

# Stepped care longitudinal support online program to prevent weight regain after bariatric surgery: study protocol and 6-months preliminary results

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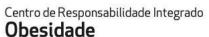
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• Receipt of grants/research supports:

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• Receipt of honoraria or consultation fees:

Novo Nordisk-Portugal in 2023.

# "Stepped Care" intervention models

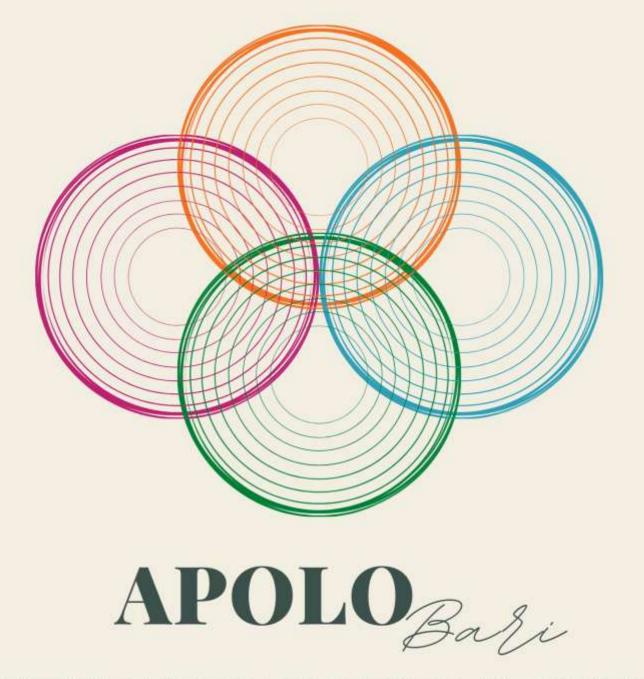
Personalized approach

**Efficient allocation of resources** 



Adding components of increasing intensity to meet the needs of individuals who do not respond to treatment.

Minimal, low-intensity, and cost-effective intervention for all patients



Longitudinal psychological support program designed to optimize weight loss and prevent weight regain after bariatric surgery.

#### **OBJECTIVE:**

To test the efficacy of APOLO-Bari delivered as a stepped care intervention: preliminar data

