

Superobesity and LapBand

8 Years Experience

Superobesity

Index of Quetelet (Body Mass Index)

$$\text{B.M.I.} = \text{Weight} / \text{Height}^2$$

> 50

Laparoscopic Gastric Banding as a Universal Method for the Treatment of Patients with Morbid Obesity

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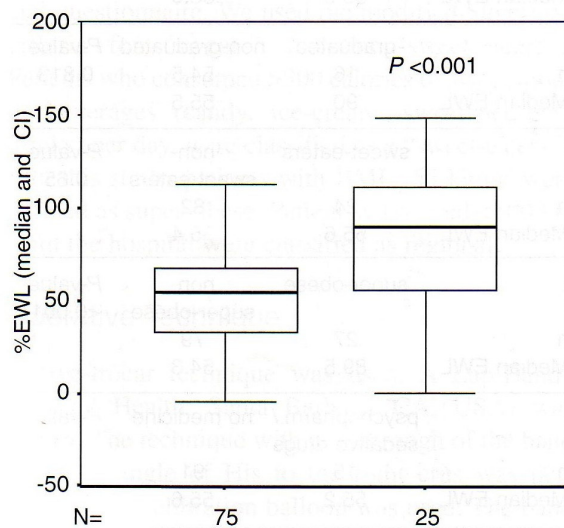


Figure 3. Evolution of excess weight loss (EWL) in super-obese and non-super-obese patients after LAGB.

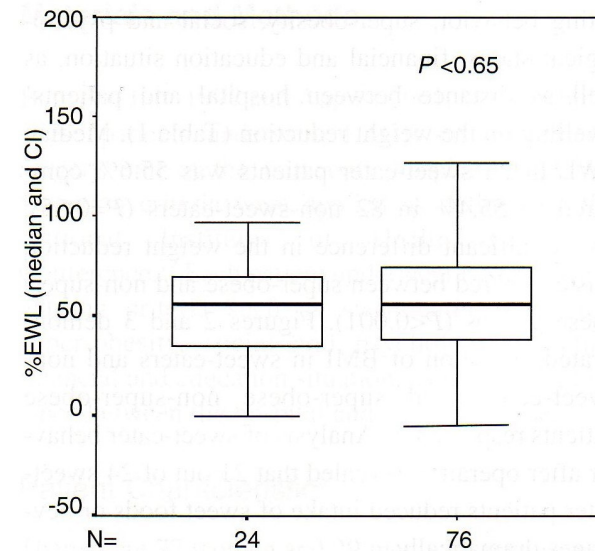
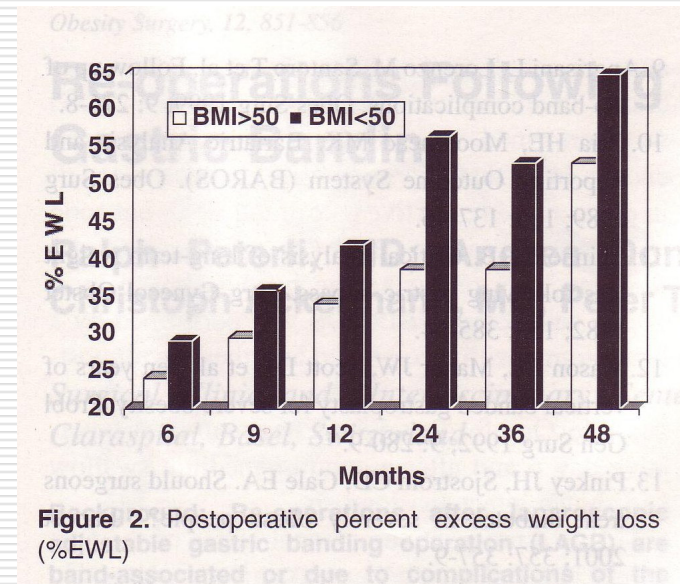
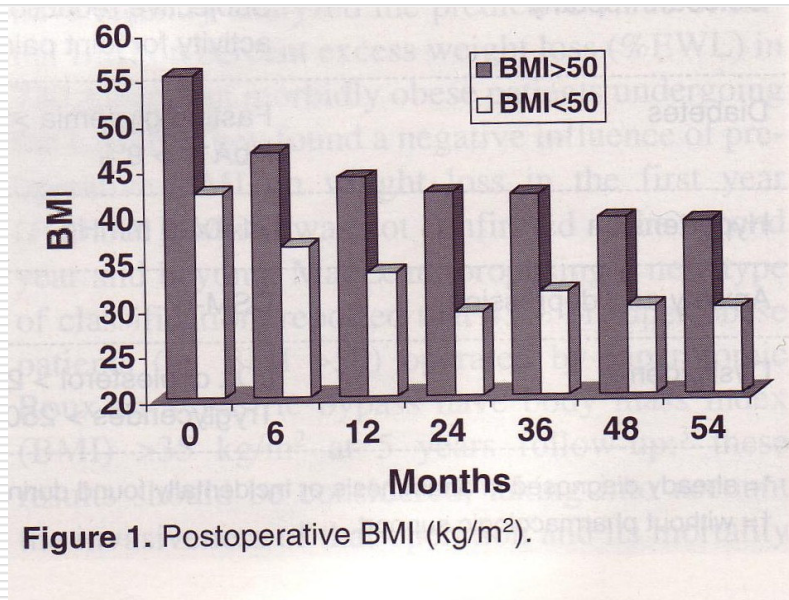


