Table 1. Patient’s demographic data

|  |  |  |
| --- | --- | --- |
| Variables | Before matching | After matching |
|  | No statin-magnesium(n = 375) | Statin-magnesium (n = 167) | *P -* value | No statin-magnesium (n = 114) | Statin-magnesium  (n = 114) | *P -* value |
| Age (year) | 59.8 ± 5.8 | 59.7 ± 5.8 | *P >* 0.05 | 59.8 ± 6.0 | 59.4 ± 5.9 | *P >* 0.05 |
| Sex (male/female) | 125/250 | 53/114 | *P >* 0.05 | 43/71 | 31/83 | *P >* 0.05 |
| Body mass index (kg/ m2) | 26.1 ± 1.4 | 26.1± 1.5 | *P >* 0.05 | 26.1 ± 1.4 | 26.0 ± 1.5 | *P >* 0.05 |
| Diabetes Mellitus | 66 (17.6) | 44 (26.3) | *P =* 0.019 | 19 (16.7) | 29 (25.4) | *P >* 0.05 |
| Hypertension | 139 (37.1) | 80 (47.9) | *P =* 0.018 | 50 (43.9) | 51 (44.7) | *P >* 0.05 |
| Smoking | 107 (28.5) | 65 (38.9) | *P =* 0.016 | 36 (31.6) | 39 (34.2) | *P >* 0.05 |
| Peripheral arterial occlusive disease | 63 (16.8) | 47 (28.1) | *P =* 0.002 | 22 (19.3) | 29 (25.4) | *P >* 0.05 |
| Preoperative cerebrovascular accident | 25 (6.7) | 23 (13.8) | *P* = 0.007 | 13 (11.4) | 19 (16.7) | *P >* 0.05 |
| Commonly prescribed statins |  |  |  |  |  |  |
|  atorvastatin |  | 63 (37.7) |  |  | 40 (35.1) |  |
|  rosuvastatin |  | 48 (28.7) |  |  | 33 (28.9) |  |
|  fluvastatin |  | 26 (15.6) |  |  | 20 (17.5) |  |
|  others |  | 30 (18.0) |  |  | 21 (18.4) |  |
| Duration of statin treatment |  |  |  |  |  |  |
| < 1 year |  | 76 (45.5) |  |  | 57 (50.0) |  |
| ≥ 1 year |  | 91 (54.5) |  |  | 57 (50.0) |  |
| Type of cardiac surgery |  |  |  |  |  |  |
| Coronary bypass graft surgery | 131 (34.9) | 57 (34.1) | *P >* 0.05 | 40 (35.1) | 39 (34.2) | *P >* 0.05 |
| Valve surgery | 122 (32.5) | 55 (32.9) | *P >* 0.05 | 37 (32.5) | 38 (33.3) | *P >* 0.05 |
| Coronary bypass graft surgery + Valve surgery | 122 (32.5) | 55 (32.9) | *P >* 0.05 | 37 (32.5) | 37 (32.5) | *P >* 0.05 |
| Duration of cardiac surgery | 335.5 ± 22.8 | 333.4 ± 26.3 | *P >* 0.05 | 334.7 ± 22.2 | 332.6 ± 25.2 | *P >* 0.05 |
| Mechanical ventilation (hours) | 16.9 ± 2.9 | 17.0 ± 2.7 | *P >* 0.05 | 16.8 ± 2.8 | 17.0 ± 2.7 | *P >* 0.05 |
| Intensive care unit stay (hours) | 62.3 ± 7.5 | 62.9 ± 7.4 | *P >* 0.05 | 61.8 ± 7.5 | 62.8 ± 7.4 | *P >* 0.05 |
| Creatinine level before surgery (mg/dl) | 0.69 ± 0.12 | 0.70 ± 0.13 | *P >* 0.05 | 0.69 ± 0.12 | 0.71 ± 0.13 | *P >* 0.05 |
| Creatinine level after surgery (mg/dl) | 1.26 ± 0.26 | 1.28 ± 0.21 | *P >* 0.05 | 1.22 ± 0.21 | 1.29 ± 0.21 | *P =* 0.017 |
| Preoperative CRP (mg/L) | 4.2 ± 1.9 | 4.2 ± 1.8 | *P >* 0.05 | 4.28 ± 1.9 | 4.22 ± 1.8 | *P >* 0.05 |
| CRP at 1 day after surgery (mg/L) | 96.9 ± 15.1 | 92.2 ± 13.2 | *P =* 0.001 | 96.4 ± 14.0 | 92.4 ± 13.0 | *P =* 0.026 |
| CRP at 3 day after surgery (mg/L) | 155.2 ± 20.1 | 149.0 ± 20.0 | *P =* 0.001 | 153.4 ± 19.7 | 146.5 ± 19.1 | *P =* 0.008 |

Values are expressed as mean ± SD or numbers (%). CRP, C- reactive protein.