| ***Variable*** | ***N*** | ***Y*** | ***Total*** | ***p*** | ***test*** | ***SW\_p\_N*** | ***SW\_p\_Y*** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| operative\_IT\_minutes | 232 [121.8–278.8] | 225 [140.5–339] | 232 [121.8–280.8] | 0.65 | Wilcoxon rank-sum | 0.0012 | 0.1271 |
| operative\_CPB\_minutes | 190 [175–227] | 235.5 [209.5–284.7] | 195.5 [177–233] | 0.010 | Wilcoxon rank-sum | 0.0091 | 0.3766 |
| postop\_LVEF\_median | 57.5 [52.5–62.5] | 55 [36.2–57.5] | 57.5 [52.5–62.5] | 0.076 | Wilcoxon rank-sum | 0.0000 | 0.1067 |
| postop\_CVP | 13 [9–15.8] | 13 [10.8–15.5] | 13 [9.2–15.8] | 0.66 | Wilcoxon rank-sum | 0.2474 | 0.6908 |
| postop\_cardiac\_index | 2.8 [2.3–3.6] | 2.6 [2–2.7] | 2.8 [2.3–3.6] | 0.069 | Wilcoxon rank-sum | 0.2493 | 0.4084 |
| postop\_inotrope\_score | 15 [13–18.4] | 23.2 [19.8–28.9] | 15 [13–19.8] | 7e-04 | Wilcoxon rank-sum | 0.0015 | 0.0215 |
| postop\_MCS\_IABP: Y | 2 (4%) | 1 (12%) | 3 (5%) | 0.34 | Fisher exact |  |  |
| postop\_VA\_ECMO: Y | 0 (0%) | 4 (50%) | 4 (6%) | 1e-04 | Fisher exact |  |  |
| postop\_MCS\_Impella5.5: Y | 13 (24%) | 5 (62%) | 18 (29%) | 0.039 | Fisher exact |  |  |
| postop\_MCS\_RVAD: Y | 0 (0%) | 2 (25%) | 2 (3%) | 0.015 | Fisher exact |  |  |
| postop\_ICU\_LOS | 10 [7.2–16.5] | 42 [29.8–59] | 11 [8–21] | 0.001 | Wilcoxon rank-sum | 0.0000 | 0.7251 |
| postop\_RRT\_needed: Y | 14 (26%) | 7 (88%) | 21 (34%) | 0.001 | Fisher exact |  |  |
| postop\_CRRT: Y | 14 (26%) | 7 (88%) | 21 (34%) | 0.001 | Fisher exact |  |  |
| postop\_stroke: Y | 4 (7%) | 3 (38%) | 7 (11%) | 0.040 | Fisher exact |  |  |
| postop\_30\_day\_LVEF | 60 [55–62.5] | 57.5 [55–60] | 60 [55–60] | 0.16 | Wilcoxon rank-sum | 0.0002 | 0.0329 |
| postop\_hospital\_LOS | 19 [15–26.8] | 65.5 [35–88.5] | 20.5 [15–32.8] | 0.005 | Wilcoxon rank-sum | 0.0000 | 0.8277 |
| ACR\_2R\_or\_greater: Y | 13 (39%) | 0 (0%) | 13 (35%) | 0.28 | Fisher exact |  |  |
| survival\_30: Y | 54 (100%) | 7 (88%) | 61 (98%) | 0.13 | Fisher exact |  |  |
| survival\_90: Y | 53 (98%) | 6 (75%) | 59 (95%) | 0.041 | Fisher exact |  |  |
| survival: Y | 49 (91%) | 4 (50%) | 53 (85%) | 0.012 | Fisher exact |  |  |
| survival\_days | 172 [113–363] | 63 [29.8–94.8] | 109 [80–172] | 0.063 | Wilcoxon rank-sum | 0.1937 | 0.5913 |

*Statistical Methods: For continuous variables, normality was assessed using the Shapiro-Wilk test. For 2-group comparisons, normally distributed variables were compared using Welch’s t-test; non-normal distributions were compared using the Wilcoxon rank-sum test. For 3-group comparisons, normally distributed variables were compared using one-way ANOVA; non-normal or ordinal variables specified by the user were compared using the Kruskal-Wallis test. Categorical variables were compared using Chi-squared tests or Fisher’s exact tests if expected counts were <5. Ordinal variables were summarized as medians [IQR] and compared using appropriate non-parametric tests. Note: Approximate p-values were used for non-parametric tests with tied data.*