

STRUCTURE OF MALE & FEMALE REPRODUCTIVE SYSTEMS

05 MARCH 2014



Lesson Description

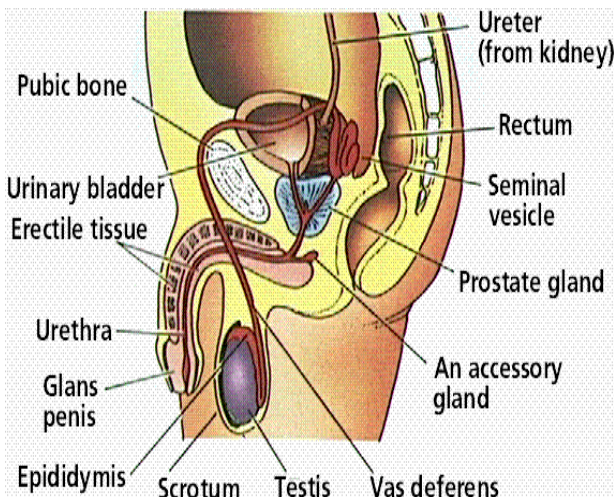
In this lesson we:

- Identify and state the functions of the male reproductive organ - testis, epididymis, vas deferens, seminal vesicle, ejaculatory ducts, prostate gland, Cowper's gland and urethra
- Identify and state the functions of the female reproductive organs - ovary, Fallopian tubes, uterus with uterine wall lined by endometrium, cervix, vagina and its external opening, the vulva
- Identify and state the functions of: follicles at various stages of development; the Graafian follicle and the corpus luteum
- List the main changes that occur in male and female characteristics during puberty

