One vs Two-Stage Conversion of Failed Adjustable Gastric Band to Laparoscopic Sleeve Gastrectomy: Outcomes and Costs

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BACKGROUND

- One-stage and two-stage conversion of adjustable gastric band (AGB) to laparoscopic sleeve gastrectomy (LSG) are both feasible
- Differences in outcomes and cost are unknown

AIM

To compare outcomes and costs of one- versus two-stage conversion of AGB to LSG

METHODS

Period: January 1, 2012 – June 30, 2021

Design: Retrospective observational study

Data: Single institutional data (BIDMC) obtained via chart review

Cohort: 87 patients undergoing one- vs. two-stage conversion

Analysis: Differences in operative time, LOS, payments, and weight loss trends between groups

FINDINGS

	One Stage	Two Stage	P
OPERATIVE TIME Min (IQR)	141 (111-171)	198 (135-261)	<0.01
LENGTH OF STAY Days (IQR)	2 (1-2)	4 (2-5)	<0.01
PAYMENT USD (IQR)	3075 (2064-4086)	3930 (2588-5272)	<0.01

Table 1: Comparison of OR time, nights spent in hospital, and total payments billed to patients for one stage and two stage procedures.

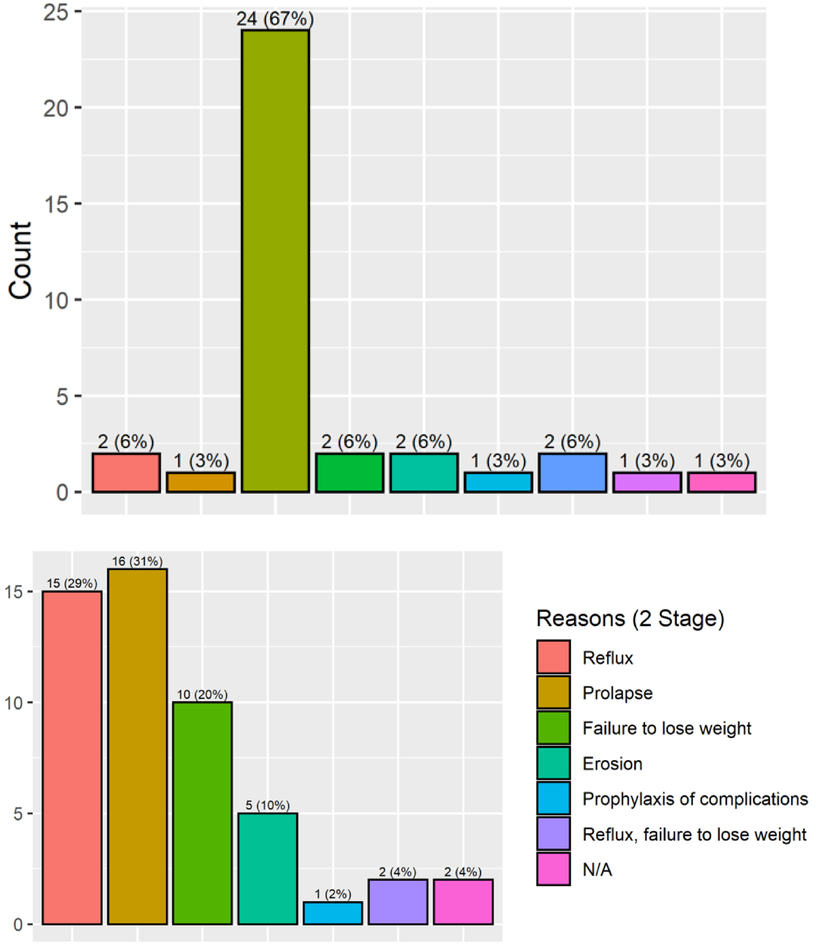


Figure 1: Reasons given by patients for band removal in one-stage (above) versus two-stage (below) procedures.

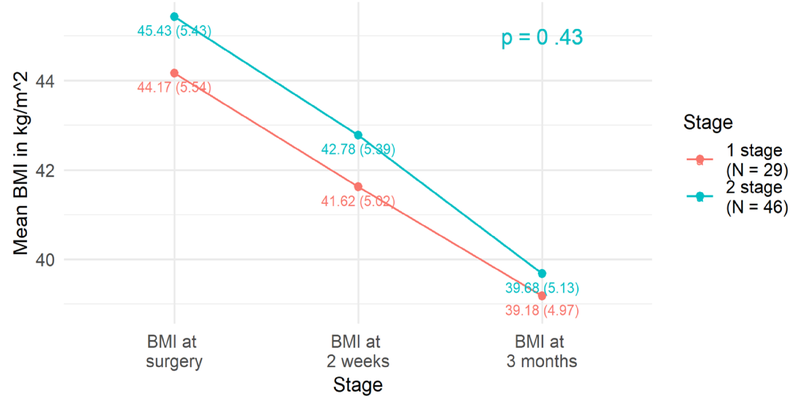


Figure 2: BMI trends over 3 time points and comparison by 1 and 2 stage band removal procedure, revealing no difference between groups.

CONCLUSIONS

- One-stage conversion of AGB to LSG offered shorter LOS and total operative time
- No significant weight gain in two-stage group while awaiting LSG
- Unable to determine difference in complication rates given low complication rate
- Surgeons were paid approximately 30% more performing a two-stage procedure

REFERENCES

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