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SECTION 2.3 – THE URINARY SYSTEM (textbook pages B52-B55)

The URINARY SYSTEM is also called the "RENAL SYSTEM."

LIFE PROCESSES PRODUCE WASTE

Several systems in your body remove waste material: (Together, these are called the "Excretory System," which we will discuss further when we study the Integumentary

- Digestive System removes solid waste materials from food
- Respiratory System removes waste gases and water vapor from the blood
- Urinary System removes liquid waste materials from the blood
- Integumentary System (Skin) releases wastes through sweat glands

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similar to the way a filter in a fish tank filters waste out of the tank's water The urinary system filters out of the

Important vocabulary for the Urinary System:

Renal, Kidneys, Ureters, Bladder, Urethra, Urea, Urine, Nephrons

KIDNEYS

- You have shaped (like "kidney beans). the abdomen, one under each rib on each side of the spine. Kidneys are beankidneys, each located high up and toward the rear of
- Kidneys are about 10 centimeters long (3.9 inches), about the length of your
- All of the blood in your body travels through your kidneys many times per day. They
- filter out chemical waste (urea and urine) from the blood Kidneys are often called "the body's

kidney and is included in the urine that you release from your body. UREA - A in your bloodstream that is removed by the

URETERS

bladder. (You have travels down tubes called "ureters." The ureters After chemical waste (unne) is removed from the blood by the kidneys, the urine ureters, one attached to each kidney.) the urine to the

BLADDER

until it is released from the body. The walls of the bladder have muscle (involuntary). The lower neck of the bladder leads into the urethra, and has The bladder is a sac that the liquid chemical waste (urine)

URETHRA

you are ready to go to the bathroom and release the urine

muscles that you can keep closed until

that carries liquid waste from the bladder to outside the body. (This is when you "urinate," or pee.) The urethra is a

(urine) is collected and sent to the ureter for elimination through the bladder and blood to recirculate back through the body's bloodstream. The filtered liquid waste regulate the makeup of the blood, filtering out liquid waste and allowing the rest of the looping tubes called HOW DOES THE KIDNEY WORK? Inside the kidney there are about one million The NEPHRONS

blood and returns the clean blood back into the patient's bloodstream. (You might notice kidney dialysis centers around the community.) Kidney Dialysis. The patient gets hooked-up to a machine that filters toxins out of the FYI - Sometimes a kidney does not work properly and the person has to have regular

WHAT ELSE DO KIDNEYS DO? Kidneys also regulate the amount of

dehydration and will interfere with cell processes body swell and can increase your blood pressure. in the body. Too much water can make your Too little water can cause

The kidneys control how much water leaves the body in urine. of water leaves the body every day

URINARY SYSTEM

