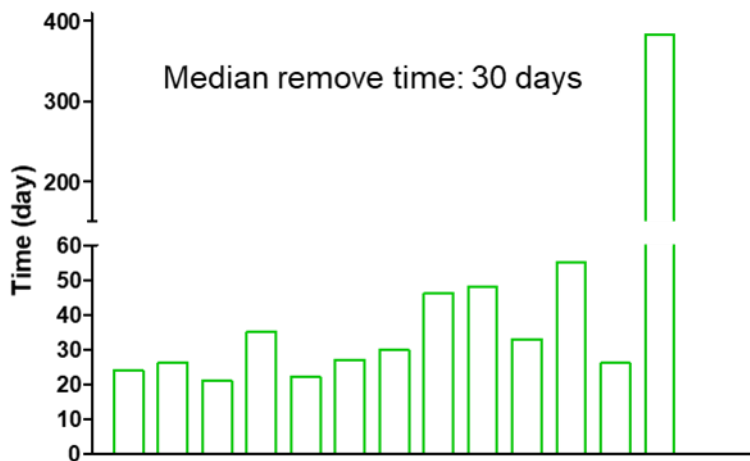
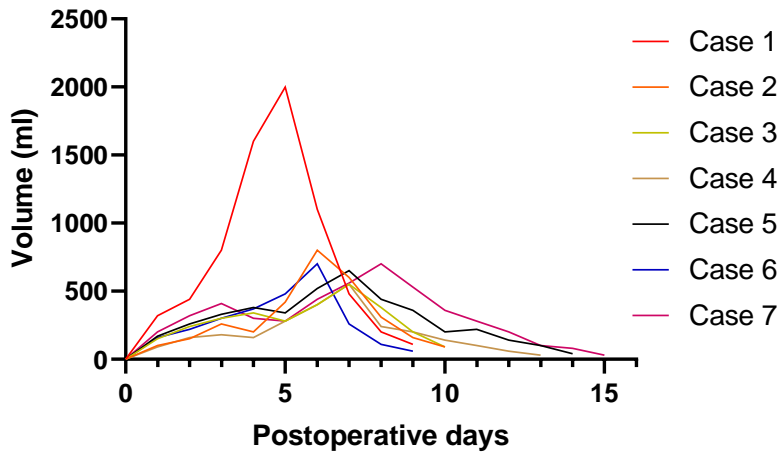


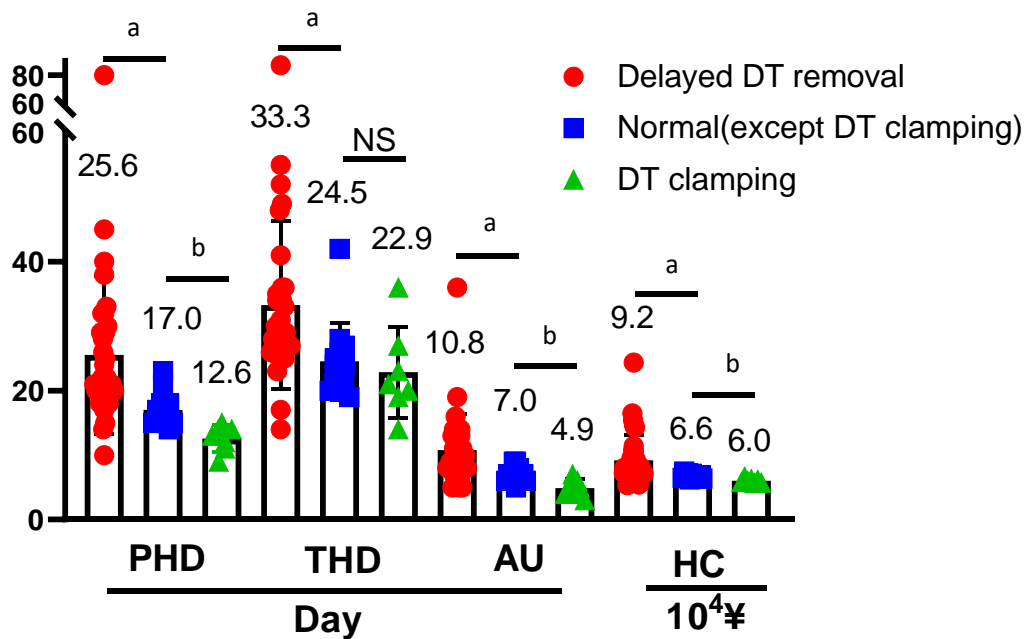
Supplementary Figure 1 Total hospitalization time have significantly positive correlation with the time of DT removal in GC patients discharged without DT. GC: Gastric cancer; DT: Drainage tube.



