## Who are Medical Laboratory Professionals?

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## **Medical Laboratory Technologists (MLTs)**

Analyze tissue samples, blood and other body fluids. They provide results to physicians for a diagnosis and potential treatment. There are 3 MLT designations: General, Clinical Genetics, and Diagnostic Cytology.

## General MLTs specialize in several areas:

- Clinical Chemistry tests blood and body fluid to detect chemicals, hormones, and/or drugs.
  - Common Test: Glucose and Hemoglobin Alc to detect diabetes
- Clinical Microbiology tests blood, body fluid and/or tissue samples to detect bacteria, fungi, viruses, and/or parasites.
  - Common Test: Throat swab to detect strep throat.
- Hematology detects diseases disorders of the blood.
   Common Test: Hemoglobin to detect anemia.
- Transfusion Science conducts blood typing and compatibility tests. Common Test: Cross-matching for blood transfusion.
- Histology prepares samples of body tissue to detect disease.
   Common Test: Biopsy of a breast lump.

Clinical Genetics MLTS specialize in DNA and chromosomal analysis to detect diseases or abnormalities. Common Test: Cheek swab or saliva test to detect genetic predisposition to certain cancers, like breast or stomach cancer.

Diagnostic Cytology MLTS specialize in microscopic cellular analysis to detect precancerous cells, cancerous cells and other cellular-based diseases. Common Test: PAP test to detect cervical cancer.

## **Medical Laboratory Assistants (MLAs)**

Often collect samples directly from patients. They sort, prepare and sometimes process samples which are analyzed by a Medical Laboratory Technologists.

Common Practice: Blood Collection

