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CONFLICT OF INTEREST DISCLOSURE

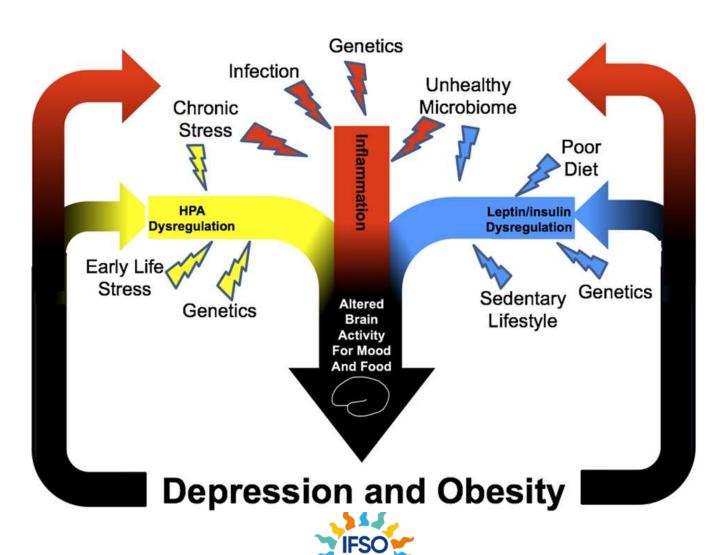
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[X] I have no potential conflict of interest to report



OBESITY AND DEPRESSION





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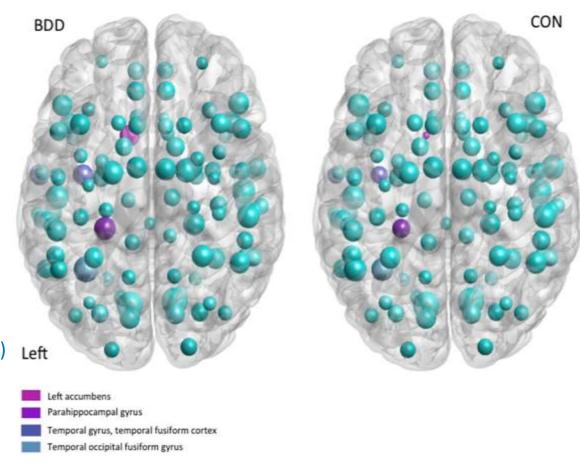
OBESITY AND BODY IMAGE CONCERNS

BODY IMAGE IN OBESE PATIENT

- Associated with low self-esteem and depression
- Higher risk of developing dysmorphic symptoms (regardless BMI)

BODY IMAGE IN OBESE & DEPRESSED PATIENT

Higher scores in body dysmorphism scale (regardless severity of depression)



Weinberger et al. – *OFA* 2016; Sarwer et al. – *Psychiatric Clinics of North America* 2005; Meneguzzo et al. – *Obes Surg* 2021



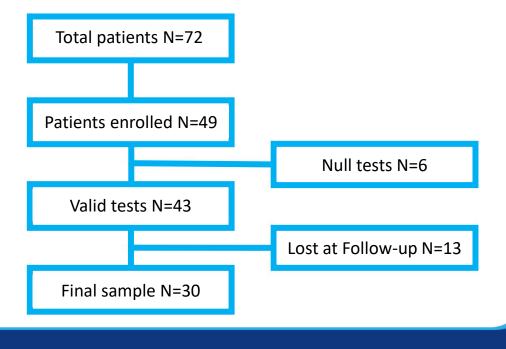
Paans et al. – Journal of Psychiatric Research 2018; Semel Institute for Neuroscience and Human Behavior – *UCLA Body Dysmorphic Disorder Research Program*

STUDY DESIGN

- Sample origin: patients undergoing Laparoscopic Sleeve Gastrectomy from December '21 to April '22
- Psychometric questionnaires: self-administered before and 6 months after surgery
- Primary outcome: prevalence and course of depression and body image concerns (before and after surgery)

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• Secondary outcome: relationship between individual characteristics and psychometric scores



PSYCHOMETRIC QUESTIONNAIRES

- Beck Depression Inventory II (BDI-II)
 - Presence and severity of depressive symptoms
 - Four class of severity: none, mild, moderate, severe
- Body Uneasiness Test A (BUT-A)
 - Probability of pathological body image concerns
 - Global Severity Index (GSI) cut-off: > 1,5

PATIENTS CHARACTERISTICS

SAMPLE DEMOGRAPHICS

- Sex: 25 F (83,3%) 5 M (16,7%)
- Age (mean): 43,6 y (±11,68)
- Weight (mean): 114,03 kg (±18,13)
- BMI (mean): 43,07 kg/m² (±4,61)

COMORBIDITIES

- DMT2: 2 (6,7%)
- OSAS: 2 (6,7%)
- Anxiety: 5 (16,7%)
- Hypertension: 5 (16,7%)
- Chronic gastritis: 11 (36,7%)
- Steatosis: 22 (73,3%)

PREVIOUS SURGERY

- LAGB: 5 (16,7%)
- Cholecystectomy: 6 (20,0%)
- Major gynecologic surgery: 11 (40,0%)

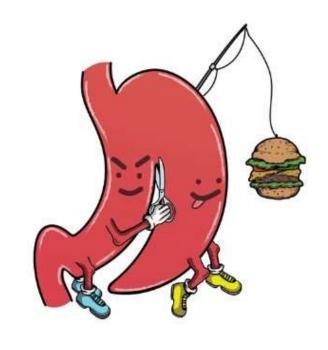


"Your skin is enlarged."

