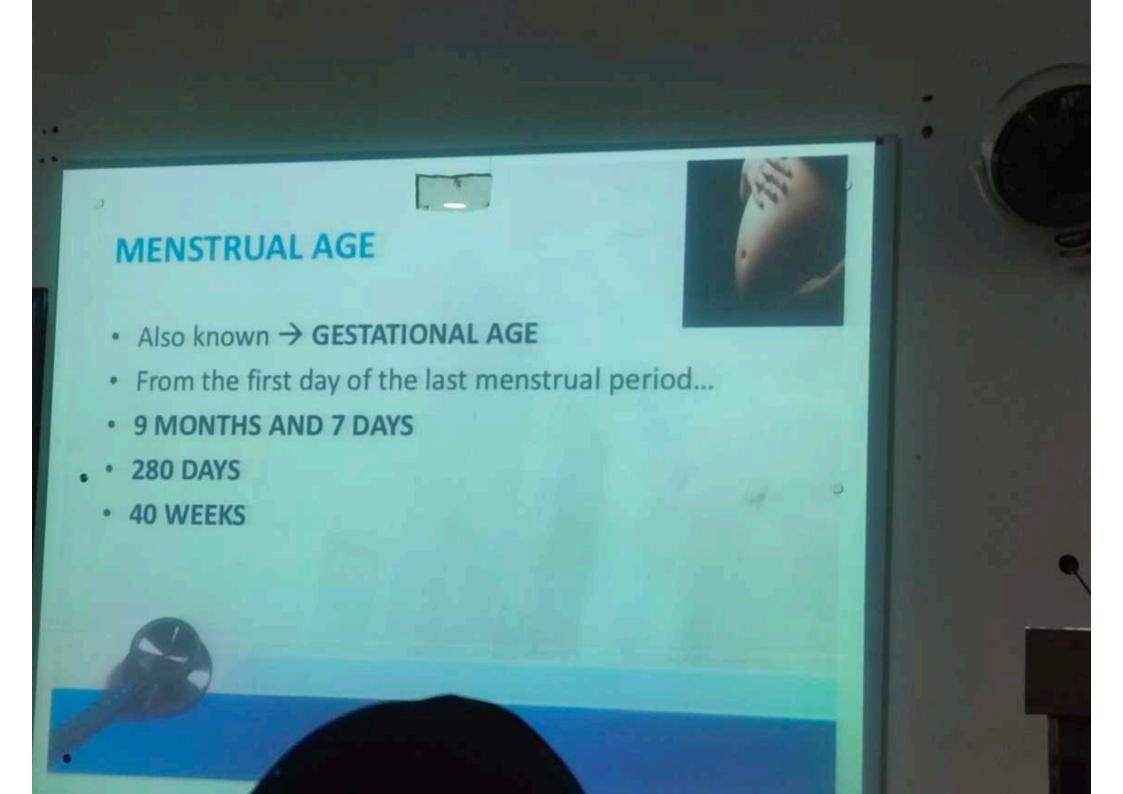
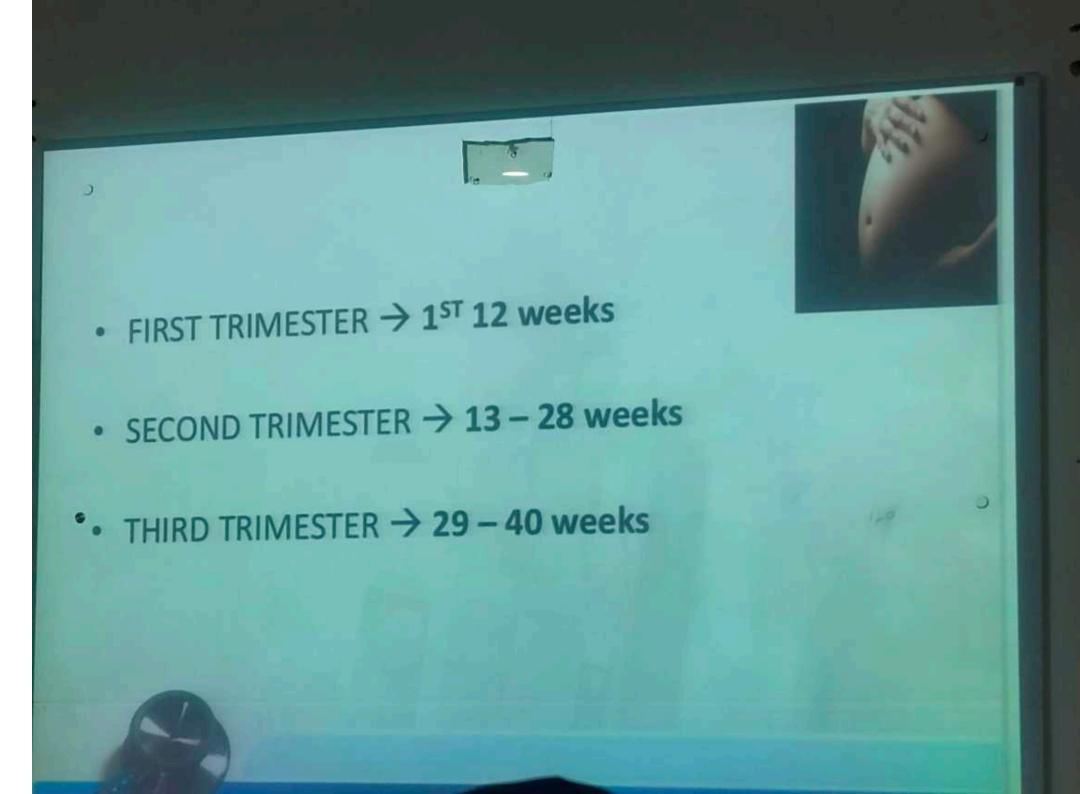


