**Supplemental Table 3a.** Multivariable predictors of renal replacement therapy for MAP threshold of 55 - 64 mmHg. C-statistic = 0.920; Hosmer-Lemeshow p-value = 0.067

|  |  |  |
| --- | --- | --- |
| **Predictor** | **Adjusted OR (95% CI)** | **P Value** |
| DemographicAge > 65Female sex | 0.79 (0.56 – 1.11)0.82 (0.59 – 1.15) | 0.1680.252 |
| Medical HistoryActive endocarditisCongestive heart failureLVEF < 35%HypertensionDiabetesSmoking historyPeripheral arterial diseaseGlomerular filtration rate> 6030 – 60< 30ObesityAnemiaRedoEmergent surgeryPreoperative shock | 1.19 (0.54 – 2.66)1.93 (1.41 – 2.63)1.19 (0.88 – 1.62)1.21 (0.85 – 1.73)1.04 (0.76 – 1.43)1.19 (1.07 – 1.33)1.23 (0.83 – 1.82)(Reference)2.39 (1.69 – 3.36)8.99 (5.03 – 16.1)1.96 (1.42 – 2.69)1.59 (1.16 – 2.19)1.84 (1.26 – 2.69)2.80 (1.90 – 4.13)1.87 (1.15 – 3.06) | 0.666<0.0010.2640.2900.7930.0020.311<0.001<0.0010.0040.002<0.0010.012 |
| IntraoperativeFluid balance > 3LType of operationCABG onlySingle valveCombined valve(s) ± CABGCPB duration (per 10 minutes)Lowest hematocrit0.21 – 0.25< 0.21> 0.25RBC transfusionMAP 55 – 64 mmHgPre-CPBDuringPost-CPBVasopressor usePre-CPBDuringPost-CPBInotrope usePre-CPBPost-CPB | 1.00 (1.00 – 1.00)(Reference)1.05 (0.60 – 1.83)1.59 (1.07 – 2.34)1.00 (1.00 – 1.01)(Reference)1.32 (0.68 – 2.57)1.25 (0.88 – 1.78)1.12 (1.05 – 1.19)0.98 (0.89 – 1.07)1.06 (1.01 – 1.12)1.12 (1.06 – 1.18)1.36 (0.97 – 1.92)1.09 (0.76 – 1.56)0.89 (0.62 – 1.28)1.15 (0.79 – 1.67)1.37 (0.95 – 1.97) | 0.0920.0370.0040.3870.0010.6030.032<0.0010.0740.6320.5280.4720.095 |
| PostoperativeNew onset atrial fibrillation | 4.19 (3.06 – 5.76) | <0.001 |

**Supplemental Table 3b.** Multivariable predictors of renal replacement therapy for MAP threshold of 65 - 74 mmHg. C-statistic = 0.916; Hosmer-Lemeshow p-value = 0.051

|  |  |  |
| --- | --- | --- |
| **Predictor** | **Adjusted OR (95% CI)** | **P Value** |
| DemographicAge > 65Female sex | 0.79 (0.56 – 1.10)0.82 (0.59 – 1.14) | 0.1600.229 |
| Medical HistoryActive endocarditisCongestive heart failureLVEF < 35%HypertensionDiabetesSmoking historyPeripheral arterial diseaseGlomerular filtration rate > 6030 – 60< 30ObesityAnemiaRedoEmergent surgeryPreoperative shock | 1.12 (0.51 – 2.44)1.85 (1.36 – 2.52)1.16 (0.86 – 1.57)1.22 (0.86 – 1.74)1.09 (0.79 – 1.49)1.19 (1.07 – 1.32)1.19 (0.80 – 1.77)(Reference)2.49 (1.77 – 3.51)9.17 (5.11 – 16.43)1.99 (1.45 – 2.73)1.53 (1.11 – 2.11)1.85 (1.26 – 2.70)2.69 (1.83 – 3.96)1.80 (1.10 – 2.93) | 0.783<0.0010.3370.2580.6060.0020.384<0.001<0.0010.0090.002<0.0010.019 |
| IntraoperativeFluid balance > 3LType of operationCABG onlySingle valveCombined valve(s) ± CABGCPB duration (per 10 minutes)Lowest hematocrit0.21 – 0.25< 0.21> 0.25RBC transfusionMAP 65 - 74 mmHgPre-CPBDuringPost-CPBVasopressor usePre-CPBDuringPost-CPBInotrope usePre-CPBPost-CPB | 1.00 (1.00 – 1.00)(Reference)1.04 (0.60 – 1.82)1.70 (1.15 – 2.53)1.00 (1.00 – 1.01)(Reference)1.31 (0.67 – 2.57)1.21 (0.86 – 1.72)1.14 (1.07 – 1.22)0.97 (0.91 – 1.05)1.04 (0.98 – 1.09)1.01 (0.96 – 1.07)1.35 (0.96 – 1.88)1.53 (0.81 – 1.65)0.93 (0.65 – 1.35)1.13 (0.78 – 1.64)1.44 (1.00 – 2.06) | 0.0440.0120.0010.456<0.0010.4790.2190.6510.0830.4330.7140.5110.048 |
| PostoperativeNew onset atrial fibrillation | 4.53 (3.32 – 6.18) | <0.001 |