Relationship between hyperuricemia and cardiovascular diseases

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To investigate the relationship between hyperuricemia and cardiovascular disease. Methods: A total of 287 healthy people were enrolled as control group, 439 patients with simple hyperuricemia were enrolled as observation group 1, 397 patients with hyperuricemia complicated with elevated C-reactive protein as observation group 2, incidence of hypertension and coronary heart disease of the three groups were observed and compared. Besides, incidence of abnormal urine acid level was compared between 98 patients with primary hypertension and 74 cases with secondary hypertension. Results: There were significant differences in the incidence of hypertension and coronary heart disease among the three groups. Besides, incidence of abnormal urine acid level in 98 patients with primary hypertension and 74 cases with secondary hypertension was 84.6%, 25.6%, respectively, showing significant difference between the two groups. Conclusions: Hyperuricemia, particularly complicated with hypertension or elevated C-reactive protein, was correlated with coronary heart disease, elevated uric acid level is an independent risk factor for the occurrence of primary hypertension.

[KEY WORDS] Uric acid; C-reactive protein; Cardiovascular disease