

Interleukin 6 as inflammatory marker and insulin resistance in obese kuwaiti adolescents

Ibrahim El Bayoumy

Tanta faculty of medicine, Egypt

Abstract

Obesity has become a rapidly growing epidemic in both adults and children. The obesity occurs due to the increased mass of adipose tissue that secretes cytokines like interleukin 6 and production of Tumor Necrotic Factor- α (TNF- α), and the condition is associated with insulin resistance.

Objective: To determine the insulin resistance state and interleukin 6 levels in the serum of obese Kuwait adolescents 13-18 years, and also investigate if there is significant association between interleukin 6 and insulin resistance.

Methods: The study is a cross-sectional study conducted from March 2015 to June 2015 in Kuwait. Obese children were selected randomly in Farwnaiyah Primary health care center and was named the study group compared with 42 adolescents with normal Body Mass Index (BMI) i.e. the control group. The adolescents age 13-18 years, where specimens for fasting blood glucose, fasting insulin levels, Tumor Necrotic Factor- α (TNF- α), Interleukin 6 levels were estimated by Enzyme.

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Biography

Dr Ibrahim El- Bayoumy holds bachelor of medicine and surgery (Tanta faculty of medicine-Egypt, 1989), then he earned his master degree in public health, preventive and social medicine (Tanta faculty of medicine-Egypt 1996), and MD, PhD in public health, preventive and social medicine 2003 from Tanta faculty of medicine-Egypt and McGill faculty of medicine –Montreal -Canada in division of clinical epidemiology in Royal Victoria hospital through double channel system as scholarship from ministry of education-Egypt. He is Full professor of public health and community medicine in Tanta faculty of medicine-Egypt since November 2016. Now he is working in ministry of health in Kuwait as consultant of public health and preventive medicine

Dr El Bayoumy has published many research works in international journals, he is interested in research in epidemiology of infectious diseases like HIV, tuberculosis, brucellosis and infectious hepatitis, he is interested in epidemiology of chronic diseases like diabetes mellitus and its health economics, obesity and cancer and pharmacoepidemiology. He is a reviewer of many national and international journals. He has great interest also in childhood obesity and has written a chapter on childhood obesity in a book published by Nova publishers in USA.

He has obtained post-graduate Master degree in diabetes care and education-Dundee faculty of medicine-Scotland –UK October 2015. He was invited speaker in many international conferences in China, South Korea, Japan, and Hong Kong, Italy and Kuwait.