شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

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بالرسالة صفحات لم ترد بالاصل

Leptin concentration in diabetic and non diabetic Egyptians

Thesis

Submitted in partial Fulfillment of the Requirements of the Degree of Master in Biochemistry

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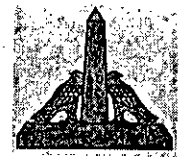

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ABSTRACT

Islam Mohamed Abdel-Mawlaa El-Nahrery - Leptin concentration in diabetic and non diabetic Egyptians - Ain-Shamas-University Faculty of science, Biochemistry department.

Leptin is the product of the obese gene (Ob) which expressed in the adipose tissue. Ob gene was isolated from human adipocyte cDNA library.

This work was designed to study the relationship between obese Egyptians with type II diabetes mellitus, controlled and uncontrolled to determine whether leptin secretion is impaired in diabetic patients and healthy control and to correlate such clinical situations with some biochemical parameters.

Sera of thirty Egyptian healthy controls subjects with no family history of diabetes (15 lean and 15 obese) and another (30) sera of Egyptian patients with non insulin dependant diabetes mellitus (NIDDM), type II (15 controlled and 15 uncontrolled diabetes), were included in this study. Clinical parameters associated with weight, height, age, sex and BMI were done for all subjects and patients. Blood HbA1c and fasting serum levels of FBS, TC, TG, Insulin and leptin were assessed.

It was found that there were a positive correlation between leptin and BMI in both control and diabetic subjects ($r = 0.647$ & $P<0.001$ & $r = 0.467$& $P= 0.009$) respectively. There was a significant increase in the leptin levels in females than that in males in all groups and there was a non-significant correlation between leptin and fasting blood sugar, glycatedhemoglobin, triglecrides and cholesterol ($r = 0.351$ -0.295 & $P>0.05$) in control and diabetic groups and insulin in diabetic groups ($r = 0.247$& $P>0.05$). Whoever, there was a positive correlation between leptin and insulin in control groups ($r = 0.622$ & $P< 0.001$). Comparison of leptin levels indicated that there was no difference in leptin levels between diabetic and control groups. Conclusion the leptin level is higher in females than in males, there is a positively correlated between leptin levels and BMI in all groups and insulin in normal subjects diabetes mellitus (NIDDM) has no effect on serum leptin level in Egyptians.

CONTENT