Change of type B natriuretic peptide in hyperthyroidism patients

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

[ABSTRACT] Objective: To explore change of type B natriuretic peptide (BNP) in hyperthyroidism patients with cardiac insufficiency. Methods: With 48 persons with euthyroidism as normal control, BNP level of 66 cases with hyperthyroidism and cardiac insufficiency was measured before and after treatment by ELISA, and the relationship between BNP and FT3 & FT4 was also analyzed. Results: BNP level of hyperthyreosis patients was significantly higher than normal persons before treatment ($P<0.01$). After 8 weeks of treatment, BNP, FT3 and FT4 significantly decreased in hyperthyreosis patients. And the decrease in BNP was positively related with decrease in FT3 and FT4. Conclusions: BNP is increased in patients with hyperthyroidism and cardiac insufficiency, which is associated with simulation of thyroid hormone to myocardium. After treatment, BNP comes back to normal level as the decrease of thyroid hormone.

[KEY WORDS] Hyperthyroidism; B type natriuretic peptide; Cardiac insufficiency