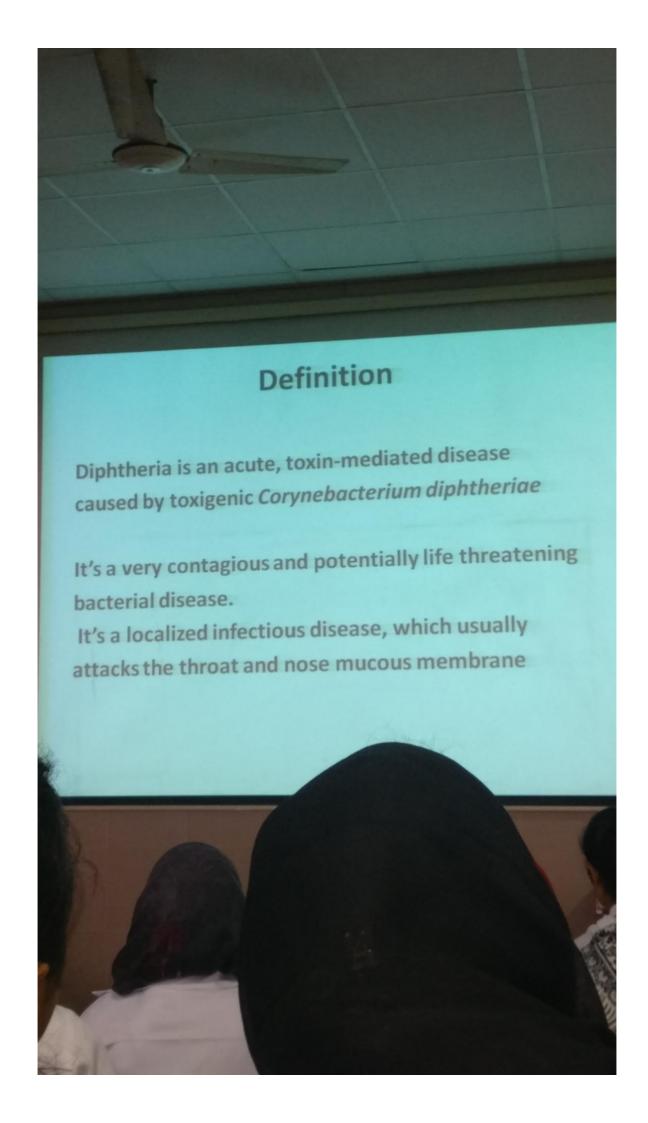


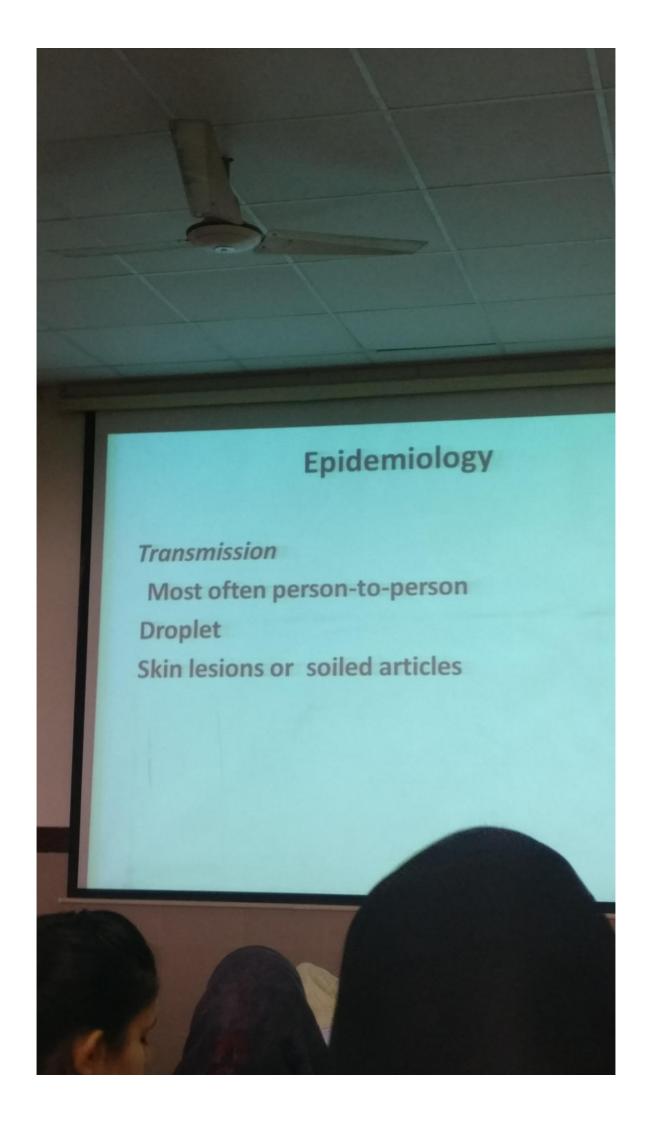


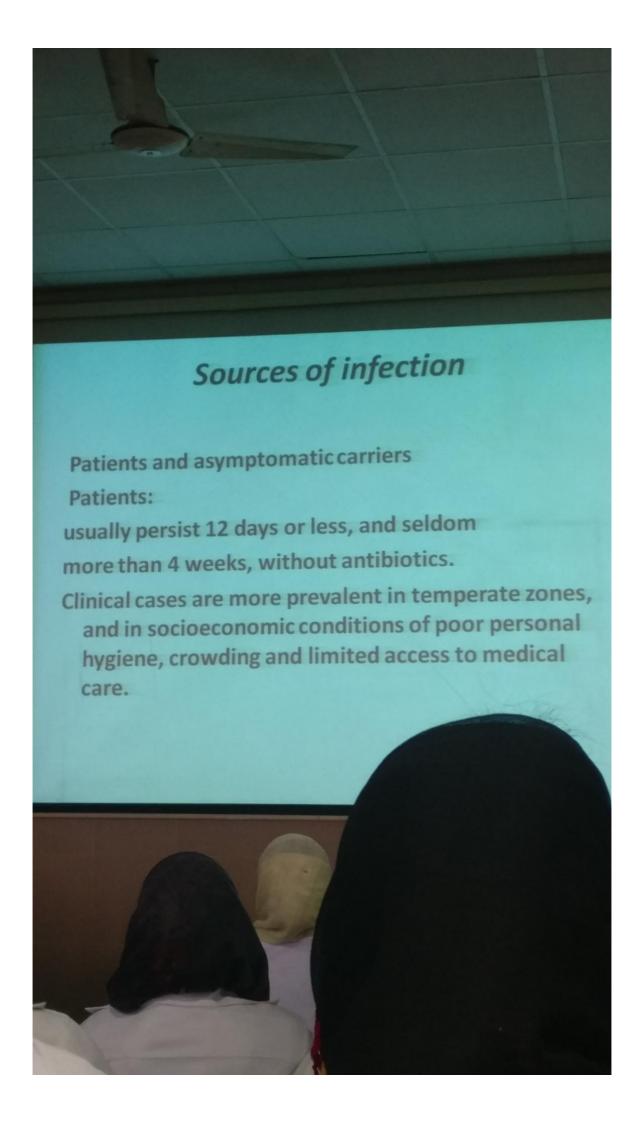
## Diphtheria

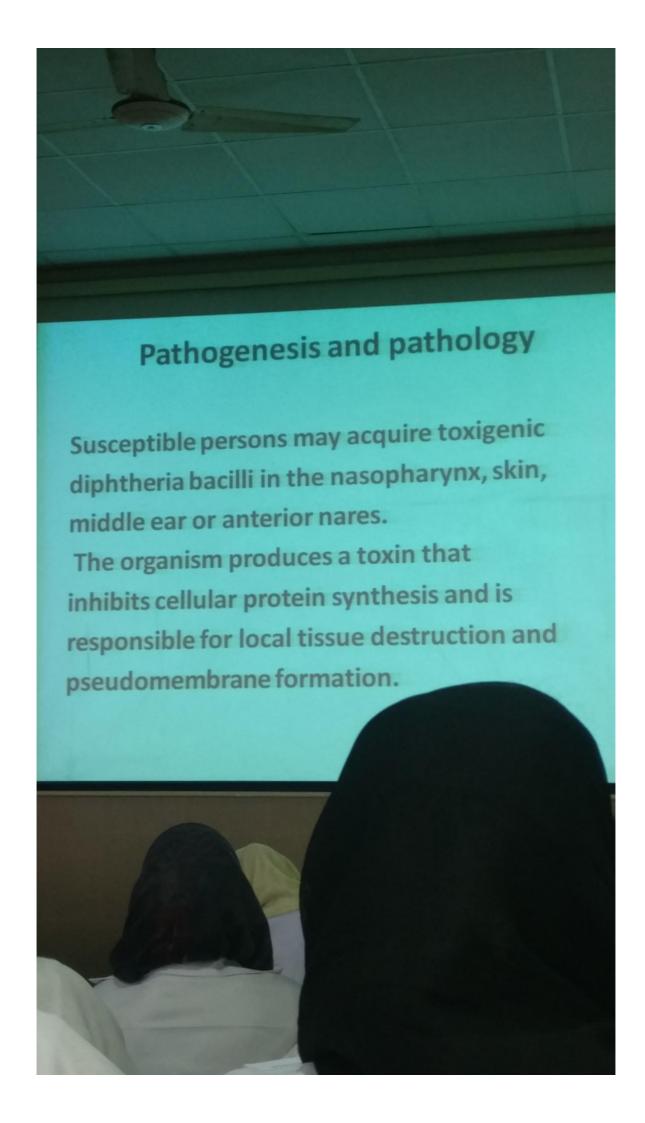
- Learning Objectives:
- a) Know etiology
- b) Describe epidemiology and pathogenesis
- c) Differentiate various types
- d) Plan pertinent investigations, interpret and take appropriate action
- e) Enumerate differential diagnosis
- f) Enlist steps of management plan
- g) Identify complications and know treatment accordingly
- h) Know immunization against diphtheria

