

Alternative Simplified Approach for Duodenal Transection

DONGJAE JEON¹, YONG JIN KIM², YOONA CHUNG², BOMINA PAIK²

¹Department of Surgery, Seoul National University Bundang Hospital

²Bariatric and Metabolic Surgery Center, H+ YANGJI Hospital, Seoul, Korea

I have no potential conflict of interest to report

Duodenal Transection

- BPD-DS
- SADI-S
- Sleeve + DJB

Factors affect integrity of anastomosis

- Blood perfusion
- Tension on the anastomosis

Patient Presentation

Patient: 45-year-old female

Anthropometrics: 156.7 cm / 73.8 kg / 30.06 kg/m²

Past medical history:


Type 2 diabetes (diagnosed 8 years ago, on insulin therapy)

Dyslipidemia

EGD: Chronic superficial gastritis

ORIGINAL CONTRIBUTIONS

Laparoscopic Sleeve Gastrectomy plus Duodenojejunal Bypass: Learning Curve Analysis and Technical Feasibility of Duodenojejunostomy Using Linear Stapler

Dongjae Jeon¹ · Yoona Chung¹ · Bomina Paik¹ · Yong Jin Kim¹ 

| | Number (<i>n</i> = 100) | Mean ± SD |
|----------------------------------------|-----------------------------|--------------|
| Female sex | 86 | |
| Age (years) | | 40.74 ± 8.08 |
| BMI (kg/m ²) | | 35.79 ± 4.72 |
| Type 2 diabetes | 100 | |
| Duration (years) | | 5.08 ± 5.51 |
| Insulin usage | 15 | |
| Length of postoperative stay (days) | | 3.91 ± 2.07 |
| Intraoperative complication | 0 | |
| Conversion to open surgery | 0 | |
| Major early postoperative complication | 2 | |
| Bleeding | 0 | |
| Leakage | 2 | |

SD standard deviation, *BMI* body mass index

| | Preoperative (n = 100) | Postoperative (1 year) (n = 93) | P value |
|-------------------------------|------------------------|------------------------------------|---------|
| Weight (kg) | 97.54 ± 15.59 | 72.71 ± 11.56 | <0.001 |
| %TWL | | 25.38 ± 8.58 | |
| BMI (kg/m ²) | 35.79 ± 4.72 | 26.58 ± 2.95 | <0.001 |
| BMI loss (kg/m ²) | | 9.38 ± 4.25 | |
| Diabetes | 100 | | |
| Remission rate | | 72.0% (67 / 93) | |
| Hypertension | 50 | | |
| Remission rate | | 84.1% (37 / 44) | |
| Dyslipidemia | 80 | | |
| Remission rate | | 70.3% (52 / 74) | |
| HbA1c (%) | 8.19 ± 1.58 | 5.93 ± 1.00 | <0.001 |
| FBG (mg/dL) | 173.96 ± 76.16 | 114.66 ± 36.10 | <0.001 |
| C-peptide (ng/mL) | 4.18 ± 2.02 | 2.56 ± 1.59 | <0.001 |
| Total cholesterol (mg/dL) | 174.87 ± 40.82 | 181.08 ± 39.18 | 0.311 |
| LDL cholesterol (mg/dL) | 102.94 ± 35.06 | 101.91 ± 36.26 | 0.849 |
| Triglycerides (mg/dL) | 199.37 ± 155.97 | 113.42 ± 88.88 | <0.001 |
| Uric acid (mg/dL) | 4.96 ± 1.49 | 4.92 ± 1.35 | 0.880 |
| Vitamin B 12 (pg/mL) | 727.07 ± 321.95 | 908.78 ± 752.73 | 0.061 |

%TWL %total weight loss, BMI body mass index, FBG fasting blood glucose

- **Anastomotic leakage**
 - 8th patient
 - Converted to RYGB

- **Procedural change**
 - **Methods for anastomosis**
Hand-sewn → Linear stapled (from the 43rd case)

 - **Infra-pyloric vessels**
Partially transected → Preserved

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