**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* (%)HBVAlcoholHBV+AlcoholOthers | 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* (%)ABC | 60 (22.1)114 (42.1)97 (35.8) | 18 (13.7)60 (45.8)53 (40.5) | 0.135 |
| Insult, *n* (%)Not identifiedHepaticExtrahepaticBoth | 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* (%)0IIIIIIIV | 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* (%)BrainRenalCoagulationRespiratoryCirculatory | 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) | 0.0140.170<0.0010.2380.197 |
| Number of EHOF, *n* (%)SEHOFMEHOF | 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.