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About this Journal	Abstract:
Instruction to Authors	Background: Leptin is an
Online Submission	Obesity is associated with
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	obese children. Methods:
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	Keywords:
	Leptin

Medical Sciences

RELATIONSHIP BETWEEN LEPTIN AND INSULIN RESISTANCE IN IRANIAN OBESE CHILDREN

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stract:

ground: Leptin is an adipocyte- derived hormone that plays an important role in the pathogenesis of obesity. sity is associated with insulin resistance and hyperinsulinemia. Insulin resistance is one of the factors which have been gested to affect leptin serum levels. There are few studies evaluating the relation between leptin level and insulin stance in childhood and adolescence obesity. The aim of the present study is to investigate this relationship in Iranian se children. Methods: We screened 13089 primary school students aged 7-12 years. Children were divided to weight and normal based on the recently published National Center for Health Statistics growth charts. The number nildren which were overweight was 498, of whom 347 subjects particiated in the study. Fasting blood glucose, lin and leptin levels were measured and homeostasis model assessment (HOMA) of insulin resistance (HOMA-IR) and ng glucose to insulin ratio (FGIR) were calculated and compared between two groups. Results: Serum leptin levels significantly higher in overweight compared to normal group. (11.58±8.1 and 8.1±5.2 respectively p<0.05). re adjustment for BMI, there was a significant correlation between leptin and fasting insulin, HOMA - IR index and e. (r=0.1, p< 0.05, r=0.1, p<0.01, r=0.07, p<0.05 respectively). After adjustment for BMI, no significant elation was found (r=0.097, p=0.20). Conclusion: The relation between leptin and insulin resistance was weak and ppeared after adjustment for BMI. It seems that many other factors including BMI and total fat amount may affect relationship. Further studies in this field are required.

words:

TUMS ID: 1228

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