**APPENDIX 1**

**Supplemental Table 1: Adjusted odds ratios from hierarchical logistic models for the outcome of early postoperative mortality.** All models were adjusted for age using b-splines to account for non-linearity to the logit, with site incorporated as a Level 2 random effect. Early mortality is defined as within 28 days after the index surgery.

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| MODEL 1: PREOPERATIVE and OPERATIVE FACTORS *Model c-statistic: 0.84**Hosmer-Lemeshow: p=0.11* |
| *Predictor*  | *Adjusted OR* | *95% CI* | *t Value* | *Overall P-Value* |
| *Procedure Urgency* ElectiveUrgentEmergent  | Reference1.374.21 | 0.98-1.763.75-4.67 | 1.556.07 | <0.0001 |
| *Preoperative Comorbidities*Renal DysfunctionExtracardiac arteriopathyLiver DiseaseHeart Failure | 2.201.893.031.86 | 1.83-2.571.55-2.232.34-3.721.51-2.21 | 4.133.653.163.46 | <0.00010.00030.0020.0005 |
| Preoperative Hemoglobin (per each 1 g/L increase) | 0.99 | 0.98-0.99 | -3.41 | 0.0007 |
| Redo Procedure | 1.73 | 1.25-2.21 | 2.21 | 0.03 |
| Complex Procedure | 2.28 | 1.91-2.64 | 4.46 | <0.0001 |
| Preoperative IABP | 3.89 | 3.24-4.54 | 4.10 | <0.0001 |
| MODEL 2: PREOPERATIVE and OPERATIVE FACTORS + UDPB *Model c-statistic: 0.91* *Hosmer-Lemeshow: p=0.73* |
| *Predictor* | *Adjusted OR* | *95% CI* | *t Value* | *Overall P-Value* |
| *Procedure Urgency* ElectiveUrgentEmergent  | Reference0.952.48 | 0.51-1.391.97-2.99 | -0.233.50 | 0.820.0005 |
| *Preoperative Comorbidities*Renal Dysfunction Extracardiac arteriopathyLiver DiseaseHeart Failure | 1.751.862.781.75 | 1.34-2.161.47-2.252.05-3.511.36-2.14 | 2.693.122.752.81 | 0.0070.0020.0060.005 |
| Preoperative Hemoglobin (per each 1 g/L increase) | 0.99 | 0.98-1.00 | -1.67 | 0.10 |
| Redo Procedure | 1.03 | 0.47-1.59 | 0.10 | 0.92 |
| Complex Procedure | 1.42 | 1.02-1.82 | 1.75 | 0.08 |
| Preoperative IABP | 3.50 | 2.78-4.22 | 3.42 | 0.0006 |
| *UDPB*Class 0Class 1Class 2Class 3Class 4 | Reference6.416.0634.65122.16 | 4.86-7.964.59-7.5333.23-36.07120.71-123.61 | 2.342.404.886.50 | <0.0001 |
| MODEL 3: PREOPERATIVE and OPERATIVE FACTORS + UDPB + POSTOPERATIVE COMPLICATIONS*Model c-statistic: 0.94* *Hosmer-Lemeshow: p=0.34* |
| *Predictor*  | *Adjusted OR* | *95% CI* | *t Value* | *Overall P-Value* |
| *Procedure Urgency* ElectiveUrgentEmergent  | Reference0.782.34 | 0.31-1.251.80-2.88 | -1.023.07 | 0.0005 |
| Redo Procedure | 0.98 | 0.38-1.58 | -0.07 | 0.95 |
| Complex Procedure | 1.27 | 0.84-1.70 | 1.11 | 0.27 |
| Preoperative IABP | 3.83 | 3.08-4.58 | 3.53 | 0.0004 |