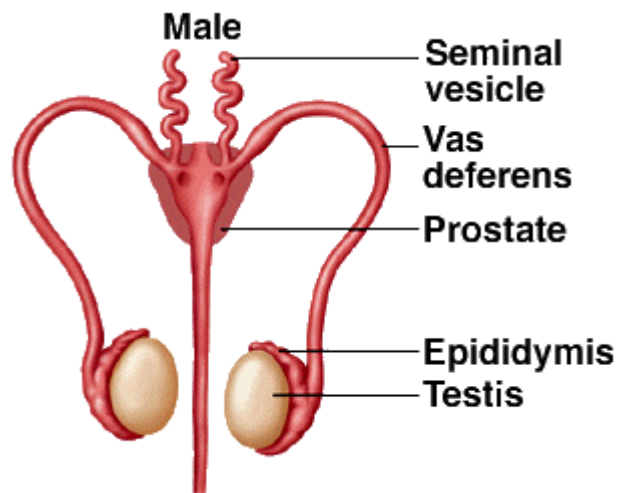


Summary

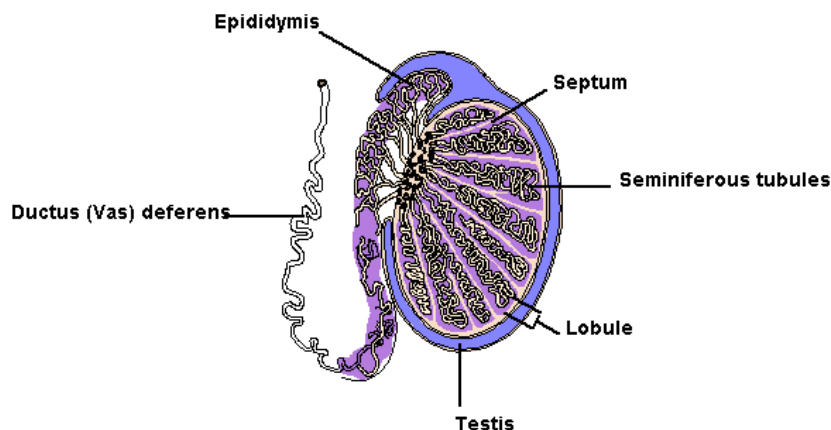
The Male Reproductive System



Side View

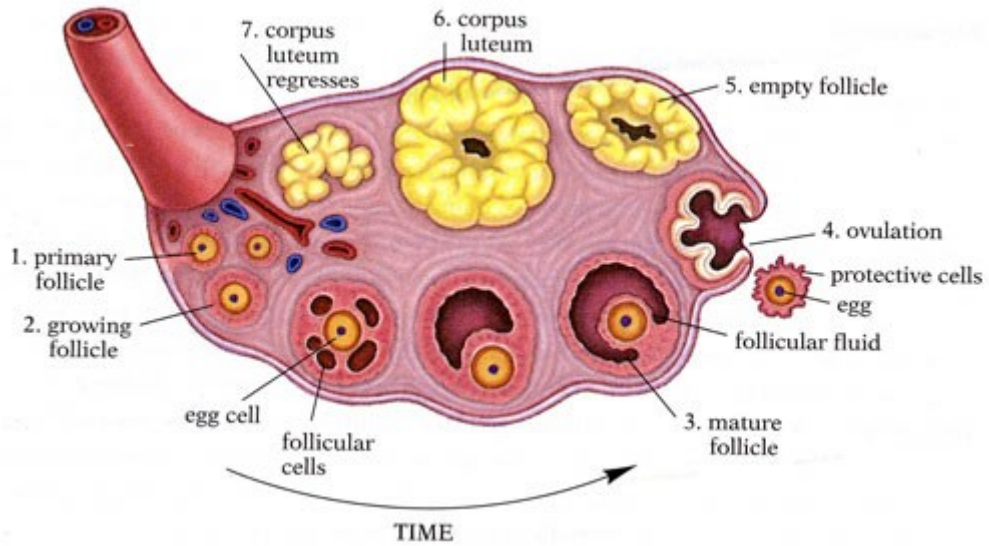
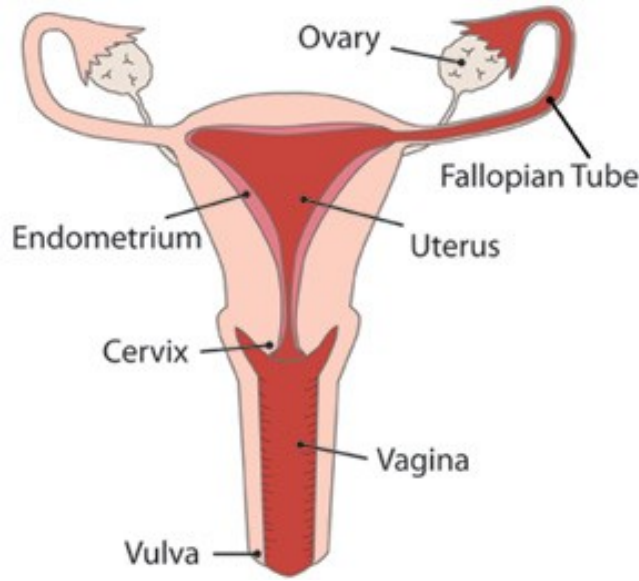