Figure 2. Evolution of excess weight loss (EWL) in sweet-eaters and non-sweet eaters after LAGB.

Results of the Italian Multicenter Study on 239 Super-obese Patients Treated by Adjustable Gastric Banding



A Comparison of Laparoscopic Adjustable Gastric Banding and Biliopancreatic Diversion in Superobesity

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Table 1. A comparison of biliopancreatic diversion (BPD) with laparoscopic adjustable gastric banding (LAGB)

	BPD	LAGB	Statistic	P-value
Number of patients	23	23		
Females	16 (69.6%)	16 (69.6%)		
Age (years)	41 (23-67)	39 (26-58)	Mann Whitney U	0.31
Complications	13 (56.5%)	2 (8.7%)	Chi-squared	0.001
Re-operations	7 (30.4%)	2 (8.7%)	Chi-squared	0.06
Hospital stay (days)	8 (4-146)	1 (1-2)	Mann Whitney U	<0.001
Follow-up (months)	30 (21-49)	34 (12-59)	Mann Whitney U	0.18
BMI preoperative	56.9 (50.8-83.7)	55.9 (50.7-90.6)	Mann Whitney U	0.89
BMI 3 mos	49.3 (41.2-57.8)	49.7 (43.9-87.4)	Mann Whitney U	0.34
BMI 6 mos	42.7 (32.0-55.0)	46.8 (38.4-87.5)	Mann Whitney U	0.03
BMI 12 mos	39.1 (31.3-50.9)	43.6 (33.9-85.2)	Mann Whitney U	0.03
BMI 24 mos	34.6 (26.4-48.1)	38.9 (30.2-49.5)	Mann Whitney U	0.04
%EWL 3 mos	23.2 (10.5-48.3)	17.3 (4.7-35.2)	Mann Whitney U	0.01
%EWL 6 mos	39.8 (23.3-72.7)	29.5 (4.3-48.4)	Mann Whitney U	0.001
%EWL 12 mos	57.5 (36.4-82.1)	37.0 (7.8-66.0)	Mann Whitney U	0.001
%EWL 24 mos	64.4 (36.4-96.5)	48.4 (26.7-80.2)	Mann Whitney U	0.02
Resolution of OSA	4 of 5	2 of 3	Fishers exact	0.64
Resolution of HTN	4 of 6	4 of 6	Fishers exact	0.60
Resolution of DM	2 of 2	2 of 3	Fishers exact	0.65

BMI = body mass index (kg/m²); %EWL = excess weight loss expressed as a percentage; OSA = obstructive sleep apnea; HTN = hypertension; DM = diabetes mellitus.