| Preoperative Hemoglobin (per each 1 g/L increase) | 0.99 | 0.98-1.00 | -1.41 | 0.16 |
| *Preoperative Comorbidities*Renal Dysfunction Extracardiac arteriopathyLiver DiseaseHeart Failure | 1.531.543.161.82 | 1.09-1.971.12-1.962.40-3.921.40-2.24 | 1.902.022.952.81 | 0.060.040.0030.005 |
| *UDPB*Class 0Class 1Class 2Class 3Class 4 | Reference6.135.5226.2888.12 | 5.56-7.704.04-7.0024.85-27.7186.65-89.58 | 2.272.264.476.00 | <0.0001 |
| *Postoperative Complications*AKIStrokeMISepsisSternal Infection | 2.158.4710.896.870.86 | 1.00-3.317.91-9.039.89-11.896.27-7.470.00-1.76 | 1.497.494.706.31-0.34 | 0.14<0.0001<0.0001<0.00010.73 |
| MODEL 4: PREOPERATIVE and OPERATIVE FACTORS + E-CABG *Model c-statistic: 0.92* *Hosmer-Lemeshow: p=0.57* |
| *Predictor* | *Adjusted OR* | *95% CI* | *t Value* | *Overall P-Value* |
| *Procedure Urgency* ElectiveUrgentEmergent  | Reference0.952.58 | 0.53-1.370.72-4.44 | -0.253.75 | 0.0002 |
| *Preoperative Comorbidities*Renal DysfunctionExtracardiac arteriopathyLiver DiseaseHeart Failure | 1.731.912.611.57 | 1.34-2.121.54-2.281.89-3.331.20-1.94 | 2.753.452.592.35 | 0.0060.00060.010.02 |
| Preoperative Hemoglobin (per each 1 g/L increase) | 1.01 | 1.00-1.02 | 1.31 | 0.19 |
| Redo Procedure | 1.35 | 0.84-1.86 | 1.15 | 0.25 |
| Complex Procedure | 1.29 | 0.90-1.68 | 1.27 | 0.20 |
| Preoperative IABP | 3.00 | 2.30-3.70 | 3.07 | 0.002 |
| *E-CABG Grade*Grade 0Grade 1Grade 2Grade 3 | Reference2.8226.5364.72 | 2.18-3.4625.93-27.1363.89-65.55 | 3.1610.659.84 | <0.0001 |
| MODEL 5: PREOPERATIVE and OPERATIVE FACTORS + E-CABG + POSTOPERATIVE COMPLICATIONS*Model c-statistic: 0.94* *Hosmer-Lemeshow: p=0.29* |
| *Predictor*  | *Adjusted OR* | *95% CI* | *t Value* | *Overall P-Value* |
| *Procedure Urgency* ElectiveUrgentEmergent  | Reference0.832.43 | 0.37-1.291.89-2.97 | -0.823.22 | 0.0005 |
| Redo Procedure | 1.15 | 0.58-1.72 | 0.49 | 0.63 |
| Complex Procedure | 1.18 | 0.76-1.60 | 0.79 | 0.43 |
| Preoperative IABP | 3.33 | 2.58-4.08 | 3.14 | 0.002 |
| Preoperative Hemoglobin (per each 1 g/L increase) | 1.00 | 0.99-1.01 | 0.86 | 0.39 |
| *Preoperative Comorbidities*Renal Dysfunction Extracardiac arteriopathyLiver DiseaseHeart Failure | 1.501.682.911.77 | 1.07-1.931.28-2.082.14-3.681.36-2.18 | 1.852.532.712.75 | 0.060.010.0070.006 |
| *E-CABG Grade*Grade 0Grade 1Grade 2Grade 3 | Reference2.7719.6240.44 | 2.09-3.4518.97-20.2739.53-41.35 | 2.949.007.97 | <0.0001 |
| *Postoperative Complications*AKIStrokeMISepsisSternal Infection | 1.985.7610.486.200.81 | 0.99-2.975.21-6.319.54-11.425.62-6.780.00-1.63 | 1.356.224.886.19-0.46 | 0.18<0.0001<0.0001<0.00010.64 |