**Supplementary Material 2.** Demographic, Electrocardiographic, Echocardiographic, and Procedural Parameters of Non-RV Pacing Patients at 10 days Post-PPM Implant vs Non-RV Pacing and Pacing Dependent Patients at 1 Month Post-PPM Implant.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Non-RV Pacing Dependent at 10 days****(*n* = 9)** | **Non-RV Pacing Dependent at 30 days but RV Pacing Dependent at 10 days****(*n* = 8)**  | ***p* value** | **Pacing Dependent at 30 days** ***(n =* 8)** | ***p* value** |
| **Age** | 79.4±4.5 | 81.5±8.0 | 0.52 | 80.9± 8.3 | 0.66 |
| **Gender (Female)** | 5/8 | 4/8 | 1 | 2/8 | 0.33 |
| **BMI** | 30.3±6.4 | 27.7±6.2 | 0.45 | 25.0±4.5 | 0.08 |
| **Hypertension** | 8/9 | 7/8 | 1 | 5/8 | 0.29 |
| **DM** | 5/9 | 5/8 | 1 | 2/8 | 0.33 |
| **CAD** | 7/9 | 7/8 | 1 | 5/8 | 0.62 |
| **CHF** | 7/9 | 6/8 | 1 | 5/8 | 0.62 |
| **COPD** | 0/9 | 2/8 | 0.21 | 1/8 | 0.47 |
| **PVD** | 2/9 | 2/8 | 1 | 1/8 | 1 |
| **History of Atrial Fibrillation** | 0/9 | 1/8 | 0.47 | 1/8 | 0.47 |
| **History of Atrial Flutter** | 2/9 | 4/8 | 0.33 | 2/8 | 1 |
| **eGFR <60** | 6/9 | 4/8 | 0.64 | 7/8 | 0.58 |
| **Creatinine** | 1.37±0.74 | 1.36±0.46 | 0.98 | 1.92±1.42 | 0.32 |
| **Prior CABG** | 4/9 | 3/8 | 1 | 2/8 | 0.62 |
| **Prior PCI** | 1/9 | 2/8 | 0.58 | 3/8 | 0.29 |
| **Prior Balloon Valvuloplasty** | 2/9 | 3/8 | 0.62 | 0/8 | 0.47 |
| **ACE-I/ARB** | 5/9 | 2/8 | 0.33 | 5/8 | 1 |
| **Beta-Blockers** | 7/9 | 3/8 | 0.15 | 6/8 | 1 |
| **Digoxin** | 0/9 | 0/8 | 1 | 0/8 | 1 |
| **Other Anti-arrhythmic Drugs** | 0/9 | 0/8 | 1 | 0/8 | 1 |
| **Sinus Rhythm** | 7/9 | 4/8 | 0.33 | 7/8 | 1 |
| **1st degree AV block** | 2/9 | 2/8 | 1 | 2/8 | 1 |
| **LAFB** | 2/9 | 2/8 | 1 | 3/8 | 0.62 |
| **LPFB** | 0/9 | 1/8 | 0.47 | 2/8 | 0.21 |
| **RBBB** | 0/9 | 2/8 | 0.21 | 8/8 | <0.0001 |
| **LBBB** | 0/9 | 1/8 | 0.47 | 0/8 | 1 |
| **Bifasciular Block** | 0/9 | 2/8 | 0.21 | 5/8 | 0.009 |
| **QRS duration >120ms** | 0/9 | 3/8 | 0.08 | 8/8 | <0.0001 |
| **QRS duration (ms)** | 101.8±12.3 | 115.8±28.6 | 0.2 | 138.8 ± 14.1 | <0.001 |
| **Aortic Annulus Diameter2** | 2.39±0.32 | 2.34±0.31 | 0.78 | 2.51±0.22 | 0.37 |
| **Aortic Annulus Area2**  | 4.58±1.13 | 4.35±1.17 | 0.69 | 5.01±0.79 | 0.34 |
| **LVEF1** | 54.4±13.6 | 49.4±14.7 | 0.47 | 59.4±11.8 | 0.44 |
| **LVOTd1** | 1.97±0.35 | 2.11±0.30 | 0.41 | 2.1±0.22 | 0.4 |
| **LVEDd1** | 5.1±0.61 | 4.8±0.96 | 0.4 | 4.6±0.84 | 0.23 |
| **Severe MAC1** | 3/9 | 0/8 | 0.21 | 0/8 | 0.21 |
| **Transfemoral approach** | 6/9 | 7/8 | 0.58 | 8/8 | 0.21 |
| **Transapical Approach** | 3/9 | 1/8 | 0.58 | 0/8 | 0.21 |
| **Intraprocedural Complete Heart Block** | 2/9 | 4/8 | 0.61 | 7/8 | 0.04 |
| **Valve size** | 25±2.60 | 25.6±2.50 | 0.62 | 25.3±2.1 | 0.83 |
| **Valve/LVOTd1** | 12.9±1.7 | 12.3±1.9 | 0.533 | 12.1±1.1 | 0.28 |
| **Percent Oversizing by Annulus Area2** | 11.1±14.5 | 17.6±17.0 | 0.44 | -0.03±12.7 | 0.11 |
| **Days post-TAVR of Pacemaker insertion** | 5.8±3.9 | 4.6±3.0 | 0.51 | 5.9±6.3 | 0.97 |
| **Paravalvular leak requiring post-dilation** | 4/9 | 3/8 | 1 | 1/8 | 0.29 |
| **Generation** |  |  |  |  |  |
|  | **Sapien** | 7/9 | 5/8 | 0.62 | 5/8 | 0.62 |
|  | **Sapien XT** | 1/9 | 2/8 | 0.58 | 0/8 | 1 |
|  | **Sapien III** | 1/9 | 1/8 | 1 | 3/8 | 0.29 |
| **Indication for PPM Implant** |  |  |  |  |  |
|  | **CHB** | 6/9 | 5/8 | 1 | 8/8 | 0.21 |
|  | **SSS** | 2/9 | 1/8 | 1 | 0/8 | 0.47 |
|  | **New LBBB** | 1/9 | 2/8 | 0.58 | 0/8 | 1 |

The p-values shown are based on the two-tailed Fisher’s exact test for categorical variables and the two-tailed unpaired Student’s t-test for continuous variables.  Patients who were non-RV pacing dependent at 30 days were compared with patients who were RV pacing dependent at 30 days patients to obtain these p-values. Continuous variables are reported as the mean plus or minus the standard deviation.

1Values obtained by Transthoracic Echocardiography

2Values obtained by Multidetector Computed Tomography

BMI = Body Mass Index; DM=Diabetes Mellitus;  CAD = Coronary Artery Disease; CHF = Congestive Heart Failure; COPD = Chronic Obstructive Pulmonary Disease;  PVD = Peripheral Vascular Disease;  eGFR = estimated glomerular filtration rate;  CABG = Coronary Artery Bypass Grafting; PCI= Percutaneous Coronary Intervention; ACE-I/ARB = Angiotensin Converting Enzyme Inhibitor/angiotensin receptor blocker; AV = atrioventricular; LAFB = Left Anterior Fasicular Block; RBBB = Right Bundle Branch Block; LBBB = Left Bundle Branch block;  LVEF = Left Ventricular Ejection Fraction; LVEDd = Left Ventricular End Diastolic Diameter; LVOTd = left ventricular outflow tract diameter.