



Insulin resistance or genetic polymorphism, the hidden secret of nonalcoholic fatty liver disease

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ABSTRACT:

Background:

Insulin resistance is considered as the major contributor for the development of NAFLD, but it is evident that genetic polymorphism also contribute for the development of necroinflammation and subsequent progression of disease. This study was aimed to compare the effect of insulin resistance and genetic polymorphism on the development of nonalcoholic fatty liver disease.

Materials and methods:

Forty-seven subjects with NAFLD and thirty four controls were selected for the study after ultrasonography of eighty one consecutive apparently healthy subjects. Anthropometric profile [body mass index (BMI), waist circumference (WC) etc.], lipid profile, hepatic aminotransferases, fasting blood glucose (FBG), were recorded and value of homeostasis model assessment of insulin resistance (HOMA-IR) was analysed. PNPLA3 genotyping was also done. To see the association between insulin resistance, and genetic polymorphism with NAFLD was evaluated by multivariate logistic regression analysis after adjusting for potential confounding variables.



Biography:

Mohammed Saiful Islam Bhuiyan has completed his graduation (MBBS) from Chittagong Medical College in 1997 and obtained his MD (Doctor of Medicine) degree from Bangabandhu Sheikh Mujib Medical University, Dhaka, Bangladesh in 2009. He is currently working as an Assistant Professor in the same university. He has presented numbers of scientific papers in different national and international conference including 9th SARCD-2015 in Mysore, India and 23rd WCD-2015 in Vancouver, Canada. He has published 18 papers in different national and international medical journals and he is a Member of Editorial Board of Bangladesh Medical Journal.

Publications:

1. Pemphigus diseases in a tertiary care hospital: epidemiology and clinical profile
2. Rate of Metabolic Syndrome Among Patients with Facial Acanthosis Nigricans.
3. Pattern of Adverse Cutaneous Drug Reactions (ACDR) to Systemic Drugs.
4. International Conference on Psoriasis and Skin Specialists Meeting.
5. Nipah virus infection outbreak with nosocomial and corpse-to-human transmission, Bangladesh.

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