RANDOMIZED CONTROLLED TRIAL

# **METHODS**

**INTERVENTION BASED IN 3 MAIN COMPONENTS** 



PRIVATE GROUP ON FACEBOOK®

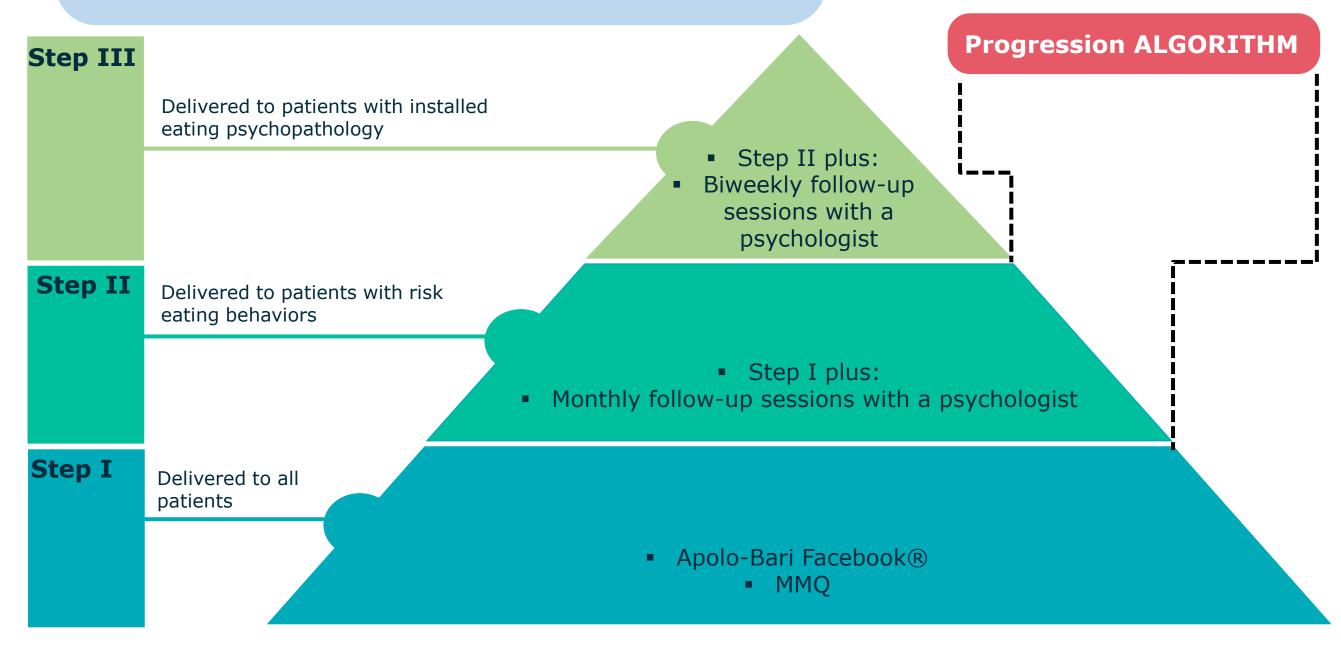


MONTHLY MONITORING SYSTEM WITH FEEDBACK (MMQ)

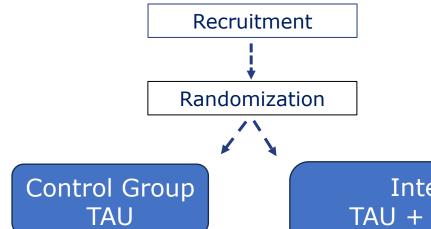


**SELF-HELP MANUAL + FOLLOW-UP SESSION WITH A PSYCHOLOGIST** 

# **METHODS**



## **METHODS**



Intervention Group
TAU + Stepped-Care - 18
months







Centro de Responsabilidade Integrado **Obesidade** 

#### **INCLUSION CRITERIA:**

- women aged between 18-65 years;
- underwent Roux-en-Y Gastric Bypass or
   Gastric Sleeve for 12-18 months;
- have a Facebook® account and regular internet access.

#### **EXCLUSION CRITERIA:**

- under weight-loss medications;
- acute psychiatric or medical problems;
- pregnancy or lactation;
- illiteracy;
- increase from > 10 kg from nadir on baseline assessment.

## **RESULTS**

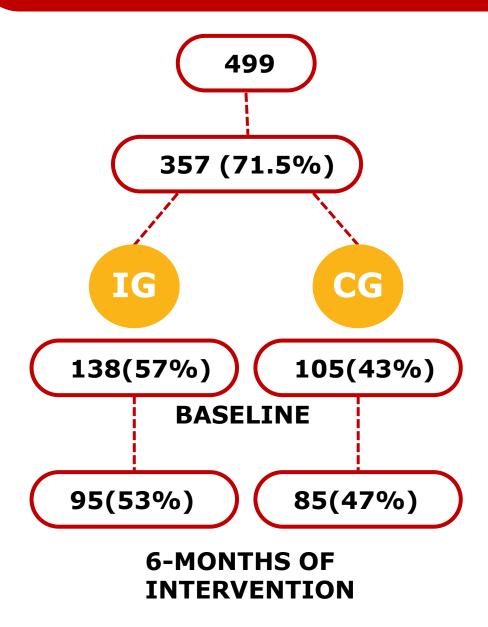


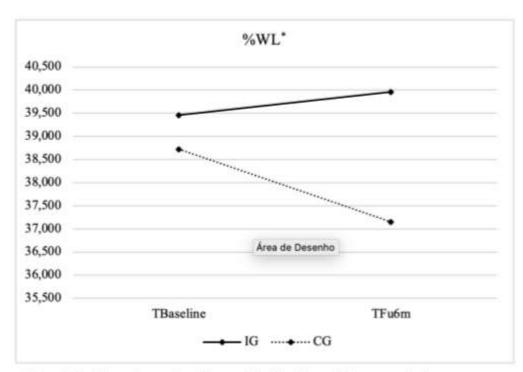
Table 1. Demographic and anthropometric characteristics of participants at baseline assessment.