Supplementary Figure 2 Time of removal DT in GC patients with postoperative CA who discharged with DT. GC: Gastric cancer; DT: Drainage tube; CA: Chylous ascites.



Supplementary Figure 3 The drainage variation of DT clamping cases in the GC patients with postoperative CA. GC: Gastric cancer; DT: Drainage tube; CA: Chylous ascites.



Supplementary Figure 4 DT clamping obviously reduce medical resources consumption and economic burden in GC patients with postoperative CA. ^a $P < 0.05$. ^b $P < 0.01$. GC: Gastric cancer; DT: Drainage tube; CA: Chylous ascites; PHD: Postoperative hospitalization duration; THD: Total hospitalization duration; AU: Time of antibiotic usage; HC: Hospitalization cost; NS: No significant.

Supplementary Table 1 No significant characteristic differences between the delayed DT removal and the normal groups

	Delayed DT removal group	Normal group	<i>P</i> valve
	<i>n</i> = 33 (%)	<i>n</i> = 20 (%)	
Tumor size, cm			
> 5	4 (12.1)	5 (25)	0.313
> 3, ≤ 5	14 (42.4)	5 (25)	
≤ 3	15 (45.5)	10 (50)	
Tumor location			
Upper	12 (36.4)	6 (30)	0.854
Middle	7 (21.2)	4 (20)	
Bottom	14 (42.4)	10 (50)	
Lymphadenectomy			
D ₁	2 (5.9)	6 (31.6)	0.053
D ₂	30 (90.9)	13 (65)	
D ₃	1 (2.9)	1 (5.3)	
AJCC stage			
I	13 (38.2)	8 (42.1)	0.132
II	8 (23.5)	3 (15.8)	
III	12 (36.4)	6 (30)	
IV	0 (0)	3 (15.8)	
Combined infection			
Yes	12 (36.4)	8 (40)	0.791
No	21 (63.6)	12 (60)	
Infection site			
Abdominal	25 (76.5)	15 (73.7)	0.977
Thoracic	6 (18.2)	4 (20)	
Incision	2 (5.9)	1 (5.3)	
Postoperative usage, day	antibiotic		0.582

> 5	17 (51.5)	12 (60)	
≤ 5	16 (48.5)	8 (40)	
Time of somatostatin usage, day			0.073
> 2	13 (39.4)	3 (15)	
≤ 2	20 (60.6)	17 (85)	
Time of TPN, day			
> 8	6 (18.2)	2 (10)	0.695
≤ 8	27 (81.8)	18 (90)	
Time of low-fat diet, day			
> 5	21 (63.6)	8 (40)	0.082
≤ 5	12 (36.4)	12 (60)	
DT clamping			
Yes	0 (0)	7 (35)	<0.001
No	33 (100)	13 (65)	

DT: Drainage tube; GC: Gastric cancer; CA: Chylous ascites; SD: Standard deviation; TPN: Total parenteral nutrition.

Supplementary Table 2 No significant characteristic differences among DT clamping, delayed DT removal, and normal group (except DT clamping) sub-groups

