

INTERNATIONAL CONFERENCE ON DIABETES AND CHOLESTEROL METABOLISM  
2<sup>nd</sup> WORLD HEART RHYTHM CONFERENCE  
&  
2<sup>nd</sup> INTERNATIONAL CONFERENCE ON OBESITY AND DIET IMBALANCE  
November 25-26, 2019 | Dubai, UAE

## Study the interrelation between Oxidized Low-Density Lipoprotein (Ox-LDL) with diagnostic criteria of metabolic syndrome patients

Shumoos H Alwaid<sup>1</sup> and Arshad Noori-Aldujaili<sup>2</sup>

<sup>1</sup>Islamic University College, Iraq

<sup>2</sup>University of Kufa, Iraq

Metabolic Syndrome (MetS) is a worldwide distributed public health problem and its incident in increase. MetS is characterized by clustering of several metabolic abnormalities including central (intra-abdominal) obesity, dyslipidemia, hyperglycemia and hypertension. The ultimate importance of this cluster is to identify individuals at high risk of both type-2 diabetes and Cardiovascular Disease (CVD). Oxidized Low-Density Lipoprotein (Ox-LDL) which result from oxidation of LDL cholesterol is an aspect of oxidative stress. The concentration of circulating Ox-LDL has shown relationships with atherosclerotic disease, cardiovascular diseases and some studies indicate Ox-LDL concentrations to be increased in the metabolic syndrome. The aim of the study is to evaluate the serum level of Ox-LDL in MetS patients regarding to metabolic syndrome risk factors, age, gender, body mass index and waist circumference. A total of the (130) participant involved in this study, blood samples had been collected from the (90) MetS patients (50 female and 40 male) and from (40) individuals who were obviously healthy as a control group. The result of the study showed a significant increase in concentration of serum Ox-LDL in MetS patients when compared with healthy group and significant differences of Ox-LDL concentration in serum among different ages groups of Mets female and males population. In regarding to BMI, the result showing significant increase Ox-LDL concentration in morbid and obese weight when compare with over weight in male MetS population. This study also indicated, there is a significant positive correlation among Ox-LDL with T. cholesterol, TG-C, LDL-C and blood sugar while negative correlation with HDL-C in all patients groups.

### Biography

Shumoos H Alwaid has completed her Bachelor of degree in Biology from College of Sciences and MSc and PhD from Kufa University, College of Sciences. She is currently working in teaching field at The Islamic University, College of Medical Techniques.