Chapter 22 Assisting With Specimens

Collecting Specimens

- Specimens (samples) are collected and tested to prevent, detect, and treat disease.
- The doctor orders what specimen to collect and the test needed.
- All specimens sent to the laboratory require requisition slips.

Urine Specimens

- The random urine specimen
 - > The random urine specimen is collected:
 - For a routine urinalysis
 - Any time during a 24-hour period
 - > Many people can collect the specimen themselves.
 - Weak and very ill persons need help.

Midstream Specimen Collection

- The midstream specimen (clean-voided specimen or clean-catch specimen)
 - The perineal area is cleaned before collecting the specimen.
 - > To collect the specimen:
 - The person starts to void into a receptacle.
 - Then the persons stops the stream of urine.
 - A sterile specimen container is positioned.
 - The person voids into the container until the specimen is obtained.
 - You may need to position and hold the specimen container in place after the person starts to void.

Testing Urine

 The doctor orders the type and frequency of urine tests.

Testing for pH

- Urine pH measures if urine is acidic or alkaline.
- Normal urine pH is 4.6 to 8.0.
- A routine urine specimen is needed.

Testing for glucose and ketones

- The diabetic person may have glucose and acetone (ketone bodies, ketones) in the urine.
- Urine is tested for glucose and ketones.
- The doctor uses the test to make drug and diet decisions.

Testing Urine, cont'd.

Testing for blood

- > Hematuria means blood in the urine.
- > Blood that is not seen is occult blood.
- > A routine urine specimen is needed.

Using reagent strips

- Reagent strips have sections that change color when they react with urine.
- To use reagent strips, follow the manufacturer's instructions.
 - Do not touch the test area on the strip.
 - Dip the strip into urine.
 - Compare the strip with the color chart on the bottle.

Stool Specimens

- Stools are checked and studied for blood, fat, microbes, worms, and other abnormal contents.
- The stool specimen must not be contaminated with urine.
 - The person uses one receptacle for voiding and another for a bowel movement.
- Some tests require a warm stool.
 - The specimen is taken at once to the laboratory or to the storage area for transport to the laboratory.

Sputum Specimens

- Mucus from the respiratory system is called sputum when expectorated (expelled) through the mouth.
- Sputum specimens are studied for blood, microbes, and abnormal cells.
- The person coughs up sputum from the bronchi and trachea.
 - > It is easier to collect a specimen in the morning