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Cardiovascular disease in kidney transplant patients

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Introduction: Cardiovascular disease is the leading cause of death in kidney transplant patients. Patients on hemodialysis have a 10-20 times greater risk of developing cardiovascular disease compared to the general population. The risk of cardiovascular disease may differ in hemodialysis patients and kidney transplant patients.

Aims: To determine the frequency of risk factors for occurrence of cardiovascular disease and frequency of cardiovascular diseases in kidney transplant patients and patients on chronic hemodialysis.

Subjects & Method: We compared the frequency of risk factors for cardiovascular disease and the incidence of cardiovascular disease in kidney transplant patients and hemodialysis patients. Patients were divided into two groups: kidney transplant patients (60 patients) and patients treated with hemodialysis (30 patients).

Results: The incidence of non-traditional risk factors for cardiovascular disease in kidney transplant patients was as following: hypertension 30% , diabetes mellitus 23.3%, 26.67% active smoking, dyslipidemia 41.67%. Congestive heart failure had 3.33% kidney transplant patients and 16.67% patients treated with hemodialysis. Hypertension had 30% kidney transplant patients and 66.67% patients treated with hemodialysis. Left ventricular hypertrophy had 50% kidney transplant patients and 76.67% patients treated with hemodialysis. Coronary heart disease had 13.33% kidney transplant patients and 36.67% patients treated with hemodialysis. Atrial fibrillation had 10% kidney transplant patients and 26.67% patients treated with hemodialysis .Mitral regurgitation had 33.33% kidney transplant patients and 56.67% patients treated with hemodialysis. Aortic regurgitation had 15% kidney transplant patients and 33.33% patients treated with hemodialysis.

Conclusion: We find statistically significant differences in the frequency of cardiovascular disease between kidney transplant patients and patients treated with hemodialysis.

Biography

Daniela Lončar lives in Tuzla, Bosnia and Herzegovina. She is an internist at the Clinical Center Tuzla, Clinic for Internal diseases, ICU. She deals with the non-invasive cardiology with a particular focus of interest in echocardiography. She is senior assistant on the subject of Internal medicine at the Medical school of the University of Tuzla.

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