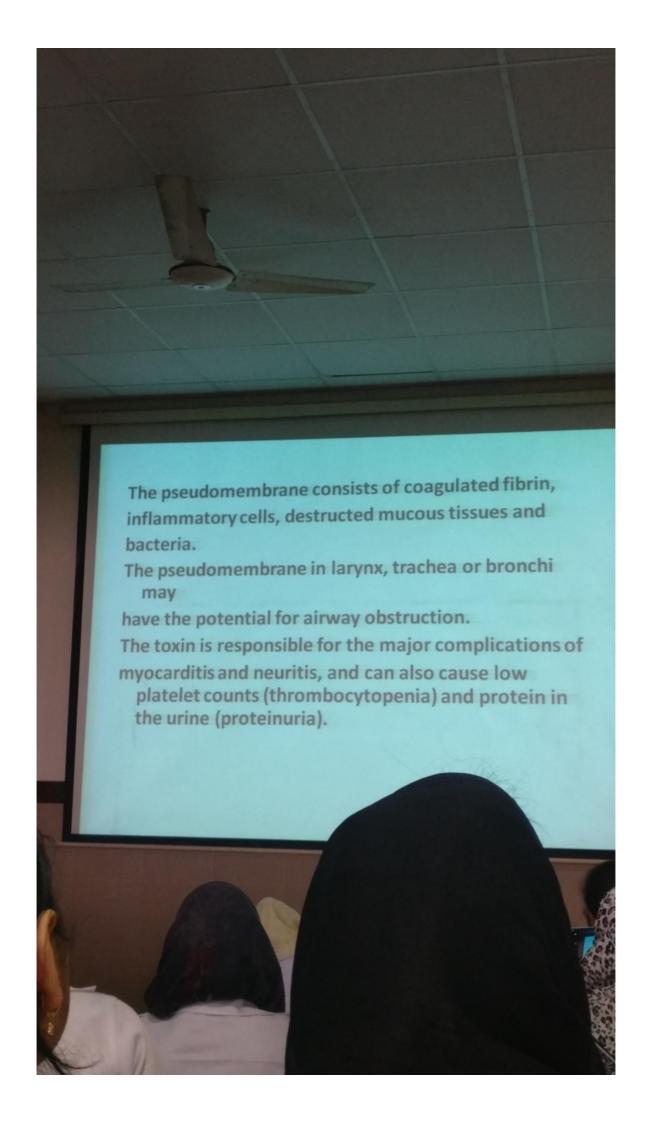


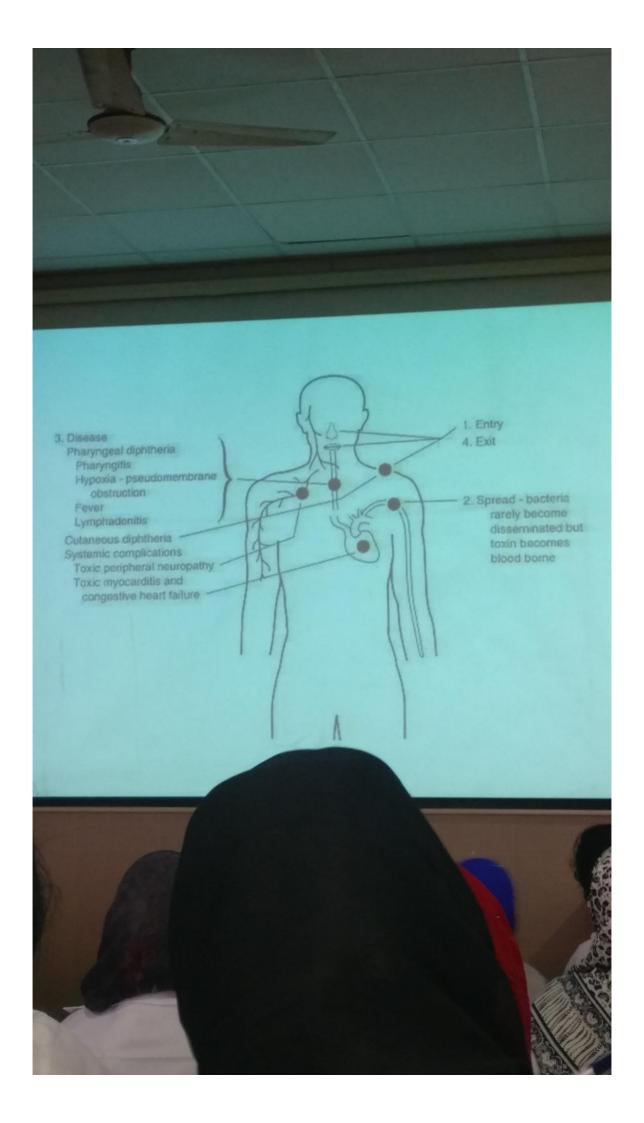


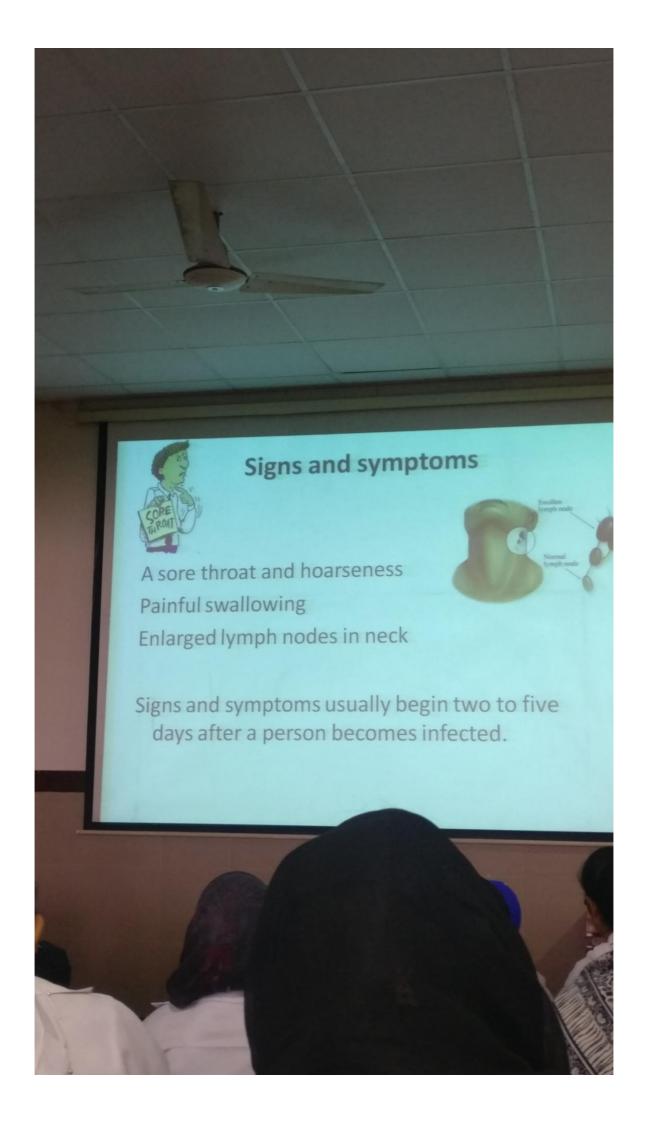


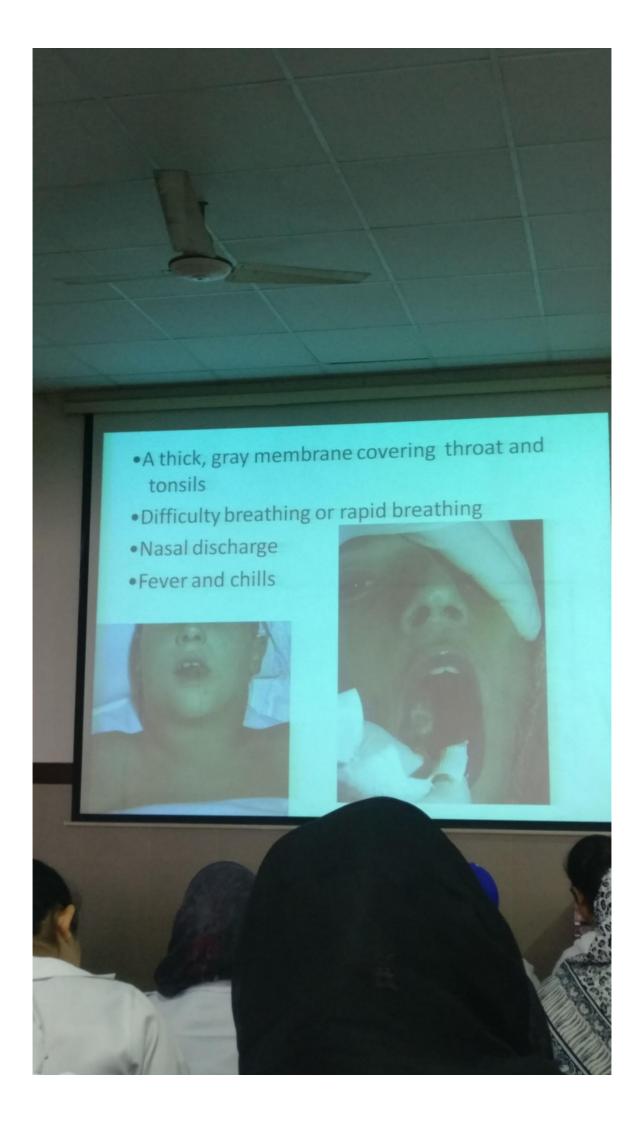


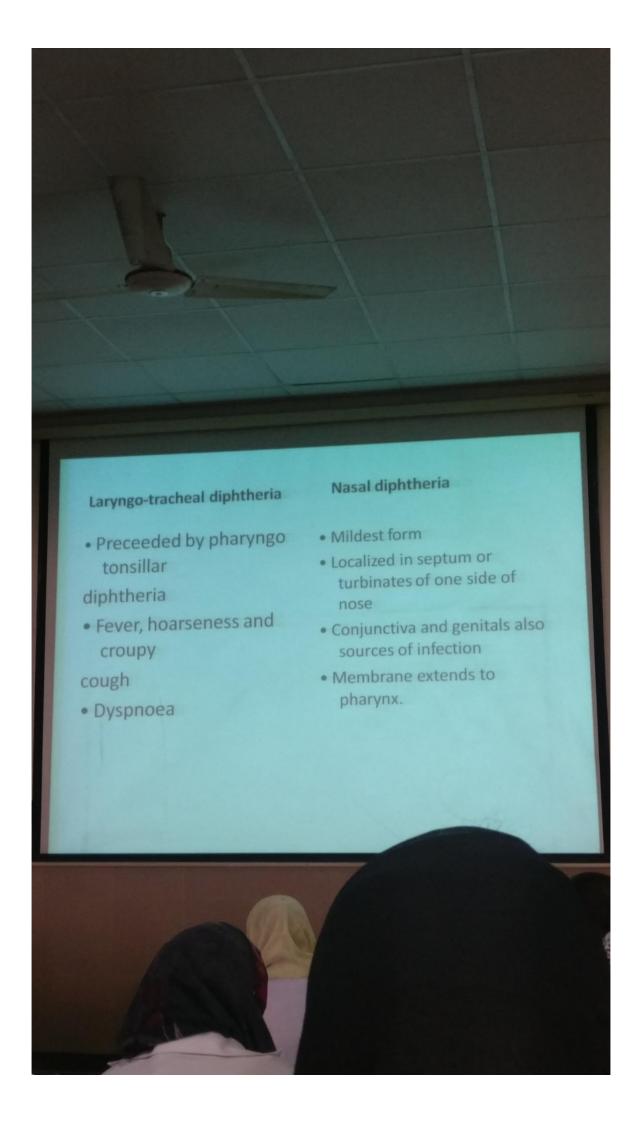




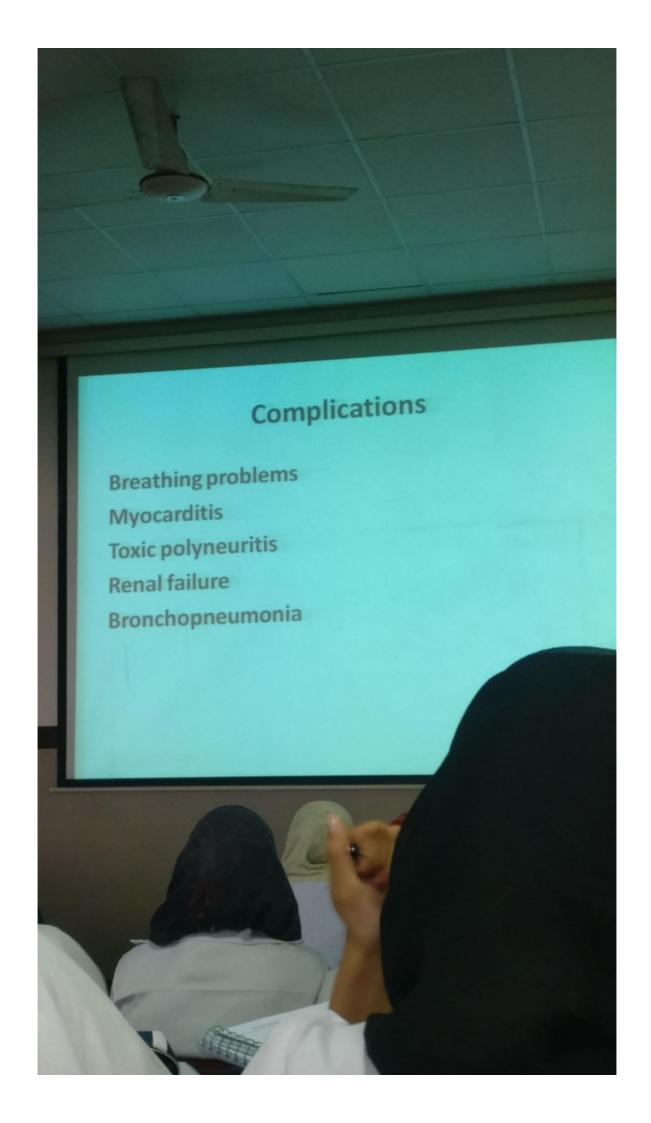


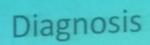








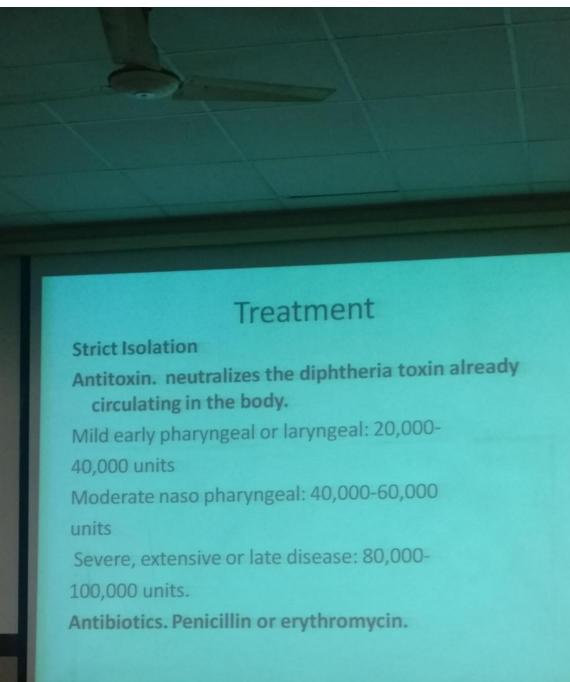




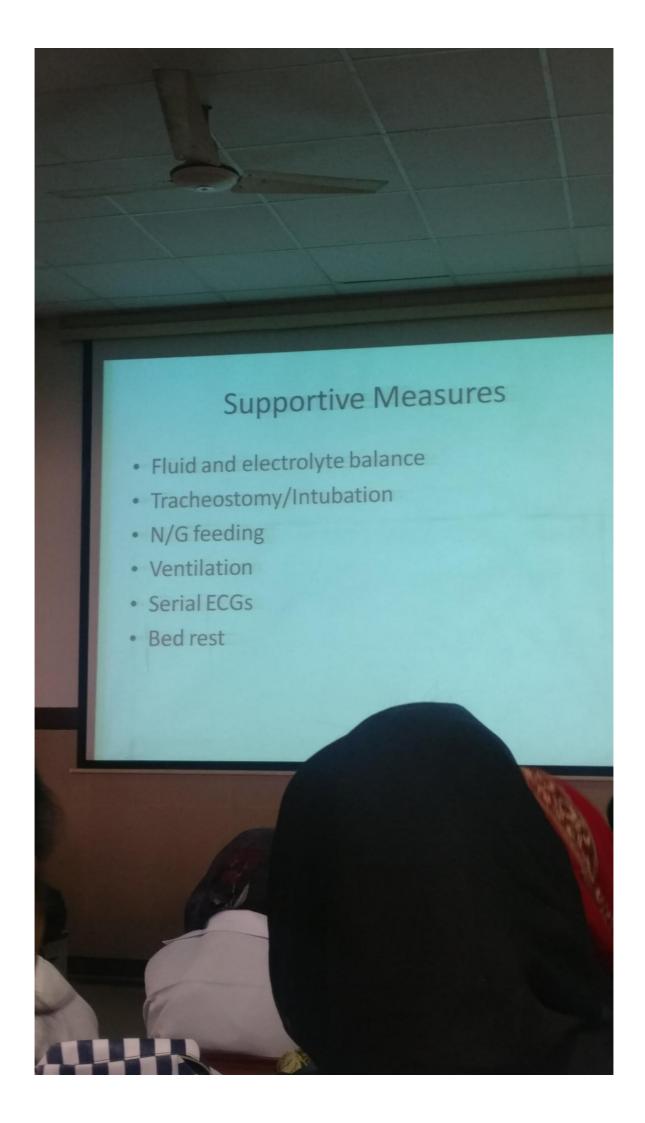
Proper clinical examination, throat culture from the infected area and blood tests

