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## **LEFT VENTRICULAR REMODELING IN DIALYSIS PATIENTS OF THE URBAN POPULATION OF UZBEKISTAN**

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**Objectives:** To study the remodeling of the left ventricle of the heart in CKD 5D patients of the urban population of Uzbekistan.

**Methods:** A total of 104 (51 men and 53 women) patients with CKD 5D and permanently resided in urban areas were examined. The average age of was  $49.7 \pm 11.7$  years. The main initial diseases were glomerulonephritis (36.5%, n=38), diabetes mellitus (31.7%, n=33%) and urolithiasis (10.6%, n=11). The average duration of HD was  $37.0 \pm 4.77$  months ( $M \pm m$ ). The mean systolic blood pressure was  $114.1 \pm 27.1$  mm Hg, the mean diastolic blood pressure was  $84.8 \pm 13.6$  mm Hg. LV myocardial hypertrophy was diagnosed with LVMI values equal to or exceeding normal values. The geometric model of the heart was assessed in terms of LVMW and LVMI: with LVMI  $< N$  and LVMW  $< 0.45$ , normal LV geometry was stated; with LVMI  $> N$  and LVWT  $< 0.45$  - eccentric LV hypertrophy; with LVMI  $> N$  and LVWT  $> 0.45$  - concentric LV hypertrophy; with LVMI  $< N$  and LVWT  $> 0.45$  - concentric LV remodeling.

**Results:** Normal LV geometry was not determined in any patient. 62 (59.6%) patients had concentric LV myocardial hypertrophy, 10 (9.6%) patients had concentric LV remodeling, 32 (30.8%) patients had eccentric LV hypertrophy. Indicators of IVS thickness averaged  $13.0 \pm 2.1$  mm, PWLV thickness -  $12.1 \pm 2.0$  mm, LVM -  $310.8 \pm 22.73$  g, LVMI -  $169.6 \pm 12.26$  g/m<sup>2</sup>.

**Conclusions:** All studied urban patients with CKD 5D had LV remodeling. More than 90% of the examined patients had LVH. The most common are concentric remodeling (59.6%) and eccentric remodeling (30.8%) of the left ventricle of the heart.

Figure 1. Remodeling of left ventricular in CKD 5D patients of the urban population.

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