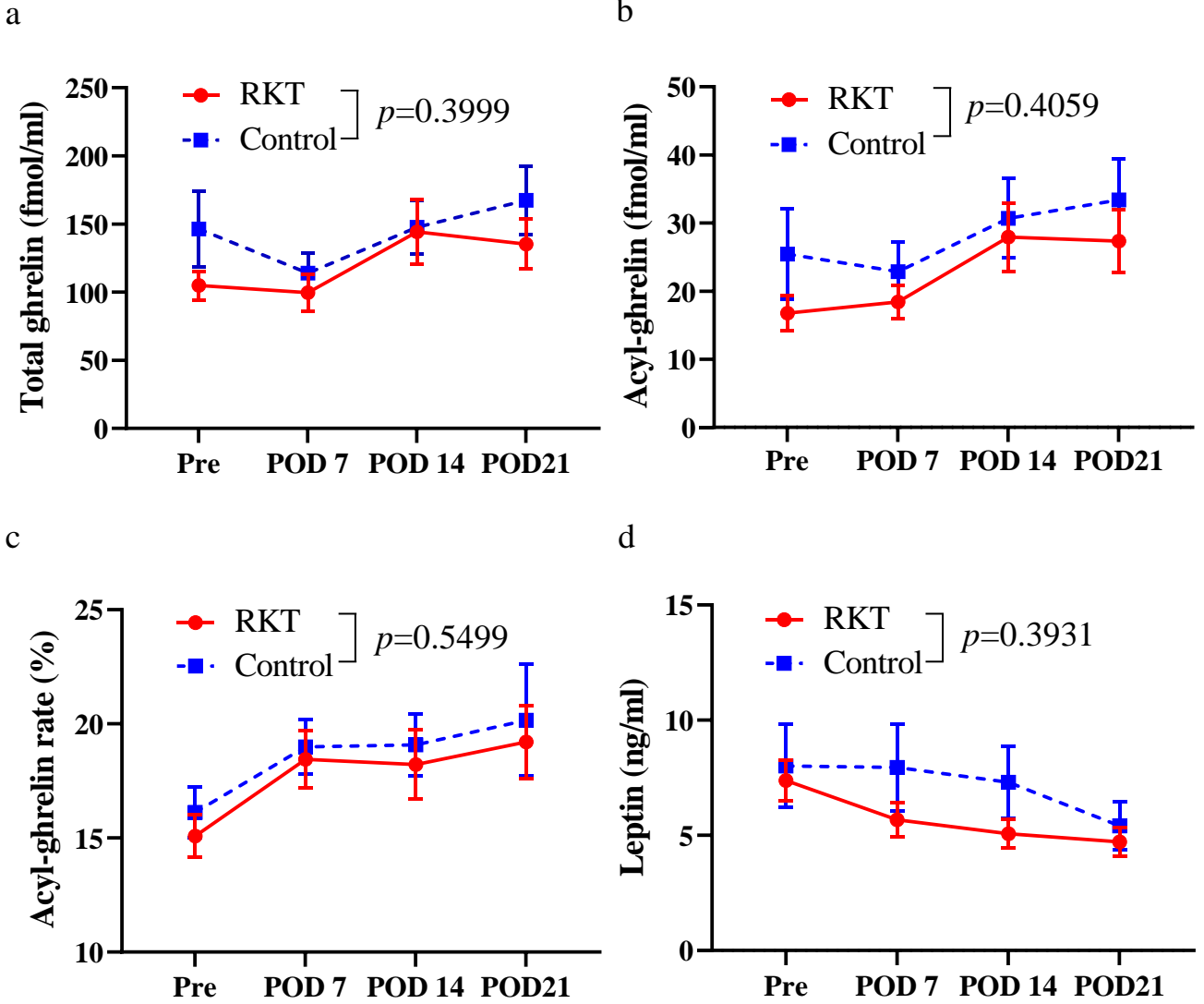


Supplemental Figure 1. Distribution of TDI values among all patients by DGE grade. (a) TDI values from POD 1 to 14. (b) TDI values from POD 1 to 21. Patients without DGE are indicated by black round dots, patients with grade A DGE are indicated by black squares, and patients with grade B or C DGE are indicated by black triangles. Bars indicate medians (95% CI). * $p < 0.05$, ** $p < 0.01$. TDI: total dietary intake, CI: confidence interval, DGE: delayed gastric emptying, RKT: *rikkunshito*, POD: postoperative day, NS: not statistically significant.



