**S1 Table. Baseline patient characteristics of patients with acute liver injury and liver graft dysfunction: Comparison of MARS and standard medical treatment (SMT).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Graft dysfunction** |  | **Acute liver injury** |  |
| Laboratory Parameter | **MARS****(n = 10)** | **SMT****(n = 10)** | **p-value** | **MARS****(n = 22)** | **SMT****(n = 31)** | **p-value** |
| Age (years), mean (SD) | 50.7 (13.8) | 49.4 (12.7) | 0.684 | 48.1 (19.6) | 49.4 (17.1) | 0.814 |
| Male sex, n (%) | 8 (80) | 6 (60) | 0.329 | 12 (54.5) | 17 (54.8) | 0.983 |
| Body weight (kg), mean (SD) | 80.3 (15.6) | 74.7 (23.1) | 0.573 | 82.9 (19.6) | 76.3 (21.4) | 0.278 |
| Hepatic encephalopathy, n (%) Grade ≤1 Grade 2-3 | 10 (100)0 | 10 (100)0 | 0.606 | 22 (100)1 (4.8) | 28 (90.3)3 (9.7) | 0.532 |
| MAP (mmHg), mean (SD) | 92.9 (10.4) | 87.6 (15.0) | 0.195 | 99.9 (11.6) | 102.3 (13.1) | 0.521 |
| Heart rate (bpm), mean (SD) | 78.2 (10.6) | 79.6 (14.8) | 1.000 | 74.0 (7.0) | 83.3 (15.2) | 0.174 |
| Laboratory data, mean (SD) Total bilirubin (mg/dL) AST (U/L) ALT (U/L) Serum sodium (mEq/L) Serum potassium (mEq/L) Creatinine (mg/dL) BUN (mg/dL) White blood count (103 cells/µL) Hemoglobin (g/dL) Platelets (103 cells/µL) Albumin (g/dL) Prothrombin level (Quick) (%) INR | 19.8 (11.9)142.0 (65.7)124.5 (96.8)136.5 (3.4)4.1 (0.6)1.7 (0.6)38.1 (19.7)7.8 (4.0)9.9 (1.7)193.4 (110.0)3.3 (0.4)85.2 (18.2)1.1 (0.1) | 10.4 (4.0)413.5 (734.1)187.6 (278.6)135.4 (3.2)4.1 (0.5)1.5 (0.5)28.7 (12.2)5.4 (3.3)10.1 (3.6)163.7 (102.8)3.1 (0.8)57.7 (27.8)1.7 (0.7) | 0.0520.3930.6840.5150.6960.6310.1900.1820.8150.6041.000**0.035****0.013** | 18.4 (8.1)784.7 (804.3)993.4 (879.6)136.5 (4.0)4.0 (0.4)1.0 (0.5)17.8 (12.9)7.7 (3.0)12.7 (1.9)246.4 (108.2)3.5 (0.6)67.0 (28.6)1.4 (0.4) | 16.3 (8.5)1293.8 (871.6)1810.3 (1249.3)139.2 (3.5)3.8 (0.5)1.3 (1.3)17.1 (13.3)7.7 (2.6)13.6 (1.9)187.8 (90.7)3.2 (0.4)56.0 (18.1)1.5 (0.4) | 0.230**0.021****0.026****0.026**0.1630.6580.6800.8070.0680.0560.6670.2630.340 |
| MELD Score, mean (SD) | 20.3 (7.9) | 24.0 (5.2) | 0.353 | 20.7 (6.9) | 22.0 (4.7) | 0.814 |

Abbr.: MAP: Mean arterial pressure; BUN: blood urea nitrogen; INR: international normalized ratio; MELD: model of end-stage liver disease; SD: standard deviation; AST: aspartate transaminase; ALT: alanine transaminase