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The role of Interlukin-6 in metabolic syndrome severity within obese population

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Metabolic syndrome represents as a constellation of interconnected physiological, biochemical, clinical and metabolic risk factors including hypertension, dyslipidemia, central obesity, glucose intolerance, pro-inflammatory and pro-thrombotic states which reflects an underlying insulin resistance and cardiovascular disease. Metabolic syndrome is a chronic low-grade inflammatory state starting from adipose tissue and further recruits' immune cells such as monocyte-macrophages. Adipose tissue has been suggested to be a reservoir for inflammatory cells including monocytes which either migrate to or originate within adipose tissue and release inflammatory bio mediators such as IL-6, TNF α etc. The aim of this study is to find the correlation between inflammatory bio mediator IL-6 with the diagnostic criteria in obese metabolic syndrome patients. A total of the (130) participants were divided into three study groups: women patients group included 50 subjects, men patients group included 40 subjects the control group was 40 composed of 20 healthy women and 20 healthy men. The ages of patients and control ranged 40 to 69 years old. Each patients group was divided into subgroups according to age, BMI, WC. Lipid profile and blood sugar were measured for all subjects. The results revealed significant increase in IL-6 level in serum of MetS patients in compared with control group. While the result indicated there are no significant different in IL-6 between MetS males and females. The study results also demonstrate, there is a significant positive correlation between IL6 and TC, TG, LDL-C, BS levels in MetS patients.

Biography

Shumoos H Alwaid has graduated with a bachelor degree of biology from College of Sciences, completed her MSc at the age of 26 years from Kufa University, College of Sciences and PhD studies from Kufa University, College of Sciences too. She is teaching human physiology at The Islamic University, Collage of Medical Techniques. Her PhD thesis title was "Study the interrelation between some physiological and immunological markers with diagnostic criteria of metabolic syndrome patients".