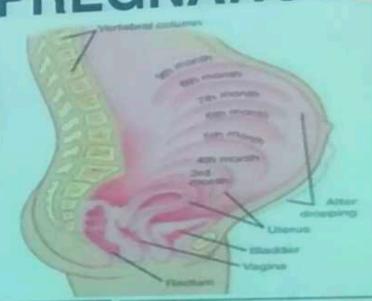
Prof.Dr. Shumaila Zia FCPS,MHPE OBG





DIAGNOSIS THE PREGNANCY

- ❖In first trimester
- ❖In second trimester
- ❖In third trimester









FIRST TRIMESTER (FIRST 12 WEEKS)

❖Subjective Sentence

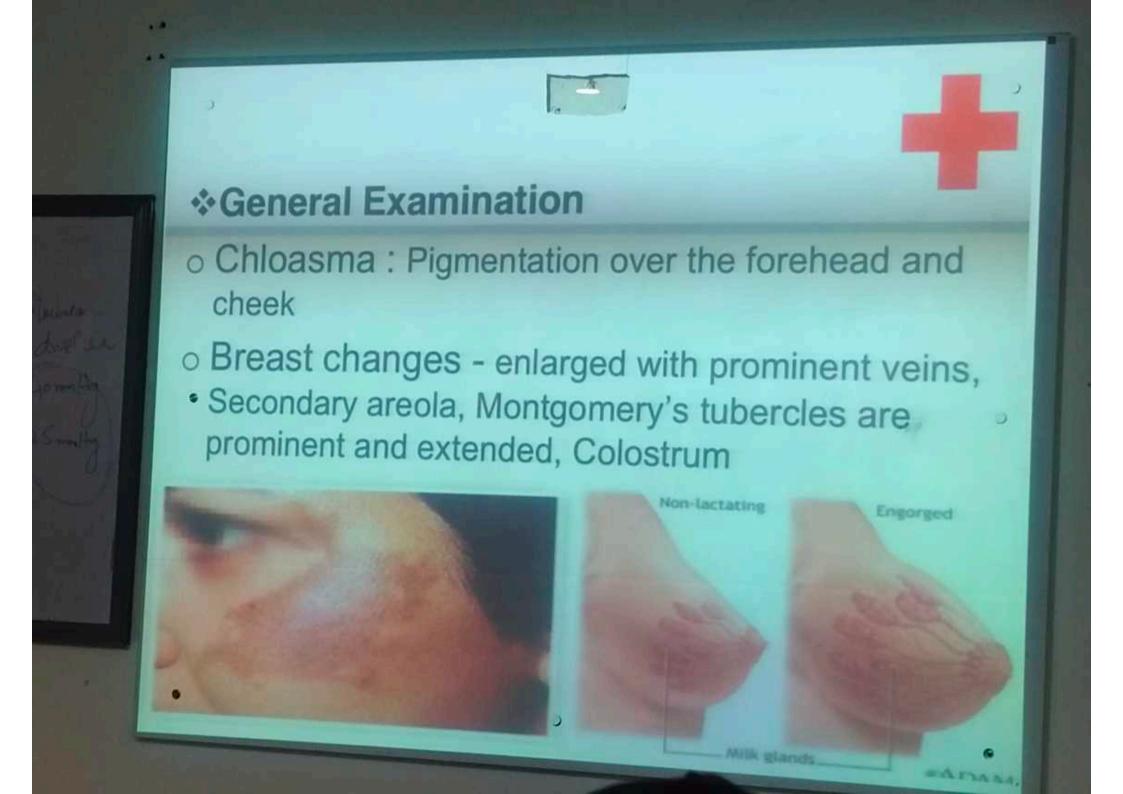
- Amenorrhoea Abrupt cessation of menstruation at 4th week
- Morning sickness (Nausea and vomiting) from
 4th 14th week
 - Frequency of micturition (Bladder irritability)
 - Breast discomfort
 - Fatigue

