ORIGINAL CONTRIBUTIONS





Gastrointestinal Quality of Life in Morbidly Obese Patients Undergoing One Anastomosis Gastric Bypass (OAGB): Derivation of a "Mini GIQLI" Score

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Abstract

Background One anastomosis gastric bypass (OAGB) is now one of the mainstream bariatric surgical procedures with proven safety and efficacy. However, data on the gastrointestinal quality of life following OAGB is lacking.

Methods This is a retrospective analysis of a prospectively collected database, performed at a single tertiary care teaching hospital from January 2016 until March 2021. All patients undertook the Gastrointestinal Quality of Life Index (GIQLI) questionnaire. GIQLI was correlated with various parameters. Principal component analysis (PCA) was used to assess the importance of each question in the questionnaire and devise a "Mini GIQLI score".

Results A total of 60 patients were included. The %TWL at 3 and 5 years was $26.2 \pm 11.9\%$, 31.7 ± 11 respectively. The mean weight regain was 5.6 ± 8.5 kg. The mean GIQLI score was 125 ± 13.1 . The mean scores for questions pertaining to gastrointestinal, social, psychological, and physical domains were 3.49, 3.7, 3.45, and 3.27 respectively. Scree plot of principal component analysis showed that a new score ("Mini GIQLI") combining only 5 questions had good correlation with the overall GIQOL score (r = 0.842). The five questions related to anxiety, fatigue, feeling unwell, loss of endurance, and feeling unfit.

Conclusions Patients report a good score on GIQLI assessment following OAGB. The Mini GIQLI score is a quicker tool with good correlation to the full-length GIQLI score.

Keywords GIQLI · Quality of life · OAGB · Mini GIQLI score

Key Points

- Patients have a good gastrointestinal quality of life following OAGB.
- Mini GIQLI score is a tool to rapidly assess the quality of life following OAGB.
- The Mini GIQLI correlates well (r=0.842) with the original GIQLI score.

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Introduction

Since its inception in 1997, one-anastomosis gastric bypass/mini gastric bypass (OAGB/MGB) has been on the rise as a primary bariatric surgery procedure, primarily due to greater

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