	Intervention group (IG) (n=137) n%; M(SD)	Control group (CG) (n=105) n%; M(SD)	Statistical tes value
Age (years)	43.87 (8.93) (Min.=22; Max. = 64)	46.58(10.28) (Min.=23; Max. = 64)	5829a**
Marital status			
Single	22 (16.1%)	18 (17.1%)	.88 <sup>b</sup>
Married/live with partner	96 (70.1%)	69 (65.7%)	
Divorced/separated	16 (11.7%)	14 (13.3%)	
Widowed	3 (2.2%)	4 (3.8%)	
Educational level			
High school (9-12 years)	123 (89.8%)	86 (81.9%)	3.13 <sup>b</sup>
Graduated level	11 (8%)	15 (14.3%)	
Post-graduated level	3 (2.2%)	4 (3.8%)	
Employment situation			
Employed	103 (75.2%)	62 (59.0%)	
Unemployed	21 (15.3%)	21 (20.0%)	8.44b*
Domestic	8 (5.8%)	13 (12.4%)	National Control
Retired	5 (3.6%)	9 (8.6%)	
Type of surgery			
Gastric band	8 (5.8%)	4 (3.8%)	1.30 <sup>b</sup>
Gastric sleeve	21 (15.3%)	21 (20.0%)	
Gastric bypass	108 (78.8%)	80 (76.2%)	
PRIM-REOP			
Primary	125 (91.2%)	99 (94.3%)	.80ь
Reoperative	12 (8.8%)	6 (5.7%)	
Weight-related variables	4	004033400000000	
%WL	39.37 (7.33) (Min.= 9.91; Max. = 62.93)	38.72 (8.20) (Min.= 19.31; Max. = 63.64)	6694.50ª
WR	.58 (1.26) (Min.= 0; Max. = 7)	1.69 (2.92) (Min.= 0; Max. = 10)	6542.50a

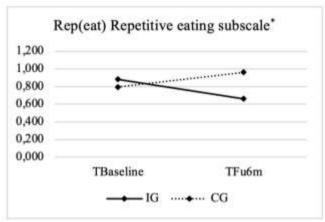
Notes: Min – minimum; Max – maximum; "Mann–Whitney test value; b Chi-square test value; WR – Weight regain.

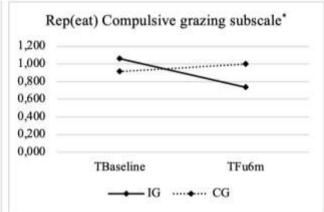
# **RESULTS**

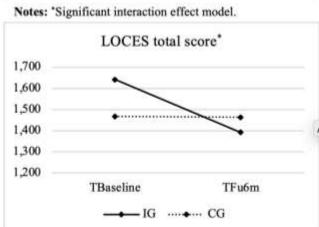
### 6 months intervention – 18-24 months after surgery

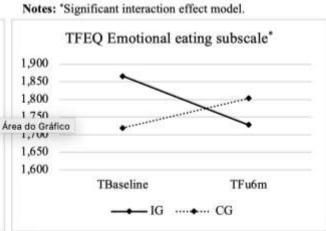


Notes: \*Significant interaction effect model; \*Significant different results between groups at 6-month follow-up assessment.

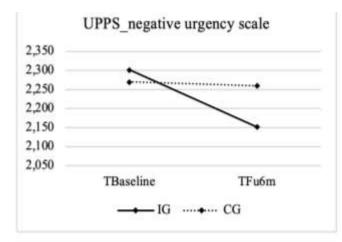


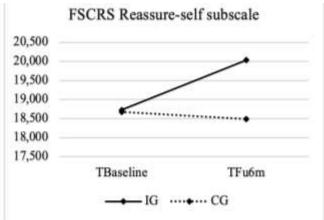


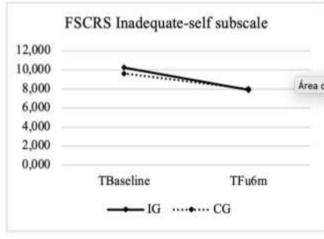


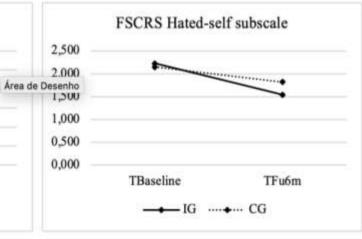


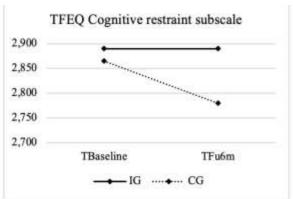
# **RESULTS**

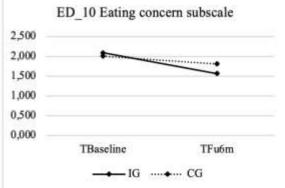


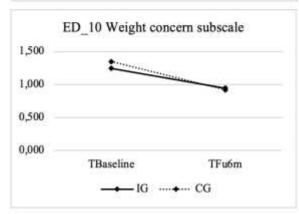












# **DISCUSSION**

Overall, the APOLO\_Bari stepped-care intervention produced preliminary improvements on weight loss and psychological factors in patients with about 24 months of surgery.

Longer-term follow-up are needed.

## "Growth is never by mere chance. It is the result of forces working together."

James Cash Penney



MARTA DE LOURDES



ANDREIRA RIBEIRO



SÍLVIA FÉLIX







Escola de Psicologia

