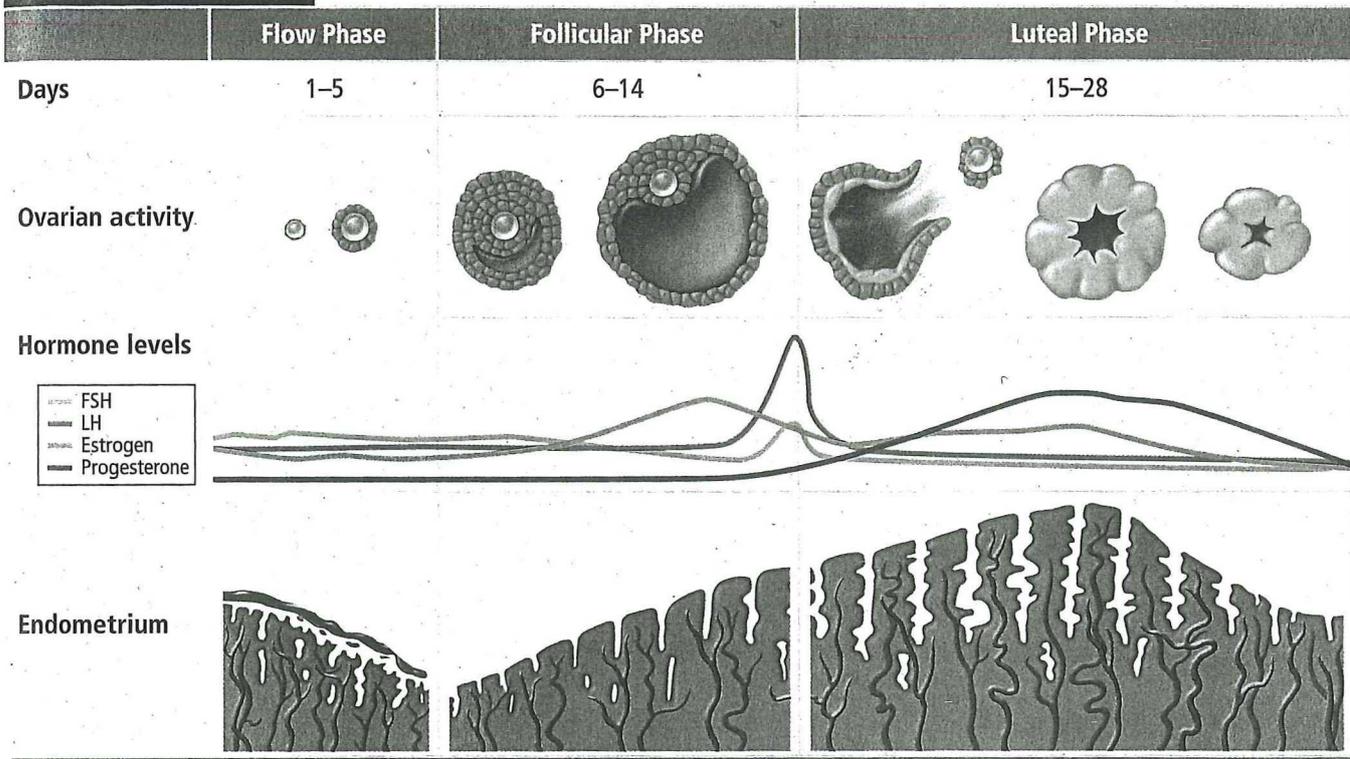


Table 1**Menstrual Cycle Phases**

Concepts in Motion Interactive Table



If the egg is fertilized, a different chain of events occurs, and a new menstrual cycle does not begin. The progesterone levels remain high and increase the blood supply to the endometrium. The corpus luteum does not degenerate and hormone levels do not drop. The endometrium accumulates lipids and begins secreting a fluid rich in nutrients for the developing embryo.

Section 1 Assessment

Section Summary

- ▶ Levels of male and female hormones are regulated by negative feedback systems.
- ▶ The human male produces millions of sperm cells every day.
- ▶ The number of sex cells resulting from meiosis differs in males and females.
- ▶ The human female has a reproductive cycle called the menstrual cycle.
- ▶ The menstrual cycle has three phases: the flow phase, the follicular phase, and the luteal phase.

Understand Main Ideas

1. **MAIN Idea** Describe how hormones regulate sperm and egg cells.
2. **Summarize** the structures of the reproductive systems and their functions.
3. **Describe** the origin and importance of substances found in semen.
4. **Explain** the major events that take place in the endometrium and in the ovary during the menstrual cycle.

Think Critically

5. **Infer** On about day 12, estrogen levels cause a sharp increase in the amount of LH that is released. According to a negative feedback model, what would you expect to happen?

MATH in Biology

6. Suppose a female began menstruating at age 12 and stopped menstruating at age 55. If she never became pregnant and her menstrual cycles averaged 28 days, how many eggs did she ovulate during her reproductive years?



Assessment

Online Quiz