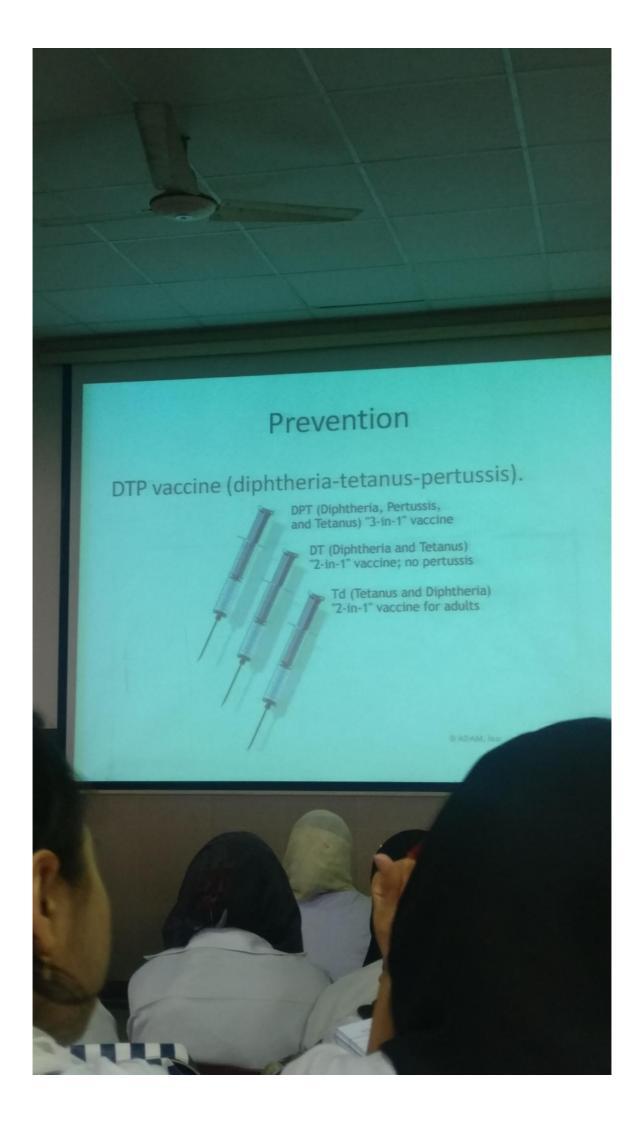
- Gram stain or throat culture to identify Corynebacterium diphtheria.
- ECG

