

2.2 Supplementary Table 2: The C indexes of different indicators and models in predicting BI and

ACLF.

A

| Mitochondria-related indicators | C indexes in predicting BI | C indexes in predicting ACLF |
|-------------------------------------|----------------------------|------------------------------|
| MMP of CD8+ T cells | 0.75 ± 0.02 | 0.74 ± 0.04 |
| Absolute value of T cells | 0.70 ± 0.03 | 0.81 ± 0.03 |
| high sensitivity C-reactive protein | 0.69 ± 0.02 | 0.83 ± 0.04 |
| C-reactive protein | 0.58 ± 0.02 | 0.67 ± 0.04 |
| WBC | 0.55 ± 0.03 | 0.52 ± 0.06 |
| Percentage of neutrophils | 0.63 ± 0.03 | 0.75 ± 0.04 |

B

| Mitochondria-related indicators | C indexes in predicting BI | C indexes in predicting ACLF |
|-------------------------------------|----------------------------|------------------------------|
| MMP of CD8+ T cells | 0.70 ± 0.06 | NA* |
| Absolute value of T cells | 0.53 ± 0.07 | NA* |
| high sensitivity C-reactive protein | 0.71 ± 0.05 | NA* |
| C-reactive protein | 0.62 ± 0.05 | NA* |
| WBC | 0.53 ± 0.08 | NA* |
| Percentage of neutrophils | 0.66 ± 0.07 | NA* |

C

| Mitochondria-related indicators | C indexes in predicting BI | C indexes in predicting ACLF |
|-------------------------------------|----------------------------|------------------------------|
| MMP of CD8+ T cells | 0.72 ± 0.03 | 0.71 ± 0.04 |
| Absolute value of T cells | 0.65 ± 0.03 | 0.70 ± 0.04 |
| high sensitivity C-reactive protein | 0.65 ± 0.02 | 0.76 ± 0.04 |
| C-reactive protein | 0.57 ± 0.02 | 0.66 ± 0.04 |
| WBC | 0.50 ± 0.03 | 0.59 ± 0.05 |
| Percentage of neutrophils | 0.58 ± 0.03 | 0.72 ± 0.05 |

A: The C indexes of different indicators and models in predicting BI and ACLF in total cohort; **B:** The C indexes of different indicators and models in predicting BI and ACLF in compensated patients; **C:** The C indexes of different indicators and models in predicting BI and ACLF in decompensated patients.

BI: bacterial infection; ACLF: acute-on-chronic liver failure; MMP: mitochondrial membrane potential; WBC: white blood cells.

*: In the absence of positive events, the C indexes could not be calculated.