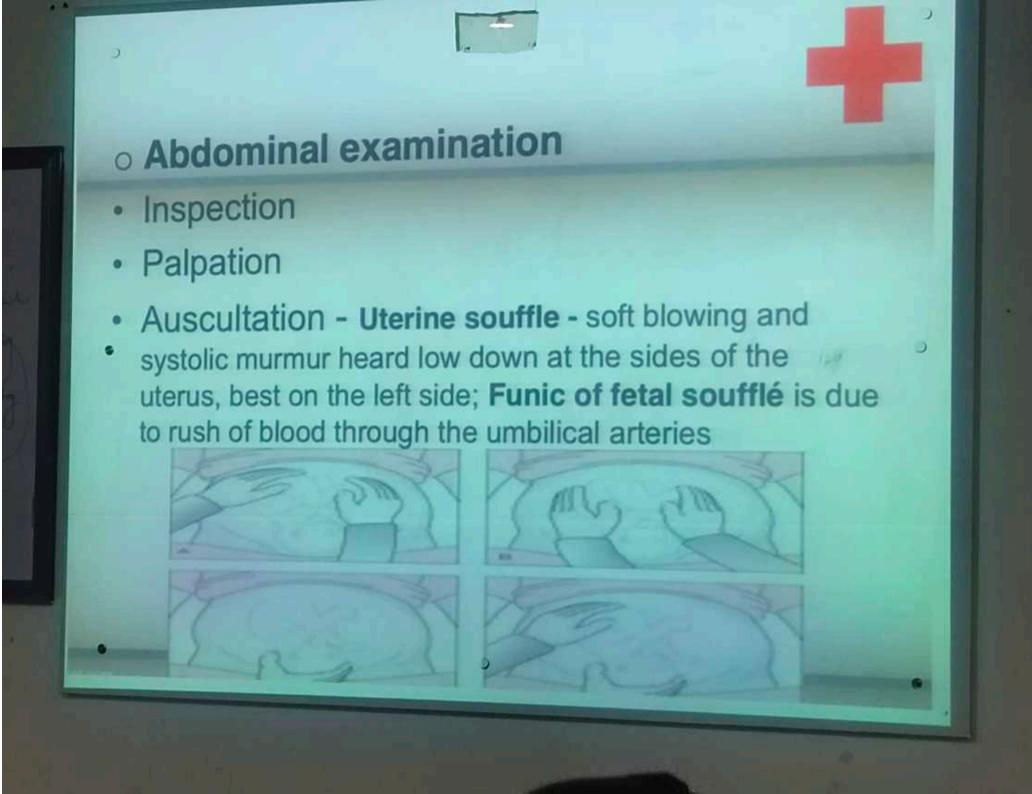




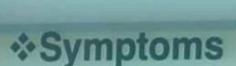
*Symptoms:

- subjective symptoms —such as nausea, vomiting and frequency of micturition usually subside
- Quickening (feeling of life)
- Progressive enlargement of the lower abdomen

