

Physical Therapy Department for Cardiopulmonary Disorder and Geriatrics and Its Surgery

**Doctoral Degree
2004**

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Title	:	Serum leptin response following weight reduction program in diabetic and non - diabetic obese women.
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Abstract	:	
<p>Leptin is the protein product of obese (OB) gene in human. the known association between leptin and adiposity , and the suggested role of leptin in the control of body weight , led to the present study which was planned to determine the effect of weight reduction program on serum leptin , insulin , blood glucose levels and lipid profile in diabetic and non diabetic obese women . Samples from 60 obese women were classified into group I (30 diabetic obese women) and group II (30 non-diabetic obese women). Lab. investigations (leptin , insulin , blood glucose and lipid profile levels) were performed 3 times (before the study , after 3 months , and after 6 months) . Both groups were subjected to weight reduction program (diet regime and exercise) for 6 months. Leptin levels were higher (hyperleptinemia) in both groups before the study than after the weight reduction program serum leptin levels were positively correlated with body weight and BMI . This work confirms the other studies which suggested that human obesity is probably due to leptin resistance and that weight reduction program best affecting serum leptin , insulin and lipid profile in both groups .</p>		
Key words	1.	Leptin.
	2.	Obesity.
	3.	Diabetes.
	4.	weight reduction.
	5.	non - diabetic.
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