

- The most common medical disorder of pregnancy
- Accounts for ~ 200 000 maternal deaths per year worldwide
- Pre-eclampsia is a multi-system disorder unique to human pregnancy
- Globally hypertensive disorders of pregnancy complicate approximately 5–10 % of pregnancies.
- Incidence of hypertensive disorders in India is found to be 10.08 % as observed through the data collected by the National Eclampsia Registry (NER)
- 76.34 % of the patients were between 21 and 30 years of age
- 81 % of the patients with preeclampsia were primigravid.
- Eclampsia prevalence among registry patients is 1.9 %.

## **Disease of Theories!!!!**

- Abnormal trophoblast invasion • Immunological intolerance • Maladaptation to CV changes of pregnancy • Infection agents similar to those involved in atherosclerosis • Dietary deficiency • Genetic abnormality • Combination of the above
- Pre-eclampsia-Pregnancy complicated by significant hypertension and proteinuria in the second half Eclampsia-Occurrence of convulsions in setting of pre-eclampsia
- Pre-existing hypertension with pregnancy- Pregnancy in a woman known to be hypertensive prior to getting pregnant
- Super-added Pre-eclampsia -Appearance of proteinuria and worsening of hypertension in a setting of pre-existing hypertension

## **The GESTOSIS theory.....**

- Many possibilities have been speculated to give rise to preeclampsia.
- But, the novel and unifying theory about the pathophysiology of preeclampsia which is more convincing is the one originally proposed by Feinberg et al. from USA in 2005.
- It is the GESTOSIS theory which states that there is excess of immune complexes produced because of placental antigenicity which are not cleared by maternal immune system.

Hence, they are deposited in the various endothelial layers causing pro-inflammatory cytokines and oxidative stress. This results in clinical preeclampsia which is inflammatory response of pregnancy

Diagnosis ....

Regular BP monitoring, Urine albumin check up, sudden weight gain, pain in epigastrium, blurring of vision etc..

Investigation - CBC, S. Urea, S. Creatinine, S.LDH, AFP, uE3, PAPA-A, Free bHCG

USG –Doppler for Uterine artery, Ductus Venosus, MCA, Umbilical Artery

Treatment – Antihypertensive 1. Labetalol 2. Methyl dopa. 3. Nifedipine

Management :Eclampsia means delivery...