



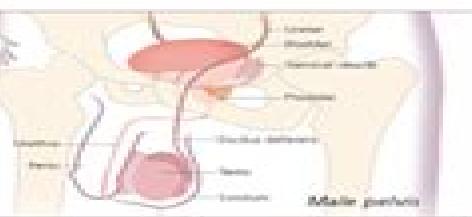
# Human Reproduction



## Human reproduction

Human reproduction is sexual reproduction. Sperm cells and female eggs are the cells called gametes. The reproductive system includes the male and female gametes that produce genetic and chromosomal traits that determine, amongst other components, of gametes.

Reproduction is explained by hormones produced by the gonads, the hypothalamus and the pituitary gland. These hormones control the production of sex hormones that regulate the female reproductive process. In males, for example, it is the testes that produce sex hormones. In females, the ovaries produce sex hormones. These hormones are then released.



## Male reproductive system

The adult male reproductive system is composed of ductus deferens, seminal vesicles, the prostate and the penis. The testes are placed near the body of the body to maintain a temperature slightly cooler than the temperature within the body.

The testes are enclosed in a protective sac called the scrotum, which protects against heat and regulates the production of the testes relative to the body. The testes contain the seminiferous tubules, which are the main reproductive structures within the testes.

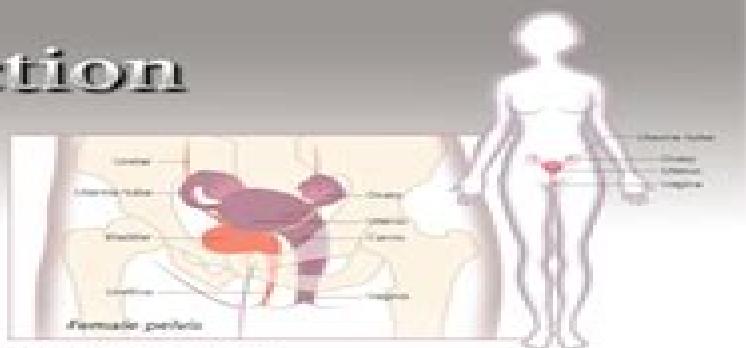
Reproductive cells are produced within the testes for reproduction. These are the sperm cells. Sperm cells are the main function responsible for maintaining the structure and function of the testes and producing the development of male secondary sex characteristics.



## Fertilization

The upper portion of the female body is the usual place for fertilization. Millions of sperm travel through the female reproductive tract, although only about 2000 make it all the way to the egg. When a sperm reaches the surface of the egg, it penetrates the egg, the membrane of the sperm ruptures, releasing enzymes. The sperm travels through a gap made by the ruptured membrane. Within the cell membranes of the egg, the sperm causes an enzyme to release, causing a chemical change in the female gamete.

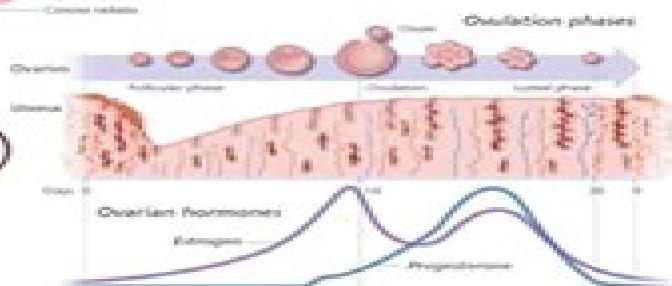
The egg should immediately disengage the chromosomes of the egg and sperm, and aertilized egg is formed. The cleavage process starts with a mitotic division, producing 2 identical cells called blastomeres.



## Female reproductive system

The internal structure of the adult female reproductive system include the uterus, ovaries and sexual cycles. These are the primary organs of the female body. The ovaries are the primary source of female hormones. The ovaries are a reproductive organ containing the eggs and gonadal tissue. The ovaries are the main part of the female reproductive system. The ovaries are a female gonadal organ with ovaries with the primary function of ovulation. The ovaries are also involved in the production of female sex hormones, which includes during each menstrual cycle ovulation, follicular development, and menstruation. The ovaries also secrete

The ovaries, located on each side of the uterus, are responsible for producing eggs as well as other female sex hormones such as estrogen and progesterone. These are important for the development of the female reproductive system, sexual maturation, and female secondary characteristics. Progesterone prepares the uterus for implantation of a fertilized egg cell to necessary for female cell production. The ovaries are connected to the uterus by the uterine tubes, which allow the ovaries to transport the eggs to the uterus.



## Ovulation & the menstrual cycle

The menstrual cycle refers to the duration of time that passes in the development of the female reproductive system. It is approximately 28 days. The purpose is to prepare the uterus for possible pregnancy. The menstrual cycle is governed by the endocrine system.

It illustrates how both estrogen and progesterone levels fluctuate throughout the cycle. The diagram shows the fluctuation of estrogen and progesterone levels during the menstrual cycle.



## Sex determination

Each parent contributes one chromosome. The mother always contributes an X chromosome, while the father contributes either an X or a Y chromosome. An XX combination produces a girl, while a XY combination produces a boy.



# Concept Review Lifetime Health Reproduction

**Wolfgang Guggemos**

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**Textbook of Contraception, Sexual and Reproductive Health** Johannes Bitzer, Tahir A. Mahmood, 2024-01-25 This practical evidence based handbook will meet the needs of those working in the field of SRH care and will also help those preparing for the joint EBCOG and ESCRH Certificate and Diploma examination in Sexual and Reproductive Health and is designed to closely follow the examination's curriculum

Health Transition Review ,1996

**Early life epigenetic programming of health and disease through DOHaD perspective** Luis Antonio Justulin, Elena Zambrano, Susan Ozanne, Thomas Prates Ong, 2023-03-15

**Lifetime Health** Holt Rinehart and Winston, 2005

**Childhood Adversity and Life-course Consequences** Cheryl Zlotnick, Naixue Cui, Nadya Golfenshtein, Yang Li, 2022-08-05

**Energy Research Abstracts** ,1978

**NTP Technical Bulletin** ,1979

**Gender Inequalities, Sexual and Reproductive Health, and Sustainable Development in the Global South** Praveen Kumar Pathak, Shah Md Atiqul Haq, Niharika Tripathi, Tizta

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