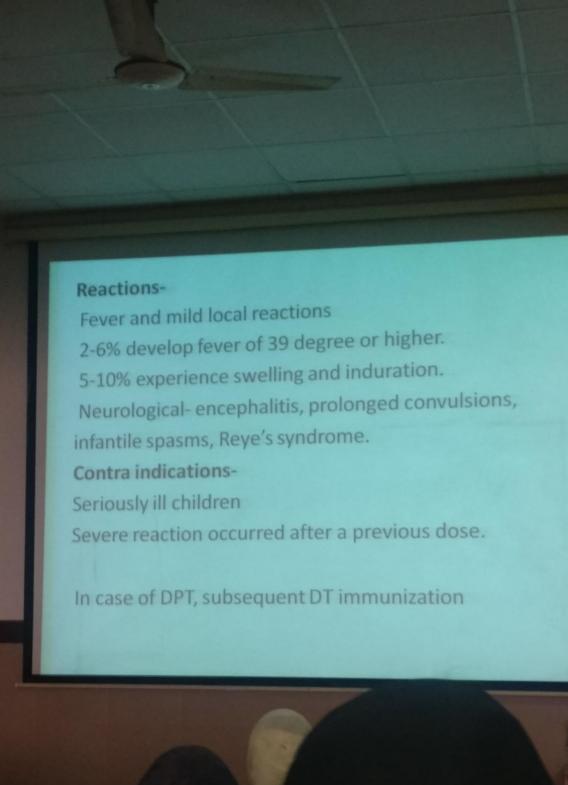


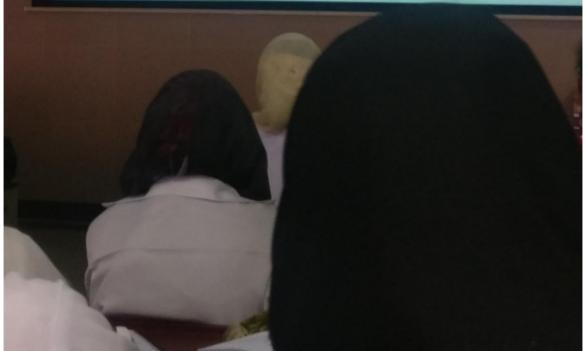


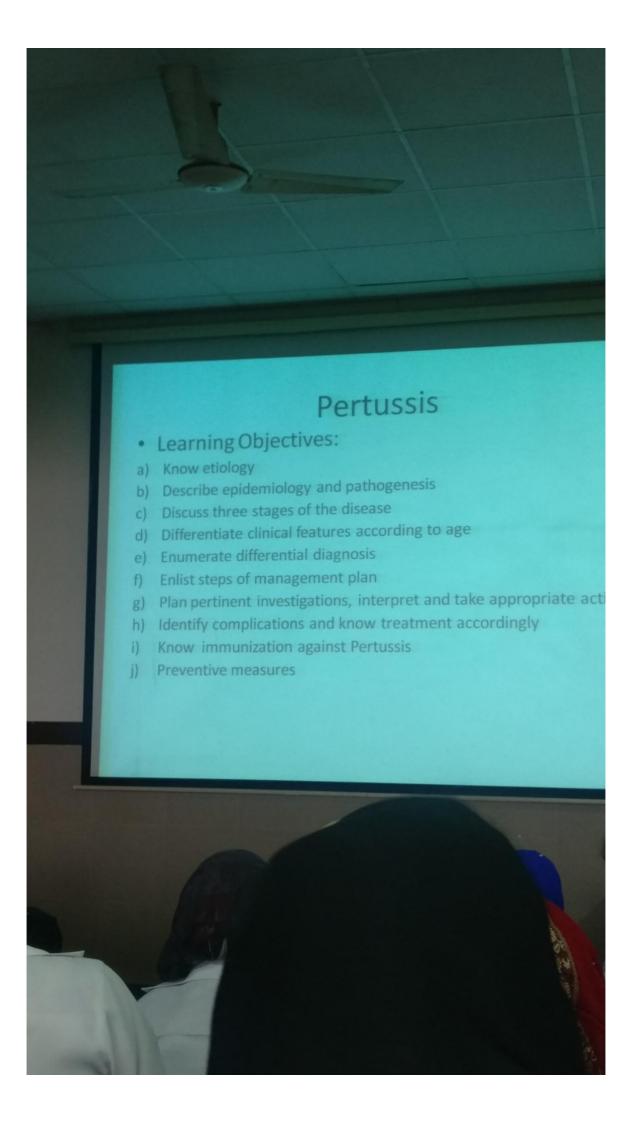


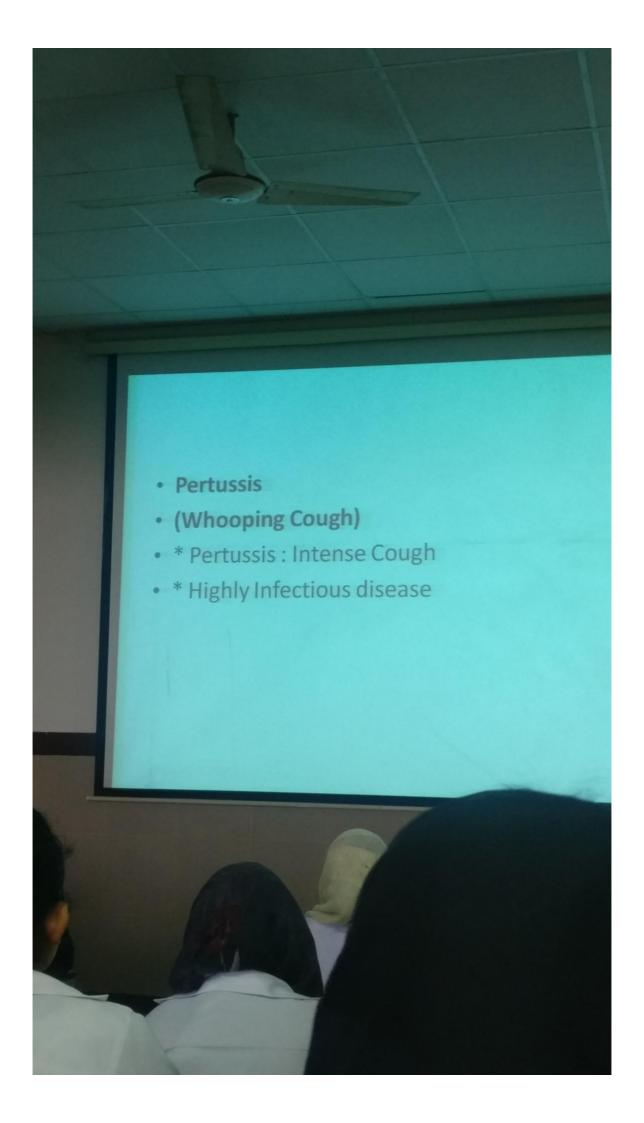




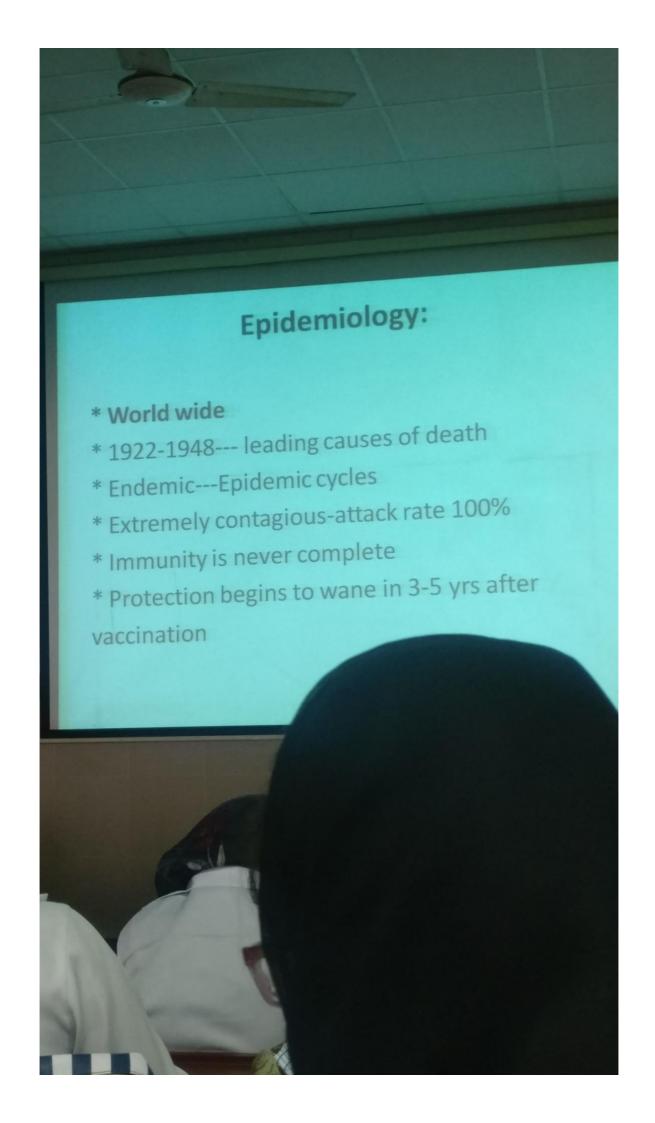


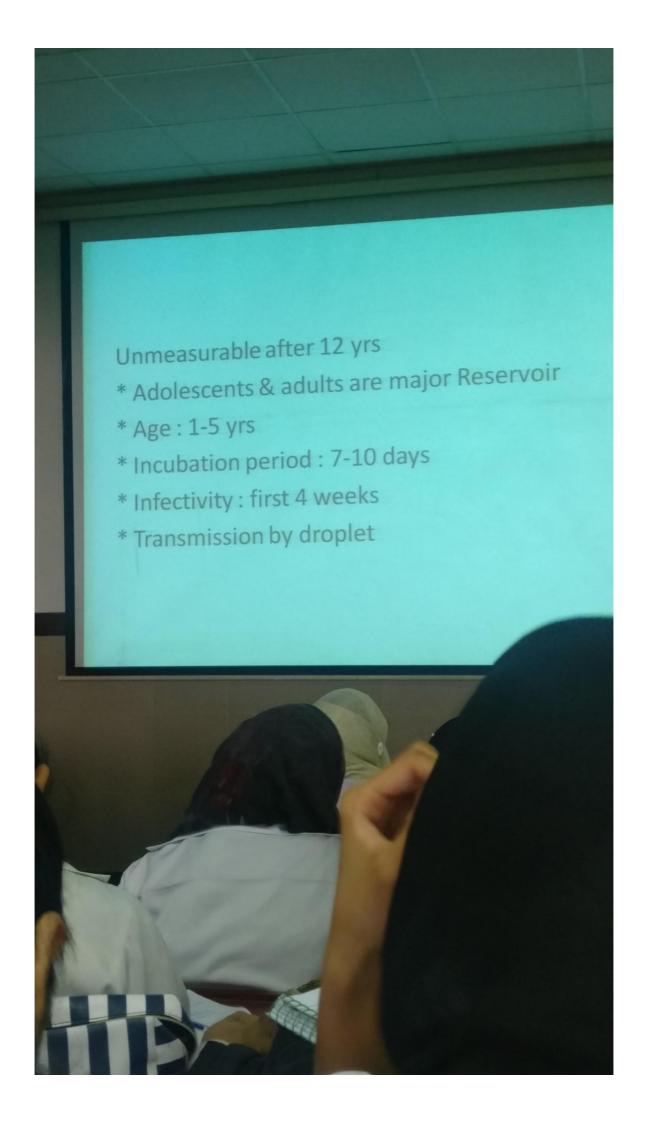


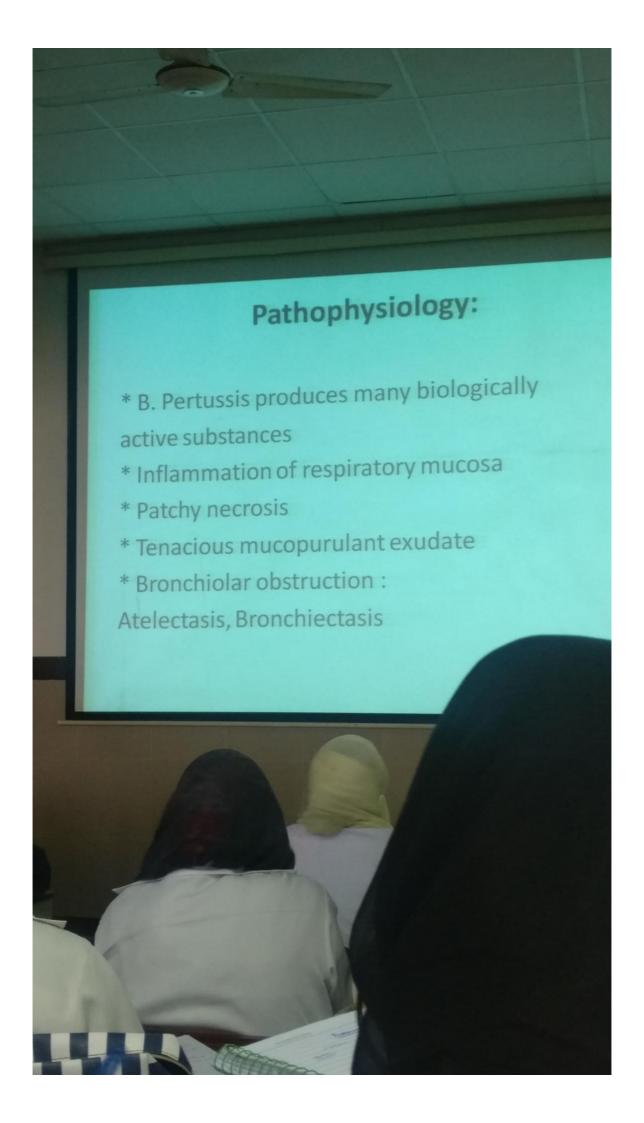


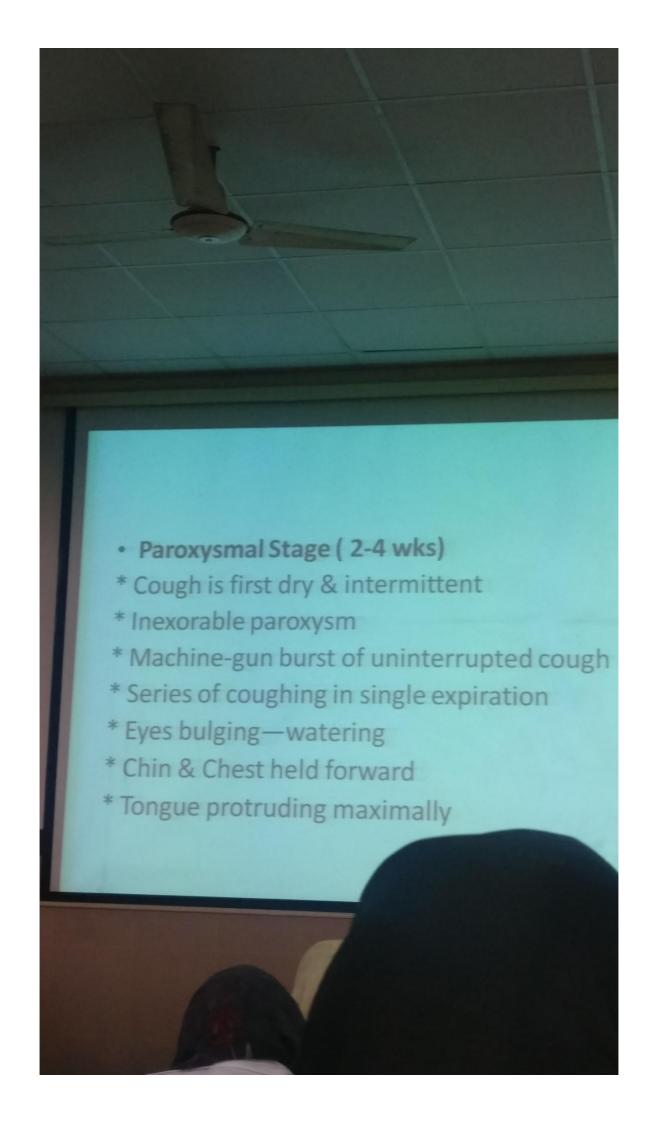


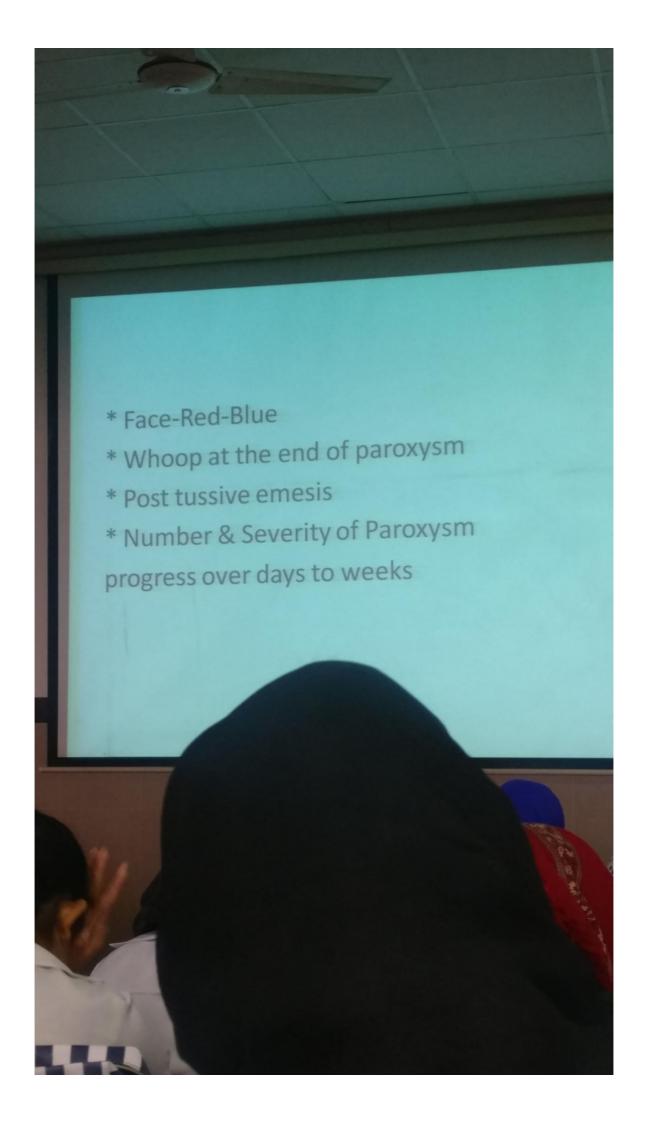


