

Table 2: NT-proBNP and echocardiographic parameters of patients with chronic kidney disease (stage IV-V) and control subjects.

| Variable | Patients, all | Subgroup A | Subgroup B | Controls | p |
|--------------------------------------|-----------------|-------------------|----------------|---------------|-------|
| NT-proBNP (Me [IQR], pg/mL) | 905.0 (1565.0)* | 1507.0 (2368.0)** | 441.5 (804.0)* | 114.5 (647.0) | 0.000 |
| <i>M-mode and 2-D measurements</i> | | | | | |
| LA diameter (mm) | 43.8±4.9* | 45.8±4.1** | 41.7±4.8 | 40.5±4.4 | 0.000 |
| PWTd (mm) | 11.0±1.3* | 11.4±1.0** | 10.4±1.3* | 9.4±1.2 | 0.000 |
| IVSTd (mm) | 11.9±1.5* | 12.6±1.4** | 11.2±1.3* | 10.5±6.9 | 0.000 |
| LVEDD(mm) | 51.5±5.5 | 52.3±0.53 | 50.5±5.7 | 51.2±4.9 | 0.423 |
| LVESD (mm) | 33.9±4.9 | 34.6±5.6 | 33.1±4.0 | 33.9±4.9 | 0.489 |
| LV mass (g) | 298.2±79.7* | 331.5±78.5** | 263.7±66.0 | 239.0±56.8 | 0.000 |
| LVMI (g/m ²) | 170.0±48.9* | 196.5±49.4** | 142.5±29.8 | 129.7±24.1 | 0.000 |
| LVH, prevalence (%) | 91.8* | 100* | 83.3 | 68.2 | 0.005 |
| LV ejection fraction (%) | 61.7±8.2 | 61.1±9.2 | 62.2±7.1 | 61.6±6.8 | 0.860 |
| LV fractional shortening (%) | 34.1±5.6 | 33.5±6.4 | 34.6±4.7 | 34.0±5.6 | 0.740 |
| <i>Mitral inflow velocities</i> | | | | | |
| E/A ratio | 0.8±0.3 | 0.8±0.2 | 0.9±0.3 | 0.9±0.3# | 0.120 |
| DT (ms) | 241.2±63.5 | 231.1±61.7 | 250.9±64.7 | 254.6±69.1 | 0.362 |
| IVRT (ms) | 86.9±29.0 | 86.9±29.7 | 87.0±28.7 | 88.2±18.2 | 0.982 |
| Vp (ms) | 39.6±9.6* | 36.0±7.6** | 43.3±10.1 | 46.3±9.77 | 0.000 |
| <i>Tissues Doppler Imaging</i> | | | | | |
| Septal E' (cm/s) | 7.3±1.9* | 7.0±2.0* | 7.7±1.9* | 9.6±2.0 | 0.000 |
| Septal A' (cm/s) | 11.5±3.0* | 11.9±3.2* | 11.2±2.8* | 14.1±2.8 | 0.002 |
| Septal E'/A' ratio | 0.7±0.2 | 0.6±0.2# | 0.7±0.2 | 0.7±0.2 | 0.05 |
| Lateral E' (cm/s) | 10.0±3.0* | 9.2±2.5** | 10.9±3.3 | 11.6±2.4 | 0.007 |
| Lateral A' (cm/s) | 13.1±3.6 | 13.3±3.4 | 12.9±3.8 | 14.6±3.7 | 0.220 |
| Lateral E'/A' ratio | 0.8±0.3 | 0.7±0.1# | 0.8±0.2 | 0.8±0.3 | 0.039 |
| <i>LV diastolic filling pressure</i> | | | | | |
| Septal E/E' ratio | 9.1±3.9* | 9.7±4.6* | 8.4±2.9* | 5.8±1.9 | 0.001 |
| Lateral E/E' ratio | 6.8±3.0* | 7.4±3.6* | 6.1±2.2 | 4.8±1.5 | 0.003 |

p: statistically significant difference between groups (A, B and controls), NT-proBNP: N-terminal pro B type natriuretic peptide, Me [IQR]: Median [interquartile rang], LA: left atrial, PWTd: posterior wall thickness in diastole, IVSTd: interventricular septal thickness in diastole, LVEDD: left ventricular end-diastolic diameter, LVESD: left ventricular end-systolic diameter, LVH: left ventricular hypertrophy, E/A: ratio of early-to-late transmitral flow velocity, DT: deceleration time, IVRT: isovolumetric relaxation time, Vp: mitral flow propagation velocity, E': early diastolic mitral annular velocity, A': late diastolic mitral annular velocity, *statistically significant difference compared to controls (p<0.05), #statistically significant difference compared to subgroup B (p<0.05).