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INFLUENCE OF CARDIOVASCULAR COMORBIDITY ON THE STRUCTURE OF DEATH IN DIALYSIS PATIENTS

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Objectives: To comparatively study the causes of death of patients with ESRD in Uzbekistan.

Methods: We prospectively followed 200 dialysis patients in 3 different centers of Uzbekistan for 24 months (from January 2018 to January 2020). During this period, 72 patients died (40 men and 32 women). The average age of the deceased was 53.6±1.6 years. To identify the cause of death, the medical history and the results of the pathological examination were analyzed.

Results: Among the deceased, 68.1% (n=49) of patients had CVD, while 31.9% (n=23) did not have CVD. 43.1% (n=31) of patients died during the first year of follow-up, the remaining 56.9% (n=41) died within 2 years. The main cause of death of all patients is shown on figure 1. When analyzing the structure of death, depending on the presence of CVD, in patients with CVD, sudden cardiac death was 63% (n=30) of all causes of death, while in patients without CVD, it was 59% (n=14). Acute respiratory failure as a cause of death was detected more in patients without CVD. 29% (n=7) of patients died from this complication, while in patients with CVD this indicator was 13% (n=6). All cases of acute myocardial infarction (n=5) were observed in patients with CVD (10%). Deaths due to stroke and coma were also more common in patients with CVD (figure 2).

Conclusions: According to our study, dialysis patients with CKD die mainly due to cardiovascular accidents (more than 80%). The main place in the structure of death is taken by sudden cardiac death, which is the cause of death for more than 60% of deceased patients. Other causes were acute respiratory failure, acute myocardial infarction, coma, stroke, and acute bleeding. Patients who already had CVD more than 2 times more often die from cardiovascular complications than patients who did not have CVD.

Figure 1. The structure of death in dialysis patients

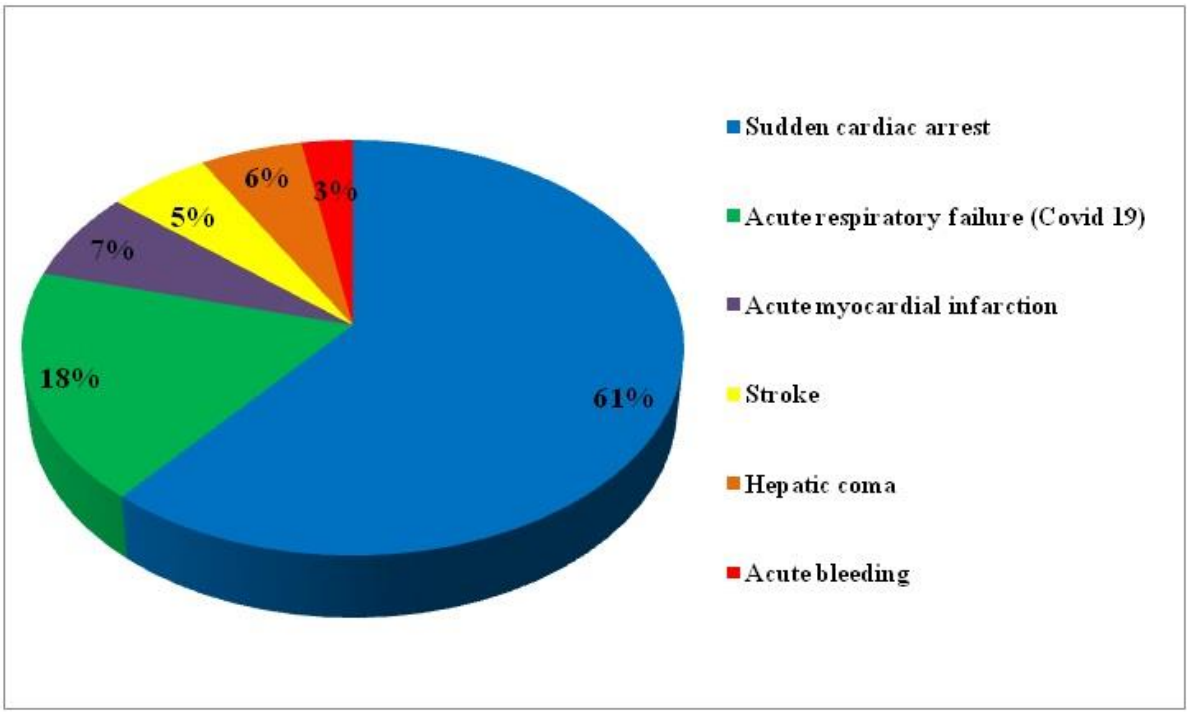

Figure 2. Structure of death in dialysis patients with and without CVD