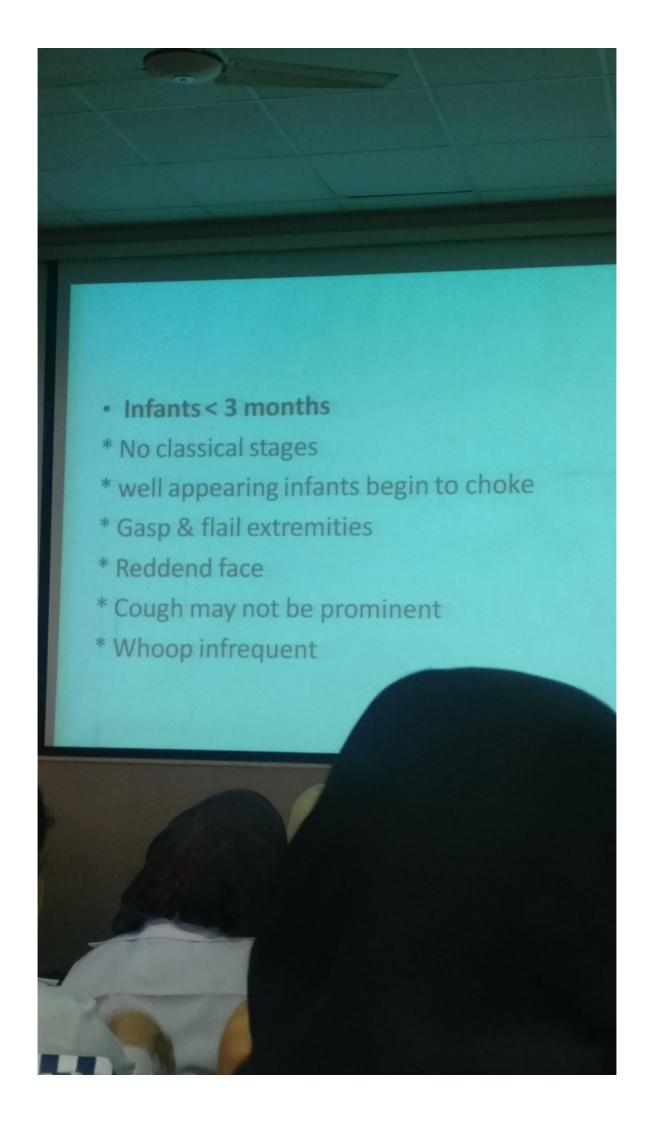


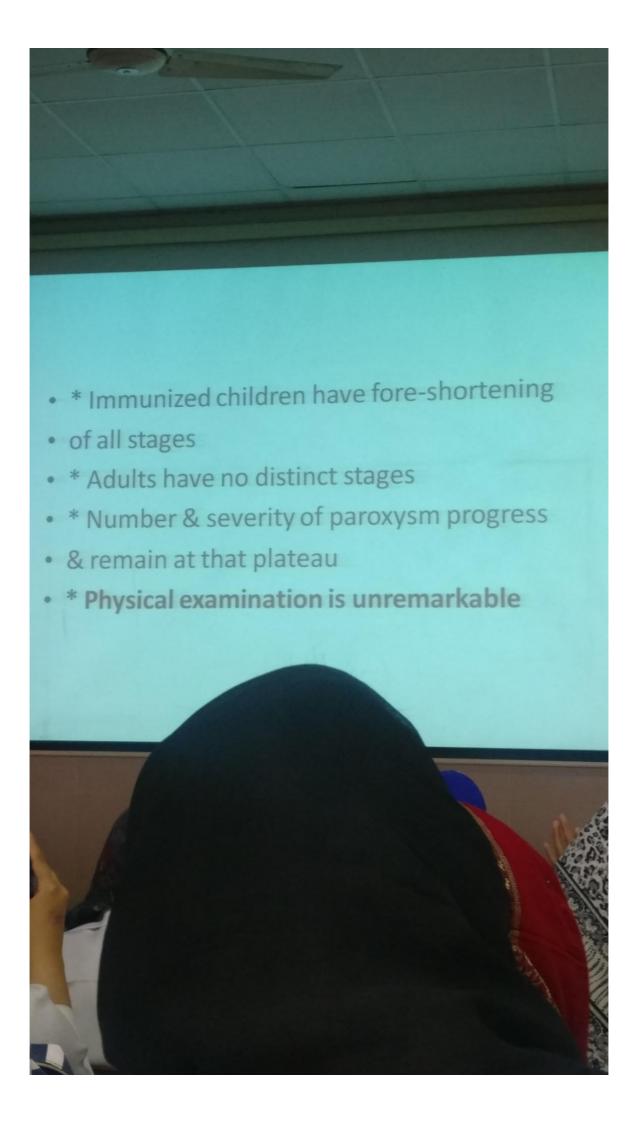


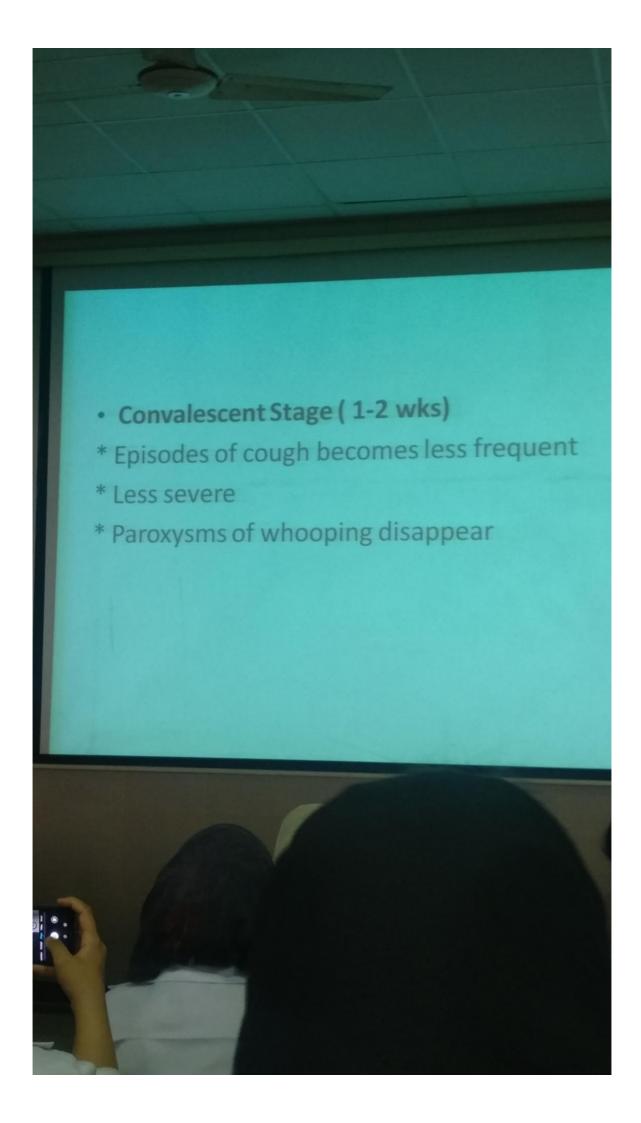


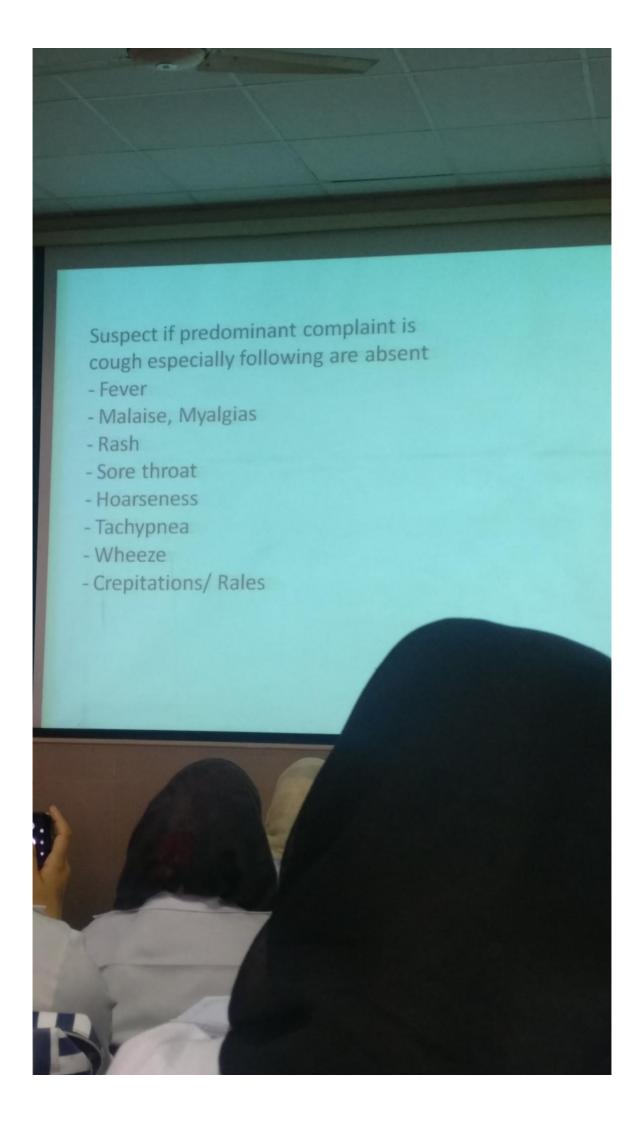


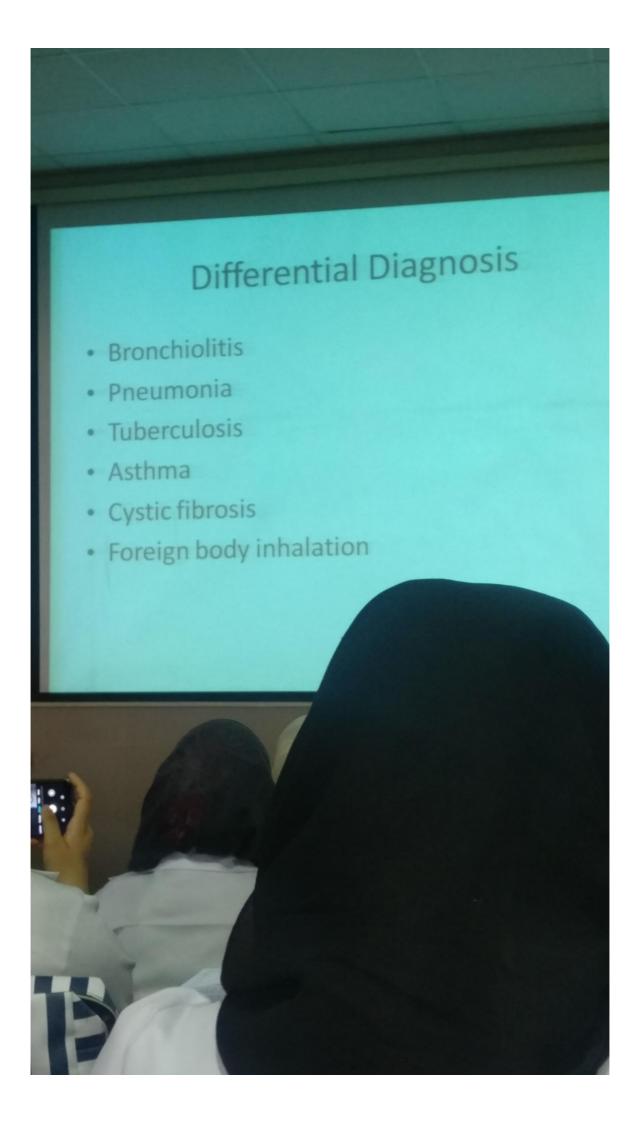


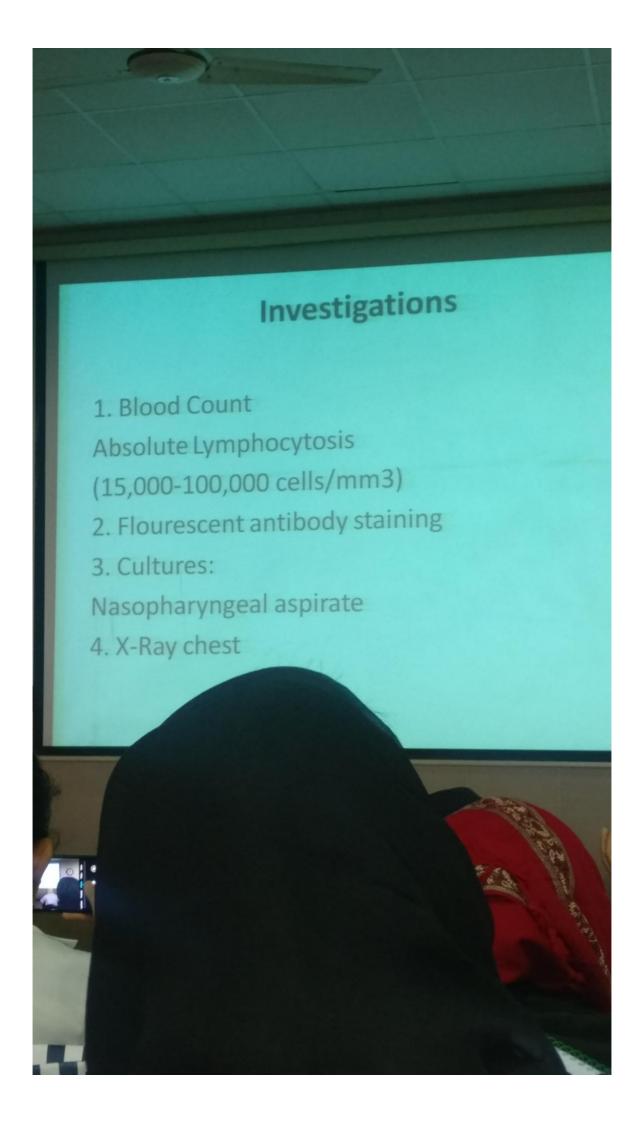




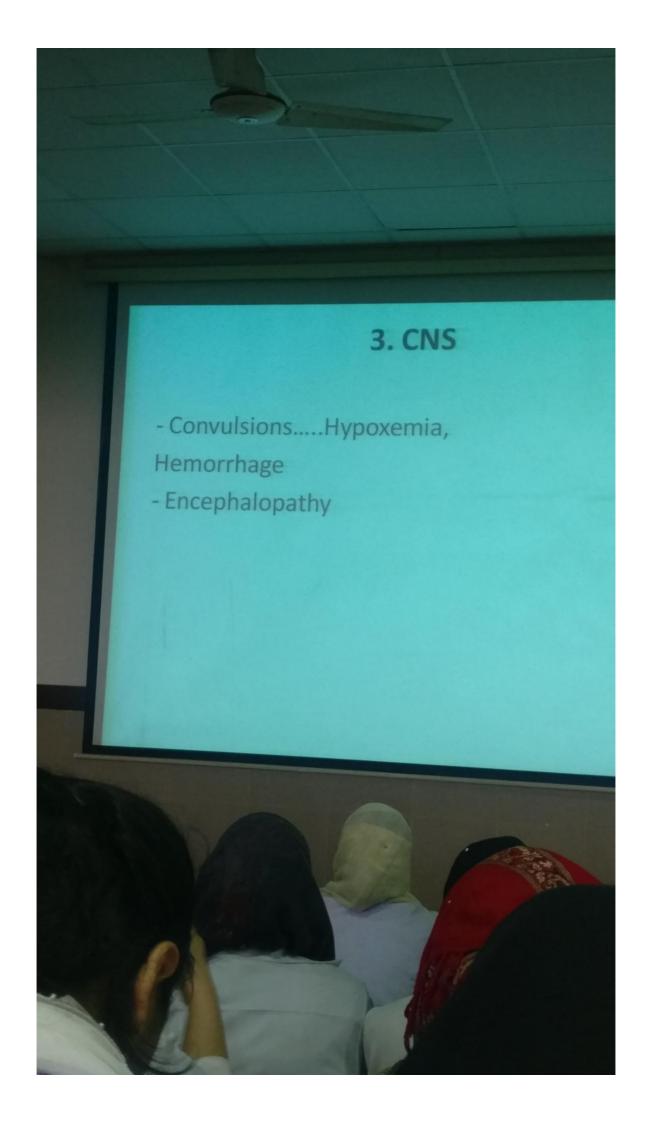


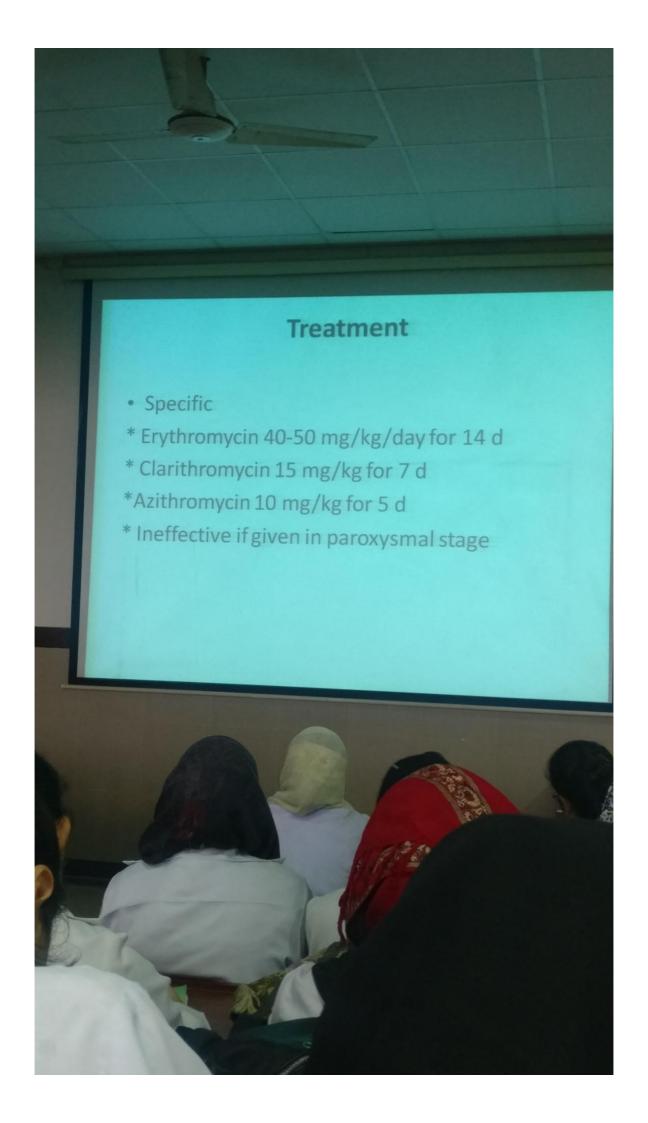


