

## Timing of Smoking Cessation Affects Outcomes After Laparoscopic Gastric Bypass

Edward Skicki $^1$ , Gary Aghazarian $^2$ , Matthew Kalliath $^3$ , Cory Kutruff $^3$ , John Mills $^3$ , Justin Rosenberger $^4$ , Luciano DiMarco $^4$ 

1. Surgery, Lancaster General Hospital, Lancaster, USA 2. Surgery, University of Pittsburgh Medical Center P, Harrisburg, USA 3. Surgery, University of Pittsburgh Medical Center Pinnacle, Harrisburg, USA 4. Surgery, Central Pa Surgical Associates, Harrisburg, USA

☑ Corresponding author: Edward Skicki, skicki@gmail.com

Categories: General Surgery

Keywords: marginal ulcers, smokers, postoperative complications, excess weight loss, postop pain, nausea, smoking cessation

## How to cite this poster

Skicki E, Aghazarian G, Kalliath M, et al. (2018) Timing of Smoking Cessation Affects Outcomes After Laparoscopic Gastric Bypass. Cureus 10(10): e.

## **Abstract**

With the growth of bariatric surgery and the inevitable need for conversion/revision to other weight loss procedures, there exists a clear need to identify those characteristics that can help to guide beneficent decision making. Among gastric bypass patients, marginal ulcers are a common complication and are thought to be predisposed by a number of factors, including smoking. To date, no study has focused on whether smoking status of a patient at the time of gastric bypass is related to later marginal ulcer formation and other complications.

A meta-analysis of prior studies was performed with the addition of new data to determine the correlation between common postoperative complications (marginal ulcers, nausea/vomiting, bleeding, stricture), need for reintervention, weight loss and patient smoking habits at the time of laparoscopic gastric bypass. Trends and Relative Risks among smokers, former smokers and never smokers were calculated using this data.

Results demonstrate that current smokers have a statistically significant higher incidence (within the first year after surgery) of marginal ulcers, overall postoperative complications, percent excess weight loss, need for reintervention and postop pain with nausea/vomiting as compared to never smokers and smokers who have undergone at least six weeks of smoking cessation prior to surgery. in this regard, never smokers and former smokers were nearly equivocal in outcomes.

The results of this study support current recommendations for smoking cessation among patients who are undergoing a laparoscopic gastric bypass whether as a primary procedure or as a revision surgery. This analysis supports at least 6-8 weeks of cessation which can provide significantly improved outcomes in gastric bypass patients, particularly in regards to initial postoperative complications and later marginal ulcer development.

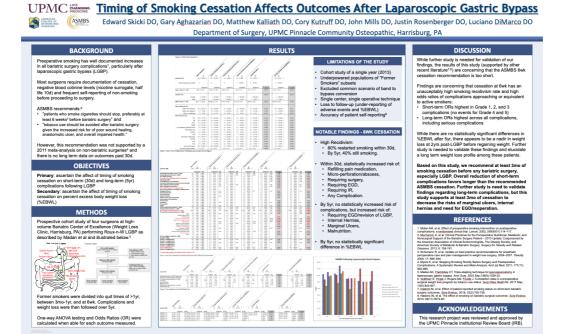
Open Access Published 10/17/2018

## Copyright

© Copyright 2018

Skicki et al. This is an open access article distributed under the terms of the Creative Commons Attribution License CC-BY 3.0., which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Distributed under Creative Commons CC-BY 3.0



65