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RENAL PHYSIOLOGY ASSIGNMENT

Discuss the diseases of the Renal system

Renal system disease - any of the diseases or disorders that affect the human urinary system. They include benign and malignant tumours, infections and inflammations, and obstruction by calculi. The urinary system is susceptible to a variety of infections and other problems, including blockages and injuries. Different specialists treat urinary system ailments. Nephrologists treat kidney diseases, while urologists treat problems with the urinary tract, including the kidneys, adrenal glands, ureters, bladder and urethra, according to the American Urological Association (AUA). Urologists also treat the male reproductive organs, while gynecologists often treat urinary diseases or disorders in females, including yeast infections. Nephrologists and urologists often work with endocrinologists or oncologists, depending on the disease.

#### 1. Urinary Tract Infections:

Urinary tract infections (UTIs) occur when bacteria enter the urinary tract; they can affect the urethra, bladder or even the kidneys. While UTIs are more common in women, they can occur in men. UTIs are typically treated with antibiotics, according to Dr. Oscar Aguirre, a urogynecologist in Denver.

#### 2. Interstitial Cystitis:

Interstitial cystitis (IC), also called painful bladder syndrome, is a chronic bladder condition, primarily in women, that causes bladder pressure and pain and, sometimes, pelvic pain to varying degrees, according to the Mayo Clinic. It can cause bladder scarring, and can make the bladder less elastic. While the cause isn't known, many people with the condition also have a defect in their epithelium, the protective lining of the bladder.

#### 3. Urinary Incontinence:

Incontinence is another common disease of the urinary system. The most common bladder problems in men are frequent urination at nights and incomplete bladder emptying. This is usually due to an enlarged prostate causing obstruction of bladder emptying.

Problems can come in the form of a pelvic prolapse, which can result in leakage and can be the result of a vaginal delivery. Then there is the overactive bladder which is not related to having children or trauma. A third condition involves overflow, in which the bladder does not completely

empty.

Some common treatments involve medications, physical therapy and pelvic mesh surgery. Vaginal laser surgery is also becoming a viable treatment option.

#### 4. Prostatitis

Prostatitis is a swelling of the prostate gland and, therefore, can only occur in men. Often caused by advanced age, symptoms include urinary urgency and frequency, pelvic pain and pain during urination.

#### 5. Kidney Stones

Kidney stones are clumps of calcium oxalate that can be found anywhere in the urinary tract. Kidney stones form when chemicals in the urine become concentrated enough to form a solid mass. They can cause pain in the back and sides, as well as blood in the urine. Many kidney stones can be treated with minimally invasive therapy, such as extracorporeal shock wave lithotripsy, which disintegrates the kidney stones with shock waves.

#### 6. Kidney/ Renal Failure a.k.a Chronic Kidney Disease:

Kidney failure, also called renal failure and chronic kidney disease, can be a temporary (often acute) condition or can become a chronic condition resulting in the inability of the kidneys to filter waste from the blood. Other conditions, such as diabetes and hypertension, can cause chronic kidney disease. Acute cases may be caused by trauma or other damage, and may improve over time with treatment. However, renal disease may lead to chronic kidney failure, which may require dialysis treatments or even a kidney transplant.

#### 7. Bladder Cancer:

Many people with bladder cancer can have blood in their urine but no pain while urinating. There are a number of symptoms that might indicate bladder cancer like fatigue, weight loss, and bone tenderness, and these can indicate more advanced disease.