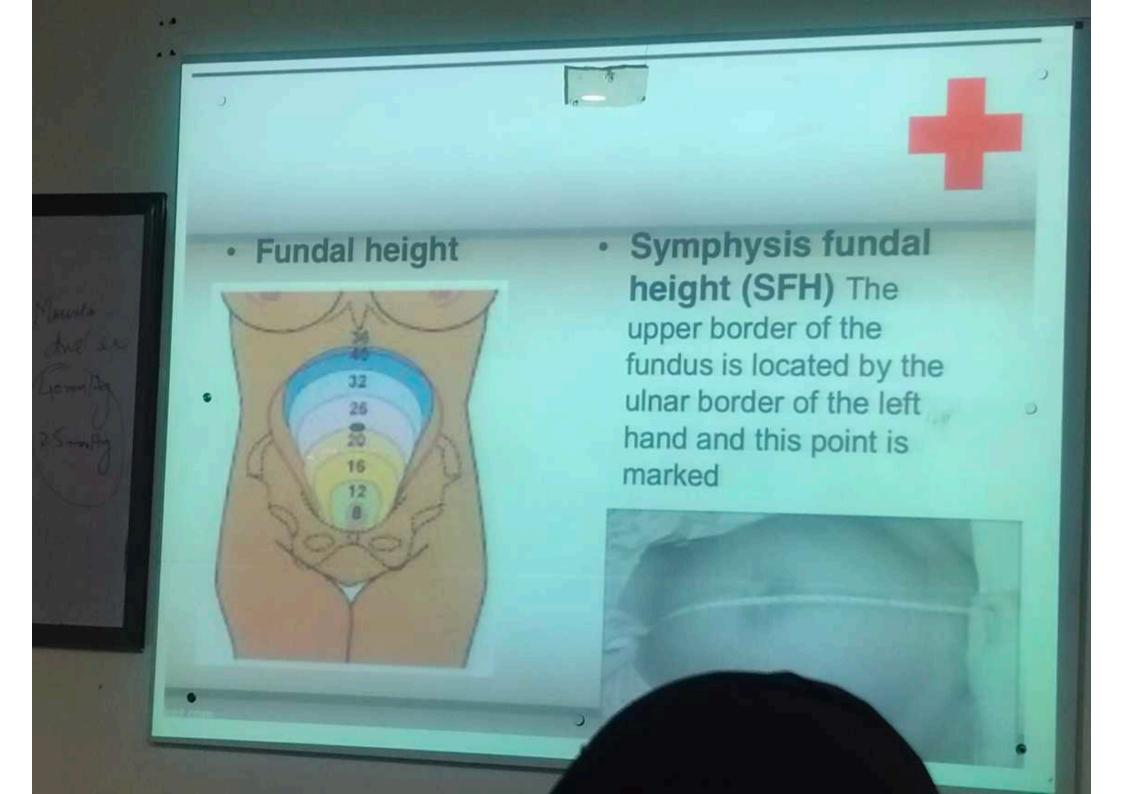


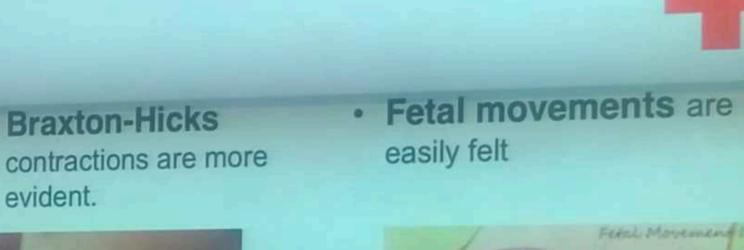






- (1) Amenorrhoea persists
- (2) Enlargement of the abdomen is progressive
- (3) Lightening At about 38th week
- (4) Frequency of micturition
- (5) Fetal movements



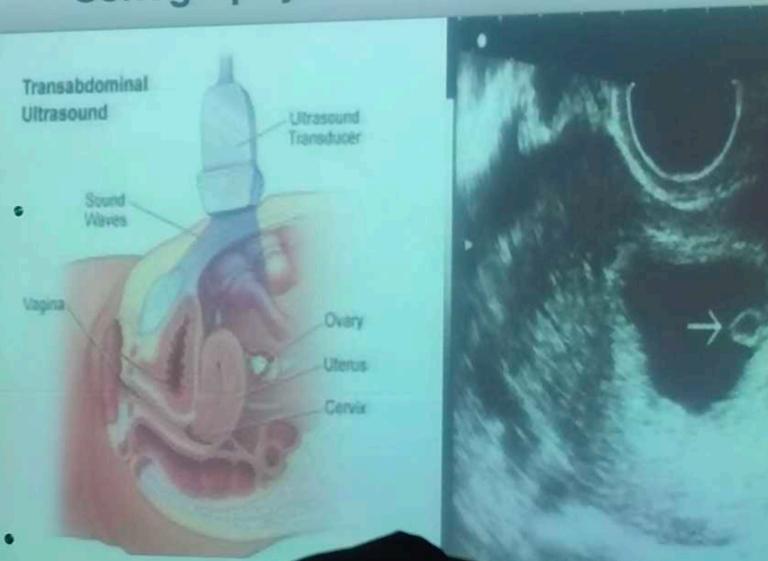




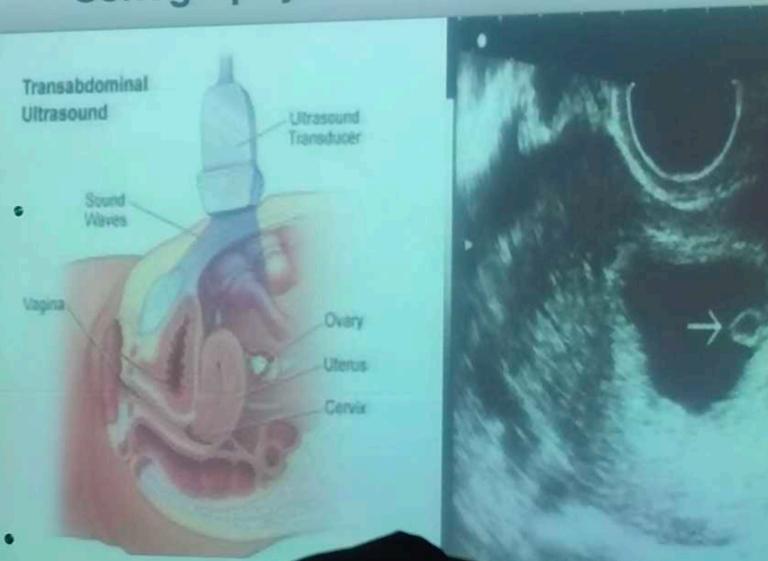
evident.

