

J Minim Access Surg. 2020 Sep 12. doi: 10.4103/jmas.JMAS_167_19. Online ahead of print.

Correlation between pre-operative endoscopic findings with reflux symptom score for gastro-oesophageal reflux disease in bariatric patients

Amit Bhambri ¹, Vitish Singla ¹, Sandeep Aggarwal ¹, Aashir Kaul ¹, Mehul Gupta ¹, Rachna Chaudhary ¹

Affiliations

PMID: 32964884 DOI: 10.4103/jmas.JMAS_167_19

Abstract

Introduction: There is a strong association between gastro-oesophageal reflux disease and morbid obesity.

Methods: Two hundred and eleven morbidly obese patients operated between September 2007 and June 2017 were retrospectively reviewed. All patients underwent pre-operative upper gastrointestinal endoscopy and assessment by reflux symptomatic score questionnaire.

Results: Of the total 211 patients, 156 (73.94%) were females; mean body mass index of the cohort was 46.23 ± 3.1 kg/m². There was no evidence of Barrett's oesophagus or malignancy on pre-operative endoscopy. 63.04% of the patients (n = 133) in the study cohort had normal endoscopy. Pre-operative evaluation by reflux symptom score (RSS) questionnaire revealed no evidence of gastro-oesophageal reflux disease in 61.13% of patients (n = 129). The total number of patients with symptoms was 82 (38.86%). They were further divided into two categories based on severity of symptoms, namely, mild + moderate 60 (73.17%) and severe + very severe 22 (26.83%). From the cohort of symptomatic patients, the sub-cohort of 60 mild + moderate symptomatic patients had equal number of patients with normal 30 (50%) and abnormal endoscopy 30 (50%). In the sub-cohort of patients with severe + very severe symptoms (n = 22; 26.83%), endoscopy was abnormal in 6 (27.7%) patients. Whereas, out of 129 (61.13%) asymptomatic patients, one-third (n = 42) had abnormal endoscopy. The weighted kappa score was used between pre-operative endoscopic findings and RSS was statistically not significant (k = 0.0986).

Conclusion: Pre-operative endoscopy is a must in all bariatric patients as significant percentage of asymptomatic patients can have abnormal endoscopy and vice versa.

Keywords: Gastro-oesophageal reflux disease; Los Angeles grading; endoscopy; morbid obesity; reflux symptom score.

Related information

[MedGen](#)

FOLLOW NCBI



Follow NLM

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Copyright
FOIA
Privacy

Help
Accessibility
Careers

NLM NIH HHS USA.gov