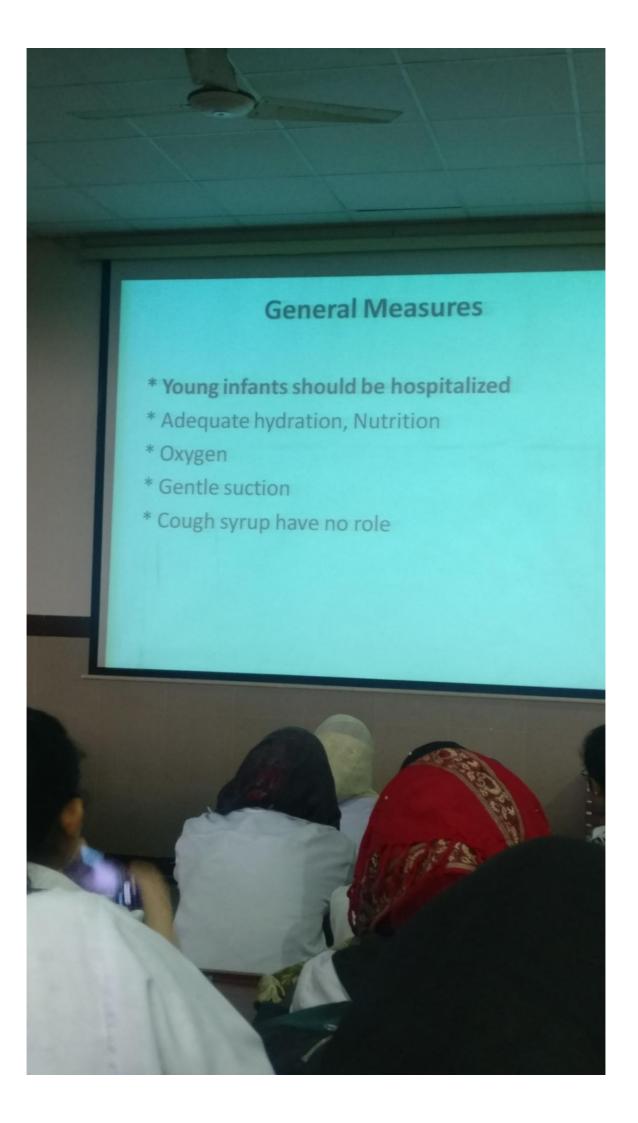


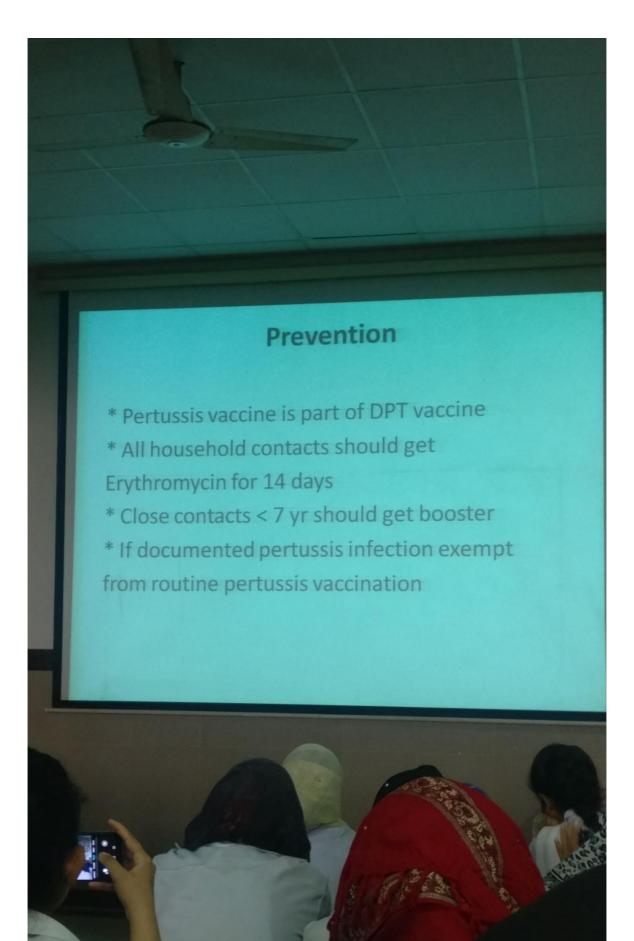




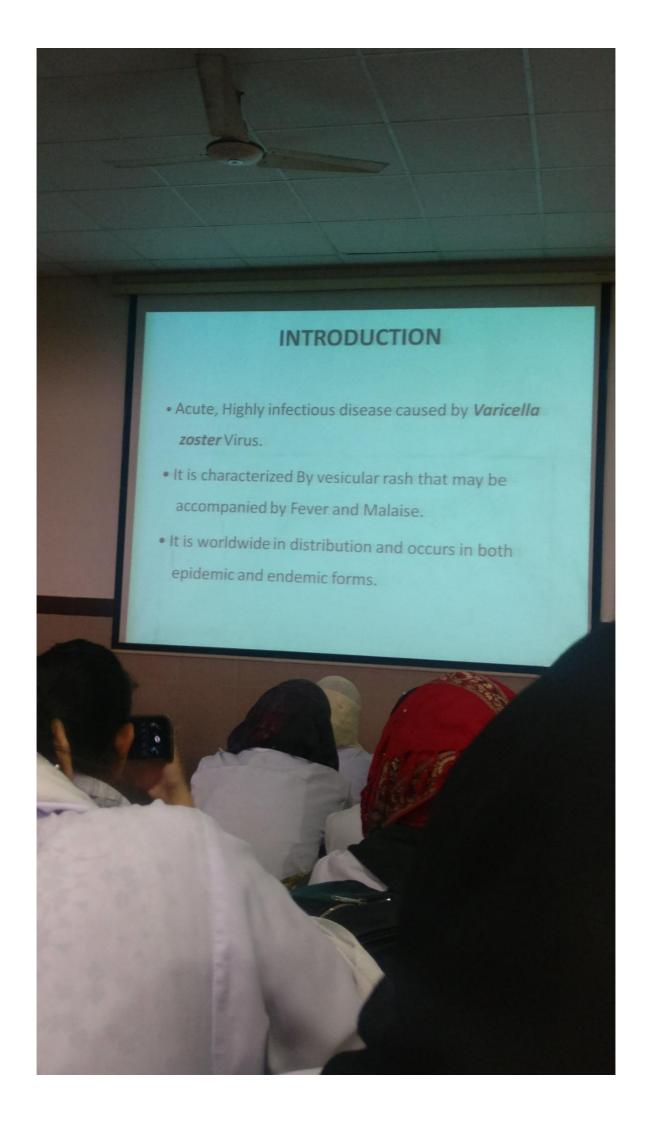


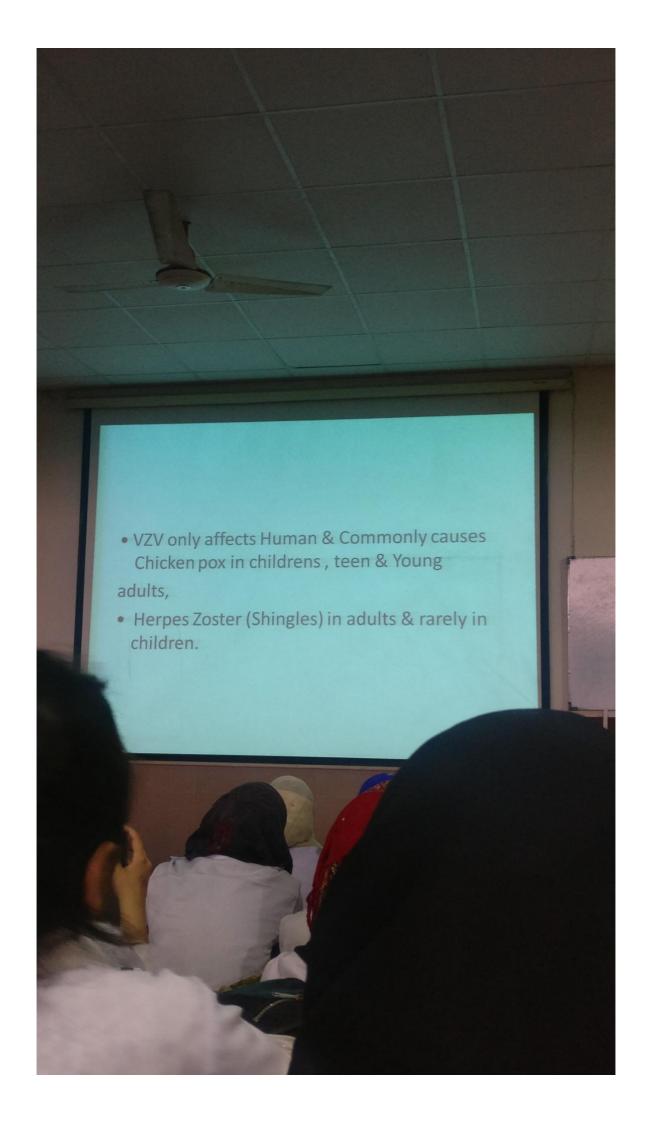


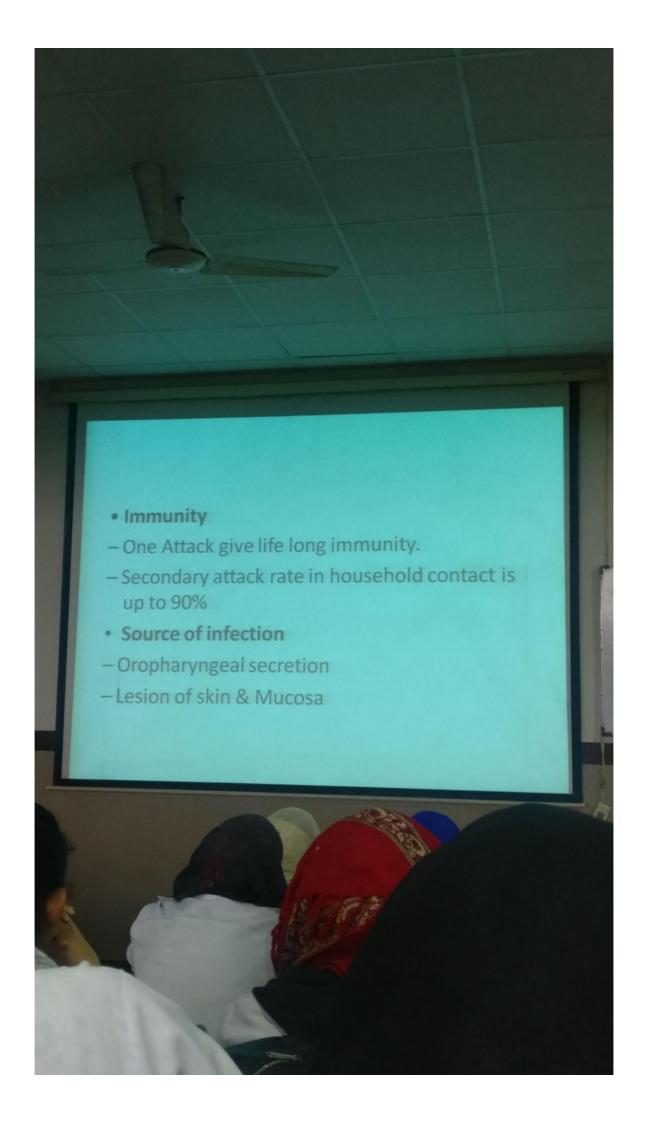


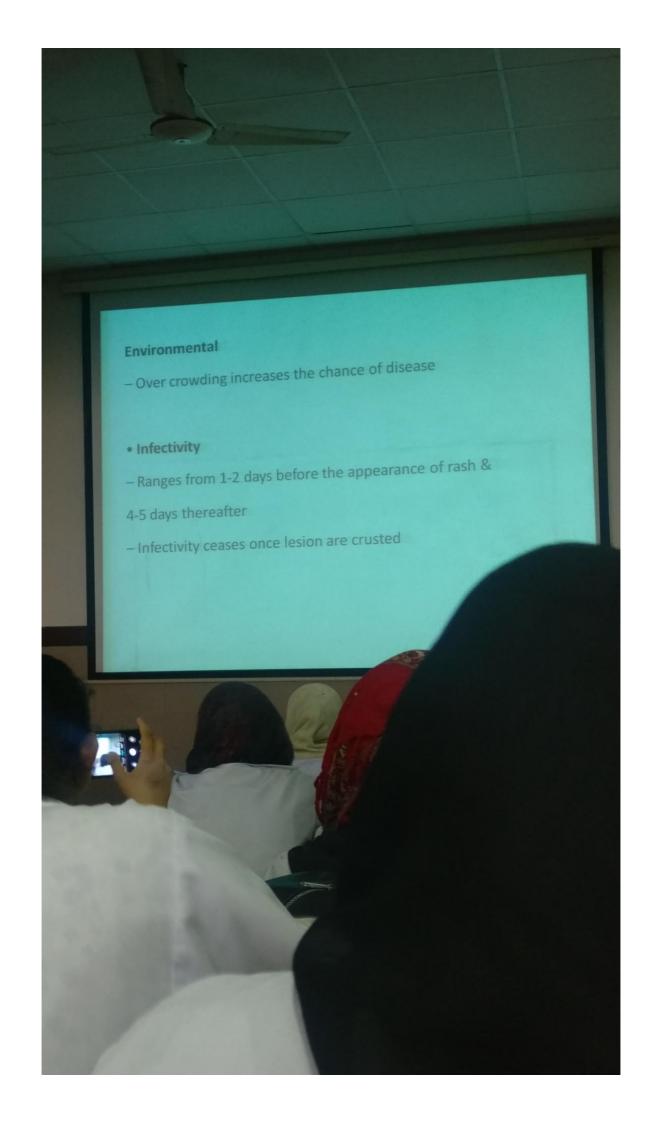


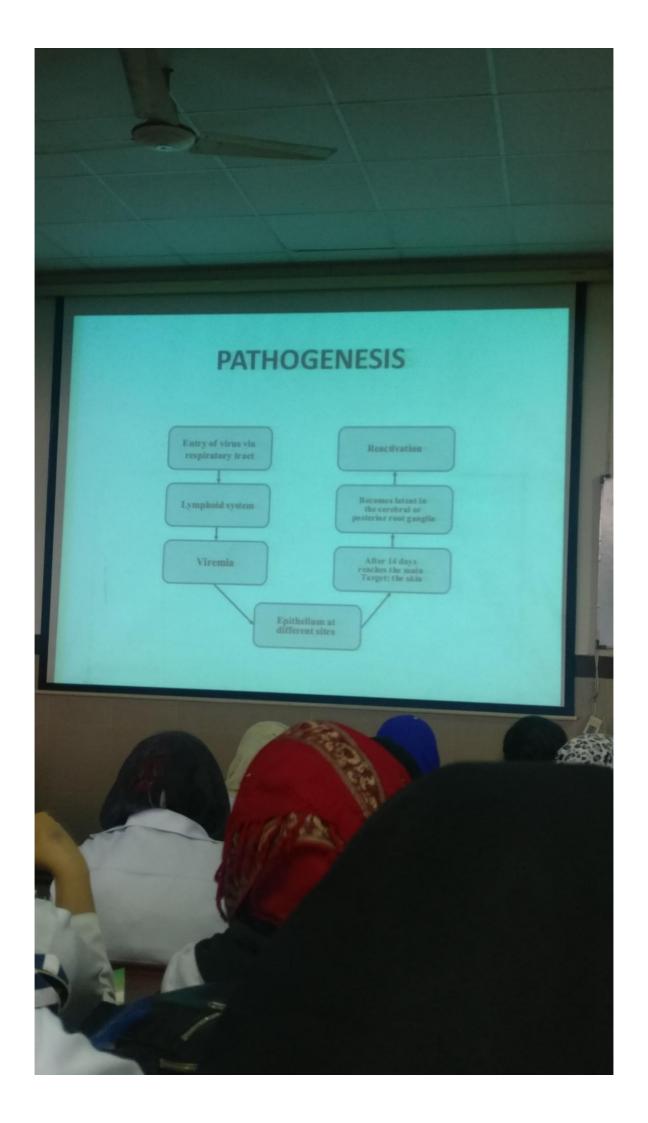


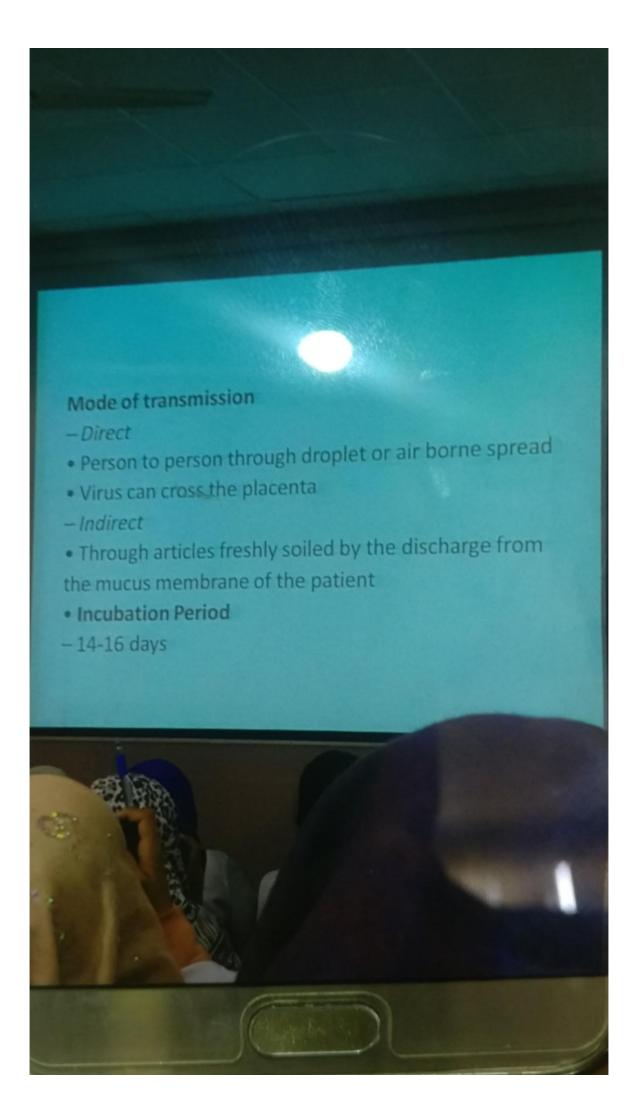


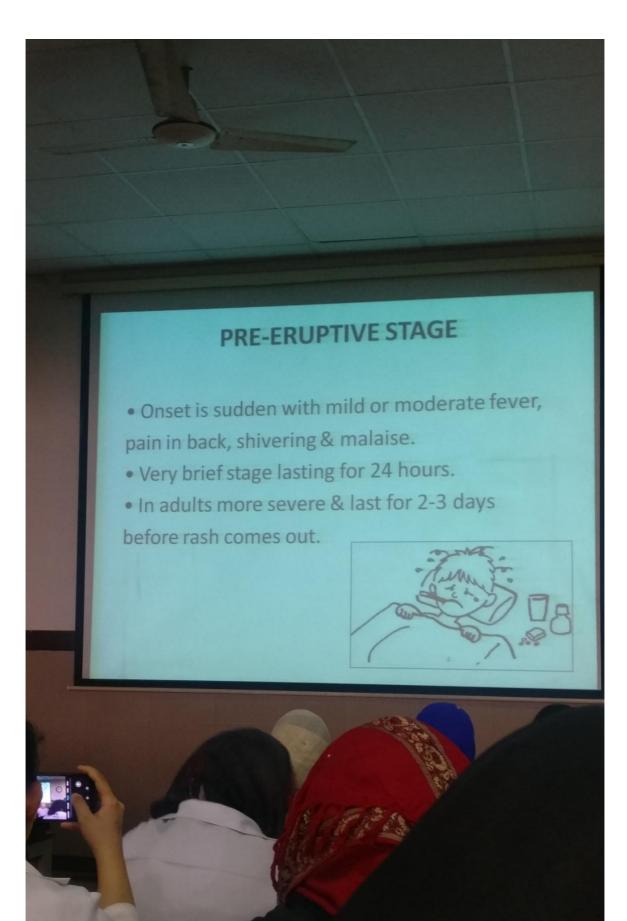


