

Medical terminology Lecture 5 Genitourinary system

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Genitourinary system

The **genitourinary system** or **urogenital system** is the organ system of the reproductive and urinary systems. They are grouped together because of their proximity to each other, their common embryologic origin and the use of common pathways, like urethra in male.

Meaning		
Anatomical and physiological terms of reproductive system		
Organs that produce gametes (sperm and		
ovum) .These organs are testes in male and		
ovaries in female.		
accessory glands and ducts that connect the		
gonads with the outside environment.		
all external reproductive structures.		
A person's child or children.		
In human, it is the union of the egg and sperm.		
The ceasing of menstruation.		
the process in which cells undergo meiosis to		
form gametes.		
The release of the mature eggs from the ovary.		
Cell division process that forms gametes with		
half number of chromosomes.		
A cell division that results in two daughter cells		
each having the same number and kind of		
chromosomes as the parent nucleus, typical of		
ordinary tissue growth.		
the period during which adolescents reach		
sexual maturity and become capable of		
reproduction.		

Infertility	is the inability of a person, animal or plant to
	reproduce by natural means.

Some disorders of reproductive system

Term	Meaning
Cryptorchidism	failure of one or both testes to move into the
	scrotum as the male fetus develops.
Monorchism	is the state of having only one testicle within the
	scrotum.
Bacterial	It is a disease of the vagina caused by excessive
vaginosis	growth of bacteria.
Syphilis	It is a sexually transmitted infection caused by
	the
	bacterium Treponema pallidum affecting the skin
	and mucous membrane of external genital and
	mouth. The signs and symptoms of syphilis vary
	depending on which of the four stages it
	presents (primary, secondary, latent, and
	tertiary).
Gonorrhea, or	is a sexually transmitted infection (STI) caused
Gonorrhoea	by the bacterium Neisseria gonorrhoeae. Men
	symptoms may have burning with urination,
	discharge from the penis, or testicular pain.
	Women symptoms may have burning with
	urination, vaginal discharge, vaginal bleeding
	between periods, or pelvic pain.
Acute prostatitis	It is a serious bacterial infection of the prostate
	gland.

Anatomical and physiological terms of urinary system

Term	Meaning
Urinary system	Consist of kidneys, ureters, bladder, and urethra.

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Nephron	is the microscopic structural and functional unit of the kidney. It is composed of a renal corpuscle and a
	renal tubule. The renal corpuscle consists of a tuft of
	capillaries called a glomerulus and an
	encompassing
	Bowman's capsule. 80% of the urinary nephrons
	are
	almost completely contained within the cortex of
	the
D	kidney.
Renal artery	The blood vessel that enters kidney before
	flowing
	into smaller arteries and then into the afferent
	arterioles which divided into a microscopic ball
	like structures of capillaries called glomeruli.
Efferent	Blood leave the glomerulus flow through these
arterioles	arterioles then form a second set of capillaries called peritubular capillaries that surround the
	tubule. Finally, renal capillaries join to form
	venules and small veins, conducting blood out of
	the kidney through the renal vein.
Bowman's	The beginning part of the nephron surrounding
capsule	the
capsule	glomerulus.
Duestine al trabale	
Proximal tubule	The second part of the renal nephron after
Long of Honlo	bowman's capsule.
Lope of Henle	hairpin-shaped tubular segment of the nephron divided into two limbs, a thin descending limb and
Distal tubula	an ascending limb with thin and thick segments.
Distal tubule	The last tubular part of the nephron which drains into a larger tube called collecting duct. Collecting
	ducts pass from the cortex through the medulla and drain into the renal pelvis.
Urgency	Feeling the need to urinate immediately.
Urgency	
Urinalysis	analysis of urine by physical, chemical, and

microscopical means to test for the presence of
disease, drugs, etc.

Some disorders of urinary system

Term	Meaning
Hypokalemia	Low blood potassium.
Ketonuria	Presence of ketones in urine
Nocturia	Frequent urination at night: not to be confused with
	bed wetting.
Nocturnal	also called bedwetting, is involuntary urination while
enuresis	asleep after the age at which bladder control usually
	occurs.
Incontinent	Loss of self-control.
Nephrolith	Medical term of kidney stone or renal calculus.
Cysto-	Urinary system or bladder.
Bacteriuria	Bacteria in the urine.
Dysuria	Painful or difficult urination.
Anuria	Absence of urine.
Dialysis	a procedure to remove waste products from the
	blood of patients whose kidneys no longer function.
Hemodialysis	removal of unwanted substances from the blood by
	passage through a semipermeable membrane of
	the
	dialysis machine.