

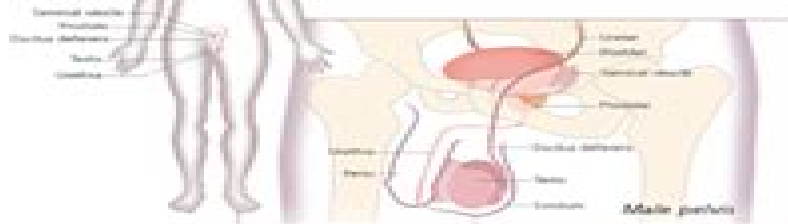


PHYSIOLOGY SERIES

Human Reproduction

Human reproduction

Human reproduction is sexual reproduction involving male and female reproductive cells called gametes. The reproductive system includes organs called gonads that produce gametes and hormones; ducts for transport, storage and composition of gametes; accessory organs and glands for fluid secretion; and internal genitalia. Reproduction is regulated by hormones produced by the gonads, the hypothalamus and the pituitary gland. Fertilisation involves the introduction of sperm into the vagina. The sperm travels through the female reproductive tract until it encounters an ovum, a female sex cell. Fertilisation can then take place.



Male reproductive system

The adult male reproductive system is a part of the endocrine system. It consists of the testes, vas deferens, epididymis, urethra, and penis. The testes are divided into two halves, each containing a testis. The testes are located in the scrotum, a sac of skin and muscle that hangs below the penis. The testes are responsible for producing sperm and testosterone.

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Testosterone is produced within the testes by specialized cells known as Leydig cells. Testosterone is the main hormone responsible for maintaining the structure and function of the sex organs and promoting the development of male secondary sex characteristics.



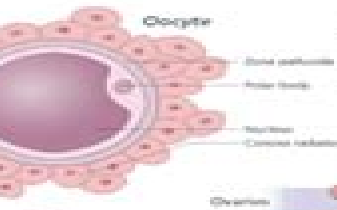
Fertilization

The upper portion of the vagina leads to the canal for fertilisation. Millions of sperm travel through the female reproductive tract, ultimately only a few will reach the egg. When a sperm meets the egg, the egg releases a chemical signal that causes the sperm to release its nucleus. The sperm travels through the female reproductive tract until it encounters an ovum, a female sex cell. Fertilisation involves the introduction of sperm into the vagina. The sperm travels through the female reproductive tract until it encounters an ovum, a female sex cell. Fertilisation can then take place.

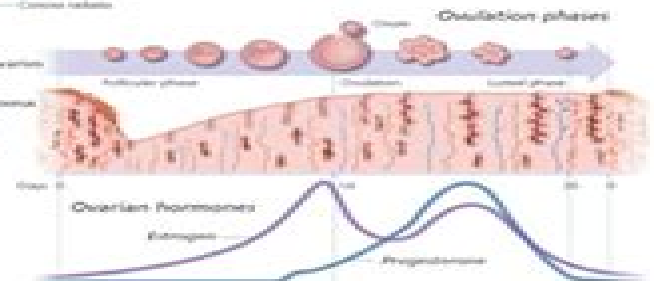


Female reproductive system

The internal structures of the adult female reproductive system include the vagina, uterus, ovaries and fallopian tubes. These structures form a pathway allowing the release of an egg cell, fertilisation, its growth and delivery of a developed fetus. The vagina is a muscular canal that leads from the uterus to the outside of the body. It is the birth canal. The uterus is a hollow, pear-shaped organ that is the site of implantation of a fertilized egg. The fallopian tubes are the uterine tubes that carry the egg from the ovary to the uterus. The ovaries are the female sex glands that produce eggs and hormones.



The ovaries, located on each side of the uterus, are responsible for producing eggs as well as the female sex hormones estrogen and progesterone. Estrogen is responsible for the development of the female reproductive structures, menstrual characteristics, and breast development. Progesterone prepares the uterus lining for implantation of a fertilized egg and is necessary for breast milk production. The ovaries are connected to the uterus by the uterine tubes, narrow ducts that provide a passageway for the egg to reach the uterus.



Ovulation & the menstrual cycle

The menstrual cycle refers to the sequence of events that occurs in the endometrium, the lining of the uterus. The cycle normally lasts approximately 28 days. The purpose is to prepare the uterus for possible pregnancy. The menstrual cycle is governed by the endocrine system. It involves the release of eggs from the ovaries and the shedding of the uterine lining. The cycle is regulated by hormones from the hypothalamus and pituitary gland.



Concept Review Lifetime Health Reproduction

Wolfgang Guggemos



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