## High prevalence of diabetes dyslipidaemia among young adult onset diabetes subjects in Sri Lanka.

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## **Abstract :**

**Objectives:** South Asians are at increased risk of diabetes and cardiovascular disease (CVD). We aimed to identify the prevalence and patterns of dyslipidaemias among subjects with young adult diabetes in Sri Lanka.

**Methadology:** Data from 1007 consecutive SUbjects(age of onset 16-40 years) attending government and private clinics in Sri Lankawere available. Blood for glucose, total cholesterol (TC), high density lipoprotein cholesterol(HDLC), triglycerides (TG), HBA1Cwas obtained after a 12-14 hour fast. The cut offs for diabetes dyslipidaemias were based on ADAguidelines.

**Results:** Mean age of the population was 36.6 years (SD 5.8) and mean diabetes duration was 4.8 years (SD 4.1). Mean HBA1C was 8 %.High LDLC (>2.6mmol/l), high TG (>1.7mmol) and low HDLC (M<1.03/F<1.29mmol/l) were seen among 74.8% (M 75.5 and F 74.2; p=0.35), 36.7% (M 42.6% vsF 32.5%; p=0.001) and 66.9% (M 49.4, F 79.7; p<0.001) respectively. Any form of dyslipidaemia was seen among 94.2% (M 91.8%, F 96%; p=0.003). HDLC showed a negative correlation (r=-0.162; p=0.01) and TG a positive correlation (r= 0.144; p=0.01) with BM!. The mean LDLCamong the 208 (20.5%) subjects on statins were lower than others; '127.8 (SD 36.8) vs. 144.4 (SD 37.6); p=0.001. Mean HDLCwas and TG were highest in the most physically active group (p=ns) and least physically active groups (p=0.04) respectively. In the multiple logistic regression model Low HDLC and high TGwere independently associated with waist circumference (p<0.001) compared to BMI.

**Conclusions:** There was a high prevalence of diabetes dyslipidaemia among this cohort of young adult diabetic subjects.