

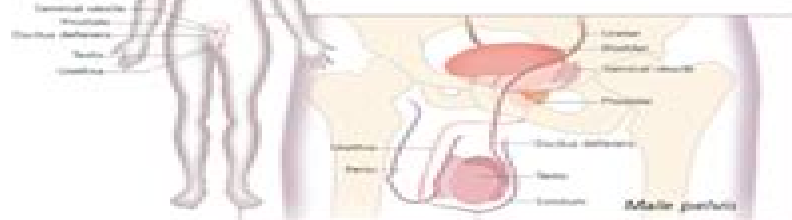


PHYSIOLOGY SERIES

Human Reproduction

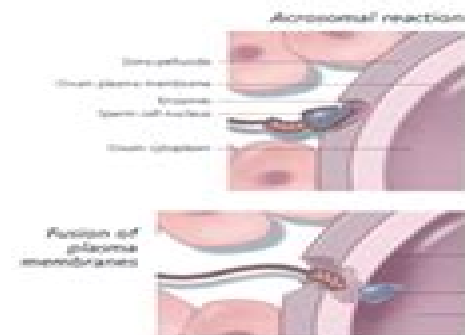
Human reproduction

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 ovocyte, a female sex-cell gamete. Fertilisation can then take place.



Male reproductive system

The adult male reproductive system is a complex of two primary external structures, the testes and the penis. The testes are divided into thousands of tiny compartments or lobules containing seminiferous tubules, tightly coiled structures where sperm formation takes place. The testes are situated in a sac-like structure called the scrotum, which provides support and regulates the position of the testes relative to the body. The scrotum moves closer to the body when the testes need to change in external temperature to maintain the proper temperature within the testes for sperm formation. Spermatozoa is produced within the testes by specialised cells known as spermatogenic cells. Located in the testes is a structure responsible for secreting the androgen and hormone of the sex organs and promoting the development of male secondary sex characteristics.



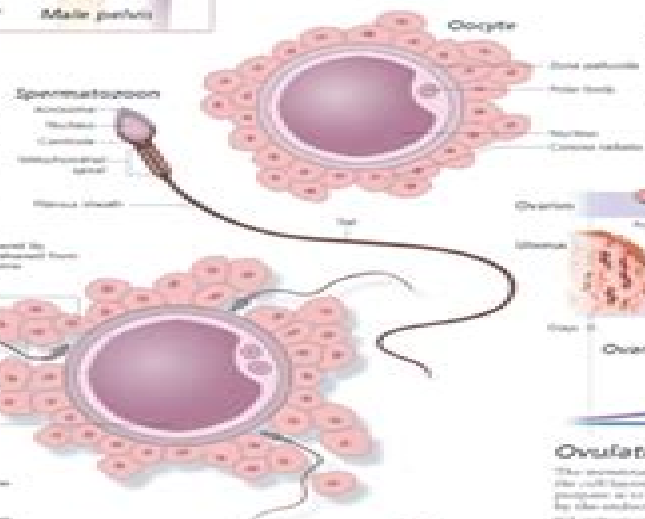
Fertilization

The upper portion of the vagina leads to the vaginal canal for fertilisation. Millions of sperm travel through the female reproductive tract, utilizing coiled ducts called fallopian tubes. Within a sperm, the nucleus contains the genetic material. The sperm travels through the fallopian tube, the duct of the ovary, where the cell membrane of the egg and sperm come in contact, the membranes fuse, and the sperm nucleus and associated material merge into the egg. Other sperm are prevented from entering by a chemical change in the zona pellucida. The egg nucleus membrane dissolves the chromosomes of the egg and sperm combine, and a fertilised egg, or zygote, is formed. The change process starts with a nuclear division producing 2 identical cells called blastomeres.

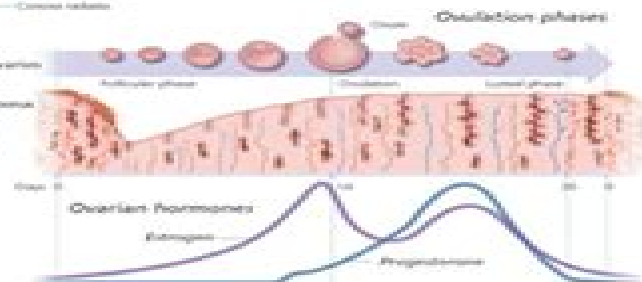


Female reproductive system

The internal structure of the adult female reproductive system includes the vagina, uterus, ovaries and oviducts. These structures form a pathway allowing the release of an egg cell, fertilisation in sperm and delivery of a developed fetus. The vagina is a muscular canal that receives the sperm and provides a passage for the fetus. The uterus is a hollow pear-shaped organ with muscular walls that contract during childbirth. The lower part of the uterus is the cervix, which opens into the vagina. The vagina is a muscular canal that receives the sperm and provides a passage for the fetus. The uterus is a hollow pear-shaped organ with muscular walls that contract during childbirth. The lower part of the uterus is the cervix, which opens into the vagina. The vagina is a muscular canal that receives the sperm and provides a passage for the fetus.



The ovaries, located on each side of the uterus, are responsible for producing ova as well as the female sex hormones estrogen and progesterone. Estrogen is responsible for the development of the female reproductive structures, sexual characteristics, and breast development. Progesterone prepares the uterus lining for implantation of a fertilised egg and is necessary for breast milk production. The ovaries are connected to the uterus by the ovarian 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 cell lining lining 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. If fertilisation does not occur, decreasing estrogen and progesterone levels initiate menstruation and the cycle begins again.



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