THE URINARY SYSTEM

The human's urinary system consists of two kidneys, two **ureters**, a **urinary bladder** and a **urethra**. Its function is to secrete and excrete the urine, and it is connected with the renal tract.

Urinary Disorders

The section of medicine that deals with the urinary disorders is called **urology**.

A term used to describe the elimination of urine from the blood is the **urinary output**. Any change in amount or type of output can indicate a **disorder of the urinary system** as:

- a) Anuria-no urine is produced,
- b) Uraemia suppressed urine production, waste products remain in circulating blood,
- c) Polyuria excessive secretion of urine,
- d) Nocturia elimination of urine several times during the night,
- e) Incontinence inability to control urination,
- f) Retention of urine failure to eliminate urine from the bladder.

Urinary disorders can be diagnosed by tests on urine, blood chemistry, radiological examinations, e.g. **cystoscopy**, (which is an insertion of a light scope into the urethra and bladder to allow direct visualisation under a local or general anaesthetic and is used to identify stones, tumours or strictures) or a **renal biopsy** (removal of renal tissue for microscopic study, a surgical procedure done by a nephrologist), ultrasound and tomography.

Cystitis is an inflammation of the bladder lining caused by bacteria or by injury. Bacteria can enter the bladder through the urethra and pathogens grow in urine that is retained in the bladder for a long period. Cystitis is more common in females than in males because their urethra is shorter and pathogens from the vulva and anus can gain entrance more easily. The symptoms are the frequent desire to void and elimination of a small amount of urine, a burning sensation that accompanies urination and blood-tinged urine. Bacteria in the bladder can travel upward in the tract and cause the infection of the ureter (ureteritis) or the kidney. Also the recurrence rate of cystitis is common so it must be treated long and carefully with antibacterial medications of the sulphonamide group or urinary antiseptics.

VOCABULARY adrenal glands [æ'dri:nl glænds] nadledvinky albumin [æl'bju:min] bílkovina bladder [blædə] močový měchýř Bowman's capsule [bəu'mæns kæpsju:l] Bowmanovo pouzdro močový válec (mikroskop.) cast[ka:st] cloud [klaud] zákal cortex [ko:teks] kůra creatinine [kriˈætini:n] kreatinin cystitis [sis taitis] zánět močového měchýře dilatation [dailei teišn] rozšíření drainage [dreinidž] drenáž encapsulated [in'kæpsjuleitid] opouzdřený excrete [eks'kri:t] vyměšovat filtrate [filtreit] filtrát, filtrovat ložiskový focal [faukl] frequency [fri:kwensi] četnost, frekvence glomerulus [glo'meruləs] klubíčko, glomerul granular [grænjulə] zrnitý haematuria [hi:məˈtjuəriə] krev v moči téci leak [li:k] unikání, ztráta leakage [li:keidž] dřeň, mícha medulla [mə'dalə] zánět ledvin nephritis [ne'fraitis] výdei output [autput] zde: močit pass water [pa:s wo:tə] podvěsek mozkový, hypofýza pituitary gland [pi'tjuitəri glænd] předstojná žláza, prostata prostate gland [prosteit] kost stydká pubis [pju:bis] zpětné vstřebávání reabsorbtion [ri:əb'so:pšn] uvolnit, vypustit release [ri'li:s] renal [ri:nl] ledvinový ledvinná pánvička renal pelvis [pelvis] secretion [si'kri:šn] vvlučování sediment [sediment] usazenina stones [staunz] kameny

stricture [strikčə]
symphysis pubis [simfisis pju:bis]
tubule [tju:bju:l]
urea [juəriə]
urine [juərin]
vena cava [vi:nəˈkeivə]
void [void]

zúžení
spona stydká
kanálek
močovina
moč
dutá žíla
vyprázdnit, prázdný