**Table X: Correlation of Mitochondrial Respiration with Concurrent Immune Function Measured at the Same Timepoint in Subset of Sepsis Patients Not Treated with Corticosteroids**

|  |  |  |
| --- | --- | --- |
| **Mitochondrial Respiration** |  **LPS-stimulated TNFαa** | **Monocyte HLA-DRa** |
| n | rho | P-value | n | rho | P-value |
|  |  |  |  |  |  |  |
| Sepsis Day 1-2 (T1) |
|  Routine | 82 | 0.13 | 0.25 | 64 | -0.01 | 0.93 |
|  ATP-linked | 82 | 0.17 | 0.13 | 64 | -0.05 | 0.72 |
|  LEAK | 82 | 0.04 | 0.75 | 64 | 0.08 | 0.54 |
|  ETSmax | 82 | 0.24 | 0.03b | 64 | 0.05 | 0.73 |
|  SRC | 82 | 0.24 | 0.03b | 64 | 0.02 | 0.86 |
|  |  |  |  |  |  |  |
| Sepsis Day 3-5 (T2) |
|  Routine | 67 | 0.07 | 0.55 | 51 | 0.12 | 0.39 |
|  ATP-linked | 67 | 0.15 | 0.24 | 51 | 0.07 | 0.65 |
|  LEAK | 67 | -0.04 | 0.75 | 51 | 0.22 | 0.16 |
|  ETSmax | 67 | 0.04 | 0.73 | 51 | 0.20 | 0.14 |
|  SRC | 67 | 0.01 | 0.93 | 51 | 0.16 | 0.27 |
|  |  |  |  |  |  |  |
| Sepsis Day 8-14 (T3) |
|  Routine | 49 | 0.21 | 0.16 | 33 | -0.18 | 0.32 |
|  ATP-linked | 49 | 0.17 | 0.24 | 33 | -0.15 | 0.41 |
|  LEAK | 49 | 0.23 | 0.12 | 33 | -0.07 | 0.68 |
|  ETSmax | 49 | 0.10 | 0.51 | 33 | -0.28 | 0.11 |
|  SRC | 49 | 0.01 | 0.97 | 33 | -0.23 | 0.20 |

ATP, adenine triphosphate; LEAK, proton leak across the inner mitochondrial membrane after inhibition of ATP synthase; ETSmax, maximal uncoupled respiration through the electron transport system after addition of chemical uncoupler; SRC, spare respiratory capacity

aImmune function measured at the same timepoint as mitochondrial respiration

bP-value did not remain significant at ≤0.01 level after correction for multiple comparisons (0.05/5 tests per study day)