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| **Table S9. Sensitivity Analysis. Acute Kidney Injury: Multivariable associations with AUC under thresholds using linear + quadratic terms for continuous predictors, comparing to use linear terms only** | | | |
| **Threshold** | 1. **Adjusted OR (98.75% CI)  aLinear terms** | 1. **Adjusted OR (98.75% CI)  bLinear + quadratic terms** | **ORb / OR a** |
| **AUC under SBP < 90 mmHg** |  |  |  |
| Reference (never < 90 mmHg) | Ref = 1 | Ref = 1 |  |
| Q1 (1-21 min) | 1.00 (0.80-1.24) | 0.99 (0.80-1.24) | 0.99 |
| Q2 (22-66 min) | 1.13 (0.91-1.40) | 1.12 (0.90-1.39) | 0.99 |
| Q3 (67-166 min) | 1.09 (0.87-1.35) | 1.06 (0.85-1.32) | 0.97 |
| Q4 (>166 min) | 1.42 (1.14-1.76) | 1.33 (1.07-1.65) | 0.93 |
| **AUC under MAP < 65mmHg** |  |  |  |
| Reference (never < 65 mmHg) | Ref = 1 | Ref = 1 |  |
| Q1 (1-25 min) | 1.07 (0.84-1.36) | 1.08 (0.85-1.37) | 1.01 |
| Q2 (26-78min) | 1.19 (0.94-1.51) | 1.18 (0.93-1.50) | 0.99 |
| Q3 (79-198min) | 1.06 (0.83-1.35) | 1.04 (0.81-1.33) | 0.98 |
| Q4 (>198min) | 1.43 (1.12-1.82) | 1.37 (1.08-1.75) | 0.96 |
| **AUC under DBP < 50mmHg** |  |  |  |
| Reference (never < 50 mmHg) | Ref = 1 | Ref = 1 |  |
| Q1 (1-28 min) | 1.07 (0.84-1.36) | 1.07 (0.84-1.36) | 1 |
| Q2 (29-99min) | 1.07 (0.84-1.36) | 1.06 (0.83-1.35) | 0.99 |
| Q3 (100-289min) | 1.06 (0.83-1.35) | 1.04 (0.82-1.33) | 0.98 |
| Q4 (>289min) | 1.14 (0.89-1.47) | 1.12 (0.87-1.44) | 0.98 |
| **AUC under PP < 35mmHg** |  | (P<0.05) |  |
| Reference (never < 35 mmHg) | Ref = 1 | Ref = 1 |  |
| Q1 (1-15 min) | 0.96 (0.77-1.19) | 0.95 (0.76-1.18) | 0.99 |
| Q2 (16-49min) | 1.05 (0.85-1.29) | 1.04 (0.84-1.28) | 0.99 |
| Q3 (50-137min) | 1.12 (0.91-1.38) | 1.09 (0.88-1.35) | 0.97 |
| Q4 (>137min) | 1.47 (1.20-1.80) | 1.40 (1.15-1.72) | 0.95 |
| AKI = acute kidney injury  a Linear term for continuous predictors b Linear + quadratic terms for continuous predictors (age, surgical time, baseline EGFR and hemoglobin, intraoperative blood loss), quadratic terms of Baseline EGFR and blood loss were significant (P < 0.05) | | | |

Abbreviations: AKI = acute kidney injury; AUC = area under curve; DBP = diastolic blood pressure; EGFR = estimated glomerular filtration rate; MAP=mean arterial pressure; MINS = myocardial injury after non-cardiac surgery; PP = pulse pressure; OR = odd’s ratio, SBP= systolic blood pressure.