

急性缺血性中風病患血漿中同半胱胺酸濃度與營養狀態相關性之探討。

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Abstract

The incidence and prevalence of cardiovascular and cerebrovascular diseases have increased in Taiwan. In recent years, epidemiological and clinical studies have found that higher plasma homocysteine (Hcy) and lower plasma vitamin B12, folic acid, and vitamin B6 represent independent risk factors for atherosclerotic vascular disease. Consequently, nutrition status is highly correlated with the occurrence of atherosclerotic vascular disease. The specific aim of this study was to elucidate the association of nutrition status, plasma homocysteine, and vitamins, with the risk of carotid atherosclerosis among elderly people. In total, 155 inpatients from Wang-Fang hospital and 153 age and sex-matched healthy community dwelling controls aged from 45 to 80 years were recruited as study subjects. Fasting venous blood from all subjects was examined for basic biochemical parameters including glucose, total protein, globulin, albumin, creatinine, AST, and ALT in serum. The lipid profile including total cholesterol, high-density lipoprotein cholesterol (HDL-C), low-density lipoprotein cholesterol (LDL-C), and triglyceride was also examined. Plasma Hcy, vitamin B12, folic acid, and vitamin B6 were determined. Carotid intimal-media wall thickness (IMT), a marker of atherosclerosis, was also evaluated in all. There were no significant differences in plasma homocysteine levels between patients and healthy controls. A significant inverse correlation between plasma vitamin B12 and homocysteine was observed. In addition, the level of plasma vitamin B12 of patients was higher than that of healthy controls.