

STRUCTURE OF OVARY

Oogenesis

Primary oocyte

PRIMARY FOLLICLE

Sec. follicle  
 ZONA PELLUCIDA  
 THETA

Tert. follicle  
 ANTRUM  
 LIQUOR FOLLICULI  
 THETA - FAT  
 Sec. oocyte

GRAFFIAN FOLLICLE  
 CORONA RADIATA  
 CUDULUS OOPHORUS  
 OR GRAMINE

**MENSTRUAL CYCLE**

14<sup>th</sup> DAY

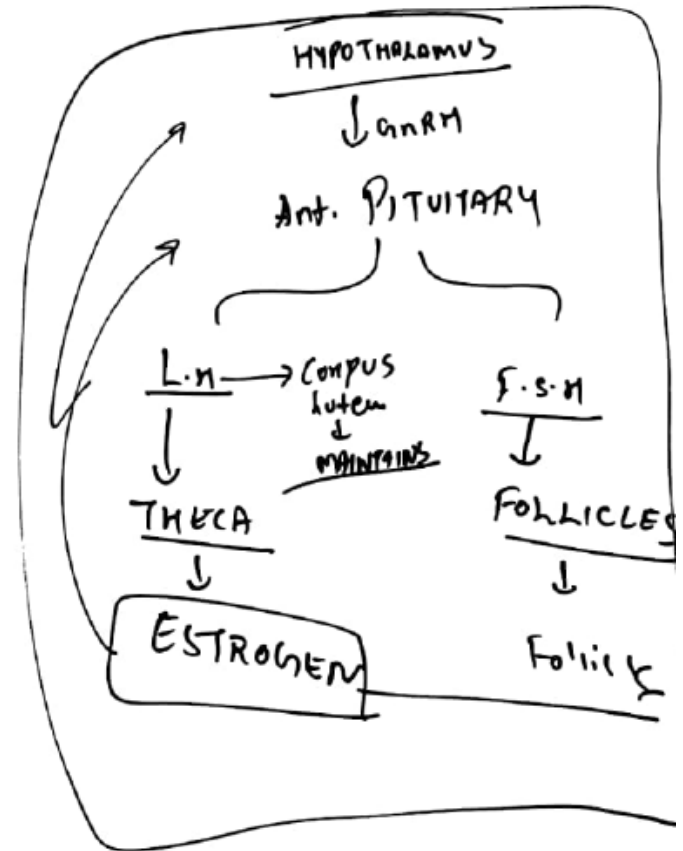
L.H ↑↑

RUPTURE of G.F

Release oocyte

MENSTRUAL CYCLE :-> 28 DAYS

- FEMALE PRIMATE → MONKEY  
→ HUMAN
- MENARCHE → STARTING MENSTRUAL CYCLE AT AGE Puberty
- MENOPAUSE :-> STOP of menstrual cycle  
↳ 45-50YM
- Temp menopause → Pregnancy



MENSTRUAL CYCLE

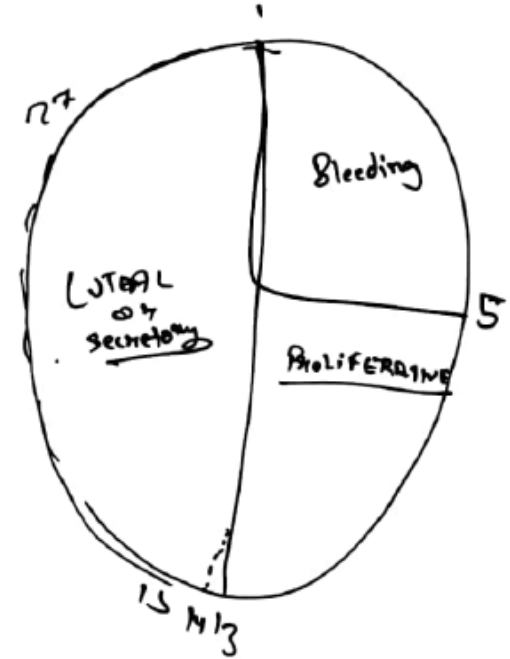
1. BLEEDING PHASE / MENSES.

↳ IT REMAINS FOR 3-5 DAYS

↳ DURING THIS PHASE Endometrium shed off.

↳ TOTAL BLOOD LOSS Per 20ml  
 ↳ Per cycle 60/80ml

↳ BLOOD DO NOT CLOT because OF PRESENCE of FIBRINOLYTIC



## 2. PROLIFERATIVE PHASE / FOLLICULAR PHASE / PRE OVULATORY PHASE

↳ AFTER MENSES, THERE IS RELEASE GnRH & IT ACTIVATE Pit. to Release FSH & LH

↳ DUE TO F.S.H → OVARIAN FOLLICLE START DEVELOPING.

↳ FOLLICLES FORMS **THECA INTERNA** → ESTROGEN.

↳ DUE TO RISE IN ESTROGEN Proliferation of Endometrium STARTS.

↳ ESTROGEN CONTINUE 10<sup>th</sup> DAY inc → (+ve) → L.H ↑↑↑

↳ INHIBIN → **F.S.H ↓↓**

↳ AT 13<sup>th</sup> DAY L.H IS ON MAX. POSITION : → **L.H SURGE** → sec. oocyte

↓  
 RUPTURE      G. follicle

14<sup>th</sup> DAY  
**OVULATION**

2. PROLIFERATIVE PHASE / [FOLLICULAR PHASE] / PRE OVULATORY PHASE

↓  
FOLLICLES

↓  
FSH → FOLLICULAR STIMULATING HORMONE

