"Second Week of Development"

《 Day 11-12 》

- Blastocyst completely embedded in Endometrial stroma
- Trophoblastic cells erode the maternal capillaries called Sinusoids: are congested and dilated
 - » Extraembryonic Mesoderm:
- Yolk sac cells form a membrane between Cytotrophoblast (externally) and amnion + exocoelomic memebrane (internally)

- Two subdivisions:

- 1) Extraembryonic Somatic Mesoderm: Lines Cytotrophoblast + Amnion
 - 2) Extraembryonic Splanchnic Mesoderm: Lines Yolk sac
- This division occurs due to the formation of a cavity in Extraembryonic mesoderm -> Extraembryonic cavity

- Embryoblast: Differntiated into two layers:
- 1) Cuboidal layer -> Froms 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) Folicular or Proliferative Stage:
- Caused by: Estrogen from Theca Internal
 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 degenrates -> Corpus Albicans (scar tissue) formed -> Progesterone secretion decreased -> Positive effect on Uterus decreased -> Mensturation