

عنوان مقاله:

The relationships between cortisol levels, insulin levels, and thyroid hormones with ۲۴-h urinary sodium excretion in never treated essential hypertensive patients

محل انتشار:

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خلاصه مقاله:

BACKGROUND: To study the relationship between cortisol, insulin, and thyroid hormone levels with ۲۴-h urinary sodium (Na) excretion levels in essential hypertensive patients. **METHODS:** All patients underwent history taking, physical examination, blood pressure (BP) measurement, ۱۲ lead electrocardiographic evaluation, routine urine analysis, biochemical analysis including measurement of cortisol, insulin, and thyroid hormone levels, ۲۴-h urine collection to measure urinary Na and protein excretion and creatinine clearance. **RESULTS:** In total, ۶۸ newly diagnosed hypertensive patients were included. Spearman correlation analysis revealed that ۲۴-h urinary Na excretion was correlated with insulin levels ($\rho = -0.473$, $P < 0.001$), serum cortisol levels ($\rho = -0.404$, $P = 0.010$) and creatinine clearance ($\rho = 0.407$, $P = 0.010$). Linear regression of independent factors has revealed that systolic BP ($B = 0.004$, $CI = 0.001-0.008$, $P = 0.017$), body mass index ($B = 0.014$, $CI = 0.005-0.023$, $P = 0.003$), being male ($B = 0.077$, $CI = 0.001-0.153$, $P = 0.048$), creatinine clearance ($B = 0.003$, $CI = 0.001-0.006$, $P = 0.012$) and insulin levels ($B = -0.008$, $CI = -0.014$ to -0.002 , $P = 0.007$) were independently related with logarithmically converted ۲۴-h Na excretion. **CONCLUSION:** In conclusion, we found that insulin but not cortisol and thyroid hormone levels were independently related with ۲۴-h urinary Na excretion in newly diagnosed essential hypertensive patients. **Keywords:** Cortisol, Hypertension Insulin, Sodium, Thyroid

کلمات کلیدی:

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