Supplemental Figure 2. Comparison of hormone levels between the RKT and control groups

RKT: *rikkunshito*, Pre: preoperative value, POD: postoperative day.

Supplemental Table 1. Short-term postoperative outcomes stratified by BMI

BMI <22 kg/m²	RKT group (n=13)	Control group (n=13)	<i>p</i>
All patients with DGE	4 (30.8%)	6 (46.2%)	0.6882
Grade A DGE	2 (15.4%)	4 (30.8%)	0.6447
Grade B DGE	1 (7.7%)	1 (7.7%)	>0.9999
Grade C DGE	1 (7.7%)	1 (7.7%)	>0.9999
Grade B+C DGE	2 (15.4%)	2 (15.4%)	>0.9999
TDI (POD 1–14)	3.16 (1.19-9.08)	3.79 (0.9-6.41)	0.4483
TDI (POD 1–21)	6.32 (2.77-16.08)	7.58 (1.65-12.50)	0.8798
Duration of parenteral nutrition, days	21 (9-47)	23 (13-40)	0.9096
Duration of hospital stay, days	28 (16-48)	28 (17-41)	0.9095
BMI ≥22 kg/m²	RKT group (n=13)	Control group (n=13)	<i>p</i>
All patients with DGE	4 (30.8%)	2 (15.4%)	0.6882
Grade A DGE	2 (15.4%)	1 (7.7%)	0.6447
Grade B DGE	1 (7.7%)	0	>0.9999
Grade C DGE	1 (7.7%)	1 (7.7%)	>0.9999
Grade B+C DGE	2 (15.4%)	1 (7.7%)	>0.9999
TDI (POD 1–14)	2.81 (0.56-7.16)	3.74 (0-7.95)	0.2226
TDI (POD 1–21)	6.51 (1.06-12.66)	7.72 (0-14.50)	0.5446
Duration of parenteral nutrition, days	20 (12-41)	19 (11-43)	0.6043
Duration of hospital stay, days	27 (21-48)	29 (20-44)	0.8496

BMI: body mass index, DGE: delayed gastric emptying, TDI: total dietary intake, POD: postoperative day, RKT: *rikkunshito*.

Supplemental Table 2. Short-term postoperative outcomes by procedure type

PPPD	RKT group (n=16)	Control group (n=18)	<i>p</i>
All patients with DGE	5 (31.3%)	6 (33.3%)	>0.9999
Grade A DGE	2 (12.5%)	3 (16.7%)	>0.9999
Grade B DGE	1 (6.3%)	1 (5.6%)	>0.9999
Grade C DGE	2 (12.5%)	2 (11.1%)	>0.9999
Grade B+C DGE	3 (18.8%)	3 (16.7%)	>0.9999
TDI (POD 1–14)	3.06 (1.19-9.08)	3.87 (0-6.13)	0.4898
TDI (POD 1–21)	6.55 (2.94-16.08)	7.80 (0-12.10)	0.8782
Duration of parenteral nutrition, days	18.5 (11-47)	18.5 (11-43)	0.7523
Duration of hospital stay, days	27 (21-47)	28 (17-44)	0.713
SSPPD	RKT group (n=10)	Control group (n=8)	<i>p</i>
All patients with DGE	3 (30.0%)	2 (25.0%)	>0.9999
Grade A DGE	2 (20.0%)	2 (25.0%)	>0.9999
Grade B DGE	1 (10.0%)	0	>0.9999
Grade C DGE	0	0	>0.9999
Grade B+C DGE	1 (10.0%)	0	>0.9999
TDI (POD 1–14)	2.17 (0.56-7.16)	3.34 (1.45-7.95)	0.1728
TDI (POD 1–21)	5.08 (1.06-12.66)	5.73 (2.45-14.50)	0.6334
Duration of parenteral nutrition, days	23.5 (12-41)	26 (12-40)	0.7449
Duration of hospital stay, days	32.5 (21-48)	36.5 (22-41)	0.3941

PPPD: pylorus-preserving pancreaticoduodenectomy, SSPPD: subtotal stomach-preserving pancreaticoduodenectomy, DGE: delayed gastric emptying, TDI: total dietary intake, POD: postoperative day, RKT: *rikunshito*.