Anatomy and Physiology - Reproductive System Cheat Sheet by Cocobaby927 via cheatography.com/197024/cs/41477/

Reproductive Organs

Primary sex organs (Gonads)

- · Testes in males
- · Ovaries in females
- Gonads produce gametes (sex cells) and secrete

hormones

- Sperm-male gametes
- · Ova (eggs)-female gametes

Secondary sex organs: Provide the route by which sex

cells unite

Male Reproductive System Testes Vas Accessory Deferens Glands The penis and The vas Prostate the scrotum deferens Gland: are the travels up Encircles the urethra and external through portions of the ejaculatory the duct. -male reprodspermatic uctive system. cord, into Secrets a Inside the the pelvic thin, milky, alkaline fluid scrotum reside cavity, two testes, the into urethra. over the organs that ureter to --Adds manufacture volume to the sperm and prostate, semen and produce the and comprises male hormone behind 30% of the testosterone the fluid portion bladder. of semen

	uctive System (c	Jointy
Extending	As the vas	Seminal
from the	deferens	Vesicles:
abdomen	turns	secretes a
to each	downward, it	thick,
testicle is a	joins the	yellowish
strand of	seminal	fluid into the
connective	vesicle to	ejaculatory
tissue	form the	duct. The
called the	ejaculatory	fluid
spermatic	duct. (There	comprises
cord; the	are two	about 60% of
sperm duct	ejaculatory	semen; it
(vas	ducts: one	contains
deferens)	for each	fructose (an
as well as	testis.) The	energy
blood and	ejaculatory	source for
lymphatic	ducts pass	sperm
vessels	through the	motility) and
and nerves	prostate and	substances
lie within	empty into	that nourish
the cord	the urethra.	and ensure
		sperm

motility

Male Reproductive System (cont)

Two small,	Ejacul-	Bulbourethra
oval testes	atory	Glands: secrete a
lie	Duct	clear fluid into the
suspended	empties	penile portion of
in a sac of	into the	the urethra during
tissue	urethra,	sexual arousal.
called the	moving	Besides serving as
scrotum.	sperm	a lubricant for
	via	sexual interc-
	PERIST	ourse, the fluid
	ALSIS	also neutralizes
		the acidity of
		residual urine in
		the urethra, which
		would harm the
		sperm.
The median	septum divi	des the scrotum.

The cremaster muscle surrounds the spermatic cord and testis. In cold weather, it contracts to draw the testes closer to the body for warmth.

Components of
accessory gland
secretions
Liquid portion acts
as a transport
medium to dilute
sperm
Sperm are stream-
lined cellular
"tadpoles"

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Seme	n ((cont)
Conno		Joint

5% comes from bulbourethral gland	Fructose provides energy
	cells
Emitted during the ejaculation that accompanies orgasm, semen is a whitish fluid containing both sperm and the fluid secretions of the accessory glands. Each ejacul- ation expels between 2 and 5 ml of semen containing between 40 and 100 million sperm.	Alkalinity of semen helps neutralize the acidic enviro- nment of vagina
Immediately after eiaculation.	Semen

inhibits

bacteria

Immediately after ejaculation, semen becomes sticky and jelly-like. This promotes fertilization by allowing the semen to stick to the walls of the vagina and cervix instead of immediately draining out. The alkalinity of semen counteracts the acidity of the vagina; this is important because sperm become immobile in an acidic environment.

