**Supplementary Table 3. Comparison of clinical characteristics of ACLF patients with early-onset and late-onset EHOF**

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| **Characteristics** | **Early-onset (*n*=271)** | **Late-onset (*n*=131)** | ***p*-value** |
| ***Basic characteristics*** | | | |
| Age, years | 49 ± 12 | 51 ± 10 | 0.166 |
| Male sex, *n* (%) | 205 (75.6) | 109 (83.2) | 0.112 |
| Etiology, *n* (%)  HBV  Alcohol  HBV+Alcohol  Others | 159 (58.7)  53 (19.6)  13 (4.8)  46 (17.0) | 74 (56.5)  29 (22.1)  14 (10.7)  14 (10.7) | 0.064 |
| WGO type, *n* (%)  A  B  C | 60 (22.1)  114 (42.1)  97 (35.8) | 18 (13.7)  60 (45.8)  53 (40.5) | 0.135 |
| Insult, *n* (%)  Not identified  Hepatic  Extrahepatic  Both | 128 (47.2)  65 (24.0)  61 (22.5)  17 (6.3) | 71 (54.2)  32 (24.4)  18 (13.7)  10 (7.6) | 0.206 |
| Child-Pugh Score | 11.00 (10.00-12.00) | 11.00 (10.00-11.00) | 0.190 |
| MELD Score | 27.04 (22.72-30.77) | 22.26 (18.77-26.12) | <0.001 |
| CLIF-SOFA | 9.00 (8.00-10.00) | 7.00 (7.00-8.00) | <0.001 |
| CLIF-C OF | 10.00 (10.00-11.00) | 8.00 (8.00-9.00) | <0.001 |
| CLIF-C ACLF | 45.72 (41.11-51.08) | 40.45 (36.48-44.38) | <0.001 |
| ***Complications*** | | |  |
| W-H classification, *n* (%)  0  I  II  III  IV | 187 (69.0)  24 (8.9)  29 (10.7)  22 (8.1)  9 (3.3) | 105 (80.2)  14 (10.7)  7 (5.3)  4 (3.1)  1 (0.8) | 0.033 |
| Ascites, *n* (%) | 204 (75.3) | 106 (80.9) | 0.256 |
| AVB, *n* (%) | 39 (14.4) | 20 (15.3) | 0.934 |
| Bacterial infection, *n* (%) | 141 (52.0) | 76 (58.0) | 0.307 |
| Type of EHOF, *n* (%)  Brain  Renal  Coagulation  Respiratory  Circulatory | 31 (11.4)  59 (21.8)  251 (92.6)  25 (9.2)  9 (3.3) | 5 (3.8)  37 (28.2)  95 (72.5)  7 (5.3)  8 (6.1) | 0.014  0.170  <0.001  0.238  0.197 |
| Number of EHOF, *n* (%)  SEHOF  MEHOF | 185 (68.3)  86 (31.7) | 110 (84.0)  21 (16.0) | 0.001 |
| ***Laboratory results at admission*** | | | |
| ALT, U/L | 160.70 (54.20-512.30) | 161.00 (43.00-394.00) | 0.697 |
| AST, U/L | 180.00 (82.00-468.00) | 179.80 (99.00-414.00) | 0.732 |
| Alb, g/L | 28.30 (25.00-32.00) | 28.30 (25.50-32.00) | 0.736 |
| TBil, μmol/L | 276.90 (194.65-396.50) | 309.40 (183.50-443.50) | 0.221 |
| PTA, % | 25.00 (21.00-30.00) | 36.10 (31.85-40.60) | <0.001 |
| INR | 2.89 (2.56-3.34) | 2.05 (1.88-2.22) | <0.001 |
| BUN, mmol/L | 5.10 (3.54-11.39) | 5.10 (3.82-7.49) | 0.409 |
| Cr, μmol/L | 73.00 (59.00-104.00) | 81.00 (60.60-99.00) | 0.964 |
| Hb, g/L | 118.00 (100.00-136.00) | 121.00 (103.00-138.75) | 0.328 |
| WBC, ×109/L | 7.37 (5.24-10.34) | 7.35 (5.21-9.66) | 0.287 |
| PLT, ×109/L | 86.00 (54.50-125.50) | 88.00 (62.00-132.50) | 0.233 |

ACLF, acute-on-chronic liver failure; Alb, albumin; ALT, Alanine aminotransferase; AST, Aspartate aminotransferase; AVB, acute-variceal bleeding; BUN, blood urea nitrogen; CLIF-C ACLF, chronic liver failure Consortium acute-on-chronic liver failure; CLIF-C OF, chronic liver failure Consortium organ failure score; CLIF-SOFA, chronic liver failure Consortium sequential organ failure assessment; Cr, creatinine; EHOF, extrahepatic organ failure; HBV, hepatitis B virus; HE, hepatic encephalopathy; Hb, hemoglobin; INR, international normalized ratio; MELD, model for end-stage liver disease; MEHOF, multiple extrahepatic organ failure; PLT, platelet; PTA, prothrombin activity; SEHOF, single extrahepatic organ failure; Simul, simultaneously; TBil, total bilirubin; WBC, white blood cell; W-H, West-Haven; WGO, World Gastroenterology Organization.