

Conclusion: In conclusion, our findings suggest that the CHADS₂, CHA₂DS₂-VASc, and especially CHA₂DS₂-VASc-HS and CHA₂DS₂-VASc-HSF scores could be considered predictive of the risk of severe CAD. The risk scoring systems may play an important role as predictive models because they are simple and can be easily applied by physicians without any additional costs in routine practice.

Assessment of levels of apolipoproteins in patients of coronary artery diseases

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Introduction: Although abnormal serum Lipid profile has been considered to be an important risk factor for development of Coronary Artery Disease, there are significant numbers of patients who have normal lipid profile and yet develop CAD. Recently Apolipoproteins B, Apolipoproteins A and their ratio have been shown to be better predictor of risk of developing Coronary artery disease as compared to conventional Lipid profile.

Objective: The aim of this study was to assess the levels of Apolipoproteins B and A in patients of CAD with normal lipid profile on lipid lowering therapy.

Materials and Methods: A one year cross sectional study on 1000 patients admitted in KLES Dr.PKH and MRC, Belgaum with history suggestive of Ischemic heart disease. Routine investigations including conventional Lipid profile, apo b and apo a levels and coronary angiography were done for all.

Results: Out of 1000 patients 880 (88%) patients had abnormal apo b / apo a ratio. In these patients normal coronaries were seen in 90 patients whereas 790 had CAD on angiography. Out of 870 patients with normal total cholesterol levels (<200mg%), 780 had abnormal apob/apoa ratio of which 730 (91%) had CAD. Of 690 patients with normal LDL levels (<100 mg), 580 patients had abnormal apob/apoa ratio of which 520 (91%) had CAD. In 460 patients on lipid lowering agents 430 had abnormal apo b/ apo a ratio with all of them (100%) having CAD.

Conclusion: This study ascertains the importance of apolipoproteins b and a and their ratio in relation to CAD. It substantiates the significance of the apob/apoa ratio over conventional lipid profile values for predicting CAD and its severity. Association of Apo B/ Apo A ratio and CAD in patients with history of dyslipidemia on lipid lowering agents was found significant. This study has shown that statins have been effective in lowering LDL, but have not shown commensurate changes in Apo B levels. Measurement of Apo B and Apo A should be added to the routine lipid profile assessment in order to know the atherogenic potential of lipid disorders in a particular case.

Correlation of duration of diabetes with severity of coronary artery disease in patients with type 2 Diabetes Mellitus

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Background: To find out whether there is significant correlation between duration of type 2 diabetes mellitus and severity of coronary artery disease.

Methods: 100, type 2 diabetic and 100 non-diabetic subjects after meeting inclusion and exclusion criteria, admitted with symptoms of acute or chronic coronary syndrome, scheduled to undergo coronary angiogram were taken in this cross sectional study. Risk factors like BMI, hypertension, smoking, fasting sugar, HbA_{1c}, fasting lipid profile, and urine for microalbuminuria were analyzed. Severity of CAD was assessed by syntax score. Pearson coefficient of correlation was used to analyze correlation between the variables. P value of <0.05 will be taken as significant.

Results: BMI, hypertension and smoking were not correlating with severity of coronary artery disease. Biochemical parameters like FBS, urine for microalbuminuria were not correlating with severity of coronary artery disease but TC/HDL-C ratio was significantly correlating with severity of coronary artery disease. (p=0.04). In terms of duration of diabetes and severity of coronary artery disease, It was not correlating but as compared to non-diabetics, diabetics had higher syntax score (p < 0.001) and more numbers of TVD (Triple Vessel Disease, (p < 0.001). Diabetics had more numbers of total occlusion of vessel (p = 0.02), Calcification (0.003), Proximal vessel involvement (p < 0.001), CTO (chronic total occlusion, (p = 0.02) and Diffusely diseased vessels (p < 0.001), as compared to non-diabetics.

Conclusion: In our study except TC/HDL ratio, none of the parameter was statistically significantly associated with severity of coronary artery disease in diabetic population. Duration of diabetes was not correlating with severity of coronary artery disease. Diabetics had more numbers of TVD, Total occlusion of vessel, CTO, proximal vessel involvement, calcification and diffusely diseased vessel.

Factors associated with normal coronary arteries in patients with type 2 Diabetes Mellitus for more than 10 years of duration

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Background: In spite of severe CAD generally associated with diabetes mellitus, some patients remain free of CAD even after many years of treatment for diabetes. Study of risk factors associated with such favorable CAD profile will help in identifying these low risk patients and also to control these factors in diabetic patients.

Methods: A case-control study of 63 patients with type 2 diabetes mellitus who were on treatment for more than 10 years duration and undergoing a coronary angiogram for the evaluation of CAD at a tertiary care hospital were recruited from January 2014 to June 2014. Presence and absence CAD was assessed by syntax score. Clinical history, anthropometric parameters and biochemical parameters were analyzed. IR was determined by Homeostasis model assessment (HOMA-IR). Multiple logistic regression after adjusting for age, sex and other conventional risk factors of CAD for the absence of CAD.

Results: The difference in HOMA-IR (2.27 ± 0.60 VS 3.87 ± 1.64, p < 0.001) and urine microalbumin (15.57 ± 14.51 VS 78.72 ± 119.09, p = 0.004) were statistically significant among those who had CAD when compared to those who did not have CAD. The difference in lipid profile, HbA_{1c}, fasting blood sugar, BMI, Waist hip ratio, waist and hip circumference were not significant. The adjusted