Supplementary File

Diastolic dysfunction in men with severe obstructive sleep apnea syndrome but without cardiovascular or oxidative stress-related comorbidities

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### Supplementary Table 1. Baseline echocardiographic characteristics in our severe OSAS patients (n=42) and controls (n=25)

|                                | Severe OSAS (N=42) | Controls (N=25) | P-value |
|--------------------------------|--------------------|-----------------|---------|
| **Left ventricular measurements** |                    |                 |         |
| LVEF, %                        | 63±5.8             | 59.2±3.6        | 0.104   |
| IVSd, mm                       | 9.54±1.08          | 9.17±1          | 0.162   |
| PWd, mm                        | 8.87±1.17          | 8.46±0.8        | 0.132   |
| LVIDd, mm                      | 48.27±4.29         | 48.78±3.23      | 0.612   |
| LV mass, gr                    | 145.87±35.69       | 136.67±24.97    | 0.261   |
| LV mass index, gr.m²           | 69.62±16.77        | 67.96±10.95     | 0.661   |
| RWT                            | 0.36±0.05          | 0.34±0.05       | **0.017** |
| E, m.sec⁻¹                     | 0.73±0.14          | 0.78±0.11       | 0.153   |
| A, m.sec⁻¹                     | 0.76±0.19          | 0.67±0.13       | **0.028** |
| PV S-vel, cm.sec⁻¹             | 0.54±0.09          | 0.56±0.09       | 0.432   |
| PV D-vel, cm.sec⁻¹             | 0.41±0.08          | 0.47±0.11       | 0.095   |
| PV S/D ratio                   | 1.38±0.37          | 1.23±0.24       | 0.05    |
| LV Sm, cm.sec⁻¹                | 9.77±2.43          | 9.17±1.35       | 0.262   |
| LV Em, cm.sec⁻¹                | 10.7±2.97          | 12.1±2.47       | **0.05** |
| LV Am, cm.sec⁻¹                | 11.63±2.87         | 9.37±2.48       | **0.002** |
| E/Em average                   | 8.05±2.18          | 7.68±1.32       | 0.447   |
| LV tei index                   | 0.40±0.1           | 0.44±0.08       | 0.078   |
| **Left atrial assessment**     |                    |                 |         |
| LA diameter, mm                | 35.11±3.9          | 33.39±2.83      | 0.06    |
| LAV max, mL                    | 45.3±18            | 41.66±12.1      | 0.370   |
| LAV max/BSA, mL.m²             | 21.6±8.5           | 20.94±7         | 0.739   |
| Passive LAEF                   | 0.25±0.11          | 0.29±0.11       | 0.125   |
| Active LAEF                    | 0.33±0.11          | 0.35±0.09       | 0.522   |
| **Right ventricular measurements** |                    |                 |         |
| RVFAC, %                       | 39.8±14.15         | 38.2±8.04       | 0.616   |
| RV E/A                         | 1.19±0.3           | 1.29±0.27       | 0.195   |
| TV max velocity, m.sec⁻¹       | 2.08±0.62          | 2.1±0.35        | 0.884   |
| RVSP, mmHg                     | 26±8.9             | 23.6±6.18       | 0.274   |
| IVC,mm                         | 14.5±3.68          | 13.14±2.33      | 0.191   |
| RV Sm, cm.sec⁻¹                | 13±2.94            | 12.5±2.32       | 0.472   |
| RV Em, cm.sec⁻¹                | 10.17±2.38         | 10.7±2.84       | 0.415   |
| RV Am, cm.sec⁻¹                | 13.49±3.54         | 13.49±4.2       | 0.995   |
| RV Em/Am                       | 0.79±0.26          | 0.85±0.29       | 0.406   |
| RV Tei index                   | 0.32±0.13          | 0.34±0.05       | 0.547   |
| **Right atrial assessment**    |                    |                 |         |
| RAV max, mL                    | 28.78±8            | 27.94±9.5       | 0.707   |
| Passive RAEF                   | 0.26±0.15          | 0.22±0.1        | 0.143   |
| Active RAEF                    | 0.25±0.09          | 0.29±0.12       | 0.088   |

OSAS= obstructive sleep apnea syndrome; DF= diastolic function; LV= left ventricular; LVEF= LV ejection fraction; IVSd= interventricular septum thickness at end-diastole; PWd= posterior wall thickness at end-diastole, LVIDd= LV internal diameter at end-diastole; RWT= relative wall thickness; E,A= transmitial inflow early and late peak diastolic velocity, respectively; PV= pulmonary vein; S,D= systolic, diastolic flow respectively; Sm,Em,Am= peak systolic, early and late diastolic TDI-derived mitral and tricuspid annular tissue velocities, respectively; LA= left atrial; LAV= LA volume; BSA= body surface area; LAEF= LA emptying fraction; RV= right ventricular; FAC= fractional area change; TV= tricuspid valve; IVC= inferior vena cava; RAV= right atrial volume; RAEF= right atrial emptying fraction