SUMMARY

This study has been done on postmenopausal women to see effect of Estrogen replacement therapy on Extended Lipid Lipoprotein profile. Postmenopausal women were selected for this study. Then informed consent was taken from each woman.

All patients were divided in two groups. Group A contains 12 natural postmenopausal women who completed the study and Group B contains 11 surgical postmenopausal women who completed the study.

History, clinical examination and lab investigations of these patients were taken. Basal extended lipid lipoprotein profile was sent after 12 hrs. of overnight fasting. Endometrial biopsy was done in Group A. Then Premarin 0.625 mg/day was started and extended lipid lipoprotein profile in both groups and Endometrial biopsy in Group A was repeated after 1 & 3 months of therapy.
1- Serum total cholesterol was significantly decreased in both groups with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.

2- Serum Triglycerides were insignificantly increased in group A with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month while insignificant decrease in group B with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.

3- Low density lipoprotein was significantly decreased in both groups with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.

4- High density lipoprotein was significantly increased in both groups with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.

5- Very Low density lipoprotein was insignificant increase in group A with premarin after 1\textsuperscript{st} and show insignificant decrease after 3\textsuperscript{rd} month while there was insignificant increase in group B with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.

6- Apolipoprotein A\textsubscript{1} was significantly increased in both groups with premarin after 1\textsuperscript{st} and 3\textsuperscript{rd} month.
7- Apolipoprotein B was significantly decreased in both groups with premarin after 1st and 3rd month.

8- Lipoprotein (a) showed significant decrease in both groups with premarin after 1st and 3rd month.

9- There was no effect on uterine Endometrium of premarin in doses of 0.625 mg/day after 1st and 3rd month.

10- There was also no significant effect on blood pressure.

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