POST-OPERATIVE RESULTS

POST-OPERATIVE COMPLICATION

- 1 proximal leak
 - Surgical toilet and drainage
 - Resolution in 40 days
- 1 "dumping-like syndrome"
 - Tailored diet therapy
 - Resolution in 2 months



WEIGHT LOSS

- Weight (mean): 100,03 kg (±13,97)
- BMI (mean): 37,85 kg/m² (±3,83)

COMORBIDITIES REMISSION

- OSAS: 1 (50,0%)
- Hypertension: 4 (80,0%)
- DMT2: 2 (100,0%)



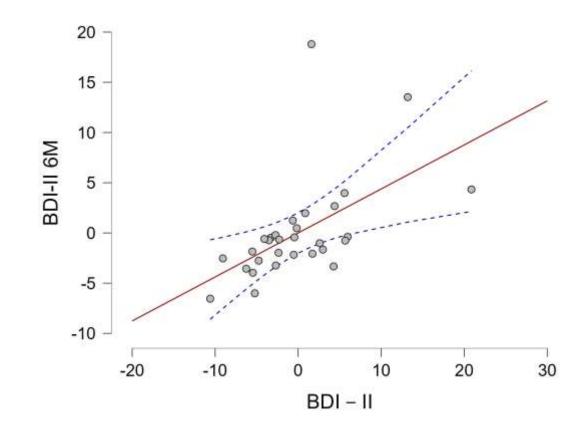
DEPRESSION COURSE

PREOPERATIVE SCORES

- BDI-II (mean): 9,5 (±6,86)
- Mild symptoms: 8 (26,7%)
- Severe symptoms: 2 (6,7%)

6 MONTHS AFTER SURGERY SCORES

- BDI-II 6M (mean): 6,47 (±6,02)
- Severe symptoms: 2 (6,7%)



Higher preoperative scores LEAD to higher post-operative scores (*p* 0,001)

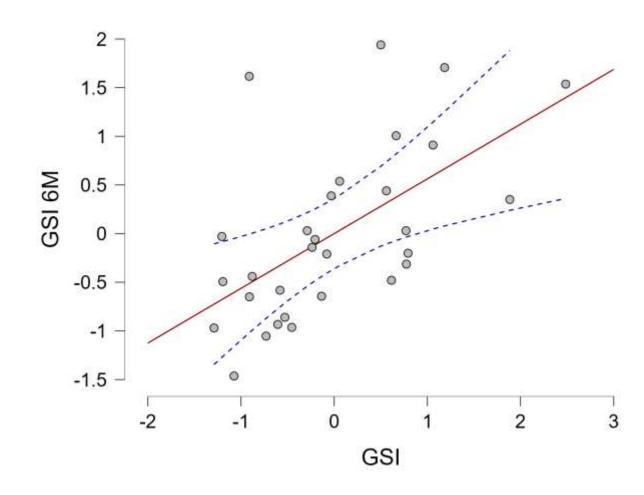
BODY IMAGE CONCERNS COURSE

PREOPERATIVE SCORES

- GSI (mean): 2,27 (±0,94)
- Pathological symptoms: 22 (73,3%)

6 MONTHS AFTER SURGERY SCORES

- GSI 6M (mean): 1,30 (±1,07)
- Pathological symptoms: 9 (30,0%)



Higher preoperative scores LEAD to higher post-operative scores (*p* 0,021)



PSYCHOMETRIC SCORES AND PATIENT CHARACTERISTICS

PREOPERATIVE SCORES AND COMORBIDITIES

Steatosis

- Worsening depressive symptoms
- BDI-II (mean) increase: +5,3 points (p 0,028)



POST-OPERATIVE SCORES AND COMORBIDITIES

Chronic Gastritis

- Improving depressive symptoms
- BDI-II 6M (mean) decrease: -3,5 points (p 0,047)



Anxiety

- Worsening depressive symptoms
- BDI-II (mean) increase: +9,7 points (p 0,005)



Previous Major Gynecologic Surgery

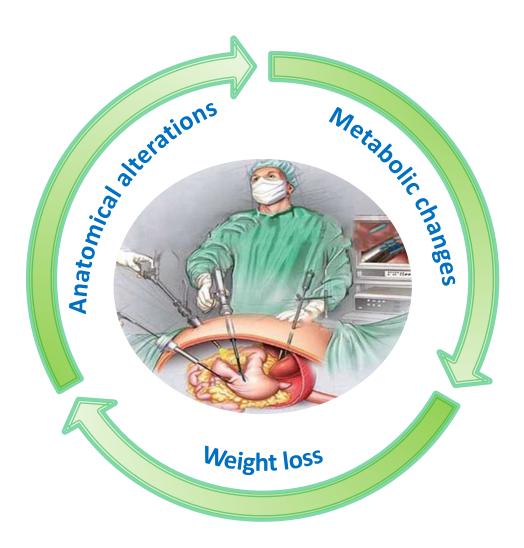
- Worsening body image concerns
- GSI 6M (mean) increase: +1,1 points (p 0,005)



No relation found between Depression and Body Image Concerns (sample size??)



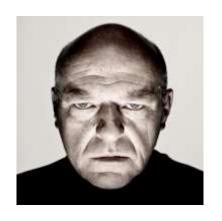
PERSPECTIVES



RE-THINKING PATIENT SELECTION CRITERIA

Weight-centric

Disease-centric





James et al. – *The Lancet* 2018; Buchwald H. – *Obes Surg* 2014; Rubino et al. – *Lancet Diabet Endocrinol* 2020; Sjöström L. – *Journal of Internal Medicine* 2013





Thank you for



your attention