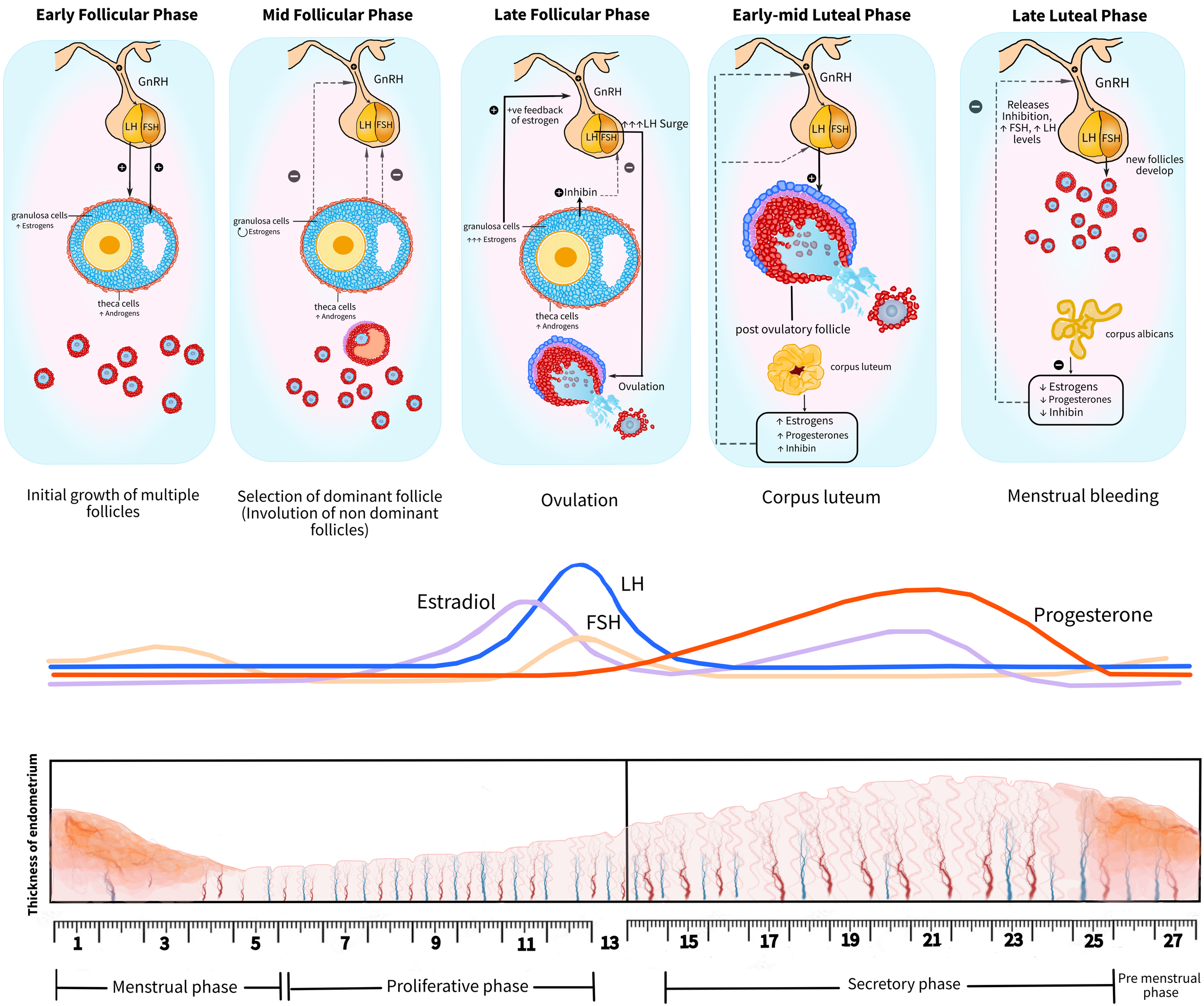
Early Follicular Phase
GnRH
LH
FSH
granulosa cells
↑ Estrogens
theca cells
↑ Androgens
Initial growth of multiple follicles
Mid Follicular Phase
GnRH
LH
FSH
granulosa cells
Estrogens
theca cells
↑ Androgens
Selection of dominant follicle (Involution of non dominant follicles)
Late Follicular Phase
GnRH
+ve feedback of estrogen
↑↑↑LH Surge
LH
FSH
Inhibin
granulosa cells
↑↑↑ Estrogens
theca cells
↑ Androgens
Ovulation
Ovulation
Early-mid Luteal Phase
GnRH
LH
FSH
post ovulatory follicle
corpus luteum
↑ Estrogens
↑ Progesterones
↑ Inhibin
Corpus luteum
Late Luteal Phase
GnRH
Releases Inhibition, ↑ FSH, ↑ LH levels
LH
FSH
new follicles develop
corpus albicans
↓ Estrogens
↓ Progesterones
↓ Inhibin
Menstrual bleeding
Estradiol
LH
FSH
Progesterone
Thickness of endometrium
1
3
5
7
9
11
13
15
17
19
21
23
25
27
Menstrual phase
Proliferative phase
Secretory phase
Pre menstrual phase