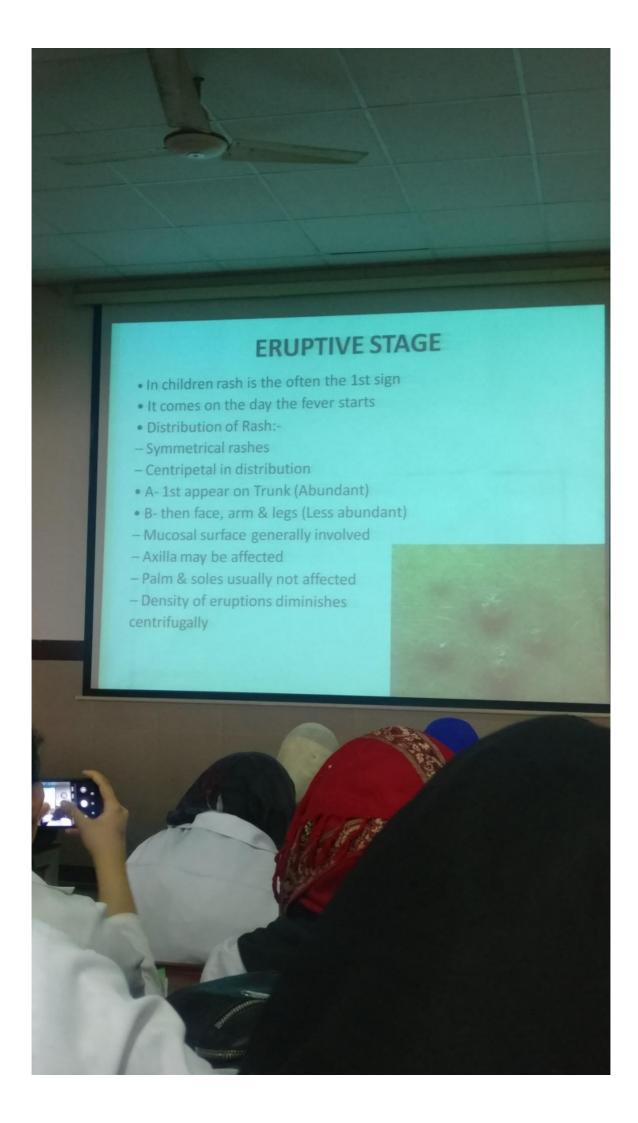








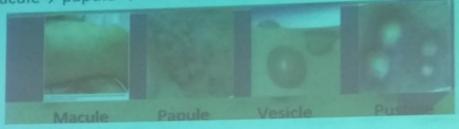






### Rapid Evolution

- Macule  $\rightarrow$  papule  $\rightarrow$  vesicles  $\rightarrow$  pustule  $\rightarrow$  scab



#### Pleomorphism

- All stage of rash may be seen simultaneously at one time in same area
- This is due to appearing in successive crop for 4 to 5 days in same area

