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| --- | --- | --- | --- | --- |
|  | **Overall (N=4,754)** | **No RRT (N=4,368)** | **RRT (N=386)** | **p-value** |
| **Demographics** | | | | |
| Age (Mean (SD)) | 67.74 (15.44) | 66.33 (15.31) | 61.03 (15.37) | <0.001\* |
| Gender, male, n(%) | 2,676 (56.3) | 2,450 (56.1) | 226 (58.5) | 0.379 |
| Weight, kg (Mean (SD)) | 86.27 (25.83) | 85.82(25.73) | 91.44 (25.83) | <0.001\* |
| Height, cm (Mean (SD)) | 169.38 (10.58) | 169.35 (10.57) | 169.63 (10.73) | 0.661 |

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| --- | --- | --- | --- | --- |
| **Race (%)** | | | | |
| White | 3,562 (74.9) | 3,288 (75.3) | 274 (71) | 0.186 |
| Black/African American | 353 (7.4) | 325 (7.4) | 28 (7.3) |
| American Indian/Alaska Native | 3 (0.1) | 3 ( 0.1) | 0 ( 0.0) |
| Asian | 50 (1.1) | 46 ( 1.1) | 4 ( 1.0) |
| Middle Eastern | 8 (0.2) | 7 ( 0.2) | 1 (0.3) |
| Other | 110 (2.3) | 100 ( 2.3) | 10 ( 2.6) |
| Patient Declined to Answer | 44 (0.9) | 39 (0.9) | 10 (2.6) |
| Unable to Obtain | 174 (3.7) | 147 (3.4) | 27 (7.0) |
| Unknown/Not Specified | 159 (3.3) | 147 (3.4) | 12 (3.1) |
| **Ethnicity** | | | | |
| Hispanic or Latino | 90 (1.9) | 80 (1.8) | 10 (2.6) |  |
| Multi Race Ethnicity | 10 (0.2) | 9 (0.2) | 1 (0.3) |

