

Online Resource 8: P-values for AKI Severity + Temporality in Sepsis patients

| Category, N (%) [*] | Unadjusted | | | | | | Adjusted ² | | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 2 vs. 3 P-Value | 2 vs. 4 P-Value | 2 vs. 5 P-Value | 3 vs. 4 P-Value | 3 vs. 5 P-Value | 4 vs. 5 P-Value | 2 vs. 3 P-Value | 2 vs. 4 P-Value | 2 vs. 5 P-Value | 3 vs. 4 P-Value | 3 vs. 5 P-Value | 4 vs. 5 P-Value |
| Age at ICU Admission (years) | 0.884 | 0.496 | 0.924 | 0.706 | 0.948 | 0.670 | | | | | | |
| Male Gender | 0.348 | 0.832 | 0.568 | 0.367 | 0.721 | 0.531 | | | | | | |
| Weight at ICU Admission (kg) | 0.910 | 0.829 | 0.994 | 0.937 | 0.873 | 0.941 | | | | | | |
| Any Comorbid Conditions | 0.523 | 0.760 | 0.596 | 1.000 | 0.267 | 0.384 | | | | | | |
| Admission Diagnosis | | | | | | | | | | | | |
| Shock | 0.130 | 0.052 | 0.155 | 0.002 | 0.918 | 0.003 | | | | | | |
| Medical Cardiac | 0.657 | 1.000 | 0.412 | 0.552 | 1.000 | 0.317 | | | | | | |
| Respiratory Failure | 0.699 | 0.570 | 0.039 | 0.401 | 0.021 | 0.333 | | | | | | |
| Post-Surgical/Minor Trauma | 0.208 | 0.676 | 0.731 | 0.276 | 0.384 | 0.671 | | | | | | |
| CNS Dysfunction | 0.263 | 0.973 | 0.350 | 0.441 | 0.052 | 0.554 | | | | | | |
| Pain/Sedation Management | 1.000 | 0.568 | 0.252 | 0.552 | 0.118 | NA | | | | | | |
| History of Transplant | 0.795 | 0.357 | 0.649 | 0.377 | 0.855 | 0.554 | | | | | | |
| PRISM-III | 0.011 | 0.204 | 0.004 | 0.251 | 0.567 | 0.341 | | | | | | |
| PIM-2 | 0.119 | 0.112 | 0.014 | 0.624 | 0.923 | 0.651 | | | | | | |
| PELOD | 0.416 | 0.091 | 0.064 | 0.468 | 0.534 | 0.804 | | | | | | |
| Any Severity Score >75 th Percentile | 0.004 | 0.486 | 0.024 | 0.116 | 0.404 | 0.333 | | | | | | |
| | | | | | | | | | | | | |
| Mechanical Ventilation Use | 0.107 | 0.005 | <0.001 | 0.124 | 0.029 | 0.882 | 0.064 | 0.042 | 0.005 | 0.543 | 0.573 | 0.899 |
| CRRT Use | 0.003 | 0.016 | <0.001 | 1.000 | 0.019 | 0.086 | 0.951 | 0.951 | 0.933 | 0.928 | 0.038 | 0.092 |
| ECMO Use | 0.197 | 0.065 | 0.203 | 0.582 | 1.000 | 0.580 | 0.963 | 0.956 | 0.949 | 0.472 | 0.675 | 0.678 |
| 28-Day Mortality | 0.001 | 0.373 | 0.012 | 0.131 | 0.359 | 0.545 | 0.046 | 0.204 | 0.307 | 0.584 | 0.100 | 0.594 |
| 28-Day MV-Free Days | 0.389 | 0.016 | 0.002 | 0.312 | 0.139 | 0.729 | 0.600 | 0.151 | 0.019 | 0.319 | 0.015 | 0.524 |
| 28-Day ICU-Free Days | 0.098 | <0.001 | <0.001 | 0.007 | <0.001 | 0.951 | 0.448 | <0.001 | <0.001 | 0.009 | 0.005 | 0.721 |
| Complex ICU course | 0.009 | <0.001 | <0.001 | 0.087 | 0.007 | 0.708 | 0.049 | 0.002 | <0.001 | 0.308 | 0.104 | 0.812 |

¹P-values considered at the Bonferroni threshold (0.05 / 6 = 0.008)

²Outcome p-values adjusted for SOI score (i.e., Any SOI > 75th)