**Supplementary Table 3. Comparison of changes in laboratory parameters from baseline to 4-week follow-up**

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| Parameter | DPMAS+LPE | SMT | *P* value |
| ΔTBIL (µmol/L) | 157 (58, 271) | 148 (78, 197) | 0.352 |
| ΔTBA (µmol/L) | 80 (-6, 156) | 48 (-19, 175) | 0.709 |
| ΔALT (U/L) | 217 (78, 664) | 135 (17, 383) | 0.036 |
| ΔPT (sec) | 0.4 (-4.3, 4.1) | 1.1(-1.4, 4.2) | 0.236 |
| ΔPT-INR | 0.06 (-0.43, 0.53) | 0.09 (-0.22, 0.34) | 0.884 |
| ΔBUN (mmol/L) | 0.5 (-0.5, 1.2) | 0.0 (-0.7, 0.5) | 0.046 |
| ΔCr (µmol/L) | 4 (-4, 11) | 0 (-12, 3) | 0.028 |
| ΔWBC (109/L) | 1.2 (-0.3, 3.4) | 0.81 (-0.4, 2.4) | 0.212 |
| ΔNEU (%) | 0.08 (-0.01, 0.19) | 0.03 (-0.23, 0.12) | 0.070 |
| ΔHGB (g/L) | 13 (1, 25) | 16 (5, 27) | 0.266 |
| ΔPLT (109/L) | 26 (10, 59) | 20 (1, 47) | 0.344 |
| ΔMELD score | 4.5 (-0.1, 8.7) | 2.8 (-1.2, 5.1) | 0.112 |
| ΔCOSSH-ACLF Ⅱ score | 1.4 (0.8, 2.0) | 1.1 (0.7, 1.5) | 0.121 |

Continuous variables are presented as median (interquartile range) and were compared using the Mann-Whitney *U* test. DPMAS+LPE, double plasma molecular adsorption system with sequential low-dose plasma exchange; SMT, standard medical treatment; TBIL, total bilirubin; ALT, alanine aminotransferase; ALB, albumin; GGT, gamma-glutamyl endopeptidase; TBA, total bile acid; PT, prothrombin time; INR, international normalized ratio; BUN, blood urea nitrogen; Cr, creatinine; WBC, white blood cell; NEU, neutrophil; HGB, hemoglobin; platelet, PLT; PCT, procalcitonin; MELD, model for end-stage liver disease; COSSH-ACLF, Chinese Group on the Study of Severe Hepatitis B-Acute-on-Chronic Liver Failure.