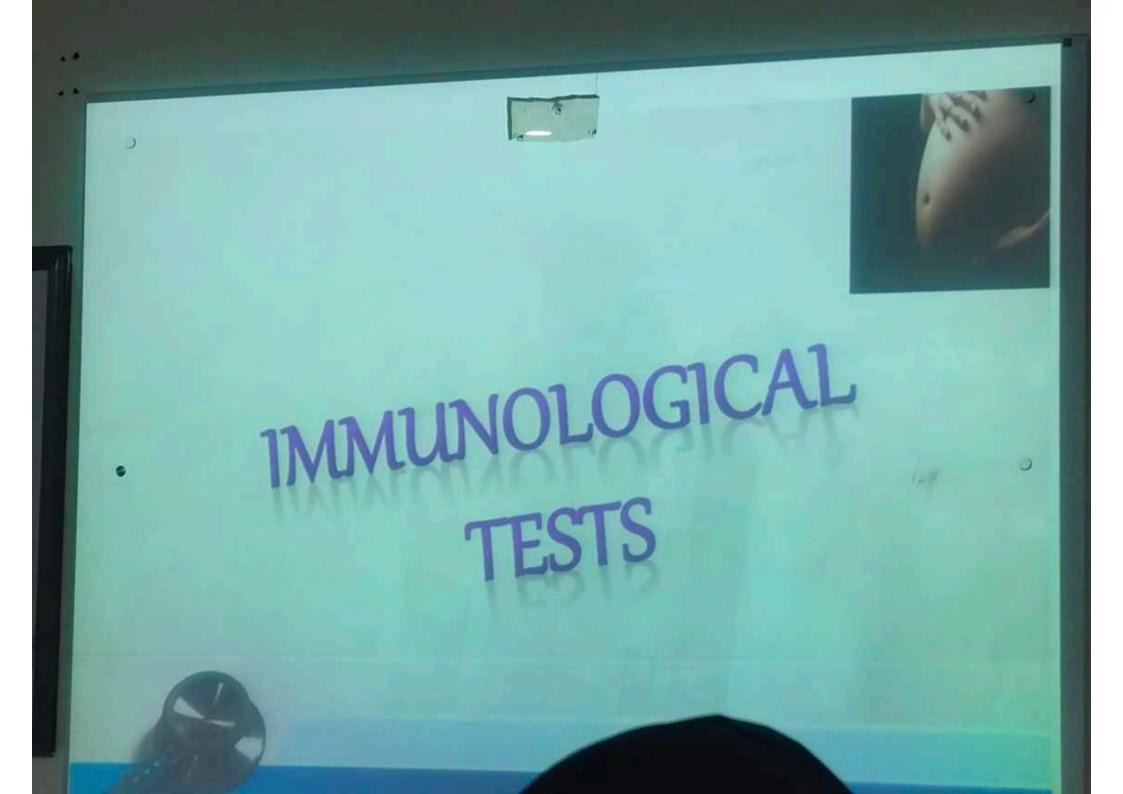


Sonography



Sonography







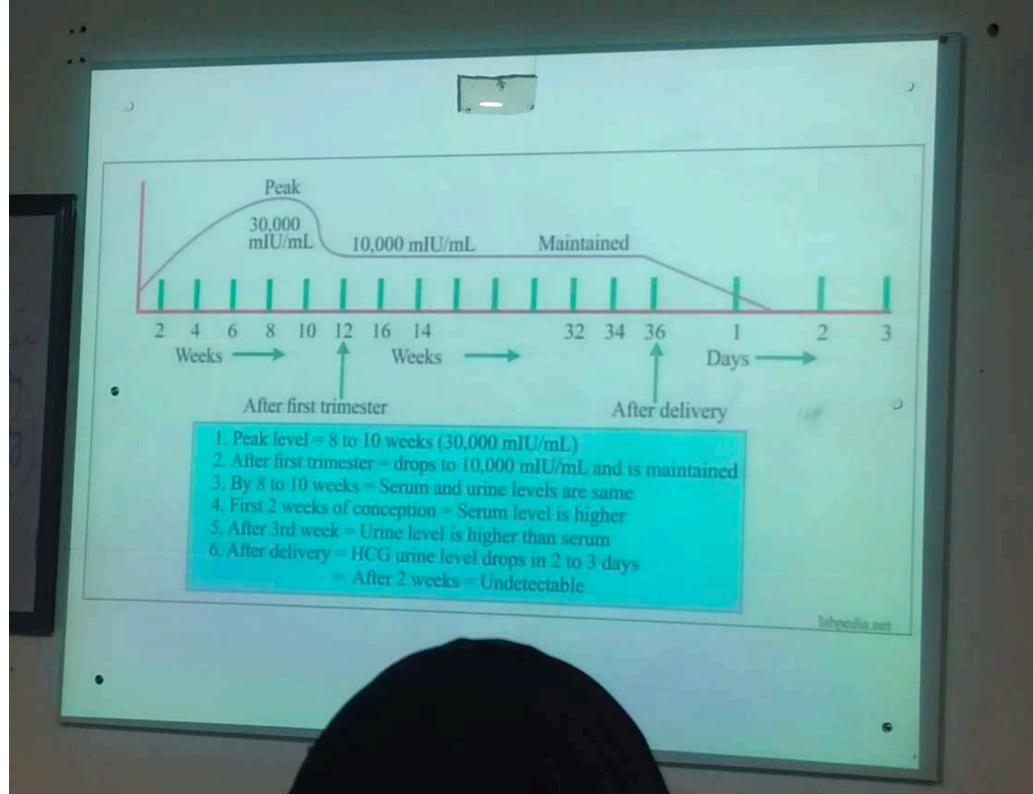
1-Human Chorionic Gonadotropin

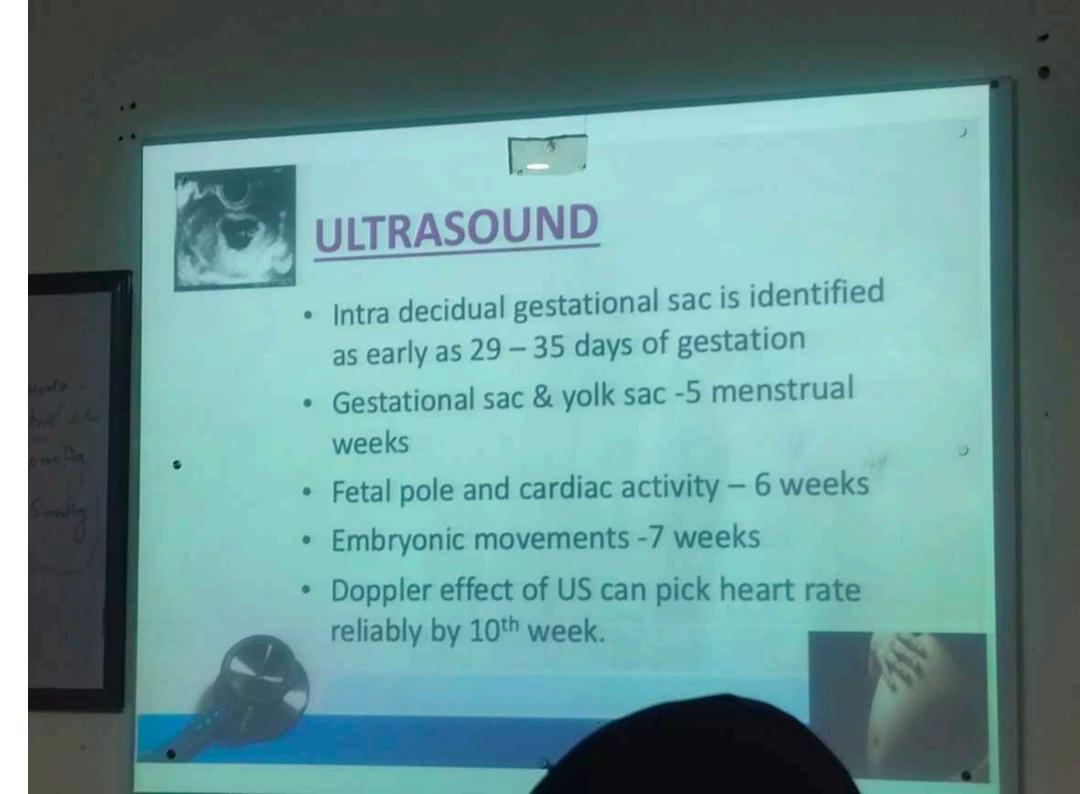
- The hormone human chorionic gonadotropin (better known as HCG) is produced during pregnancy. It is made by cells that form the placenta, which nourishes the egg after it has been fertilized and becomes attached to the uterine wall.
- Levels can first be detected by a blood test about 8 days and about 12 - 14 days after implantation by a urine test.
- In general the HCG levels will double every 72 hours.
 The level will reach its peak in the first 8 11 weeks of
 pregnancy and then will decline and level off for the
 remainder of the pregnancy.