Male Reproductive



Male Reproductive System - E	External
Genitalia	

Penis	Regions of the penis
Male organ of copulation that delivers sperm into the female reproductive tract	Shaft
Internally there are three areas of spongy erectile tissue around the urethra	Glans Penis - Enlarged tip
Erections occur when this erectile tissue fills with blood during sexual excitement	Prepuce - Forskin
	Prepuce is

often removed with circumcision

Spermatogenesis		
1-Sperm begin as	Sperm	Sperm
spermatogonia,	Production	are
primitive sex cells		formed
located in the walls		in the
of the seminiferous		semini
tubules.		ferous
		tubules
		of the
		testis

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Spermatogenesis (cont)

2-Spermat- ogonia divide by mitosis to produce two daughter cells, each with 46 chromosomes.	Begins at puberty and continues throughout life	Sperma- togonia (primitive stem cells) begin the process by dividing rapidly
3-These cells then differentiate into slightly larger cells called primary spermatocytes, which move toward the lumen of the seminiferous tubule.	Millions of sperm are made every day	During puberty, follicle-sti- mulating hormone (FSH) is secreted in increasing amounts

4-Through meiosis, the primary spermatocyte yields two genetically unique secondary spermatocytes, each with 23 chromosomes.

5-Each secondary spermatocyte divides again to form two spermatids.

6- Spermatids differentiate to form heads and tails and eventually transform into mature spermatozoa (sperm), each with 23 chromosomes.

Vas Deferens

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Testosterone Production

During puberty	Testosterone
Follicle-stimul- ating hormone (FSH) begins prodding seminiferous tubules to produce sperm	Most important hormonal product of the testes
Luteinizing hormone (LH) begins activating the interstitial cells to produce testosterone	Stimulates reproductive organ development
	Underlies sex drive

Causes secondary sex characteristics Deepening of voice Increased hair growth Enlargement of skeletal muscles Increased bone growth and density

Female Reproductive System

Ovaries

Duct system • Uterine (fallopian) tubes • Uterus • Vagina

External genitalia



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Female Reproductive System

The organs of the female reproductive system are housed within the abdominal cavity.

The female's primary reproductive organs (gonads) are the ovaries. The ovaries produce ova, the female gametes.

The accessory organs—which include the fallopian tubes, uterus, and vagina— extend from near the ovary to outside the body.

nternal Genitalia



Internal Genitalia			
Fallopian Tubes	Uterus	Vagina	
extend from the ovary to the uterus	A muscular chamber that houses and nurtures a growing embryo.	A receptacle for the penis and sperm, a route for the discharge of menstrual blood, and the passageway for the birth of a baby.	
A narrow isthmusis the portion closest to the uterus.	It sits between the urinary bladder and the rectum, held in place by the broad ligament.	The smooth muscle walls of the vagina can expand greatly, such as during childbirth.	

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Internal Genitalia (cont)

The middle portion (the ampulla) is the usual site of egg fertil- ization.	It tilts forward over the bladder. The curved, upper portion is the fundus	The vagina extends slightly beyond the cervix, creating pockets called fornices.
Cilia lining the inside of the beat to help propel the egg toward the uterus	The upper tw connect with tubes.	the fallopian
The distal end is the infundibulum.	The inferior e	end is the
. The fallopian tube does not attach directly to the ovary; finger-like projections called fimbriae fan over the	A passagewa cervix, called canal, links th the vagina. G the cervical of thick mucus; ovulation, the to allow spen	ay through the the cervical ne uterus to Blands within canal secrete during e mucus thins m to pass.

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Uterine (Fallopian) Tubes
Form the initial part of the duct system
Receive the ovulated oocyte from the ovaries
Provide a site for fertilization
Empty into the uterus
Little or no contact between ovaries and uterine tubes
Supported and enclosed by the broad ligament
Infundibulum • Distal, funnel-shaped end
Fimbriae • Fingerlike projections of the

infundibulum • Receive the oocyte from the ovary • Cilia located inside the uterine tube transport the oocyte

Perime- trium	Myometrium	Endometrium
Outer layer consisting of a serous membrane	Thick middle layer consisting of smooth muscle that contracts during labor	Innermost layer where embryo attaches
		Stratum functi- onalis
		• Thickens each month in anticipation of fertilized egg • If fertilization doesn't occur, it sloughs off, resulting in menstruation

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Attaches the endometrium to the
myometrium • Does not slough off; rather it
helps functionalis layer regenerate each
month

Roles of the wall of the uterus: house and nourish growing fetus and expel fetus from body during delivery.