TOTAL --- 198 patients

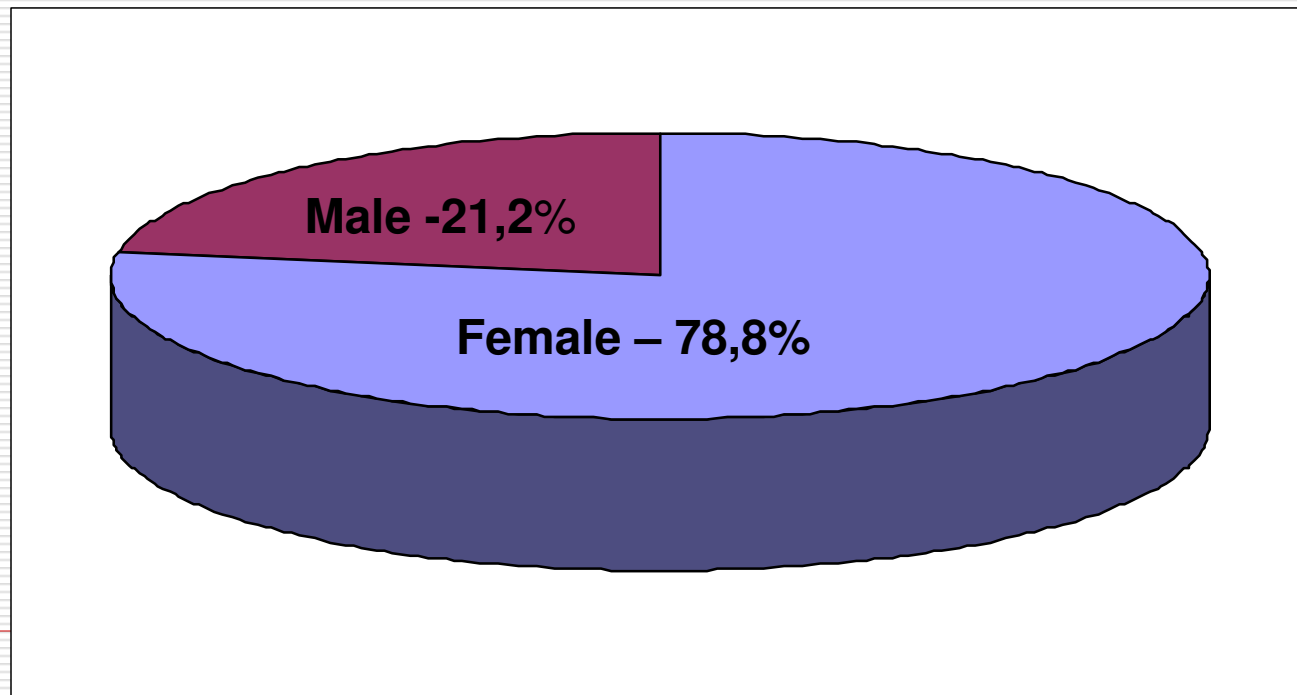
16,8 % of all patients with Lap Band

MORTALITY -- 1 (0,5%)

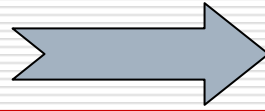
Middle Age ----- 38,8 Years

min. ----- 18 years

max. ----- 66 years



Middle Weight



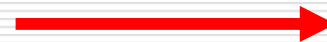
153,4 Kg

minimal



116 Kg

maximum



263 Kg

Median Body Mass Index (BMI)

56,7 Kg/m²

minimal



50,1 Kg/m²

maximum



77,3 Kg/m²

COMORBIDITIES

160 PATIENTS – (80%)

•OSTEOARTROPHATY(joint pain) -----	57%
•Arterial Hypertension -----	32%
•Diabetes mellitus type 2 -----	43,7%
•Roncophaty -----	32%
•Sleep Apnea Syndrome -----	16%
•Hypotirodism -----	0,8%
•Hiatal Hernia -----	6%
•GRD + Hiatal Hernia -----	2%
•Cholelitiase _____	10%

Middle time of surgery --- 65 mns

min. 40 mns – max. 190 mns

**Median time of Hospital Stay
2 days**

min. 1 day --- max. 16 days

Post operative Morbidity

- **2 port infections ----- replacement**
 - **1 band infection ----- removal**
 - **Pneumonya ----- 2 patients**
 - **Disphagia ----- 3 patients**
 - **T E P ----- 1 patient**
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Complications with LapBand

Kind	N ^o pat.	%	Min.Sur	Maj. Sur
Pouch dilatation	3	1.5		1.5%
Slippage	3	1.5		1.5%
Band infection	1	0.5		0.5%
Band rupture	3	1.5		1.5%
Break/desc port-tube	7	3.6	3.6%	
Port infection	3	1.5	1.5%	
TOTAL	21	10.1	5.1%	5.0%