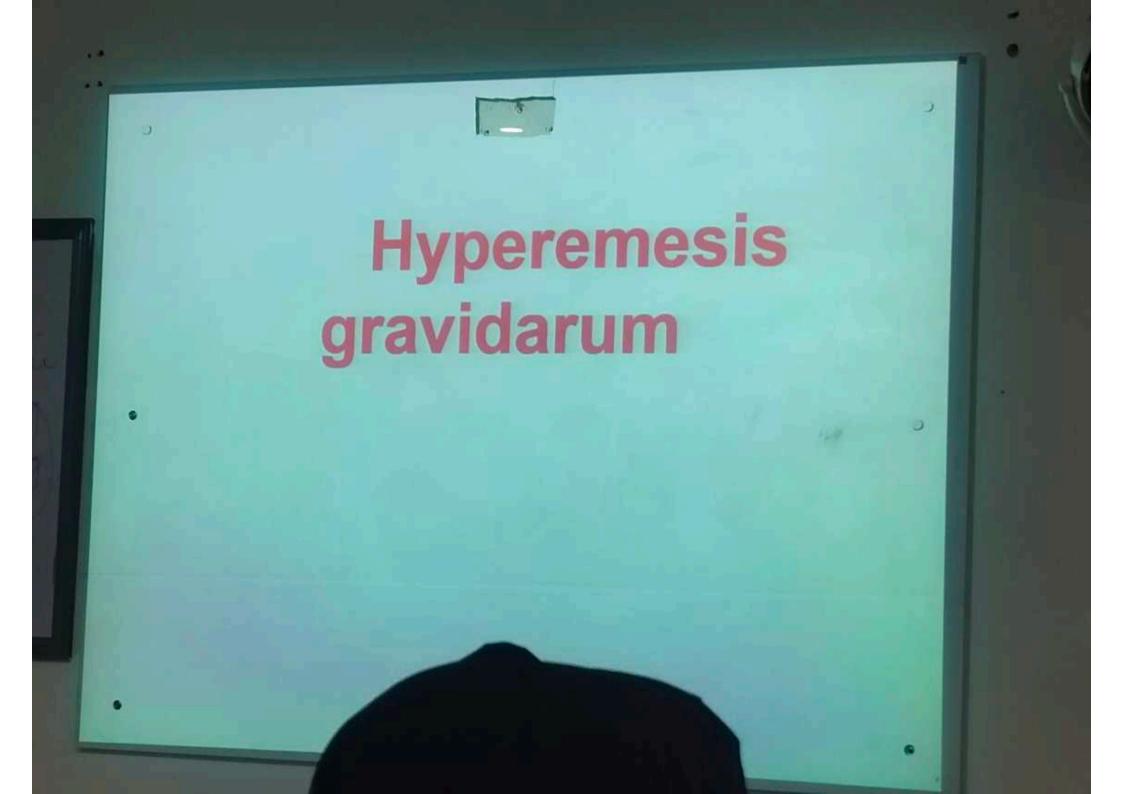
hCG levels during pregnancy (in weeks sincelast menstrual period)	
3 weeks LMP	5 - 50 mIU/ml
4 weeks LMP	5 - 426 mIU/ml
5 weeks LMP	18 - 7,340 mlU/ml
6 weeks LMP	1,080 - 56,500 mIU/mI
7 - 8 weeks LMP	7, 650 - 229,000 mIU/ml
9 - 12 weeks LMP	25,700 - 288,000 mIU/ml
13 - 16 weeks LMP	13,300 - 254,000 mIU/mI
17 - 24 weeks LMP	4,060 - 165,400 mIU/mI
25 - 40 weeks LMP	3,640 - 117,000 mIU/mI
non pregnant	55-200 ng/ml

6.00

4.3







INTRODUCTION

HYPER: EXCESSIVE

EMESIS : VOMIT

GRAVIDARUM : PREGNANCY

- Nausea/vomit of moderate intensity are especially common until about 16 week.
 - * HCG occurs when vomiting becomes intractable in early pregnancy & cause fluid & electrolyte imbalances & nutritional deficiency.
 - * women usually needs to be hospitalized.

RISK FACTORS

- *Age below 17 years and over 35 years
- ❖ Primigravidae
- *Multiple pregnancy
- Underweight and obesity
- *Psychological factors such as unwanted Pregnancy ,marital problems
- *H/O Hyper emesis Gravidarum
- Trophoplastic disease

ETIOLOGY

- · Limited to 1st trimester
- More common in 1st pregnancy
- Tendency to recur again in subsequent pregnancies
- Familial history: Mother and sisters also suffer from the same manifestation
- More prevalent in hydratiform mole and multiple pregnancy
- · Common in unplanned pregnancies

3.DIETARY DEFICIENCY

Probably due to low carbohydrate reserve as it happens after a night without food. Deficiency of vitamin B₁,B₆ & protein may be the effect rather than cause.