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| **Sepsis Specific Comorbidity Scores** | | | | |
| Sofa Score (Mean (SD)) | 6.42 (3.35) | 5.57 (2.93) | 9.70 (4.01) | <0.001\* |
| Saps II Score (Mean (SD)) | 44.57 (14.24) | 40.80 (13.65) | 52.41 (14.53) | <0.001\* |
| **Past Medical History Comorbidities** | | | | |
| Congestive Heart Failure (%) | 2,977 (62.6) | 1,637 (37.5) | 140 (36.3) | 0.678 |
| Liver Disease (%) | 898 (18.9) | 709 (16.2) | 189 (49.0) | <0.001\* |
| Hypertension (%) | 3043 (64.0) | 2,830 (64.8) | 213 (55.2) | <0.001\* |
| Diabetes, Uncomplicated (%) | 1,231 (25.9) | 1137 (26.0) | 94 (24.4) | 0.509 |
| Diabetes, Complicated n, (%) | 398 (8.4) | 360 (8.2) | 38 (9.8) | 0.32 |
| **Clinical Variables** | | | | |
| Required mechanical ventilation at 24hrs, n,(%) | 3,125 (90.5) | 2,869 (91.7) | 256 (78.8) | <0.001\* |
| Minimum pH (Mean (SD)) | 7.3 (0.11) | 7.3 (0.11) | 7.24 (0.13) | <0.001\* |
| ICU Length of Stay (Mean (SD)) | 7.03 (7.08) | 6.44 (6.13) | 13.77 (12) | <0.001\* |
| Pre-ICU Length of Stay (Mean (SD)) | 3.37 (8.96) | 3.18 (8.79) | 5.43 (10.46) | <0.001\* |
| **Mortality Rates** | | | | |
| 90-day Mortality (%) | 2,149 (45.2) | 1,909 (43.7) | 240 (62.2) | <0.001\* |
| In-hospital Mortality (%) | 934 (19.6) | 770 (17.6) | 164 (42.5) | <0.001\* |
| **First Care Unit (%)** | | | | |
| CCU | 511 (10.7) | 457 (10.5) | 54 (14.0) | <0.001\* |
| CSRU | 951 (20) | 899 (20.6) | 52 (13.5) |
| MICU | 1993 (41.9) | 1,814 (41.5) | 179 (46.4) |
| SICU | 771 (16.2) | 695 (15.9) | 76 (19.7) |
| TSICU | 528 (11.1) | 503 (11.5) | 25 (6.5) |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Coeff. | Std. Error | t-value | Odds Ratio | Lower CI, 95% | Upper CI, 95% | p-value |
| Sofa Score | 0.026 | 0.001 | 23.368 | 1.027 | 1.024 | 1.029 | 0.00\*\* |
| Length of Stay | 0.011 | 0.001 | 20.333 | 1.011 | 1.010 | 1.012 | 0.00\*\* |
| KDIGO (max.) | 0.097 | 0.005 | 17.876 | 1.102 | 1.090 | 1.114 | 0.00\*\* |
| Liver Disease | 0.159 | 0.010 | 16.172 | 1.173 | 1.150 | 1.196 | 0.00\*\* |
| Saps II Score | 0.004 | 0.000 | 12.930 | 1.004 | 1.003 | 1.004 | 0.00\*\* |
| Inpatient Mortality | 0.117 | 0.010 | 11.956 | 1.125 | 1.103 | 1.147 | 0.00\*\* |
| Min. pH | -0.396 | 0.039 | -10.274 | 0.673 | 0.623 | 0.727 | 0.00\*\* |
| Age | -0.002 | 0.000 | -8.981 | 0.998 | 0.997 | 0.998 | 0.00\*\* |
| Ventilated at 24 hours | -0.128 | 0.017 | -7.613 | 0.880 | 0.851 | 0.910 | 0.00\*\* |
| Max Vasopressor Dose (mg) | 0.000 | 0.000 | 7.046 | 1.000 | 1.000 | 1.000 | 0.00\*\* |
| Pre-ICU Length of Stay | 0.002 | 0.000 | 4.729 | 1.002 | 1.001 | 1.003 | 0.00\*\* |
| Weight | 0.001 | 0.000 | 4.108 | 1.001 | 1.000 | 1.001 | 0.00\*\* |
| Hypertension | -0.031 | 0.008 | -3.775 | 0.969 | 0.954 | 0.985 | 0.00\*\* |
| Duration of Vasopressor | 0.003 | 0.001 | 3.506 | 1.003 | 1.001 | 1.004 | 0.00\*\* |
| First Care Unit: TSICU | -0.058 | 0.017 | -3.449 | 0.943 | 0.912 | 0.976 | 0.00\*\* |
| First Care Unit: CSRU | -0.051 | 0.015 | -3.412 | 0.950 | 0.922 | 0.979 | 0.00\*\* |
| Received Vasopressor | 0.026 | 0.008 | 3.325 | 1.027 | 1.011 | 1.043 | 0.00\*\* |
| Last Care Unit: TSICU | -0.041 | 0.017 | -2.386 | 0.959 | 0.927 | 0.993 | 0.02\* |
| Last Care Unit: CSRU | -0.034 | 0.015 | -2.238 | 0.967 | 0.938 | 0.996 | 0.03\* |
| First Care Unit: MICU | -0.016 | 0.014 | -1.174 | 0.984 | 0.958 | 1.011 | 0.24 |
| Diabetes, Complicated | 0.016 | 0.014 | 1.090 | 1.016 | 0.987 | 1.045 | 0.28 |
| Male gender | 0.007 | 0.008 | 0.934 | 1.007 | 0.992 | 1.024 | 0.35 |
| Last Care Unit: SICU | 0.014 | 0.016 | 0.909 | 1.014 | 0.983 | 1.047 | 0.36 |
| Diabetes, Uncomplicated | -0.007 | 0.009 | -0.721 | 0.993 | 0.976 | 1.012 | 0.47 |
| Congestive Heart Failure | -0.004 | 0.008 | -0.470 | 0.996 | 0.980 | 1.013 | 0.64 |
| First Care Unit: SICU | -0.007 | 0.016 | -0.457 | 0.993 | 0.963 | 1.024 | 0.65 |
| Height | 0.000 | 0.000 | 0.438 | 1.000 | 0.999 | 1.001 | 0.66 |
| Last Care Unit: MICU | -0.003 | 0.014 | -0.203 | 0.997 | 0.970 | 1.025 | 0.84 |

\*\* p < 0.01, \* p < 0.05