Additional file 1　Participant Characteristics and clinical variable

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Sinus Rhythm  Men | | | Sinus Rhythm  Women | | | Atrial  Fibrillation  n = 22 |
|  | All  n = 74 | ≧65 years old  n = 37 | <65 years  old  n = 37 | All  n = 16 | ≧65 years old  n = 10 | <65 years  old  n = 6 |  |
| Age, years | 63.0 ± 10.0 | 70.6 ± 5.0 | 55.5 ± 7.9\*\* | 66.3 ± 6.4 | 70.3 ± 3.6 | 59.7 ± 3.7 † † | 60.0 ± 8.1 |
| Height, cm | 170.5 ± 5.5 | 168.8 ± 5.7 | 172.3 ± 4.7 | 155.9 ± 5.2 | 154.3 ± 5.0 | 158.7 ± 4.9 | 171.6 ± 7.1 |
| Body weight, kg | 71.0 ± 9.1 | 68.8± 7.1 | 73.3 ± 10.3 | 57.4 ± 6.7 | 56.3 ± 6.3 | 59.1 ± 7.5 | 75.9 ± 12.0 |
| Body mass index, kg/m2 | 24.4 ± 2.8 | 24.1 ± 2.3 | 24.7 ± 3.2 | 23.7 ± 3.4 | 23.9 ± 3.8 | 23.5 ± 2.8 | 25.8 ± 3.9 |
| Diagnosis |
| Paroxysmal  atrial fibrillation | 33 | 18 | 15 |  | 4 | 5 | 20 |
| After ablation  (atrial fibrillation) | 41 | 19 | 22 |  | 6 | 1 | 2 |
| Result of blood test |
| CRP, mg/dl | 0.10 ± 0.15 | 0.13 ± 0.18 | 0.07 ± 0.08 | 0.14 ± 0.14 | 0.15 ± 0.11 | 0.12 ± 0.19 | 0.07 ± 0.06 |
| Hb, g/dl | 14.5 ± 1.0 | 14.2 ± 1.2 | 14.8 ± 0.8\* | 13.4 ± 0.98 | 13.2 ± 0.9 | 13.8 ± 1.1 | 15.3 ± 2.1‡ |
| BNP, pg/ml | 39.3 ± 53.0 | 55.8 ± 67.2 | 22.7 ± 25.1\*\* | 38.2 ± 43.6 | 46.4 ± 53.7 | 24.6 ± 12.2 | 80.9 ± 56.1‡ |
| eGFR, ml/min | 65.7 ± 13.3 | 63.8 ± 13.7 | 67.6 ± 12.9 | 89.7 ± 19.4 | 85.0 ± 23.1 | 97.4 ± 7.4 | 64.1 ± 12.8 |
| HbA1c, % | 5.9 ± 0.6 | 5.9 ± 0.6 | 5.8 ± 0.6 | 5.8 ± 0.5 | 5.9 ± 0.6 | 5.6 ± 0.3 | 6.5 ± 2.3 |
| LVEF, % | 65.2 ± 7.6 | 66.6 ± 5.9 | 63.9 ± 8.8 | 68.1 ± 4.8 | 68.9 ± 5.8 | 66.7 ± 2.0 | 64.2 ± 4.7 |
| Diabetes mellitus,  number, % | 12, 16.2% | 10, 27.0% | 2, 5.4%\* | 2, 12.5 | 2, 20% | 0, 0% | 5, 22.7% |
| Hypertension,  number, % | 36, 48.6% | 24, 64.9% | 12, 32.4%\* | 5, 31.3% | 4, 40% | 1, 16.7% | 13, 59.0% |
| Smoker,  number, % | 46, 61.3% | 22, 59.5% | 24, 64.9% | 3, 18.8% | 0, 0% | 3, 50% † | 16, 72.7% |

reported as mean ± SD or Number, %.　 LVEF, left ventricular ejection fraction

\* represents a significant (p < 0.05) difference between the men Group ≧65 years old and Group <65 years old.

\*\* represents a significant (p < 0.01) difference between the men Group ≧65 years old and Group <65 years old.

†represents a significant (p < 0.05) difference between the women Group ≧65 years old and Group <65 years old.

††represents a significant (p < 0.01) difference between the women Group ≧65 years old and Group <65 years old.

‡represents a significant (p < 0.01) difference between the men Group sinus rhythm and Group atrial fibrillation.