Signs:

- Signs of dehydration and ketoacidosis
- Dry coated tongue
- Sunken eyes
- · Acetone smell in breath
- Tachycardia
- Postural hypotension
- Raise in temperature
- Jaundice(later stage)
- Vaginal examination and USG is done to confirm pregnancy

investigation

1. Urinalysis

- · Quantity (too see for oliguria)
- Dark colour (due to concentration)
- · High specific gravity with acid
- reaction
- Presence of acetone, occasional presence of protein and bile pigments
- Diminished or even absence of chloride

diagnosis

- Pregnancy is confirmed first
- Associated causes of vomiting are excluded like Gynecological or Medical or Surgical causes,
- USG –Pregnancy, Hydratiform mole, Multiple pregnancy

complications

NEUROLOGICAL

- 1. Wernicke's encephalopathy due to thiamine deficiency
- 2. Pontine myelinolysis
- 3. Peripheral neuritis
- 4. Psychosis
- 5. Ophthalmic: Retinal haemorrhage
- 6. Convulsions
- 7. Coma

Cont. 4.ECG When there is abnormal serum potassium level

Clinical course

Early:

- · Vomiting throughout day
- Normal day to day activities are disturbed.
- No evidence of dehydration & starvation

Late:

· Evidence of dehydration and arvation

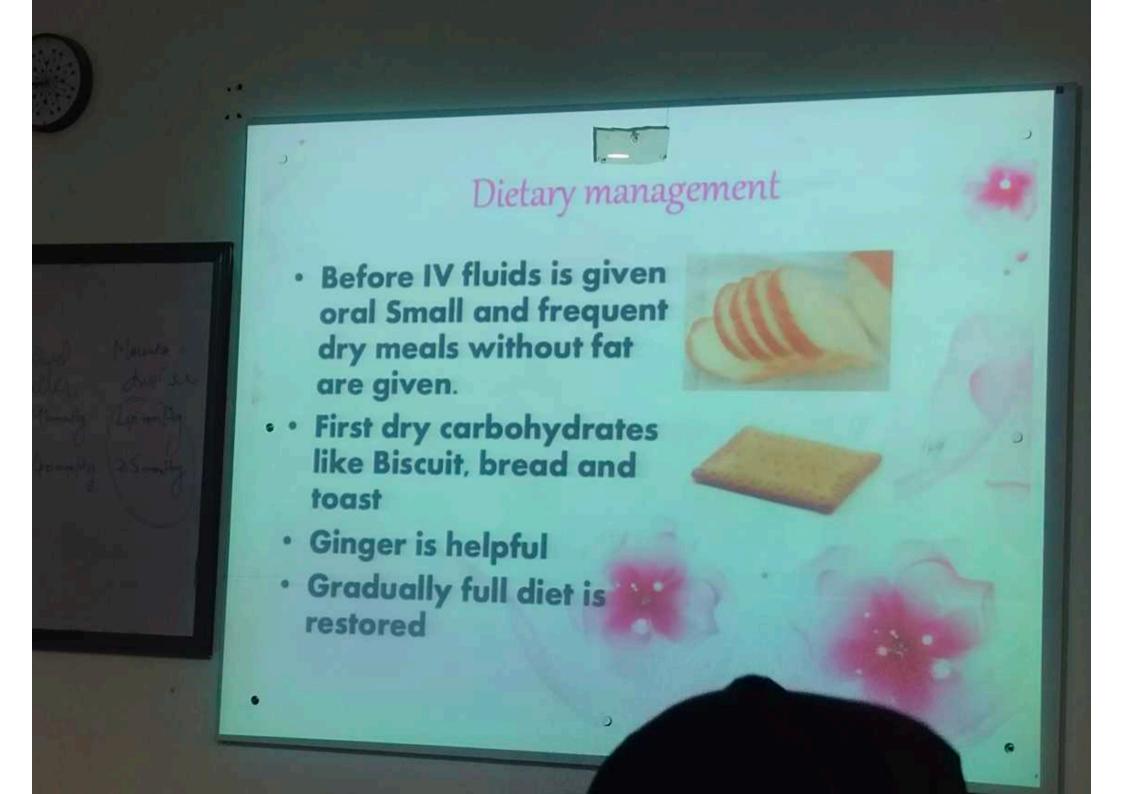
management

Principles:

- · To control vomiting.
- To correct fluid & electrolyte imbalance.
- · To correct metabolic disturbance.
- To prevent serious complications of severe vomiting.

hospitalization

- Admit the patient
- Open IV line and correct fluids
- Send for relevant investigations
- Maintain an intake-output chart
- Monitor urine output (catheterize the patient)
- Monitor the vitals
- Test the urine periodically for ketone bodies



drugs Antiemetic:-Promethazin -25mg IM BD or TDS · Trifluopromazine -10mg IM Metachlopromide- 10mg IM · Hydrocortisone:- 100mg IV in drip Prednisolone orally Nutritional support:-Vitamin B₁, vitamin B₆, . vitamin B₁₂ & vitamin C



- Oral feeding is withheld for at least 24 hours after the cessation of vomiting.
- During this period, fluid given through IV drip method.
- The amount of fluid to be infused in 24 hours is calculated as: total amount of fluid approx.
 3litres, of which half is 5% is dextrose and half is

Ringer's solution.

- Extra amount of 5% dextrose equal to the amount of vomitus and urine in 24 hours, is to be added. These measures help to correct dehydration, electrolyte imbalance and ketoacidosis.
- · Enternal nutrition through nasogastric tube may

prevention The only prevention is to import effective · management to correct simple vomiting of pregnancy.