REINTERVENTIONS

➤ **11 major- 5,55%**

3 - replacements

6 – band reposition

1 – Conversion to Scopinaro

1 – Conversion to sleeve gastrectomy

➤ **10 minor – 5%**

Replacement of port ----- 4

reconnection tub / port ----- 6

Median Follow-up

40 months

Min. 6 months

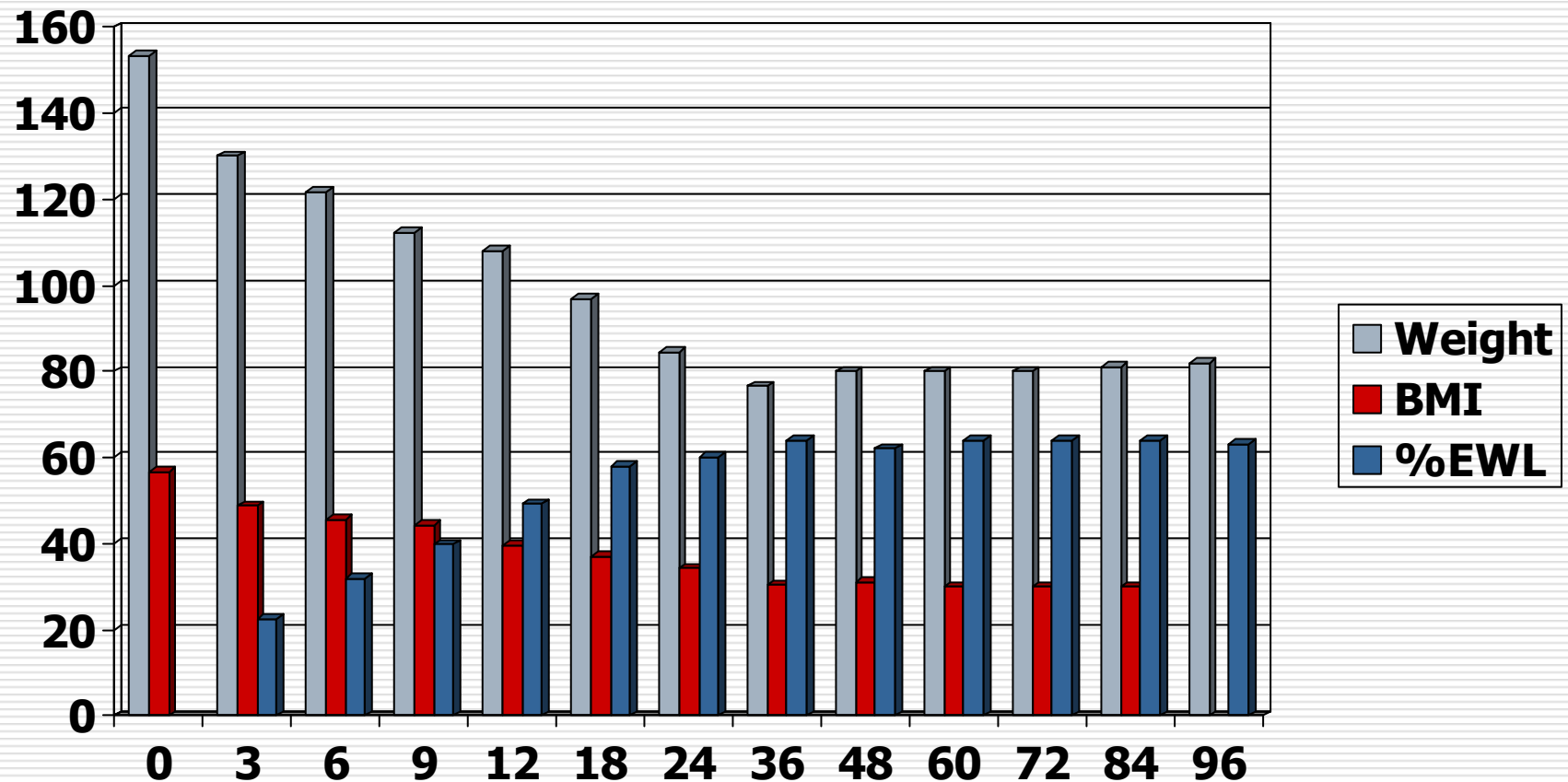
Max. 96 months

Follow-up

- | | |
|--|--|
| <input type="checkbox"/> 3 months-- 196/198 | <input type="checkbox"/> 60 months---- 26/29 |
| <input type="checkbox"/> 6 months-- 196/198 | <input type="checkbox"/> 72 months---- 20/20 |
| <input type="checkbox"/> 9 months-- 174/178 | <input type="checkbox"/> 84 months---- 20/20 |
| <input type="checkbox"/> 12 months- 156/160 | <input type="checkbox"/> 96 months ---- 4/4 |
| <input type="checkbox"/> 18 months- 131/137 | |
| <input type="checkbox"/> 24 months- 112/119 | |
| <input type="checkbox"/> 36 months---- 82/88 | |
| <input type="checkbox"/> 48 months---- 47/52 | |

96,4%

Evolution of Weight, BMI and % EWL on superobese patients



Evolution of Comorbidities

Comorbidities	Nº patients	Without disease	Improved	Unchanged
Osteoarthropathy	91	45	39	7
Roncophaty	51	32	18	1
Arterial Hypertension	51	28	15	8
Sleep Apnea Sind.	26	13	10	3
Type 2 Diabetes	70	48	16	6

% EWL < 50%

Faillure 8,1%

CONCLUSION

- Our results show that Lap Band is a very good surgical treatment for superobese patients, without great complications and with a very good result on weight lost and resolution of the comorbid diseases
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