**Supplemental Table: Demographics, Comorbidities and Intraoperative Characteristics of the Study Population.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | No LCOS (n=216) | LCOS (n=59) | *P* Value |
| ***Demographics*** |
| Age(y) | 71.0[61.0-77.0] | 70.0[63.0-79.0] | 0.88 |
| Female gender, n(%) | 58(26.8) | 17(28.8) | 0.75 |
| BMI, kg m-2 | 26.7[25.2-30.4] | 27.4[24.6-31.6] | 0.24 |
| ***Comorbidities*** |
| Preoperative creatinine (mg/l) | 10.2[8.5-12.5] | 10.7[9.4-13.3] | 0.15 |
| Preoperative hemoglobin (g/dl) | 14.0[12.8-14.9] | 12.8[11.2-14.4] | 0.001 |
| IDDM, n(%) | 11(5.1) | 6(10.2) | 0.22 |
| NYHA III-IV, n(%) | 75(34.7) | 34(57.6) | 0.002 |
| COPD, n(%) | 28(13.0) | 17(28.8) | 0.005 |
| Systolic pulmonary pressure > 55 mmHg, n(%) | 10(4.6) | 6(10.2) | 0.12 |
| Extracardiac arteriopathy, n(%) | 43(19.9) | 21(35.6) | 0.02 |
| ***Echocardiography*** |
| LVEF n,(%) |  |  |  |
|  | > 50 % | 166(76.8) | 21(35.6) | <0.001 |
|  | 31-50 % | 41(19.0) | 27(45.8) | <0.001 |
|  | ≤30 % | 9(4.2) | 11(18.6) | <0.001 |
| GLS(%) | -18.6±4.1 | -15.2±4.3 | <0.001 |
| Lat e’ (cm s-1)b | 7.0 [5.8-8.5] | 7.1[5.0-10.0] | 0.71 |
| E/e’ ratiob | 8.0[5.5-11.1] | 6.9[6.4-13.6] | 0.61 |
| RV FAC, %c | 43[36-51] | 44[42-47] | 0.80 |
| Valvular disease |  |  |  |
|  | Aortic valve stenosis, n(%) | 95(44.0) | 17(28.8) | 0.04 |
|  | Aortic valve regurgitation, n(%) | 13(6.0) | 5(8.5) | 0.55 |
|  | Mitral valve stenosis, n(%) | 1(0.4) | 0(0.0) | 1.00 |
|  | Mitral valve regurgitation, n(%) | 25(11.6) | 19(32.2) | < 0.001 |
|  | None, n(%) | 82(38.0) | 18(30.5) | 0.36 |
| ***Surgical Procedure*** |  |  |  |
| Type of Surgery |  |  |  |
|  | CABG, n(%) | 109(50.5) | 33(27.9) | 0.47 |
|  | AVR, n(%) | 116(53.7) | 24(40.7) | 0.08 |
|  | MV replacement, n(%) | 9 (4.2) | 13(22.0) | <0.001 |
|  | MV repair, n(%) | 16(7.4) | 6 (10.2) | 0.59 |
|  | Major aortic surgery, n(%) | 20(9.3) | 3(5.1) | 0.43 |
|  | Combined procedure, n(%) | 59(27.3) | 26(44.1) | 0.02 |
| Urgent surgery | 40(18.5) | 19(32.2) | 0.03 |
| CPB duration, min | 86.0[69.0-102.0] | 114.0[86.0-146.0] | <0.001 |
| Aortic cross clamp time, min | 59.5[45.0-75.0] | 70.0[56.0-95.0] | <0.001 |
| RBC transfusion, n(%)a | 29(10.5) | 24(40.7) | <0.001 |
| EuroSCORE II, % | 2.1[1.2-3.8] | 3.6[2.4-9.2] | <0.001 |

Values are median [p25-p75] or number (%). BMI: body mass index; IDDM: insulin-dependent diabetes mellitus; NYHA: New York heart association functional class; CPB= cardiopulmonary bypass; CABG= coronary artery bypass grafts; AVR=aortic valve replacement; MV=mitral valve; LVEF=left ventricular ejection fraction; GLS=peak systolic global longitudinal strain; COPD=chronic obstructive pulmonary disease; LCOS= postoperative low cardiac output syndrome. RV FAC=Right ventricular fractional area change. Lat e’: pulsed wave-derived lateral mitral annular early diastolic velocity. E: Pulsed wave-derived transmitral early flow velocity. RBC=Red Blood Cell. EuroSCORE II=predicted 30-day mortality according to the EuroSCORE II.

a Anytime intraoperatively or during the intensive care unit stay. b Measured in 117 patients only. c Obtained in 134 patients only.