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Comparison of Perilipin Protein Levels in Obese with Metabolic Syndrome and Obesity Non Metabolic Syndrome

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Abstract : Perilipin is a highly phosphorylated adipocyte protein that is localized on the surface of the lipid droplet, that has a role in controlling access to the lipid lipolytic enzymes and played a role in setting the stroge and mobilization of trigliseride in the adipocytes. Because of the potential importance of adipocyte lipolysis to obesity and increasing perilipin protein in obesity this study aimed to analyze the comparison of protein perilipin levels in obese with metabolic syndrome and obese non metabolic syndrome. The sample population is obese adults, then we examined the weight, height, waist size, blood pressure, laboratory tests such as blood sugar levels and lipid profile of sample population to separate obese with metabolic syndrome and obese non metabolic syndrome. After we determined each group we measured perilipin protein levels in blood in obese with metabolic syndrome and obese non metabolic syndrome by Enzyme Link Immunosorbent Assay (ELISA) method. With statistical analysis using T test found that there was significant difference of perilipin protein levels between obese with metabolic syndrome and obese without metabolic syndrome ($p<0.005$). Perilipin protein levels was higher in obese with metabolic syndrome than obese non metabolic syndrome.
Keywords :Obesity, metabolic syndrome, perilipin, trigliseride.

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