CONCLUSION
CONCLUSIONS

Our present study has lead to following conclusions:

1. The blood urea in normal healthy non-pregnant females ranged from 18-33 mg/100 ml with a mean value of 23.88 mg/100 ml ± S.D. 4.43.

2. There is no statistically significant difference in mean blood urea concentration in different age groups.

3. The serum creatinine in healthy non-pregnant females varies from 0.6 - 1.5 mg/100 ml with a mean value of 1.04 mg/100 ml ± S.D. 0.22.

4. Age has no effect on serum creatinine values in non-pregnant females.

5. Serum uric acid in non-pregnant females ranged from 2.6 - 4.2 mg/100 ml with a mean value of 3.28 mg/100 ml ± S.D. 0.51.

6. There was no effect of age on serum uric acid values in non-pregnant females.

7. The blood urea in normal pregnancy ranged from 14-28 mg/100 ml with a mean value of 20.98 mg/100 ml ± S.D. 4.48. This value is less than non-pregnant group and the difference is highly significant.
8. The cord urea level is almost equal to blood urea in normal pregnancy. It ranged from 14 – 26 mg/100 ml with a mean value of 18.28 mg/100 ml ± S.D. 6.04.

9. Serum creatinine levels in normal pregnancy ranged from 0.6 – 2 mg/100 ml with a mean value of 1.26 mg/100 ml ± S.D. 0.44. This value is higher than non-pregnant group but the difference is not much significant.

10. Serum uric acid level in normal pregnancy ranged from 2.6 – 4.2 mg/100 ml with a mean value of 3.29 mg/100 ml ± S.D. 0.46. This value is almost equal to non-pregnant group and there is no significant difference between the values.

11. In normal pregnancy period of gestation and parity has no effect on mean urea levels, mean creatinine levels and mean uric acid levels.

12. Mean cord creatinine levels in normal pregnancy ranged from 0.6 – 2.2 mg/100 ml with a mean value of 1.26 mg/100 ml ± S.D. 0.4 which is similar to maternal creatinine levels in normal pregnancy.

13. Serum uric acid in cord blood of normal deliveries ranged from 2.6 – 4 mg/100 ml with a mean value of 3.34 mg/100 ml ± S.D. 0.41. This value is not significantly different from mean maternal serum uric acid.
14. Parity and age of gestation has no relation with cord blood values in normal pregnancy.

15. Birth weights of the babies born to normal pregnant mothers ranged from 2000 - 3500 gms with a mean value of 2760 gms ± S.D. 380. The mean birth weight was found to increase with the increase in period of gestation.


17. Toxaemia of pregnancy is more common in primipara, in 16 - 25 years age group.

18. Mean blood urea in mild and moderate pre-eclampsia ranged from 18 - 33 mg/100 ml with a mean value of 24.77 mg/100 ml ± S.D. 4.24, in severe pre-eclampsia, from 26-34 mg/100 ml with a mean value of 30.1 mg/100 ml ± S.D. 2.52, in eclampsia it ranged from 29-42 mg/100 ml with a mean value of 35.17 mg/100 ml ± S.D. 4.93.

19. There is highly significant rise in mean maternal blood urea in severe P.E.T. and eclampsia, over normal pregnancy and the rise is less significant in mild and moderate P.E.T. The mean blood urea increases with increase in severity of toxaemia.
20. Mean serum creatinine in mild and moderate P.E.T. ranged from 1 - 2.4 mg/100 ml with a mean value of 1.55 mg/100 ml ± S.D. 0.34, in severe P.E.T. it ranged from 1.2 - 2.5 mg/100 ml with a mean value of 1.85 mg/100 ml ± S.D. 0.43, in eclampsia it ranged from 1.2 - 5 mg/100 ml with a mean value of 2.52 mg/100 ml ± S.D. 0.96. The rise over normal pregnancy is highly significant in severe preeclampsia and eclampsia and not much significant in mild and moderate preeclampsia.

21. Mean serum uric acid in mild and moderate preeclampsia ranged from 2.8 - 5 mg/100 ml with a mean value of 3.47 mg/100 ml ± S.D. 0.71, in severe preeclampsia, 4.14 mg/100 ml ± S.D. 0.86, in eclampsia 4.7 mg/100 ml ± S.D. 0.83. The rise in mild to moderate group is not significant but is highly significant in cases of severe pre-eclampsia and eclampsia.

22. The urea level in cord blood of mild and moderate pre-eclampsia ranged from 18 - 33 mg/100 ml with a mean value of 24.18 mg/100 ml ± S.D. 4.53 in severe pre-eclampsia it ranged from 24-34 mg/100 ml with a mean value of 29.2 mg/100 ml ± S.D. 2.86, in eclampsia it ranged from 28-42 mg/100 ml with a mean value of 34.42 mg/100 ml ± S.D. 4.62. The cord blood urea increased
with severity of toxaemia and the rise over normal pregnant level is highly significant.

23. The creatinine levels in cord blood of mild and moderate pre-eclampsia ranged from 0.9 - 2 mg/100 ml with a mean value of 1.47 mg/100 ml ± S.D. 0.34, in severe pre-eclampsia it ranged from 1 - 2.5 mg/100 ml with a mean value of 1.79 mg/100 ml ± S.D. 0.4 and in eclampsia it ranged from 1.2 - 5 mg/100 ml with a mean value of 2.55 mg/100 ml ± S.D. 0.81. The increase over normal pregnancy is highly significant in cases of severe P.E.T. and eclampsia and not very significant in mild and moderate pre-eclampsia.

24. The uric acid levels in cord blood of mild and moderate pre-eclampsia has mean value of 3.37 mg/100 ml ± S.D. 0.49, in severe pre-eclampsia 3.93 mg/100 ml ± S.D. 0.74 and in eclampsia 4.63 mg/100 ml ± S.D. 0.77. This rise in cord blood uric acid in eclampsia is highly significant and less significant in severe P.E.T. but not significant in mild and moderate P.E.T.

25. The maternal mortality rate in toxaemia of pregnancy was 4.5% and infant mortality rate was 29.5% including 13.6% of still birth rate and the maximum number of death occurred in eclampsia.
26. High maternal blood urea levels of 41 mg/100 ml, creatinine levels of 3.25 mg/100 ml and uric acid levels of 5 mg/100 ml heralds grave prognosis in terms of maternal mortality.

27. Umbilical cord urea levels of 34.28 mg/100 ml, creatinine levels of 3.07 mg/100 ml and uric acid levels of 5.1 mg/100 ml or more are indicative of grave prognosis for infants in terms of mortality.

28. The birth weight of newborn infants in toxemia of pregnancy tends to be decreased with increased severity of toxemia and the umbilical cord urea level increases. Average birth weight in mild and moderate P.E.T. was 2750 gm ± S.D. 230, in severe P.E.T. 2380 ± S.D. 326 and in eclampsia 2050 gm ± S.D. 355 gm.

29. The maternal blood and the cord blood urea, creatinine and uric acid are not related to period of gestation in normal as well as toxemic pregnancy.