Supplementary Table

Supplementary Table 1 Associations of obesity with clinical scores and hospitalization characteristics in HTG-AP

Characteristic	Obesity		P
	No	Yes	value
	(n=179)	(n=76)	
Age (year), mean ± SD	41.2±9.1	37.9±7.8	**0.005**
Sex, n (%)			
Male	124 (69.3)	71 (93.4)	**<0.001**
Female	55 (30.7)	5 (6.6%)	
Scoring systems, median (IQR)			
Ranson	2 (1, 3)	2 (1, 4)	0.137
BISAP	1 (0, 2)	1 (1, 2)	**0.044**
MCTSI	6 (2, 8)	6 (4, 8)	0.453
Length of Hospital stays, (day), median (IQR)	10 (6, 14)	11 (7.5, 14.5)	0.437
Total costs, (thousand CNY), median (IQR)	17.8 (9.6, 37.9)	22.0 (14.0, 37.4)	0.096

SD: standard deviation; IQR: Interquartile range; CNY: China Yuan. All the bold values highlight those with $p < 0.05$.

Supplementary Table 2 Associations of hyperglycaemia with clinical scores and hospitalization characteristics in HTG-AP

Characteristic	Hyperglycaemia		P value
	No (n=41)	Yes (n=214)	
Age (year), mean ± SD	37.7±7.7	40.7±9.1	**0.044**
Sex, n (%)			
Male	32 (78.0)	163(76.2)	0.795
Female	9 (22.0)	51 (23.8)	
Scoring systems, median (IQR)			
Ranson	1 (0, 2)	2 (1, 4)	**<0.001**
BISAP	1 (0, 1)	1 (0, 2)	**0.005**
MCTSI	4 (2, 8)	6 (4, 8)	**0.030**
Length of Hospital stays, (day), median (IQR)	8 (5, 14)	10 (6.75, 15)	0.331
Total costs, (thousand CNY), median (IQR)	14.2 (6.6, 34.9)	20.3 (11.5, 40.3)	0.051

SD: standard deviation; IQR: Interquartile range; CNY: China Yuan. All the bold values highlight those with $p < 0.05$.

Supplementary Table 3 Associations of hypertension with clinical scores and hospitalization characteristics in HTG-AP

Characteristic	Hypertension		P value
	No (n=142)	Yes (n=113)	
Age (year), mean ± SD	38.9±8.8	41.9±8.8	**0.008**
Sex, n (%)			
Male	110 (77.5)	85 (75.2)	0.675
Female	32 (22.5)	28 (24.8)	
Scoring systems, median (IQR)			
Ranson	2 (1, 3)	2 (1, 4)	0.198
BISAP	1 (0, 2)	1 (0, 2)	0.157
MCTSI	6 (2, 8)	6 (2, 8)	0.897
Length of Hospital stays, (day), median (IQR)	10 (6, 14)	10 (7, 17)	0.166
Total costs, (thousand CNY), median (IQR)	18.6 (9.7, 33.4)	21.1 (11.4, 49.0)	0.172

SD: standard deviation; IQR: Interquartile range; CNY: China Yuan. All the bold values highlight those with p < 0.05.

Supplementary Table 4 Associations of low HDL-C with clinical scores and hospitalization characteristics in HTG-AP

Characteristic	Low HDL-C		P value
	No (n=118)	Yes (n=137)	
Age (year), mean ± SD	40.5±9.5	40.0±8.4	0.641
Sex, n (%)			
Male	89 (75.4)	106 (77.4)	0.715
Female	29 (24.6)	31 (22.6)	
Scoring systems, median (IQR)			
Ranson	2 (1,3)	2 (1,4)	**0.035**
BISAP	1 (0,2)	1 (1,2)	**<0.001**
MCTSI	4 (2,8)	8 (4,8)	**<0.001**
Length of Hospital stays, (day), median (IQR)	9 (5.8, 13)	12 (7, 19)	**0.001**
Total costs, (thousand CNY), median (IQR)	15.2 (8.4, 24.4)	25.8 (12.2, 57.1)	**<0.001**

SD: standard deviation; IQR: Interquartile range; CNY: China Yuan. All the bold values highlight those with p < 0.05.

Supplementary Table 5 Association of metabolic syndrome component count with clinical outcomes in HTG-AP, *n* (%)

Outcome parameter	Number of metabolic syndrome components					P for trend
	1 (n=6)	2 (n=61)	3 (n=102)	4 (n=69)	5 (n=17)	
Pleural effusion, n (%)	1 (16.7)	22 (36.1)	53 (52)	40 (58)	13 (76.5)	**<0.001**
Peritoneal effusion, n (%)	2 (33.3)	10 (16.4)	31 (30.4)	28 (40.6)	7 (41.2)	**0.006**
Local complications, n (%)	3 (50.0)	35 (57.4)	74 (72.5)	57 (82.6)	14 (82.4)	**0.001**
APFC	1 (16.7)	10 (16.4)	25 (24.5)	20 (29.0)	6 (35.3)	**0.049**
ANC	1 (16.7)	21 (34.4)	33 (32.4)	31 (44.9)	7 (41.2)	0.123
PPC	1 (16.7)	4 (6.6)	8 (7.8)	3 (4.3)	1 (5.9)	0.725
IPN	0 (0)	0 (0)	5 (4.9)	3 (4.3)	0 (0)	0.445
Systemic Complications, n (%)	0 (0)	1 (16.7)	19 (31.1)	48 (69.6)	14 (82.4)	**<0.001**
Respiratory failure	0 (0)	4 (6.6)	17 (16.7)	25 (36.2)	7 (41.2)	**<0.001**
Renal failure	0 (0)	6 (9.8)	13 (12.7)	13 (18.8)	7 (41.2)	**0.002**
Circulatory failure	0 (0)	2 (3.3)	7 (6.9)	7 (10.1)	0 (0)	0.496
SIRS	1 (16.7)	18 (29.5)	50 (49.0)	42 (60.9)	12 (70.6)	**<0.001**
Sepsis	0 (0)	2 (3.3)	7 (6.9)	8 (11.6)	0 (0)	0.344
ACS	0 (0)	4 (6.6)	6 (5.9)	10 (14.5)	2 (11.8)	0.092
ARDS, n (%)	0 (0)	1 (1.6)	6 (5.9)	7 (10.1)	2 (11.8)	**0.026**
MODS, n (%)	0 (0)	4 (6.6)	11 (10.8)	13 (18.8)	4 (23.5)	**0.008**
SAP, n (%)	0 (0)	7 (11.5)	18 (17.6)	25 (36.2)	7 (41.2)	**<0.001**
ICU admission, n (%)	0 (0)	6 (9.8)	17 (16.7)	24 (34.8)	7 (41.2)	**<0.001**

APFC: Acute peripancreatic fluid collection; ANC: Acute necrotic collection; PPC: Pancreatic pseudocyst; IPN: Infected pancreatic necrosis; SIRS: Systemic inflammatory response syndrome; ACS: Abdominal compartment syndrome; ARDS: Acute respiratory distress syndrome; MODS: Multiple organ

dysfunction syndrome; SAP: Severe acute pancreatitis; ICU: Intensive care unit.