SUMMERY AND CONCLUSION

Calprotectin is calcium- and zinc-binding protein complex composed of 8 and 14 kD subunits. These 8 and 14 kD peptides belong to the S100 protein family which is a subfamily of proteins with Ca++-binding motif, EF-hand in each molecule. Calprotectin is released from activated circulating leukocytes.

Pre-eclampsia is a serious complication of pregnancy characterized by maternal hypertension and proteinuria. The etiology of pre-eclampsia is still uncertain, but an insufficient trophoblast invasion into the maternal endometrium (decidua) leading to suboptimal development of the placenta with reduced placenta perfusion is assumed to be a predisposing factor for pre-eclampsia.

The aim of the current study is to investigate whether calprotectin levels in the serum from women with pre-eclampsia differ from that of normotensive pregnant and non pregnant women.

Serum calprotectin was assayed in 20 patients with preeclampsia, 15 normal pregnant control and 10 non pregnant control.

The study revealed that:

 Significant elevation in serum calprotectin level in pre-eclampsia group in comparison with normal pregnant and non pregnant groups.

- Significant decrease in platelet count in pre-eclampsia group in comparison with normal pregnant and non pregnant groups.
- Significant elevation in serum uric acid in pre-eclampsia group in comparison with normal pregnant and non pregnant groups.

In conclusion, the elevated serum calprotectin level found in pre-eclampsia in this study is consistent with findings of leukocyte activation in this disorder. It is thought that calprotectin may play role in the development of pre-eclampsia.