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Association of plasma resistin level with diabetic nephropathy in Saudi patients

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The adipocyte-hormone, resistin, could contribute to atherosclerosis, obesity and diabetic complications through endothelial dysfunction and is possibly associated with macrophage activation.

Serum resistin and blood biochemical parameters were assayed in the controls, type-2 diabetics with high risk to develop atherosclerosic cardiovascular diseases at King Fahad Medical City.

155 (46.97%) participants were males and 175 (53.03%) were females. Serum resistin level (ng/ul) in the control group was 14.41 \pm 11.5 compared to 18.21 \pm 15.42 in diabetic group (P = 0.07). For type-2 diabetes mellitus it was 18.1 \pm 15.88 whereas in type-1 diabetes mellitus it was 19.1 \pm 12.44. The level of resistin in neuropathy was 17.73 \pm 13.51; nephropathy 22.52 \pm 20.01; retinopathy 20.18 \pm 14.83; cardiopathy 20.09 + 16.97; hyperlipidemia 16.65 \pm 15/64 and hypertension 20.35 \pm 17.9. When body-mass index was more than 29, resistin correlated with age, DM-duration, creatinine, CKMB and T4 while there was no correlation with vitamin D.

Hence a slight increase in resistin level in diabetics compared to controls was shown. In nephropathy the level of resistin was higher than other diabetic complications. On the other hand blood urea and creatinine levels that usually detect renal dysfunction when increased, showed significant correlation with resistin level and proinflammatory adipokines and hence resistin increase in diabetes may indicate renal dysfunction too.

Biography

Gwiria Satti completed her Ph.D. from Leeds University, Biochemistry 1987. She was teaching Biochemistry to medical students, University of Khartoum for 21 years, at King Faisal, Dammam, Saudi Arabia for 8.5 years and for the last 6 years, at KFMC, King Saud bin-Abdulaziz-University for Health Sciences, Riyadh-KSA. Satti was a P.I. for a Malaria project in the Sudan between 1991 and 1998 in collaboration with staff from University of Copenhagen and ICAPB, Edinburgh. Only recently research opportunities are given to the staff of KFMC. She reviewed 2 projects for King-Abdulaziz-City for Science-and-Technology (KACST) last year.

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