**Table S1.** Patients characteristics according to sST2 tertiles.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Characteristic | T1 (n = 168) | T3 (n = 166) | T3 (n = 166) | P value |
| sST2 range, ng/mL | <36.74 | 36.74-56.94 | >56.94 |  |
| Male, n (%) | 92 (55) | 101 (61) | 102 (72) | 0.004 |
| Age, y | 56 (48, 62) | 56 (46, 62) | 58 (49, 64) | 0.105 |
| Weight, kg | 63 (55, 73) | 62 (54, 70) | 65 (56, 73) | 0.181 |
| Smoker，n (%) | 20 (12) | 42 (25) | 46 (28) | <0.001 |
| Preexisting clinical conditions, n (%) |  |  |  |  |
| Hypertension | 56 (33) | 53 (32) | 70 (42) | 0.108 |
| Diabetes | 15 (9) | 20 (12) | 11 (7) | 0.230 |
| Heart failure | 1 (1) | 8 (5) | 5 (3) | 0.043 |
| Atrial fibrillation | 33 (20) | 34 (20) | 29 (17) | 0.772 |
| Coronary artery disease | 19 (11) | 30 (18) | 32 (19) | 0.103 |
| PCI | 5 (3) | 9 (5) | 13 (8) | 0.146 |
| Cerebrovascular disease | 15 (9) | 14 (8) | 18 (11) | 0.729 |
| Hyperlipidemia | 4 (2) | 9 (5) | 10 (6) | 0.234 |
| Previous cardiac surgery | 7 (4) | 8 (5) | 14 (8) | 0.200 |
| Liver disease | 6 (4) | 3 (2) | 6 (4) | 0.583 |
| Preoperative contrast agent use, n (%) | 78 (46) | 95 (57) | 69 (42) | 0.014 |
| Preoperative laboratory tests |  |  |  |  |
| Hemoglobin, g/L | 134 (122, 145) | 130 (119, 140.75) | 130.5 (115, 142) | 0.065 |
| Hematocrit (%) | 0.41 (0.38, 0.44) | 0.40 (0.37, 0.43) | 0.40 (0.36, 0.43) | 0.115 |
| D-dimer, ng/mL | 260 (220, 490) | 320 (220, 787.5) | 900 (222.5, 4660) | <0.001 |
| Albumin, g/L | 41.33 (38.75, 43.96) | 40.59 (36.9, 44.23) | 39.52 (35.66, 42.06) | <0.001 |
| Baseline eGFR, mL/min/1.73 m2 | 89.70 (73.84, 100.52) | 87.49 (72.70, 98.26) | 80.60 (64.53, 96.36) | 0.003 |
| Baseline serum creatinine, umol/L | 77.32 (65.72, 88.96) | 77.87 (66.6, 94.60) | 86.46 (72.15, 102.24) | <0.001 |
| Preoperative imaging data |  |  |  |  |
| LVEF, % | 64 (60, 67) | 64 (58, 66) | 63 (60, 65) | 0.123 |
| LVDD, mm | 50 (44, 57) | 49 (45, 56) | 49 (44, 55) | 0.454 |
| ASA ≥ III grade, n (%) | 159 (95) | 159 (96) | 165 (99) | 0.044 |
| NYHA ≥ III grade, n (%) | 76 (45) | 101 (61) | 112 (67) | <0.001 |
| Emergent surgery, n (%) | 8 (5) | 15 (9) | 58 (35) | <0.001 |
| Type of surgery, n (%) |  |  |  | <0.001 |
| Isolated Valve(s) | 127 (76) | 112 (67) | 57 (34) |  |
| Isolated CABG | 15 (9) | 20 (12) | 18 (11) |  |
| CABG + Valve(s) | 5 (3) | 5 (3) | 10 (6) |  |
| Aortic | 21 (12) | 29 (17) | 81 (49) |  |
| Intraoperative information |  |  |  |  |
| Received RBC, n (%) | 15 (9) | 24 (14) | 49 (30) | <0.001 |
| Received FFP, n (%) | 9 (5) | 16 (10) | 36 (22) | <0.001 |
| Received PLT, n (%) | 21 (12) | 37 (22) | 92 (55) | <0.001 |
| CPB time, minutes | 146 (120, 182) | 164 (123, 203) | 211 (179, 265) | <0.001 |

Continued **Table S1.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Volume of blood loss, mL | 200 (100, 300) | 200 (200, 300) | 300 (200, 500) | <0.001 |
| APACHE II score | 10 (8, 12) | 9 (8, 11) | 11 (9, 14) | <0.001 |

Continuous variables are presented as median (25th percentile, 75th percentile). ASA, American Society of Anesthesiologists; APACHE, Acute Physiology and Chronic Health Evaluation; CABG, coronary artery bypass grafting; CPB, cardiopulmonary bypass time; eGFR, estimated glomerular filtration rate; FFP, fresh frozen plasma; LVEF, left ventricular ejection fraction; LVDD, Left ventricular end-diastolic dimension; NYHA, New York Heart Association; PCI, percutaneous coronary intervention; PLT, platelets; RBC, red blood cell; sST2, soluble ST2.