

Stimulates follicular developments & secretion of - estrogens by the growing follicle.

- Both LH & FSH attain a peak level about - 14<sup>th</sup> day.
- Rapid secretion of LH leading to its maximum level during the midcycle, called LH Surge induce repture of - GF & release of ovum (ovulation)

Ovulation phase followed by the luteal phase during which the remaining parts of GF transform as the corpus luteum.

The corpus luteum secretes large amounts of - progesterone → essential for maintenance of the endometrium.

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During pregnancy all events of the MC stop & there is no menstruation.

On the absence of fertilisation the C.L. degenerates → starts menstruation

50 years of age → menopause

Cyclic menstruation is an indicator of - normal reproductive phase & extends between menarche & menopause.

gonadotropins (LH and FSH) increases gradually during the follicular phase, and stimulates follicular development as well as secretion of estrogens by the growing follicles. Both LH and FSH attain a peak level in the middle of cycle (about 14<sup>th</sup> day). Rapid secretion of LH leading to its maximum level during the mid-cycle called LH surge induces rupture of Graafian follicle and thereby the release of ovum (ovulation). The ovulation (ovulatory phase) is followed by the luteal phase during which the remaining parts of the Graafian follicle transform as the corpus luteum (Figure 3.9). The corpus luteum secretes large amounts of progesterone which is essential for maintenance of the endometrium. Such an endometrium is necessary for implantation of the fertilised ovum and other events of pregnancy. During pregnancy all events of the menstrual cycle stop and there is no menstruation. In the absence of fertilisation, the corpus luteum degenerates. This causes disintegration of the endometrium leading to menstruation, marking a new cycle. In human beings, menstrual cycles ceases around 50 years of age; that is termed as menopause. Cyclic menstruation is an indicator of normal reproductive phase and extends between menarche and menopause.