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| Supplementary table 1. Comparisons of clinical, laboratory, electro- and echocardiographic, and cardiopulmonary exercise test parameters between patients who remained synchronized during exercise or became dyssynchronized and between patients who remained dyssynchronized or resynchronized during exercise. |
| Variable | Patients with rest and exercise diastolic synchrony(n=17) | Patients with diastolic dyssynchronization at exercise(n=4) | Patients with rest and exercise diastolic dyssynchrony (n=9) | Patients with diastolic resynchronization at exercise(n=18) |
| Age | 64.1 ± 12.4 | 63 ± 3 | 62.4 ± 14.5 | 64.1 ± 12.2 |
| Women/men [n (%)] | 7 (41) / 10 (59) | 0 (0) / 4 (100) | 1 (11.1) / 8 (88.9) | 1 (5.6) / 17 (94.4) |
| BMI [kg/m2] | 26.1 ± 4.3 | 25.3 ± 3 | 25.8 ± 3.9 | 27.5 ± 3.4 |
| Ischaemic/Non-ischaemic [n (%)] | 4 (23.5) / 13 (76.5)  | 2 (50) / 2 (50) | 7 (77.7) / 2 (22.3)  | 10 (55.5) / 8 (44.5) |
| NYHA [n (%)]- II- III- IV | 4 (23.5) 11 (64.7) 2 (11.8) | 2 (50)2 (50)0 (0) | 2 (22.3)7 (77.7)0 (0) | 4 (22.2)10 (55.6)4 (22.2) |
| NT-proBNP [pg/ml] | 1847 [1084 – 2751] | 561 [131 – 891] | 2482 [696 – 6146] | 1705 [381 – 3309] |
| Hb [g/dl] | 14.6 ± 0.9 | 13.9 ± 0.2 | 13.9 ± 1.2 | 14.4 ± 1.5 |
| HR [beats per minute] | 71.6 ± 8.8 | 64 ± 7.9 | 69 ± 11.3 | 71.6 ± 7.4 |
| QRS duration [ms] | 160 [140 – 160] | 145 [120 – 185] | 140 [120 – 160] | 150 [130 – 160] |
| PR [ms] | 170 [160 – 200] | 190 [175 – 200] | 200 [200 – 240] | 200 [160 – 220] |
| LBBB/non-LBBB [n (%)] | 10 (59) / 7 (41) | 1 (25) / 3 (75) | 5 (55.5) / 4 (44.5)  | 12 (66.6) / 6 (33.4) |
| LVEF [%] | 23.9 ± 6.6 | 24.6 ± 7.7 | 20.7 ± 3.9 | 24.8 ± 6.1 |
| E/e’ ratio | 15.3 ± 5.9 | 15 ± 7.9 | 18.6 ± 6 | 18.8 ± 11.2 |
| max Te delay [ms] | 38 [30 – 46] | 44 [43 – 50] | 92 [71 – 95] | 71 [63 – 94] |
| max exercise Te delay [ms] | 29 [14 – 39]# | 69 [68 – 72]# | 73 [65 – 83]## | 32 [24 – 39]## |
| Systolic dyssynchrony [n (%)] | 12 (70) | 3 (75) | 7 (78) | 10 (55) |
| VO2 peak [ml/kg/min] | 17.6 ± 4.4 | 16.5 ± 4.6 | 11.8 ± 3.3## | 15.2 ± 3.7## |
| BMI - body mass index; NYHA - New York Heart Association; NT-proBNP - N-terminal prohormone of brain natriuretic peptide; Hb - haemoglobin; HR - heart rate; LBBB - left bundle branch block; LVEF - left ventricular ejection fraction; E/e’ - ratio of early diastolic mitral velocity to early diastolic velocity of the mitral annulus; max Te delay – maximal opposing wall diastolic delay; VO2 peak -peak oxygen uptake. # - p value <0.05 for comparison of patients who remained synchronized during exercise and those who became dyssynchronized; ## - p value <0.05 for comparison of patients who remained dyssynchronized during exercise an those who resynchronized. |