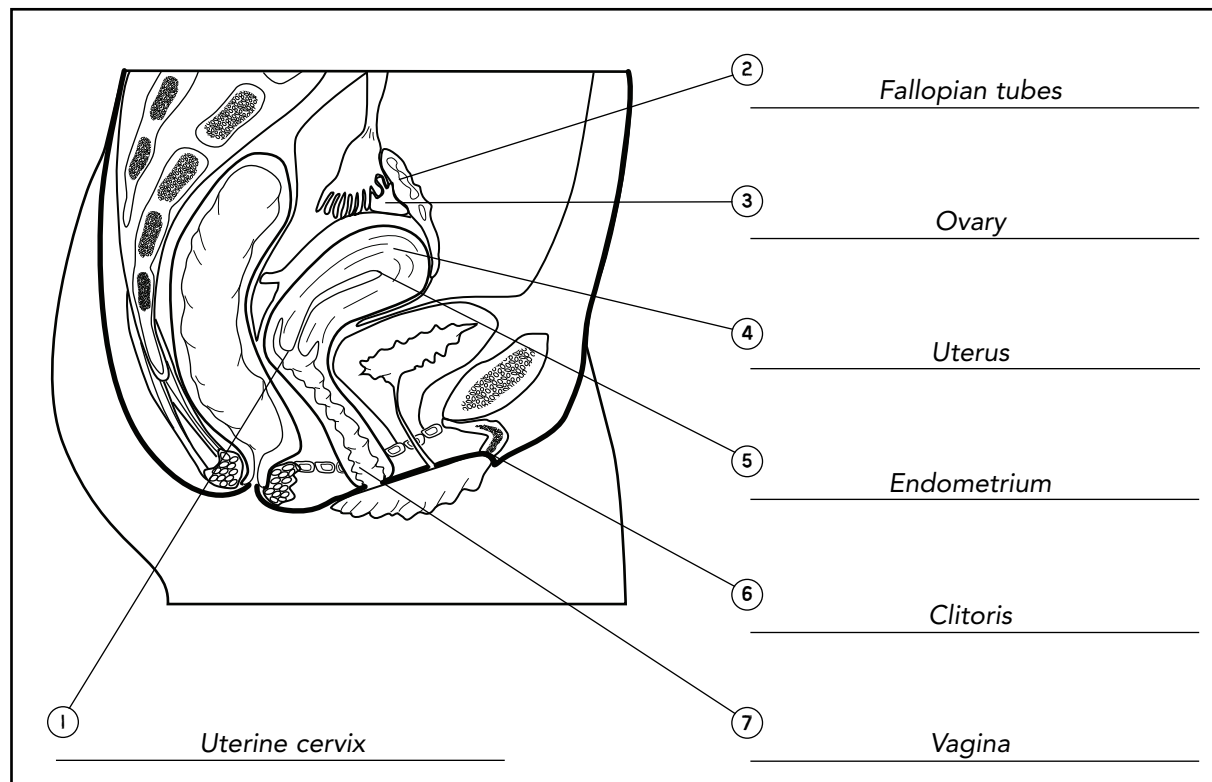


THE FEMALE REPRODUCTIVE SYSTEM

Complete this concept review handout and keep it as a record of what you have learned.

ANATOMY OF THE FEMALE REPRODUCTIVE SYEM



DEFINITIONS

- Oogenesis is the process of ovum production by meiosis.
- The ovarian cycle is the process whereby a single ovarian follicle matures (in order to release an ovum) and changes into a corpus luteum (in order to encourage the implantation of the ovum in the uterus).
- The menstrual cycle represents all of the periodic changes in the uterine endometrium.

THE FEMALE REPRODUCTIVE SYSTEM**Oogenesis and the ovarian cycle, based on a 28-day cycle**

Period	Event	Hormones
Days 1 to 12	– An ovarian follicle develops. – An oocyte undergoes meiosis I. _____ _____ _____	– The pituitary gland secretes a greater quantity of FSH. – The ovarian follicle secretes more and more estrogens. _____
Days 13 and 14	– The ovarian follicle wall bursts. – The oocyte is expelled (ovulation). _____ _____ _____	The pituitary gland secretes LH in greater quantities as well as more FSH (hormonal surge). _____ _____ _____
Days 15 to 28	– The ovarian follicle is transformed into the corpus luteum. – The oocyte moves into one of the fallopian tubes. – The oocyte undergoes meiosis II. – If the ovum is not fertilized, the corpus luteum deteriorates. _____ _____	– The corpus luteum secretes progesterone, inhibiting the production of LH and FSH. – As the corpus luteum deteriorates, progesterone production decreases, while FSH production increases. _____ _____ _____

28-day menstrual cycle

Phase	Event	Hormones
Days 1 to 5 Menstrual phase	Bleeding occurs, due to the expulsion of the endometrium and unfertilized ovum. _____	Progesterone production decreases. _____ _____
Days 6 to 14 Proliferation phase	Endometrium begins to thicken. _____ _____	Production of estrogens by a new ovarian follicle increases. _____ _____
Days 15 to 28 Secretory phase	Endometrium continues to thicken. _____ _____	Secretion of progesterone by the corpus luteum increases. _____ _____