

The Comparison Of Relationship Between Urinary Albumin And Creatinine In Patients with vascular Central vertigo And Peripheral Vertigo

Abstract

Introduction: Vertigo is a symptom of ischemic stroke. In vertigos without neurological symptoms, central vertigo cannot be definitively differentiated from peripheral vertigo by history and physical examination. So the first step in such a situation is early differentiation of central vertigo from peripheral one. If the albumin to creatinine ratio of urine be different in patients with central and peripheral vertigos, this result can be used to differentiate between central and peripheral vertigos.

Materials and Methods: In this study, 60 patients (30 patients with central and 30 patients with peripheral vertigo) were studied. Their information including age, sex, and medical records were obtained by face to face interview. Patient's morning urine sample were sent to the laboratory for analysis in terms of albumin to creatinine ratio. Patients information were analyzed by SPSS v.16 after collection.

Results: 65% of patients were female and 35% male. The mean age of central vertigo was 57.23 ± 10.94 and peripheral vertigo was 52.97 ± 12.52 years. The mean of albumin to creatinine level was significantly higher in patients with central vertigo compared to patients with peripheral vertigo (126.53 versus 38.7 mg/g; $P < 0.001$). This difference was significant between men ($P = 0.0498$) and women ($P = 0.003$) of both groups. Also, it was significant between 60 to 79 year-old age group, but it was not significant between 30-59 year-old age group.

Conclusion: According to the findings which showed that the average level of albumin to creatinine in patients with central vertigo was significantly higher than patients with peripheral vertigo, It seems that can use urine albumin to creatinine ratio, as a low-cost test, in order to differentiate central vertigo from peripheral one. The generalizability of these findings requires further study.

Keywords: Central vertigo ,peripheral vertigo ,microalbuminuria ,posterior circulation ischemic stroke.

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