

STUDY OF GENDER DIFFERENCES IN LIPIDS PROFILE AND APO B-100 IN APPARENTLY HEALTHY INDIVIDUALS AND DIABETIC/HYPERTENSIVE PATIENT IN KEBBI STATE

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ABSTRACT

This study was carried out to assess gender differences in lipid Profile and Apo B-100 levels in apparently healthy individuals and Diabetic/hypertensive patients. The investigation was done at Department of chemical pathology Sir Yahaya Memorial Hospital Birnin Kebbi, Kebbi State, Nigeria. One hundred and fifty diabetic/hypertensive patients and one hundred and fifty apparently healthy individuals were studied. The subjects were further divided into apparently healthy females, apparently healthy males, Diabetic/hypertensive females and Diabetic/Hypertensive males groups respectively. Fasting blood samples were analyzed for Apo B-100, total cholesterol (TC), triglycerides (TG), low density lipoprotein cholesterol (LDL-C), high density lipoprotein cholesterol (HDL-C) and glucose. The lipid profile of apparently healthy females was compared with the lipid profile of apparently healthy males and was observed that HDL-C levels were significantly higher in apparently healthy females compared with the apparently healthy males ($p < 0.05$). The serum triglycerides were significantly raised in apparently healthy males compared with apparently healthy females ($p < 0.05$). Diabetic/hypertensive females had significantly higher levels of LDL-C, TG and Apo B-100 levels as compared with apparently healthy female ($p < 0.05$). Diabetic/hypertensive males had significantly higher levels of TC, LDL-C and Apo B-100 levels than the apparently healthy males ($p < 0.05$). The difference in lipid profile and Apo B-100 profile was no significant between diabetic/Hypertensive females and males. The results revealed that there were gender differences in lipid profile in Diabetic/Hypertensive patient as well as in apparently healthy individuals. Diabetic/Hypertensive individuals have high levels of Apo B-100 as compared with apparently healthy persons in the case of both females and males. However in diabetic females and diabetic males there was no difference in lipid profile and Apo B-100 concentrations.

KEYWORDS: Apolipoprotein B-100, CHD, CAD, HDL-C, LDL-C, Lipids, T

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