Frontal View

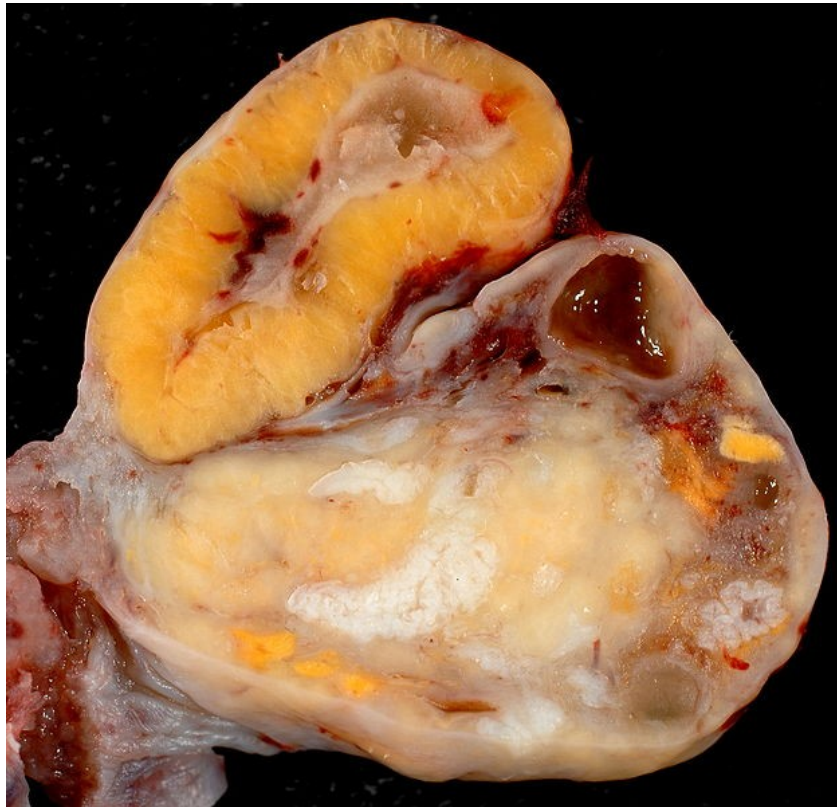


notes for...

The Female Reproductive System



The Ovary



(Human Ovary with Fully Developed Corpus Luteum)



Test Yourself

Select the most correct answer from the options given. Write down only the correct letter

Question 1

Which of the following belong to the female reproductive system?

- (i) Ovary
 - (ii) Vas deferens
 - (iii) Uterus
 - (iv) Urethra
- A (ii) and (iii)
 - B (i) and (iii)
 - C (iii) and (iv)
 - D (i) and (ii)

Question 2

Which ONE of the following represents the correct order of the parts through which spermatozoa pass?

- A Testis → vas deferens → epididymis → ureter
- B Vas deferens → seminal vesicles → ureter → urethra
- C Testis → epididymis → vas deferens → urethra
- D Vas deferens → prostate gland → urethra → ureter

Question 3

The human testes are protected by the ...

- A scrotum
- B prostate gland
- C bladder
- D seminal vesicles

Question 4

Which of the following male and female structures are LEAST alike in function?

- A Seminiferous tubules – vagina
- B Spermatogonia – oogonia
- C Testes – ovaries
- D Vas deferens – Fallopian tube (oviduct)

Question 5

Indicate whether each of the statements in COLUMN I applies to **A only**, **B only**, **both A and B** or **none** of the items in COLUMN II. Write **A only**, **B only**, **both A and B** or **none** next to the question number.

	COLUMN I	COLUMN II
1	The tube leading from the testes to the urethra in males	A: Vas deferens B: Seminiferous tubules
2	Birth canal	A: Uterus B: Urethra
3	Tube that releases sperm from the male	A: Ureter B: Urethra
4	Hormone that stimulates the development of secondary sexual characteristics in males	A: FSH B: Testosterone
5	The part of the female reproductive system where fertilisation takes place	A: Cervix B: Fallopian tube

Question 6

Give the correct biological term for each of the following descriptions. Write only the term next to the question number below.

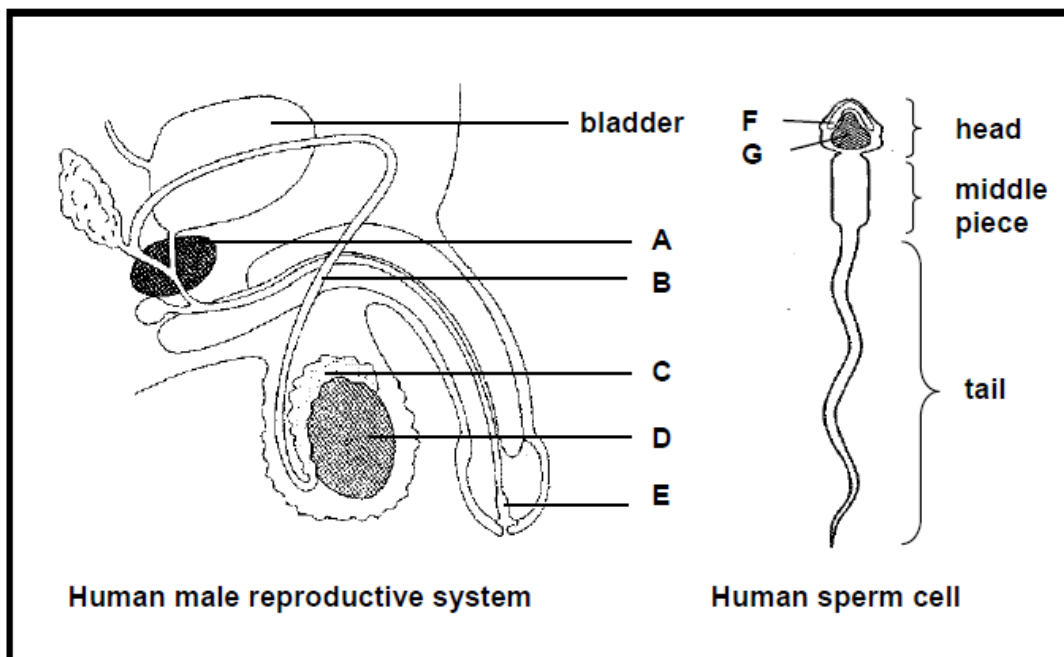
- a.) The part of the reproductive system in males which stores sperm temporarily
- b.) The sac like structures that house the testes
- c.) The lower neck of the uterus that opens into the vagina
- d.) A follicle with a mature ovum.



