



MIDWEST SURGICAL ASSOCIATION

2020 Annual Meeting

August 2 - 4, 2020 | Mackinac Island, MI
Grand Hotel

28. LOWER PREOPERATIVE 48-HOUR PH SCORE ASSOCIATED WITH REFLUX RESOLUTION AFTER SLEEVE GASTRECTOMY

Presenter: Karen Summe MD | St. John Hospital and Medical Center

K Summe, A Hawasli

Background: Patients undergoing laparoscopic sleeve gastrectomy may experience resolution or persistence of reflux symptoms after surgery. The objective of our study is to identify factors associated with reflux resolution after sleeve gastrectomy.

Methods: We conducted a retrospective chart review of patients with preexisting reflux symptoms who underwent laparoscopic sleeve gastrectomy over a 2-year period (July 2015-June 2017). Patients who had previously undergone reflux reducing operations, who underwent reflux reducing operation at the time of sleeve gastrectomy or who had hiatal hernia greater than 3 cm were excluded. A total of 70 patients were included in our analysis.

Results: 33 patients reported resolution of reflux symptoms after laparoscopic sleeve gastrectomy (RR); 37 did not have resolution (NR). Patients were followed for an average of 12 months after surgery. There was no difference in terms of age (46 ± 10 RR vs 47 ± 9 NR, $p=0.609$), Preop BMI (50.1 ± 7 RR vs 49.6 ± 9 NR, $p=0.789$), %EBMIL (59.5 ± 18.5 RR vs 60.6 ± 20.9 NR, $p=0.819$). Presence of hiatal hernia was similar in both groups (23 RR, vs 26 NR). Preoperative 48-Hour pH score was higher in patients who reported nonresolution of reflux symptoms than those who did report resolution of reflux symptoms after surgery (18.4 ± 13 RR vs 29.1 ± 26 NR, $p=0.0002$).

Conclusion: Sleeve gastrectomy resulted in continued reflux symptoms in patients with higher preoperative 48-hour pH score. Consideration should be given to performing a reflux reducing operation at the time of sleeve gastrectomy in patients with higher preoperative 48-hour pH score. Further research will be needed to determine at what preoperative 48-hour pH score this should be performed.