

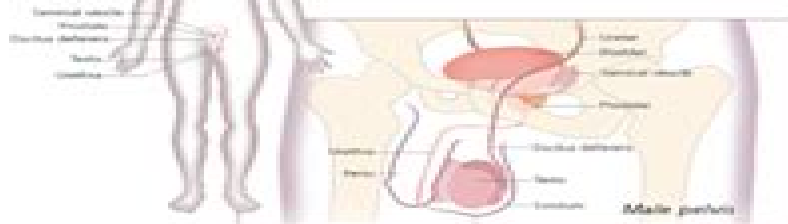


PHYSIOLOGY SERIES

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 transportation 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 ovulated, female secondary gamete. Fertilisation can then take place.



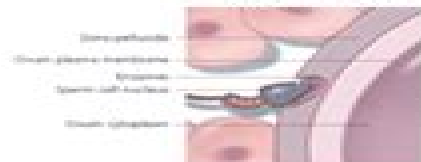
Male reproductive system

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 tubules containing seminiferous tubules, tightly coiled structures where sperm formation takes place.

The testes are situated in a sac called the scrotum, which provides support and regulates the position of the testes relative to the body. The scrotum is located below the testes, near the perineum, to maintain the testes at a temperature slightly below body temperature for optimal sperm production.

Seminiferous tubules are produced within the testes by specialized cells called Sertoli cells. These cells are located in the testes and are responsible for maintaining the structure and function of the seminiferous tubules and promoting the development of male secondary sex characteristics.

Acrosomal reaction



Fusion of plasma membranes



Fertilization

The upper portion of the vagina leads to the canal for fertilisation. Millions of sperm travel through the female reproductive tract, utilizing cilia, to reach the egg. Within a sperm, the nucleus contains the genetic material. The sperm travels through the female reproductive tract, utilizing cilia, to reach the egg. Within a sperm, the nucleus contains the genetic material. The sperm travels through the female reproductive tract, utilizing cilia, to reach the egg. Within a sperm, the nucleus contains the genetic material.

Zona reaction



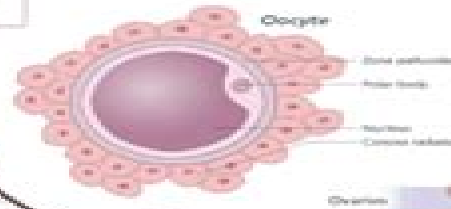
2-cell stage



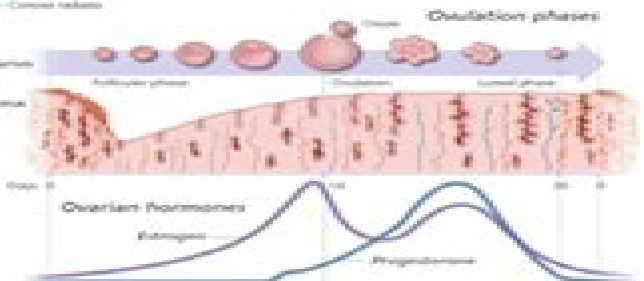
Female reproductive system

The internal structure of the adult female reproductive system includes 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 lower part of the female reproductive system. The uterus is a hollow, pear-shaped organ with muscular walls that contract during childbirth. The ovaries are located on either side of the uterus and are responsible for producing eggs and hormones. The fallopian tubes are located on either side of the uterus and are responsible for transporting eggs from the ovaries to the uterus.

Spermatozoon

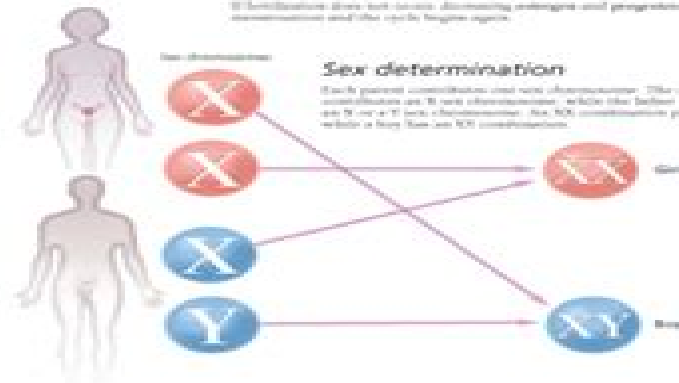


The ovaries, located on each side of the uterus, are responsible for producing eggs as well as the female sex hormones estrogen and progesterone. Estrogen is responsible for the development of the female reproductive system, sexual characteristics, and breast development. Progesterone prepares the uterus lining for implantation of a fertilized egg and is necessary for breast milk production. The ovaries are connected to the uterus by the fallopian 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 occur in the endometrium, the lining of the uterus. The cycle typically 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, the thickening of the uterine lining, and the shedding of the lining (menstruation) if fertilisation does not occur.



Human Reproductive Diagrams

E Durkheim



Human Reproductive Diagrams:

Human Reproductive Diagrams Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Human Reproductive Diagrams**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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