Characteristics	Sub-groups			P ₁	P ₂	P ₃
	DT clamping (n = 7) (%)	Normal (n = 13) (%)	Delayed DT removal (n = 33) (%)			
Tumor size, cm						
> 5	2 (28.6)	3 (23.1)	4 (12.1)	0.634	0.896	0.515
> 3, ≤ 5	2 (28.6)	3 (23.1)	14 (42.4)			
≤ 3	3 (42.9)	7 (53.8)	15 (45.5)			
Tumor location						
Upper	2 (28.6)	4 (30.8)	12 (36.4)	0.962	0.864	0.772
Middle	1 (14.3)	3 (23.1)	7 (21.2)			
Bottom	4 (57.1)	6 (46.2)	14 (42.4)			
Lymphadenectomy						
D ₁	2 (28.6)	4 (30.8)	2 (5.9)	0.077	0.374	0.076
D ₂	4 (57.1)	9 (69.2)	30 (90.9)			
D ₃	1 (14.3)	0 (0)	1 (2.9)			
AJCC stage						
I	4 (57.1)	4 (30.8)	13 (38.2)	0.302	0.640	0.099
II	1 (14.3)	2 (15.4)	8 (23.5)			
III	1 (14.3)	5 (38.5)	12 (36.4)			
IV	1 (14.3)	2 (15.4)	0 (0)			
Combined infection						
Yes	2 (28.6)	6 (46.2)	12 (36.4)	0.716	0.444	0.695
No	5 (71.4)	7 (53.8)	21 (63.6)			
Postoperative antibiotic usage,				0.441	0.251	0.677

day						
> 5	3 (42.9)	9 (69.2)	17 (51.5)			
≤ 5	4 (57.1)	4 (30.8)	16 (48.5)			
Time of somatostatin usage, day						
> 2	1 (14.3)	2 (15.4)	13 (39.4)	0.172	0.948	0.206
≤ 2	6 (85.7)	11 (84.6)	20 (60.6)			
Time of TPN, day						
> 8	1 (14.3)	1 (7.7)	6 (18.2)	0.669	0.639	0.805
≤ 8	6 (85.7)	12 (92.3)	27 (81.8)			
Time of low-fat diet, day				0.241	0.848	0.308
> 5	3 (42.9)	5 (38.5)	21 (63.6)			
≤ 5	4 (57.1)	8 (61.5)	12 (36.4)			
DT removal duration, day						
	11.8 ± 2.1	13.6 ± 1.6	27.4 ± 14.5	-	0.047	< 0.001

p₁: Statistics analysis between three sub-groups. p₂: Statistics analysis between the clamp DT and normal sub-groups. p₃: Statistics analysis between the clamp DT and Delay remove DT sub-groups. DT: Drainage tube; TPN: Total parenteral nutrition.

Supplementary Table 3 Characteristics of GC patients with postoperative CA according to the type of lymphadenectomy

Characteristics	Lymphadenectomy			p ₁	p ₂	p ₃
	D1 (n = 8) (%)	D2 (n = 43) (%)	D3 (n = 2) (%)			
Tumor Stage						
Tis	0 (0)	2 (4.7)	0 (0)			
T ₁	4 (50)	11 (25.6)	0 (0)	0.616	0.558	-
T ₂	1 (12.5)	8 (18.6)	0 (0)			
T ₃	0 (0)	6 (14)	0 (0)			
T ₄	3 (37.5)	16 (37.2)	2 (100)			
Lymph node Stage						
N ₀	4 (50)	23 (53.5)	1 (50)	0.698	0.545	0.608
N ₁	0 (0)	7 (16.3)	0 (0)			
N ₂	2 (25)	6 (14)	0 (0)			
N ₃	2 (25)	7 (16.3)	1 (50)			
M stage						
M ₀	5 (62.5)	43 (100)	2 (100)	<0.001	<0.001	-
M ₁	3 (37.5)	0 (0)	0 (0)			
AJCC stage						
I	4 (50)	17 (39.5)	0 (0)			
II	0 (0)	10 (23.3)	1 (50)	0.001	<0.001	0.489
III	1 (12.5)	16 (37.2)	1 (50)			
IV	3 (37.5)	0 (0)	0 (0)			
Combined dissection						
Yes	1 (12.5)	3 (7)	1 (50)	0.12	0.594	0.037
No	7 (87.5)	40 (93)	1 (50)			
Type of gastric dissection						
				0.692	0.349	0.093

Total	2 (25)	18 (41.9)	1 (50)
Distal	0 (0)	4 (9.3)	1 (50)
Proximal	6 (75)	21 (48.8)	0 (0)

p₁: Statistics analysis between three sub-groups (D1, D2, and D3). p₂: Statistics analysis between the D1 and D2 sub-groups. p₃: Statistics analysis between the D1 and D3 sub-groups. DT: Drainage tube; GC: Gastric cancer; CA: Chylous ascites.