Supplementary Table 2: Univariate, full set and selective set analyses of relationship between pre- and intra-operative predictors and occurrence of transient post-operative atrial fibrillation during the first 192 post-operative hours for the 663 patients

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Atrial fibrillation (or deaths)** | |  |  |  |  |  |
| **Variables** | **groups** | **NA** | **N (%) or**  **mean±sd** | **N (%) or**  **mean±sd** | **p-value+** | **OR [CI95%]**  **univariate** | **p-value** | **ORa [CI95%]**  **full** | **ORa [CI95%] selected** |
| **Pre- and intra-operative** |  |  |  |  |  |  |  |  |  |
| Age | ≤65 | 1 | 87 (30.1%) | 207 (55.5%) |  | 1 |  | 1 | 1 |
|  | 65-75 |  | 97 (33.6%) | 105 (28.2%) | 0.0001 | 2.19 [1.50 ; 3.19] | <0.0001 | 2.76 [1.79 ; 4.27] | 2.12 [1.44 ; 3.12] |
|  | >75 |  | 105 (36.3%) | 61 (16.4%) | <0.0001 | 4.09 [2.74 ; 6.13] | <0.0001 | 4.21 [2.63 ; 6.74] | 4.30 [2.84 ; 6.50] |
| Heart rate (bpm) on D-1 | - | 61 | 64 (10) | 66 (9) | 0.089 | 0.93 [0.86 ; 1.01] | 0.234 | 0.95 [0.86 ; 1.04] |  |
| Duration of aortic cross clamp (10 min) | - | 5 | 60 (29) | 52.8 (23) | 0.0005 | 1.12\* [1.05 ; 1.19] | 0.195 | 1.11 [0.95 ; 1.28] | 1.13\* [1.06 ; 1.20] |
| Duration of cardiopulmonary bypass (10 min) | - | 3 | 77 (41) | 67 (31) | 0.001 | 1.07\* [1.03 ; 1.12] | 0.998 | 1.00 [0.90 ; 1.11] |  |
| Type of surgery | CABG alone |  | 130 (44.8%) | 209 (56.2%) |  | 1 |  | 1 |  |
|  | Valve surgery alone | 1 | 56 (19.3%) | 61 (16.4%) | 0.489 | 1.47 [0.97 ; 2.25] | 0.601 | 0.87 [0.51 ; 1.48] |  |
|  | Combined surgery |  | 104 (35.9%) | 102 (27.4%) | 0.089 | 1.64 [1.16 ; 2.33] | 0.835 | 1.05 [0.65 ; 1.72] |  |
| Catecholamines following surgery | yes/no | 0 | 169 (58.3%) | 187 (50.1%) | 0.037 | 1.39 [1.02 ; 1.89] | 0.158 | 1.31 [0.90 ; 1.89] |  |
| **Comorbidities** |  |  |  |  |  |  |  |  |  |
| History of paroxysmal atrial fibrillation | yes/no | 3 | 33 (11.4%) | 17 (4.6%) | 0.001 | 2.68 [1.46 ; 4.92] | 0.042 | 2.17 [1.03 ; 4.59] | 2.39 [1.25 ; 4.59] |
| History of carotid surgery | yes/no | 0 | 11 (3.8%) | 4 (1.1%) | 0.029 | 3.63 [1.15 ; 11.53] | 0.849 | 1.15 [0.27 ; 4.90] |  |
| History of valvular surgery | yes/no | 0 | 18 (6.2%) | 27 (7.2%) | 0.579 | 0.84 [0.45 ; 1.56] | 0.077 | 0.50 [0.23 ; 1.08] |  |
| History of vascular surgery | yes/no | 0 | 36 (12.4%) | 34 (9.1%) | 0.172 | 1.41 [0.86 ; 2.32] | 0.045 | 1. 84 [1.01 ; 3.34] |  |
| History of type 1 diabetes | yes/no | 1 | 21 (7.2%) | 41 (11%) | 0.100 | 0.63 [0.36 ; 1.09] | 0.261 | 0.69 [0.36 ; 1.32] |  |
| History of arterial hypertension | yes/no | 0 | 212 (73.1%) | 251 (67.3%) | 0.106 | 1.32 [0.94 ; 1.85] | 0.740 | 0.93 [0.61 ; 1.42] |  |
| **Chronic medication** |  |  |  |  |  |  |  |  |  |
| Statins | yes/no | 0 | 215 (74.1%) | 299 (80.2%) | 0.066 | 0.71 [0.49 ; 1.02] | 0.025 | 0.58 [0.36 ; 0.93] |  |
| Amiodarone | yes/no | 2 | 18 (6.2%) | 13 (3.5%) | 0.107 | 1.82 [0.88 ; 3.78] | 0.776 | 1.14 [0.46 ; 2.84] |  |
| Diuretics | yes/no | 2 | 133 (45.9 %) | 128 (34.5 %) | 0.003 | 1.61 [1.17 ; 2.20] | 0.176 | 1.31 [0.89 ; 1.93] |  |
| ACE inhibitors | yes/no |  | 121 (41.7%) | 158 (42.4%) | 0.829 | 0.97 [0.71 ; 1.32] | 0.482 | 0.88 [0.61 ; 1.26] |  |
| **Total post-operative atrial fibrillation or deaths** | - |  | 290 (44%) | 373 (56%) |  |  |  |  |  |

NA: Missing data; OR: odds-ratio with confidence interval (CI) ; post-operative atrial fibrillation: postoperative atrial fibrillation; HR: heart rate; bpm: beats per minute;. \* The OR is calculated on a 10 minutes unit. **+**univariate analysis (Wald p-value) (full) Adjusted odds ratio based on the predictor full set analysis; (selected) Adjusted odds ratio based on the predictor