Supplementary Table 1

Coefficients of each variable calculated by LASSO regression

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| Variables | Abbreviations | Coefficient |
| Gender | GENDER | 0 |
| Age | AGE | 0.012 |
| Euroscore Ii Score | EURO | 0 |
| Asa Physical Status Classification | ASA | 0.014 |
| Mallampati Airway Classification | MAC | 0 |
| Nyha Functional Classification | NYHA | 0 |
| Ccs Class 4 | CCS | 0 |
| Myocardial Infarction Within 90 Days | MI90 | 0 |
| Dyslipidemia | DYS | 0 |
| Diabetes Mellitus | DM | 0 |
| Diabetes On Insulin | DOINS | 0 |
| Hypertension | HTN | 0.131 |
| Previous Cardiac Surgery | PCS | 0 |
| Number Of Previous Cardiac Operations | NPCO | 0 |
| Chronic Kidney Disease | CKD | 0.017 |
| Infectious Endocarditis | IE | 0 |
| Neurological Dysfunction | NED | 0 |
| Pulmonary Hypertension | PHTN | 0 |
| Smoking | SMK | 0 |
| Alcohol | ALC | 0 |
| Systolic Blood Pressure | PSBP | 0.001 |
| Diastolic Blood Pressure | PDBP | 0 |
| Mean Arterial Blood Pressure | MABP | 0 |
| Height | HT | 0 |
| Weight | WT | 0 |
| Body Mass Index | BMI | 0 |
| Preoperative Coronary Angiography | PCA | 0 |
| Critical Preoperative State  | CPS | 0.186 |
| Intraoperatively Used Nitroglycerin | IOUN | 0 |
| Epinephrine Administration | EA | 0.347 |
| Norepinephrine Administration | NEA | 0 |
| Amiodarone Administration | AD | 0.169 |
| Basic Act | BACT | 0 |
| Heparinized Act | HACT | 0 |
| Neutralizd Act | NACT | 0 |
| NovoSeven Therapy | NST | 0 |
| Perioperative Blood Loss(Ml) | PBL | 0.001 |
| Perioperative Blood Loss(Ml/Kg) | PBLK | 0 |
| Perioperative Blood Loss(Ml/Kg/H) | PBLH | 0 |
| Dosage Of Plasma Substitute | DPS | 0 |
| Human Albumin Solution(20%) | HAS | 0 |
| Ringer Lactate Solution | LRS | 0 |
| Sodium Bicarbonate Injection(5%) | SB | 0.001 |
| Mannitol Injection(25%) | E421 | 0 |
| Htk Cardioplegic Solution (Into Body) | HTKBCBS | 0 |
| Htk Cardioplegic Solution (All) | HTKCBS | 0 |
| The Total Liquid Infusion Volume | TLIV | 0 |
| Minimum Core Body Temperature | MCBT | 0 |
| Body Temperature After Cardiopulmonary Bypass | BTCPB | 0 |
| Defibrillation Treatment | DT | 0 |
| Number Of Defibrillation | NOD | 0 |
| Temporary Pacemaker Implantation | TPI | 0 |
| Urine Output(Ml) | UOP | 0 |
| Urine Output(Ml/Kg) | UOPK | 0 |
| Urine Output(Ml/Kg/H) | UOPH | -0.133 |
| Hemoglobin After Cardiopulmonary Bypass | HLBCPB | 0 |
| Hematocrit After Cardiopulmonary Bypass | HCTCPB | 0 |
| Liquid Balance | LB | 0 |
| Cardiopulmonary Bypass Time | CPBt | 0.002 |
| Aortic Clamp Time | ACT | 0 |
| Systolic Blood Pressure | SBP | 0 |
| Diastolic Blood Pressure | DBP | 0 |
| Mean Arterial Blood Pressure | MABP-A | 0 |
| Anesthesia Time | AT | 0 |
| Operation Time | OT | 0 |
| Weight Of The Intervention | WTI | 0 |
| Minimally Invasive Treatment | MIT | 0 |
| Emergency | EM | 0.075 |
| Prbc Transfusion During Surgery | PRBCDS | 0 |
| Ffp Transfusion During Surgery | FFPDS | 0 |
| Plt Transfusion During Surgery | PLTDS | 0 |
| Cryoprecipitate Treatment | CP | 0 |
| Pr Interval | PRI | 0 |
| Qrs Duration | QRSD | 0 |
| Qt Interval | QTI | 0 |
| Qtc Interval | QTCI | 0 |
| Abnormal T Wave | ABNT | 0 |
| Abnormal Q Wave | ABNQ | 0 |
| Atrial Flutter | AFL | 0 |
| Atrial Fibrillation | AF | 0 |
| Ascending Aorta Diameter | AAD | 0 |
| Left Atrial Diameter | LAD | 0 |
| Left Ventricular End-Diastolic Diameter | LVED | 0 |
| Interventricular Septal Thickness | IVST  | 0.025 |
| Left Ventricular Posterior Wall Thickness | LVPWD | 0 |
| Right Atrial Diameter | RAD | 0 |
| Right Ventricular Diameter | RVD | 0 |
| Inner Diameter Of Main Pulmonary Artery  | IDMPA | 0 |
| Ejection Fraction | EF | 0 |
| Mean Pulmonary Arterial Pressure | PMPA | 0 |
| Digoxin | DIG | 0 |
| Β-Block | BB  | 0 |
| Angiotensin-Converting Enzyme Inhibitors | ACEI | 0 |
| Angiotensin Receptor Inhibitors | ARI | 0 |
| Calcium Channel Blockers | CCB | 0.052 |
| Diuretics | DIU | 0 |
| Anticoagulants | AC | 0 |
| Aspirin | ASA | 0 |
| Statins | STA | 0 |
| Insulin | INS | 0 |
| Oral Hypoglycemic Agents | OHA | 0 |
| Hemoglobin | HLB | -0.001 |
| Red Blood Cell Count | RBC | -0.055 |
| White Blood Cell Count | WBC | 0 |
| Neutrophil Count | NC | 0 |
| Lymphocyte Count | LC | 0 |
| Hematocrit | HCT | 0 |
| Platelet Count | PC | 0 |
| Activated Partial Thromboplastin Time | APTT | 0 |
| International Normalized Ratio | INR | 0.275 |
| Plasma Fibrinogen | FIB | 0 |
| Alanine Aminotransferase | ALT | 0 |
| Aspartate Aminotransferase | AST | 0 |
| Total Protein | TP | 0 |
| Albumin | ALB | -0.002 |
| Total Bilirubin | TB | 0 |
| Direct Bilirubin | DB | 0 |
| Blood Glucose | BG | 0 |
| Serum Creatinine | SCR | 0.001 |
| Creatinine Clearance | CRC | -0.008 |
| Preoperative Renal Replacement Therapy | PRRT | 0 |
| Urea Nitrogen | UN | 0 |
| Serum Potassium | SP | 0 |
| Serum Sodium | SSOD | 0 |
| Chloride | CL | 0 |
| Acute kidney injury | AKI | 　 |

Characteristic variables are marked in gray (coefficients are not equal to 0)