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Evaluation of Brain Derived Neurotrophic Factor (BDNF) hormone levels associated with obesity in some adult men

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Abstract :. Evaluated of BDNF hormone level in some adult's men according to measures of obesity categories.
Methods: The study was conducted in the College of Science for women, University of babylon, Al- Hila, Iraq. Study population involving (98) adult's men at age (20-50 years), the blood samples were taken from subjects at the morning during 8:30-10:30 o'clock for the period at the beginning of November 2015 till April 2016, and used ELIZA kit to assay the serum BDNF hormone level. The population of our study was classified depending on their anthropometric (physical) characteristics which included the body mass index(BMI), body fat percentage, and waist circumference (WC) measurements.
Results: The results showed a significant increase in BDNF level ($p<0.05$) in obese groups according to their anthropometric (physical) characteristics as compared with leaner groups.
Conclusion: The state of anthropometric (physical) measurements which included (BMI, body fat percentage, and WC) which have worked to influence on the level of serum circulating BDNF hormone in population of this study.
Key words: Brain Derived Neurotrophic Factor (BDNF) hormone, obesity, adult men.

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