

Reproductive System & Development Objectives:

Define these key terms:

puberty fertilization gonads ovulation follicle FSH LH estrogen progesterone
corpus luteum testosterone ovum oogenesis spermatogenesis menstruation
menopause placenta amnion cleavage differentiation blastula gastrula
gastrulation placenta in vitro fertilization

- Define puberty.
 - Identify the glands involved during the onset of puberty.
 - List & define the functions for the hormones produced by the gonads.
 - State the functions of the key reproductive hormones in humans: testosterone, progesterone, estrogen, FSH, and LH.
 - Explain the major functions of the male reproductive structures: testes, scrotum, seminiferous tubules, epididymis, vas deferens, urethra, penis.
 - State the roles of the 3 glands of the male reproductive system: seminal vesicles, prostate, bulbourethral glands.
 - Label the diagram parts of the male reproductive system.
 - Explain the major functions of the female reproductive structures: ovaries, oviduct (fallopian tubes), uterus, cervix, & vagina.
 - Label the diagram parts of the female reproductive system.
 - Describe the pathway of an unfertilized egg (ovum).
 - Compare & contrast spermatogenesis & oogenesis using a diagram.
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- Define the menstrual cycle.
 - Describe the 2 hormones involved in the ovarian cycle.
 - Describe the 2 hormones involved in the menstrual cycle.
 - State the 4 menstrual stages.
 - Describe the functions of FSH, LH, estrogen, & progesterone in the menstrual cycle.
 - Analyze the events of the menstrual stages using a diagram.
 - Summarize the events of the follicular, ovulatory, luteal and menstrual stages with the hormonal changes.
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- Describe the process of embryonic development in humans in reference to the following terms: fertilization, cleavage, morula, blastula, gastrula, & differentiation.
 - Define embryo & gestation.
 - Describe the process of gastrulation.
 - Identify the 3 germ layers in a gastrula.
 - Define the terms embryo & gestation.
 - Describe the functions of the chorion, amnion, & umbilical cord.
 - Describe the placenta's role in respiration, excretion, & nourishment.
 - Define the terms: gastrulation, differentiation, embryo, fetus.
 - List 5 risk factors that could endanger a woman during pregnancy.
 - Explain the process of in vitro fertilization.