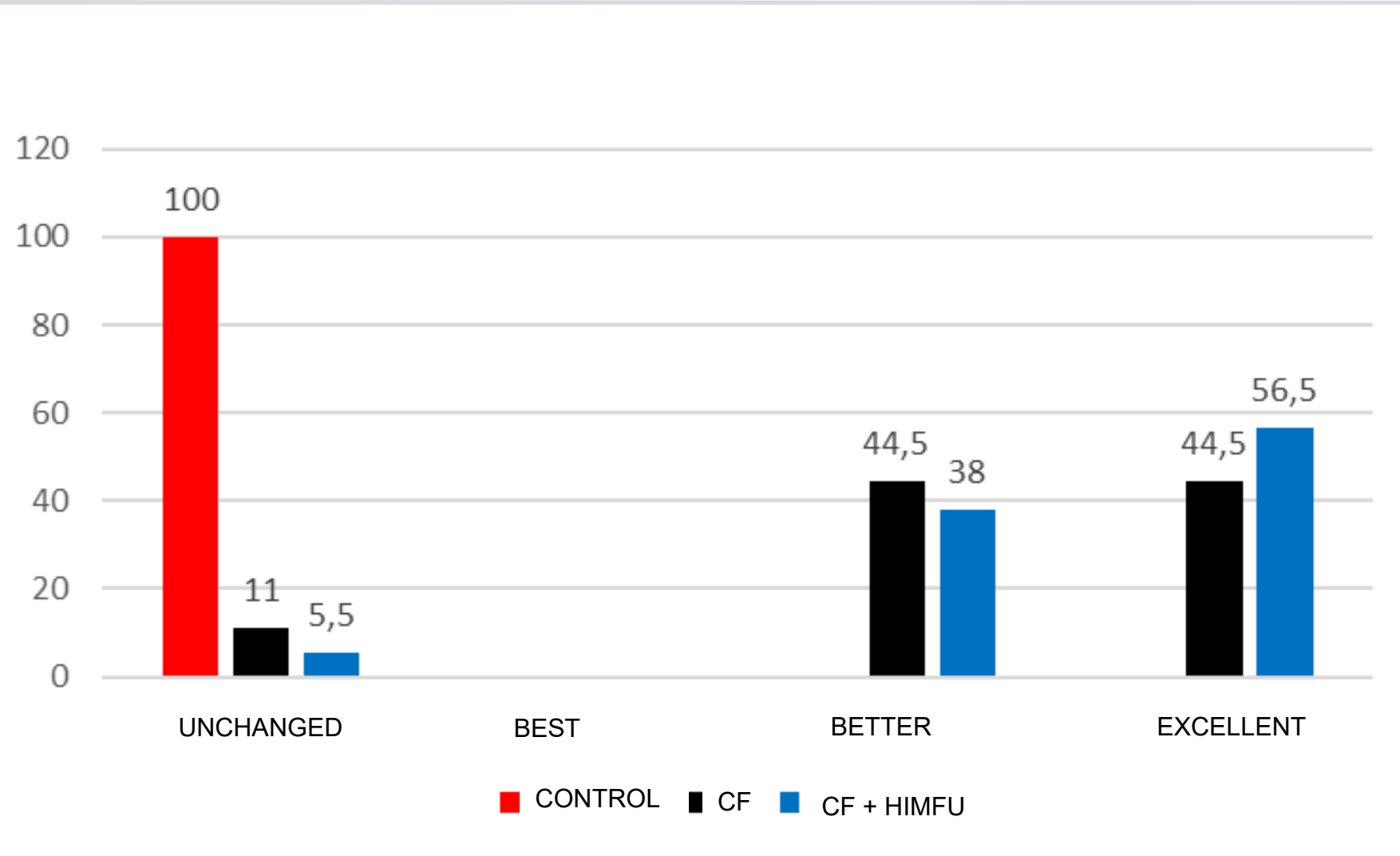
Volunteers who reported improvement in skin texture



Results on treatment evaluation



Results of aesthetic improvement



Conclusions

- There was no reduction in body weight and BMI, showing that the results were not influenced by these anthropometric data.
- The reduction of measurements by plicometry, perimetry and ultrasonic ultrasound was produced by comparing the treated groups to the control group
- When we compared the Cryofrequency groups with the Cryofrequency and HIMFU groups, the results were superior in the second group, demonstrating that the association of HIMFU is positive.

Conclusions

- In the analysis of the questionnaires, most of the patients from the control group did not perceive marked changes through clothing, on the other hand the treated group perceived good changes.
- The treated groups positively endorsed the treatment, being that the Cryofrequency group with HIMFU was the one that considered the treatment as excellent.
- The volunteers of the treated group perceived firmer skin from the first session.

Conclusions

- We conclude that the control group did not perceive aesthetic improvements in relation to the other treated groups as they considered a very good aesthetic improvement.
- We conclude that BodyHealth Cryofrequency has positive results in relation to the reduction of measures and tightening.
- The combined therapy with HIMFU is more efficient.



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INCENTIVATING SCIENCE WITHIN
AESTHETICS!!!