**Supplementary Table 1. The organ failures in patients with or without ACLF development**

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|  | Derivation cohort (n=673) | Validation cohort (n=1388) |
|  | ACLF development (No)(n=627) | ACLF development (Yes)(n=46) | ACLF development (No) (n=1271) | ACLF development (Yes)(n=117) |
| Organ failures at admission |
|  Liver  | 64(10.2) | 23(50.0) | 214(16.8) | 71(60.7) |
| Coagulation | 13(2.1) | 6(13.0) | 13(1.0) | 8(6.8) |
| Circulatory | 4(0.6) | 0 | 4(0.3) | 0 |
| Brain | 3(0.5) | 0 | 11(0.9) | 0 |
| Respiratory | 0 | 0 | 6(0.5) | 0 |
| Organ failures when ACLF developed |
|  Liver  | - | 37(80.4) | - | 103(88.0) |
| Coagulation | - | 32(69.6) | - | 81(69.2) |
| Circulatory | - | 11(23.0) | - | 13(11.1) |
| Brain | - | 6(13.0) | - | 23(19.7) |
| Respiratory | - | 6(13.0) | - | 8(6.8) |
| Kidney | - | 18(39.1) | - | 21(17.9) |