

Supplementary Table S1. Japanese severity scoring system for acute pancreatitis (Ministry of Health, Labor and Welfare of Japan, 2008 revision)

Prognostic factors (1 point for each factor)

1. Base excess ≤ -3 mEq /L or shock (systolic blood pressure <80 mmHg)
2. $P_aO_2 \leq 60$ mmHg (room air) or respiratory failure (requiring ventilatory management)
3. BUN ≥ 40 mg/dl or creatinine ≥ 2.0 mg/dl or oliguria (daily urine output <400 ml even after intravenous fluid resuscitation)
4. Lactate dehydrogenase ≥ 2 ULN
5. Platelet count $\leq 100\,000/\text{mm}^3$
6. Serum Ca ≤ 7.5 mg/dl
7. C-reactive protein ≥ 15 mg/dl
8. No. positive measures in SIRS criteria ≥ 3
9. Age ≥ 70 y

CT grade based on contrast-enhanced CT

1. Extrapancreatic progression of inflammation

Anterior pararenal space	0 point
Root of mesocolon	1 point
Beyond lower pole of kidney	2 points
 2. Low enhanced lesion of the pancreas

The pancreas is conveniently divided into three segments (head, body, and tail)

Localized in each segment or only surrounding the pancreas	0 point
Extends to two segments	1 point
Occupies two entire segments or more	2 points
- 1 + 2 = total score

Total score = 0 or 1	Grade 1
Total score = 2	Grade 2
Total score ≥ 3	Grade 3

Assessment of severity

If the prognostic factors score is ≥ 3 or CT grade is ≥ 2 , the disease is graded as 'severe'.

The systemic inflammatory response syndrome (SIRS) criteria include body temperature $>38^{\circ}\text{C}$ or $<36^{\circ}\text{C}$, heart rate >90 bpm, respiratory rate >20 breaths/min or $P_{\text{a}}\text{CO}_2 \leq 32$ torr, and white blood cell counts $> 12\,000$ cells/mm³, <4000 cells/mm³, or $>10\%$ immature (band) forms.

BUN, blood urea nitrogen; ULN, upper limit of normal; CT, computed tomography.