SUMMARY

Antiphospholipid antibodies (APLA) are autoantibodies of the IgG, IgM orIgA type, which react with negatively charged phospholipids. They are detected as anticardiolipin antibodies or biological positive tests for syphilis.

They are present in healthy individuals as well as in some patients with history of habitual abortion or in infections and autoimmune disorders.

They are associated with venous and / or arterial thrombosis, recurrent pregnancy loss and thrombocytopenia.

LDL is a type of lipoproteins of density of 1.006 – 1.063 gm/ml. Their receptors were present in tissues, which are responsible for synthesis of steroid hormones.

This work aims at studying ACA and LDLc in patients with history of recurrent abortion (three or more).

Thirty patients with history of habitual abortion (fifteen were pregnant and fifteen were non-pregnant patients) .

Twenty normal females (ten pregnant and ten non-pregnant) with no history of recurrent abortion were chosen as controls.

Patient and controls were subjected to routine investigations then subjected to testing for ACA and LDLc.

ACA-IgG was proved to be positive in 6 out of 15; 40% of pregnant patients (group 1), in 4 out of 15; 26.67% of non-pregnant patients (group 2), non of pregnant controls (group 3) and 2 out of 10; 20% of non-pregnant

control (group 4). Also ACA-IgM was proved to be positive in 3 out of 15; 20% of group 1, 1 out of 15; 6.67% patients of group 2, 2 out of 10; 20% of groups 3 & 4 which are control groups.

LDLc was higher than normal value in 4 out of 15; 26.67% patients of group 1, 1 out of 15; 6.67% of non-pregnant patients but non of the controls.

The current data thus stresses the importance of LDLc and ACA in patients with recurrent abortions. Habitual aborters should be tested for ACA, LDL and VDLR (Venereal Disease Laboratory Research) after the exclusion of birth tract abnormalities and infections.

From the above findings we concluded that, increased level of ACA and LDLc may be associated with habitual abortion especially if it is spontaneous and unexplained.