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Department: Nursing Science

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Assignment

Write a short note on urinalysis

A Urinalysis is a group of physical, chemical, and microscopic tests. The tests detect and/or measure several substances in the urine, such as by-products of normal and abnormal metabolism, cells, cellular fragments and bacteria.

Urine is produced by the kidneys, two fist-sized organs located on either side of the spine at the bottom of the ribcage. The kidneys filter wastes out of the blood, help regulate the amount of water in the body, and conserve proteins, electrolytes, and other compounds that the body can reuse. Anything that is not needed is eliminated in the urine, travelling from the kidneys through ureters to the bladder and then through the urethra and out of the body. Urine is generally yellow and relatively clear, but each time a person urinates, the color, quantity, concentration, and content of the urine will be slightly different because of varying constituents.

A complete urinalysis consists of three distinct testing phases:

1. Visual examination, which evaluates the urine's color and clarity
2. Chemical examination, which tests chemically for about 9 substances that provide valuable information about health and disease and determines the concentration of the urine
3. Microscopic examination, which identifies and counts the type of cells, casts, crystals, and other components such as bacteria and mucus that can be present in urine