1. The effect of surgical menopause on lipoprotein levels and their time course were studied in 75 females.

2. In the present study 45 females of mean age 41.2 ± 16 years (premenopausal - 36 and postmenopausal - 9) were studied who had been undergone hysterectomy (13), with unilateral oopherectomy (10), and bilateral oopherectomy (22). Indications were PVB (12), prolapse uterus (16), bad cervix (9), fibroid (6) and TO mass (2).

3. Overnight fasting serum lipoproteins (STC, LDL, HDL) and STG were measured on the day of operation, 3rd day, 10th day after operation.

4. There was a significant fall on 3rd day in all the lipoprotein fractions in all subjects. Maximum fall of 15% was observed in serum triglyceride levels. This appears to be due to parenteral fat free, low caloric feeding and post operative stress.

5. At 10th day, in premenopausal hysterectomy with bilateral oopherectomy STC, LDL and STG levels rose significantly and crossed the basal values; STC from 176-198 mg%, LDL from 118 to 139 mg%, STG from 103 to 111 mg%. HDL on the contrary fell from 45 to 35 mg%. Similar change of less magnitude was observed in premenopausal unilateral oopherectomy.
6. In postmenopausal females after hysterectomy alone
or with oophorectomy a rise in serum lipoprotein was
observed on the 10th day but was statistically
insignificant from the basal value.

7. Ten patients were followed at one month. It was
observed that 10th day and one month levels were
not statistically significantly different.

8. Thirty females who were studied in previous year
were followed up at 6 month. There was insignificant
alteration in lipoproteins at one month and 6th month
in all the subjects, however, LDL rose significantly
in the 1st month in premenopausal bilateral oopherectomy,
but levels at 1 month and 6 month were not
statistically significantly different.

We suggest that assessment of lipoprotein
profile before and after operation should be an integral
part in every premenopausal women with unilateral or
bilateral oopherectomy. If the induced changes become
abnormal, they should be suitably managed.