

Chapter 46

Animal Reproduction

Two closely linked cycles characterize reproduction in human females.

- On reaching sexual maturity, human males carry out gametogenesis continuously, while human females produce gametes in cycles.
 - Ovulation occurs after the endometrium has started to thicken and develop a rich blood supply, preparing the uterus for the possible implantation of an embryo.
 - If pregnancy does not occur, the uterine lining is sloughed off, and another cycle begins.
 - The cyclic shedding of the endometrium from the uterus, which occurs in a flow through the cervix and vagina, is called **menstruation**.
- The **menstrual** or **uterine cycle** refers to the changes that occur in the uterus.
 - Menstrual cycles average 28 days (although cycles vary, ranging from 20 – 40 days).
- Cyclic events in the ovaries define the **ovarian cycle**.
- Hormone activity links the two cycles, resulting in the synchronization of ovarian follicle growth and ovulation with the establishment of a uterine lining that can support embryonic development.
- The reproductive cycle begins with the release from the hypothalamus of GnRH, which stimulates the pituitary to secrete small amounts of FSH and LH.
- FSH stimulates follicle growth, aided by LH, and the cells of the growing follicles start to make estradiol.
- There is a slow increase in the secretion of estradiol during the **follicular phase**, the part of the ovarian cycle in which follicles grow and oocytes mature.
 - Low levels of estradiol inhibit secretion of the pituitary hormones, keeping FSH and LH levels low.
- The secretion of estradiol by the growing follicle rises sharply, and levels of FSH and LH shoot up.
 - The high concentration of estradiol stimulates the secretion of gonadotropins by acting on the hypothalamus to increase its output of GnRH, stimulating the secretion of FSH and LH.
- LH secretion is especially high because the high concentration of estradiol increases the sensitivity of LH-releasing cells in the pituitary to GnRH.
 - Follicles also respond more strongly to LH at this stage because more of their cells have receptors for this hormone.
 - The increase in LH concentration caused by increased estradiol secretion from the growing follicle is a rare example of positive feedback.
- LH induces the final maturation of the follicle and ovulation, which takes place about a day after the LH surge.
 - The follicle and adjacent wall of the ovary rupture, releasing the secondary oocyte.
- Following ovulation, during the **luteal phase** of the ovarian cycle, LH stimulates the transformation of the follicle into the corpus luteum, a glandular structure.
- Under continued stimulation by LH, the corpus luteum secretes progesterone and estradiol.

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