Abstract

Title: Muscle metabolism and its effect on physical condition in patients with chronic renal failure receiving hemodialysis

Objective: Assess the status of muscle metabolism in patients starting hemodialysis and patients receiving hemodialysis long time, to determine some changes in muscle metabolism in both groups in the time period and ultimately assess its impact on physical condition and quality of life of hemodialysis patients.

Method: Fill anamnestic questionnaire and examination of body composition using bioimpedence device (BCM) in the group of patients with chronic renal failure who are beginning to be treated with hemodialysis and a group of patients treated with hemodialysis for several years. Compare the results of both groups. To obtain additional information from medical records.

Results: It was found that hemodialysis therapy affects the status of muscle metabolism in terms of reducing muscle mass (LTM). The dependence of LTM, however, the duration of hemodialysis treatment assays. The study showed that if patients are nutritionally stable and regularly engaged in some physical activity, loss of muscle mass is lower than in individuals who have a passive way of life.

Keywords: chronic renal failure, hemodilysis, muscle metabolism, physical condition