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RELATIONSHIP BETWEEN PROTEIN MALNUTRITION AND LEFT VENTRICULAR DIASTOLIC DYSFUNCTION IN THE HOSPITALIZED MIDDLE-ELDERLY MALE PATIENTS WITH PRESERVED EJECTION FRACTION

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Background: Left ventricular diastolic dysfunction (LVDD) provides incremental prognostic value in the elderly population. It is unclear whether protein malnutrition is related to diastolic heart dysfunction in the hospitalized elderly male patients.

Methods: A total of 199 male patients aged older than 50 were recruited. Protein malnutrition was defined as serum albumin less than 35 g/L. Laboratory tests for biochemical indicators, transthoracic echocardiography and anthropometric measures were performed on admission.

Results: Patients with protein malnutrition were older than those with normal protein nutrition ($P=0.003$). The prevalence of LVDD was 67.4% in patients without protein malnutrition and 73.2% in those with protein malnutrition. In subgroup analysis for the patients aged more than 80 years old, the prevalence of LVDD in patients with and without protein malnutrition was still not significantly different. However, serum N-terminal pro-brain natriuretic peptide (NT-proBNP) level was closely related to protein malnutrition in in-hospital middle-elderly male patients, and serum NT-proBNP level had a moderate value for diagnosing malnutrition.

Conclusions: It could be concluded that protein malnutrition wasn't related to LVDD; however, it was related to serum NT-proBNP level in the hospitalized middle-elderly male patients with preserved left ventricular ejection fraction.

Biography

Shijun Li graduated as a Medical Doctor with specialization in Geriatric Cardiology from the Health Science Center of Peking University in China. Later on, he worked as a Post-doctorate Fellow in the Cardiology Section, Department of Medicine, Sahlgrenska University Hospital/Östra Hospital, Gothenburg, Sweden. Presently, he has been working at the Chinese PLA General Hospital in Beijing, China.

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