#### Fever

 Does not run high but shows exacerbation with each fresh crop of eruption



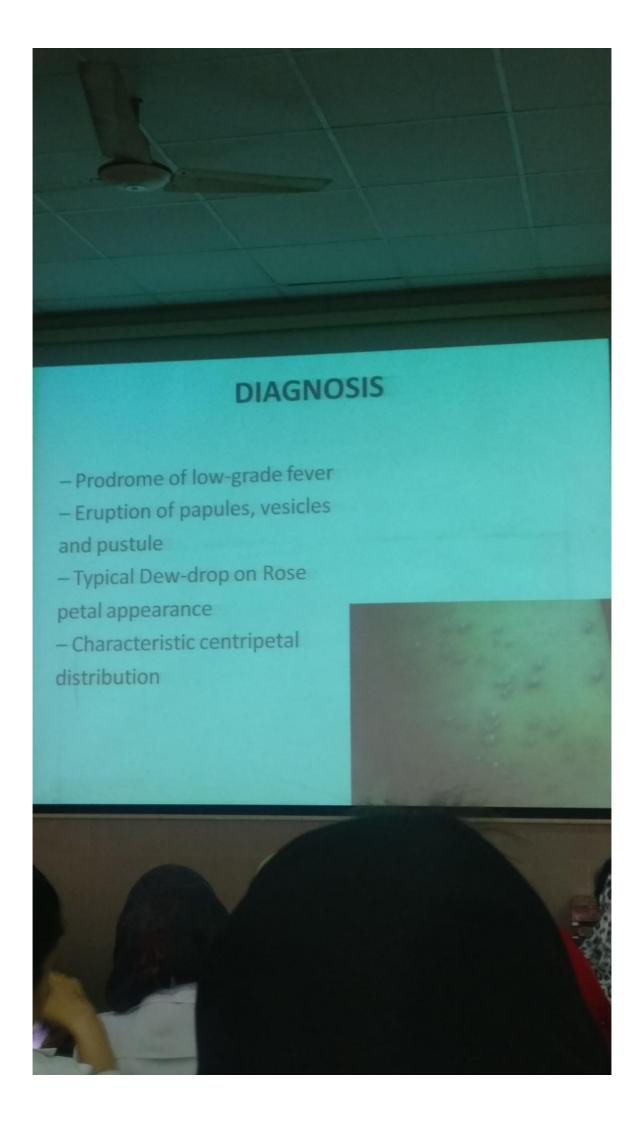
## COMPLICATIONS

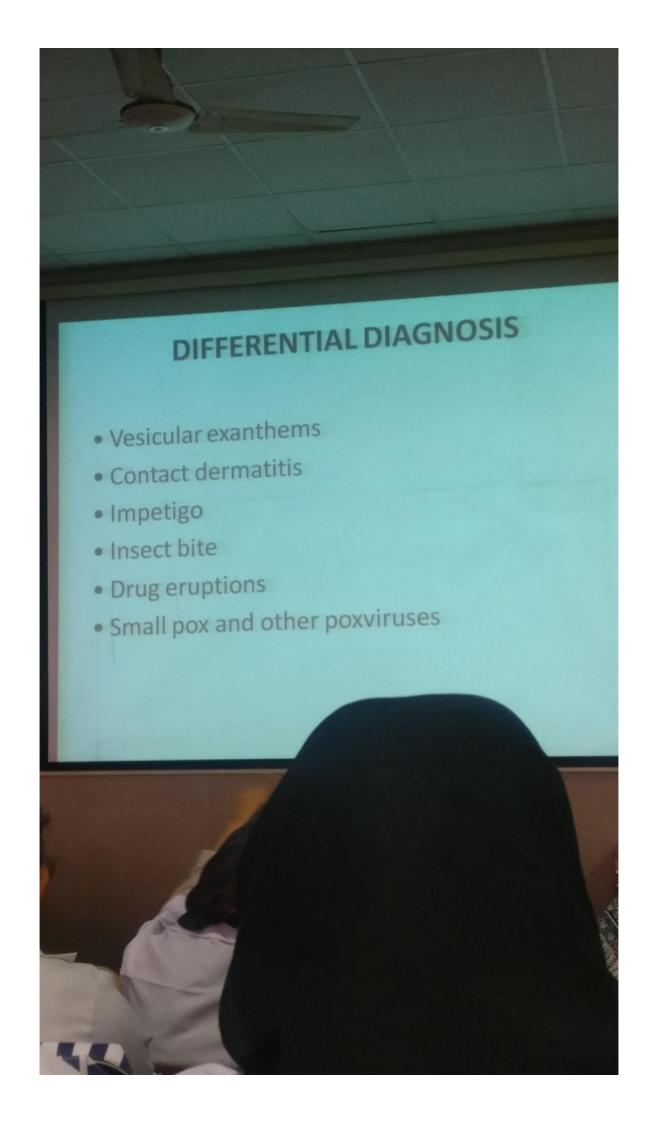
 In most cases, chicken pox a mild, self-limiting disease.

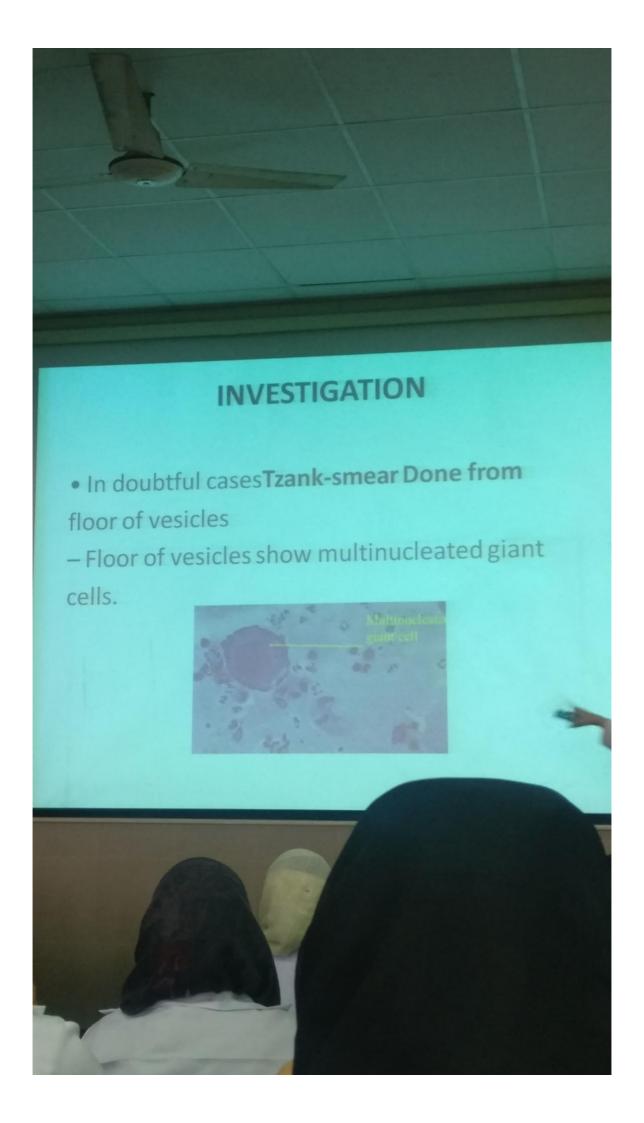
The mortality is less than 1 % in uncomplicated cases.

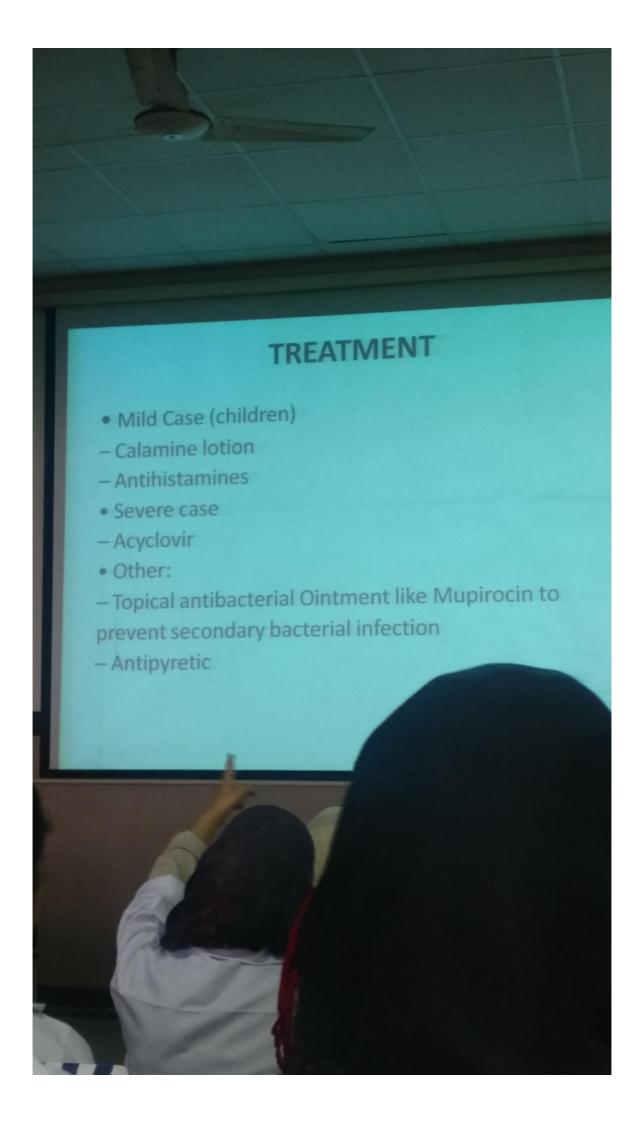
- Varicella Hemorrhage
- Pneumonia
- Encephalitis
- Acute cerebellar ataxia
- Reye's syndrome
- Fetal death and Birth defects

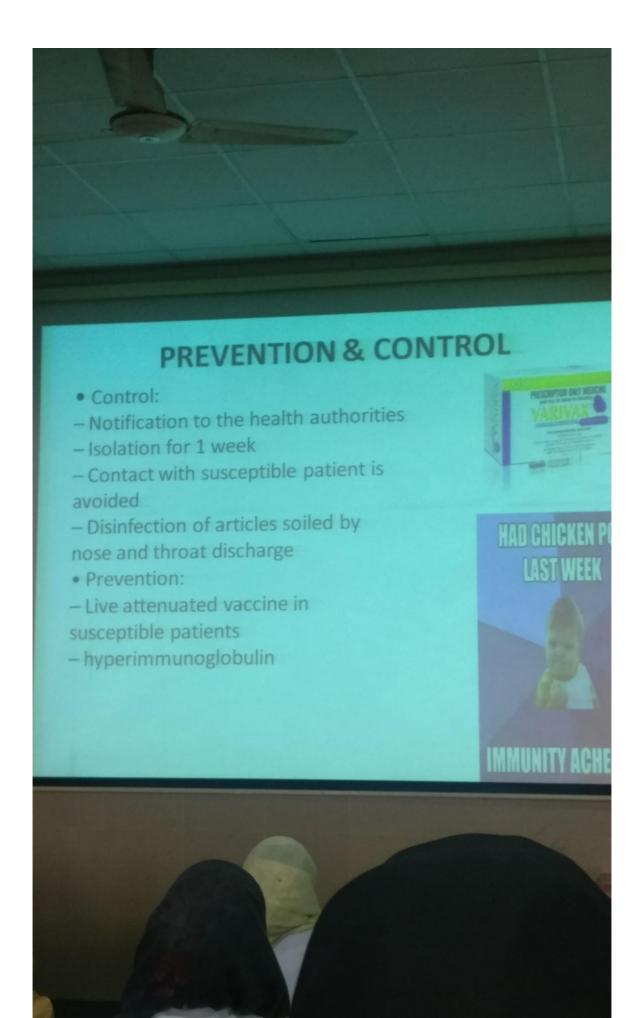


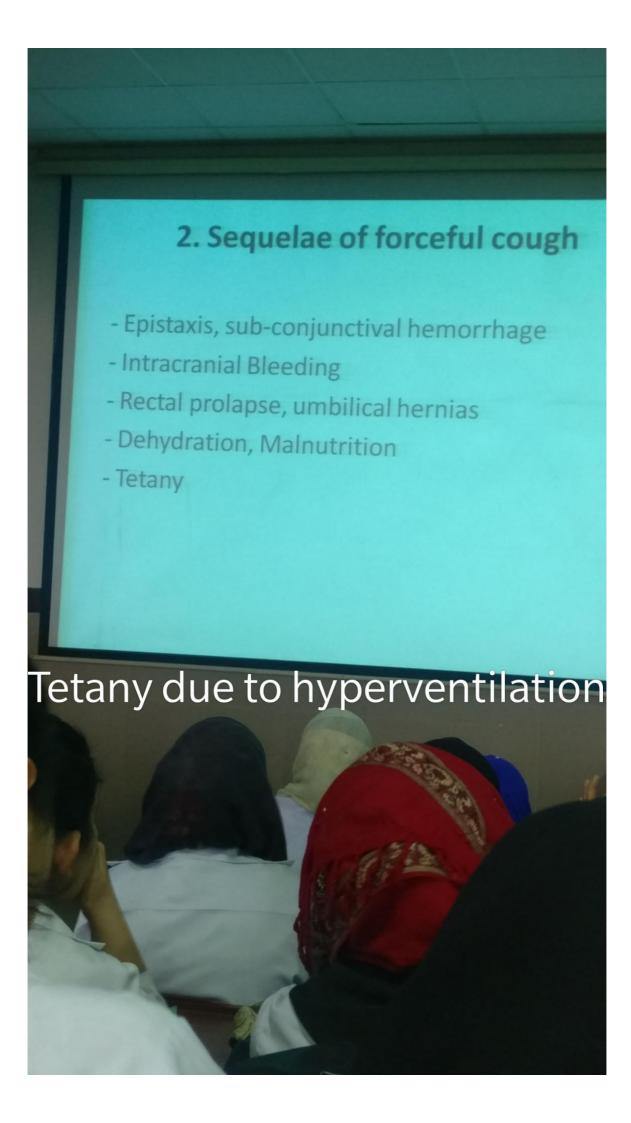












# Investigations 1. Blood Count Absolute Lymphocytosis (15,000-100,000 cells/mm3) 2. Flourescent antibody staining 3. Cultures: Nasopharyngeal aspirate 4. X-Ray chest haggy heart border seen on CXR Rt heart border is obscured