Improve your Skills

Question 1

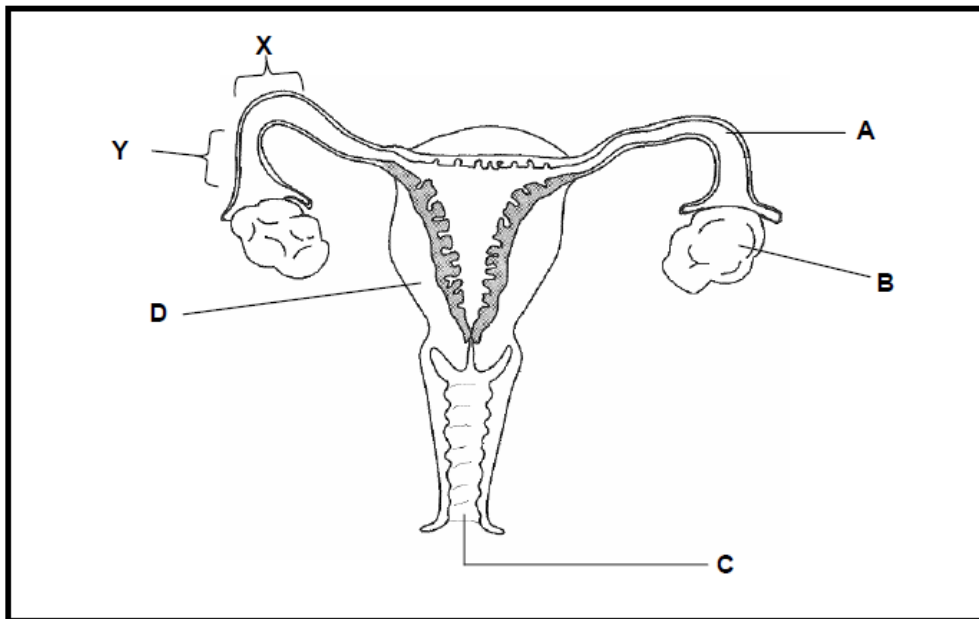
Study the diagram and answer the questions that follow:



- 1.1 Provide labels for A, B, E and G.
- 1.2 State ONE function each of C and F, respectively.
- 1.3 State the LETTER and NAME of the part where sperm are produced.
- 1.4 Explain why it is necessary for part D to 'hang outside' the body of the male.
- 1.5 Name the following:
 - (a) The cells that secrete a male sex hormone
 - (b) The hormone that stimulates the development of secondary sexual characteristics in males
- 1.6 Predict what would happen if labelled B is blocked for some reason.

Question 2

The diagram below represents the female reproductive system. Study the diagram and answer the questions that follow:



- 2.1 Label structures A, B and C.
- 2.2 State THREE functions of D.
- 2.3 Fertilisation usually takes place at Y. Why will a blockage at X:
 - (a) Prevent fertilisation at Y
 - (b) Not necessarily lead to infertility

Question 3

Draw Diagrams to illustrate the differences between a human sperm and ovum.

Question 4

State the term used for the time of life when a person becomes sexually mature. Also describe features in males and females that are indicative of them reaching sexual maturity.



Links

- Learn Xtra Live 2013:
<http://www.youtube.com/watch?v=3yup3lcFArc&list=PL0aNAKtW5HLRVviGcDRDLzfezhqXdLygU>