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| --- | --- | --- | --- | --- | --- | --- |
| **Table S1. Univariable Relationship between Blood pressure components and Outcomes** | | | | | | |
| **Exposures** | **MINS**  **(N =1411)** | **Non-MINS**  **(N = 21,729)** | **P-value\*** | **AKI**  **(N = 1892)** | **Non-AKI**  **(N = 21,248)** | **P-value\*** |
| **SBP (mmHg)** |  |  |  |  |  |  |
| Baseline SBP | 132 ± 17 | 129 ± 15 | <0.001 | 132 ± 16 | 130 ± 15 | <0.001 |
| Pre-induction SBP | 144 ± 27 | 141 ± 24 | <0.001 | 143 ± 27 | 142 ± 25 | 0.019 |
| Intraoperative TWA-SBP | 120 ± 15 | 117 ± 14 | <0.001 | 120 ± 14 | 120 ± 14 | 0.063 |
| Lowest SBP (mmHg) for cumulative 5 -minutes | 86 ± 16 | 91 ± 13 | <0.001 | 86 ± 15 | 89 ± 13 | <0.001 |
| Minutes of SBP < 90 | 20 ± 33 | 13 ± 22 | <0.001 | 23 ± 41 | 14 ± 23 | <0.001 |
| AUC of SBP < 90 (mmHg\*minute) | 179 ± 341 | 96 ± 189 | <0.001 | 197 ± 397 | 105 ± 203 | <0.001 |
|  |  |  |  |  |  |  |
| **MAP (mmHg)** |  |  |  |  |  |  |
| Baseline MAP | 92 ± 10 | 93 ± 10 | 0.003 | 93 ± 10 | 93 ± 10 | 0.674 |
| Pre-induction MAP | 101 ± 17 | 101 ± 16 | 0.898 | 101 ± 18 | 101 ± 16 | 0.593 |
| Intraoperative TWA-MAP | 82 ± 9 | 83 ± 9 | 0.021 | 82 ± 10 | 83 ± 9 | 0.006 |
| Lowest MAP (mmHg) for cumulative 5 -minutes | 59 ± 10 | 61 ± 9 | <0.001 | 59 ± 9 | 61 ± 9 | <0.001 |
| Minutes of MAP < 65 | 34 ± 49 | 25 ± 41 | <0.001 | 38 ± 60 | 24 ± 39 | <0.001 |
| AUC of MAP <65 (mmHg\*minute) | 219 ± 390 | 142 ± 272 | <0.001 | 241 ± 477 | 138 ± 254 | <0.001 |
|  |  |  |  |  |  |  |
| **DBP (mmHg)** |  |  |  |  |  |  |
| Baseline DBP | 73 ± 9 | 75 ± 9 | <0.001 | 73 ± 9 | 75 ± 9 | <0.001 |
| Pre-induction DBP | 75 ± 13 | 76 ± 12 | 0.003 | 76 ± 13 | 76 ± 12 | 0.177 |
| Intraoperative TWA-DBP | 61 ± 9 | 62 ± 8 | <0.001 | 62 ± 9 | 62 ± 8 | 0.002 |
| Lowest DBP (mmHg) for cumulative 5 -minutes | 43 ± 9 | 46 ± 8 | <0.001 | 44 ± 8 | 46 ± 8 | <0.001 |
| Minutes of DBP <50 | 56 ± 77 | 40 ± 64 | <0.001 | 58 ± 85 | 40 ± 63 | <0.001 |
| AUC of DBP <50 (mmHg\*minute) | 343 ± 622 | 224 ± 460 | <0.001 | 353 ± 694 | 220 ± 446 | <0.001 |
|  |  |  |  |  |  |  |
| **PP (mmHg)** |  |  |  |  |  |  |
| Baseline PP | 59 ± 14 | 56 ± 13 | <0.001 | 58 ± 13 | 56 ± 13 | <0.001 |
| Pre-induction PP | 68 ± 21 | 66 ± 20 | <0.001 | 68 ± 21 | 66 ± 20 | <0.001 |
| Intraoperative TWA-PP | 59 ± 14 | 57 ± 12 | <0.001 | 59 ± 13 | 57 ± 12 | <0.001 |
| Lowest PP (mmHg) for cumulative 5 -minutes | 35 ± 14 | 36 ± 12 | 0.005 | 34 ± 13 | 36 ± 12 | <0.001 |
| Minutes of PP <35 | 21 ± 42 | 14 ± 28 | <0.001 | 21 ± 41 | 14 ± 28 | <0.001 |
| AUC of PP <35 (mmHg\*minute) | 159 ± 469 | 96 ± 252 | <0.001 | 163 ± 463 | 94 ± 246 | <0.001 |
| Data are presented as mean ± SD, median [25th, 75th percentiles] or n (%). Abbreviations; AKI = acute kidney injury; AUC = area under curve; DBP = diastolic blood pressure; MAP = mean arterial pressure; MINS = myocardial injury after non-cardiac surgery; PP = pulse pressure; SBP=systolic blood pressure; TWA = time weighted average;  \* P values from Chi-square test or F-test (analysis of variance) | | | | | | |