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Paraoxonase activity in metabolic syndrome in Children and Adolescents


Metabolic syndrome (MetS) is a collection of various interrelated risk factors that appear to have an impact as development of atherosclerotic cardiovascular disease (CVDs). Epidemic of childhood and adolescent's obesity has increased interest in the metabolic syndrome (MS) due to the potential projection into adulthood. The prevalence of MS in adolescents has been estimated to be 6.7% in young adults and 4.2% in adolescents. We aimed to study the MetS in children and adolescents with respect to metabolic changes. The international Diabetes Federation criteria were used for the selection of cases. Serum paraoxonase 1 (PON1) activities were measured using spectrophotometer. Statistical analysis was done using MyStat statistical software. Serum PON1 arylesterase (ARE) and lactonase (LACT) activities were found to be reduced significantly in patients with MetS than in controls. Regression analysis showed a significant correlation between

PON1 activities and body mass index. Area under curve (AUC) found to increase from HDL to PON1 ARE to PON1 LACT. From the present study, it is clear that in children and adolescents, reduction in PON1 activities in MetS is mainly due either to abnormalities with synthesis or secretion of HDL cholesterol or oxidative stress as a consequence of excess production of the free radicals. This study also iterates that it is the quality and not the quantity of HDL cholesterol which is important while studying the pathophysiology of MetS.

Speaker Biography

Mohit Vijay Rojekar has completed his MD from SRTR Govt Medical College, Ambajogai, India. Now he is Associate Professor in the Dept of Biochemistry at Rajiv Gandhi Medical College and director of the Central Clinical Biochemistry Lab at Chhatrapati Shivaji Maharaj Hospital. He has to his credit more than 20 publications in various national and international journals. He is on editorial and advisory board of many reputed international journals. He also serves on reviewer boards of many well-known reputed international journals.

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