May Common Limb Length of Be a Determinant of Weight Loss Effect of Roux-en-Y Gastric Bypass?

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Introduction

The mechanism of the effect of the Roux en Y gastric bypass (RNYGB) procedure on weight loss is still a matter of debate. Importance of common limb length (CLL) is still a matter of debate.

This study aimed to investigate the effect of common limb length on weight loss after RNYGB operation.

Method

Patient selection: Between 1st of February to 31st of December 2019, 39 patients, consecutively performed with RNYGB and who gave their informed consent, included the study.

Surgical technique: All patient had been operated by standart RNYGB operation technique. Gastric pouch of 20-30 ml volume was constructed without leaving any fundus. An isoperistaltic gastrojejunal anastomosis was constructed at the anterior gastric wall. A gastric bypass was done with an approximately 70cm biliopancreatic limb and 120-180 cm alimentary limb, according to excess weight of patient.

Measurement: Right after anastomoses were done, common limb was measured by laparoscopic devices which were signed on the tenth cm from the tip.

Follow-up: All patients were followed up twelve months postoperatively, their weight was counted once a three month. Postoperative weigth loss is counted by excess weight loss percent (%EWL). Between the weight loss and the common limb length has been investigated by statistical analysis.

Results

Mean common limb length was 282±70cm, median was 280cm (range 140 - 450cm).

Bivariate correlation was analysed between CLL and %EWL on the postop 3rd, 6th, 9th and 12th months. There was no significant correlation ($p>0.05$).

Conclusion

Common limb length seemed not to be related to the weight loss effect of the RNYGB operation.

More studies with more count of patients and longer follow-up period are needed to evaluate the possible postoperative weight loss effect of the CLL on long-term results of RNYGB.