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Sera Brain Natriuretic Peptide Concentrations in Patients with Hyperthyroidism and Hypothyroidism in Babylon Governorate, Iraqi

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Abstract: The thyroid gland is an endocrine gland that is normally positioned in the lower part of the neck. Cardiovascular alteration that coexists with thyroid gland diseases could be triggered off the secretion of brain natriuretic peptide (BNP) from the heart. Serum BNP levels are also affected by thyroid status, which was mostly related to the stimulatory result of thyroid hormone secretion of BNP. Serum BNP, T4 and T3 were determined by ELISA technique. Serum levels of hormone were found to be significantly elevated in hyperthyroidism patients ($p < 0.01$) and significantly decreased in hypothyroidism patients ($p < 0.01$) compared with the control group. The results revealed a significant positive correlation between both of T3, T4 and BNP level in patients with hyperthyroidism, while there was no weighty relation between the corresponding thyroid hormones and BNP level in patients with hypothyroidism.

Keywords : Brain natriuretic peptide (BNP); thyroid diseases.

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