O-B02  Robotic versus Laparoscopic Roux-en-Y Gastric
Bypass: A comparison of short-term outcomes and weight loss
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Background: The benefits of robotic over laparoscopic surgery for
Roux-en-Y gastric bypass (RYGB) are debatable, with current evidence
suggesting no significant differences in short-term outcomes. This
study compares short-term outcomes and excess weight loss (EWL) %
difference between these two techniques.

Methods: A retrospective study of patients undergoing RYGB between
January 2016 and November 2020 at a single centre. Demographic, peri-
operative and EWL% data were analysed.

Results: 424 RYGB procedures were performed by three surgeons in-
cluding 77 robotic (RRYGB) and 347 laparoscopic (LRYGB) operations.
The first 8 RRYGB were excluded being early in the learning curve and
the operative technique was modified afterwards. There were no statis-
tically significant demographic differences. The median operative time
was 179 (151 – 195) and 149 (123 -171) minutes in the RRYGB and LRYGB
groups respectively (P < 0.001). There were no statistically significant
differences between both groups in complications, length of stay, 30-
day readmission and EWL% at 6 and 12 months. The EWL% at 2 years
was 88.5 (+/-19.1) and 66.6 (+/-29.8) in the RRYGB and LRYGB groups re-
spectively (P = 0.003).

Conclusions: RRYGB increases the operative time with no significant
short-term outcome differences. The EWL% was higher at 2 years,
probably due to a narrower hand-sewn gastro-jejunal anastomosis.
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