

## "Second Week of Development"

### 《 Day 9 》

- Blastocyst is more deeply embedded in the Endometrium
- Penetration defects are cured by "Fibrin Coagulum"

### 》 Trophoblastic Poles: 2

#### 1) Embryonic Pole: Lacuna formin

- Syncytiotrophoblast at embryonic pole:  
This stage of Trophoblast development:  
Lacunar stage

#### 2) Ab-embryonic Pole:

- Has Heuser's Membrane aka Exocoelomic membrane
  - Derived from Hypoblastic cells
    - Lines primitive yolk sac

» Embryoblast: Differentiated into two layers:

- 1) Cuboidal layer → Forms Hypoblast
- 2) Columnar layer → Forms Epiblast →  
Cavity within the epiblastic cells is called  
amnion

» Endometrial surface near the site of Implantation becomes:

- Highly vascular
- Edematous
- Large tortuous glands are present which secrete: Glycogen + Mucous

- Endometrium is further divided into:  
Functional layer + Basal Layer
- Functional Layer is further divided into:  
Spongy layer → Compact Layer

### ' Uterine Cycle: Stages: '

#### 1) Follicular or Proliferative Stage:

- Caused by: Estrogen from Theca Interna and Granulosa cells
  - Changes: Growth

#### 2) Secretory or Progestational Phase:

- Caused by: Progesterone from Corpus Luteum
- Changes: Large tortuous glands formed + Vascularity increases + Glycogen and Mucous production



### 3) Menatural Phase:

- Cause: No fertilization -> Corpus Luteum degenerates -> Corpus Albicans (scar tissue) formed -> Progesterone secretion decreased -> Positive effect on Uterus decreased -> Mensturation