

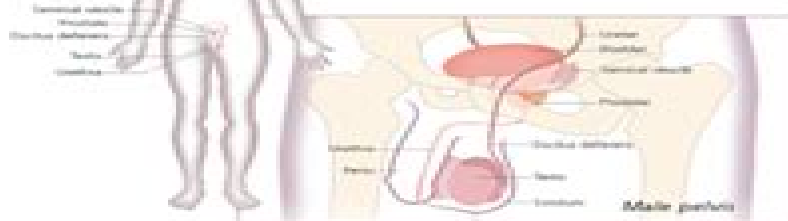


## PHYSIOLOGY SERIES

# Human Reproduction

### Human reproduction

Humans reproduce by 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.



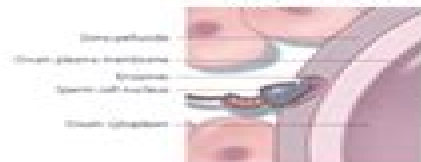
### Male reproductive system

The adult male reproductive system is a collection 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 called the scrotum, which provides support and regulates the position of the testes relative to the body. The scrotum moves because of the testes' need to change its external temperature to maintain the proper temperature within the testes for sperm formation.

Seminiferous tubules produce sperm cells, which are transported to the epididymis, a structure located in the scrotum responsible for maturing the sperm and bringing it to the urethra and penile opening. The development of male secondary sex characteristics.

### Acrosomal reaction



### Fusion of plasma membranes



### Fertilization

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

### Zona reaction



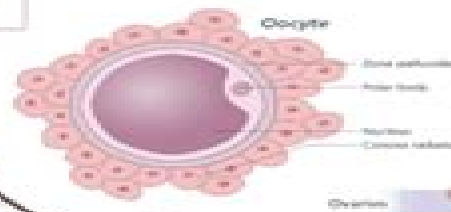
### 2-cell stage



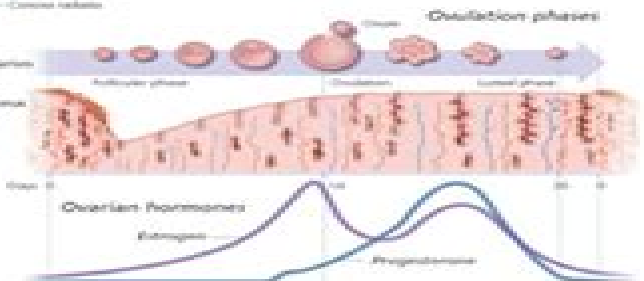
### Female reproductive system

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 receives the penis and provides a passage for sperm and menstrual discharge. The uterus is a hollow, pear-shaped organ with muscular walls that contract during childbirth. The inner lining of the uterus is the endometrium, which sheds during each menstrual cycle in preparation for implantation by a fertilised egg. This lining is shed during menstruation if fertilisation does not occur.

### Spermatogenesis

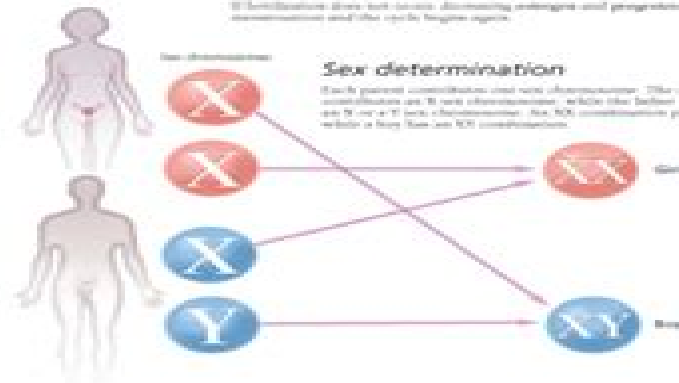


The ovaries, located on each side of the uterus, are responsible for producing ova as well as the female sex hormones estrogen and progesterone. Estrogens are responsible for the development of the female reproductive structures, sexual characteristics, and breast development. Progesterone prepares the 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 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. If fertilisation does not occur, declining estrogen and progesterone levels initiate menstruation and the cycle begins again.



# Human Reproductive Diagrams

**Rama Shukla**



## **Human Reproductive Diagrams:**

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*Human Anatomy* Kenneth S. Saladin, 2005

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[An Atlas of Human Anatomy for Students and Physicians](#) Carl Toldt, Alois Dalla Rosa, 1919

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arms forearms wrists hands are all considered to be part of the upper extremities while the hips thighs lower legs ankles feet are all considered to be part of the lower extremities      **An Atlas of Human Anatomy** Carl Toldt,1904      **Anatomy and Physiology of The Human Body** Rama Shukla, For B Pharm and D Pharm students studying human anatomy and physiology in the life sciences and allied health disciplines Anatomy and Physiology is a fascinating book There are several fine grained images of the human body including the bones circulatory system and muscles This anatomy book blends fundamental molecular physiology knowledge with a homeostasis based approach to teaching physiology Overall it s a superb textbook for introductory anatomy and a great choice for students who have some prior knowledge of the subject The book uses images analogies and diagrams to effectively illustrate the functional links between the body s organs All of the categories required by PCI are covered by the data which has been provided in a fairly exact manner      Textbook of Human Anatomy William James Hamilton,1982-06-18      *The Facts on File Illustrated Guide to the Human Body* TBD,Diagram Group,2005 Contains information on anatomy physiology major ailments and healthy lifestyles with each volume covering a distinct body system

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