

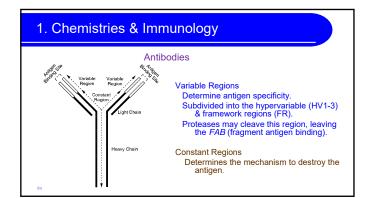
### Topics

- Specimen collection.Studies by categories include:
  - Chemistries & Immunology. Antibodies
     ELISA & other techniques.
     Hematology
     Hemopoiesis

  - Microbiology
  - Urinalysis
  - AnticoagulationArterial Blood Gases.



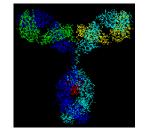


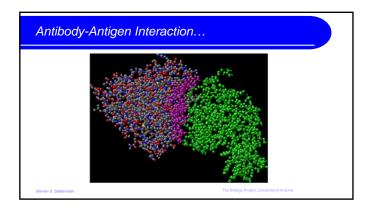


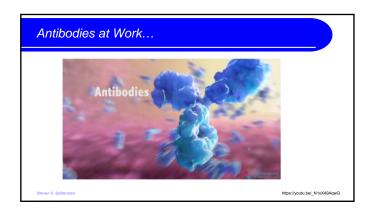
# e.g. IgG Antibody...

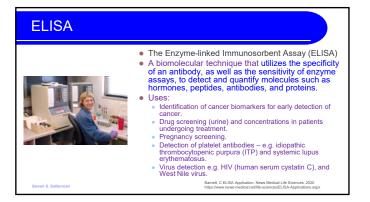
- Heavy chains in blue and blue-green.
- Light chains in green and yellow.
- Carbohydrate in red.

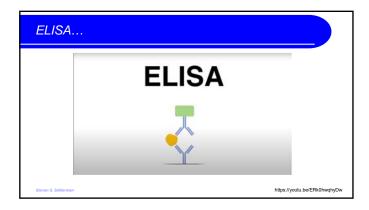
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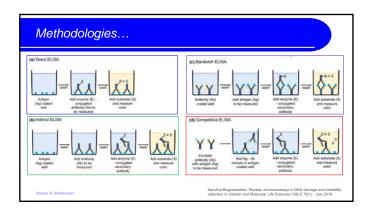




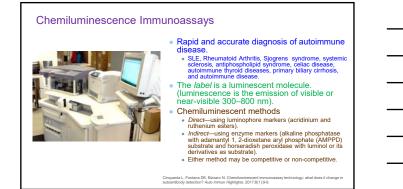




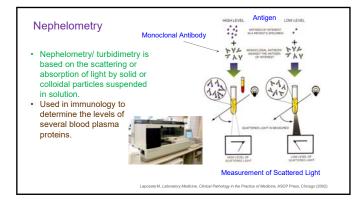




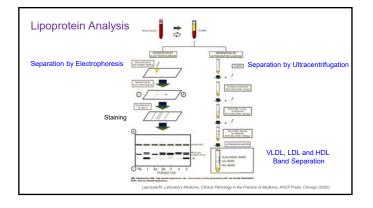




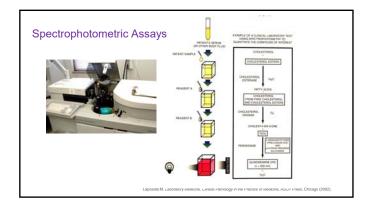


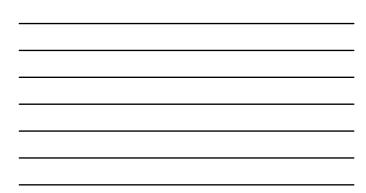


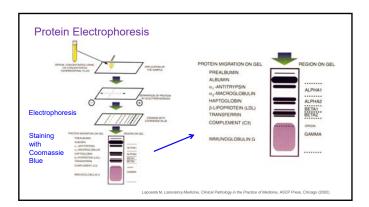










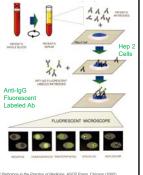


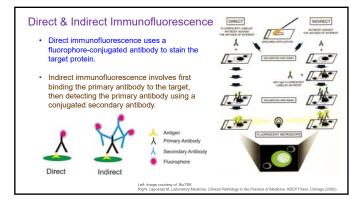


#### Antinuclear Antibodies (ANAs)

- Normally antibodies, produced by white blood cells 9B cells) recognize and combat infectious organisms in the body. ANAs are produced by a person's immune system, and mistakenly directed towards normal, naturally-occurring proteins in our bodies. By itself, a positive ANA test does not indicate the presence of an autoimmune disease or the need for therapy. Diseases include lupus, scleroderma, Sjögren's syndrome, polymyositis/dermatomyositis, mixed •
- .
  - syndrome, polymyositis/dermatomyositis, mixed connective tissue disease, drug-induced lupus, autoimmune hepatitis, and in juvenile arthritis.

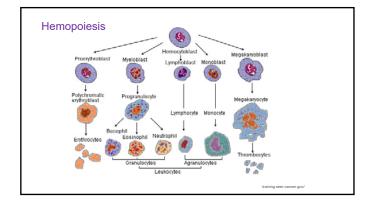
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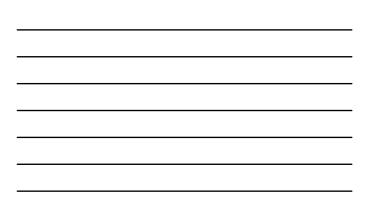


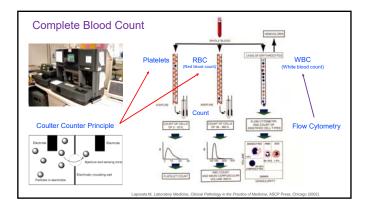




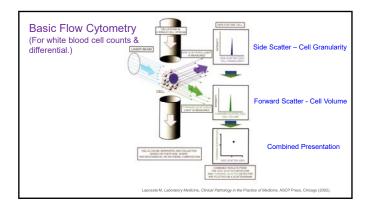




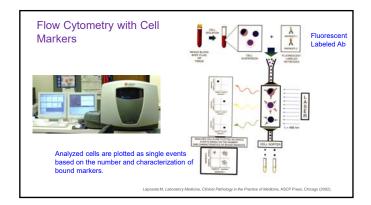


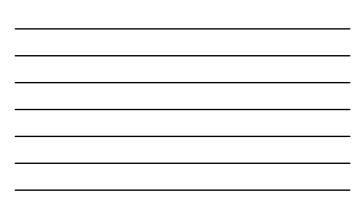


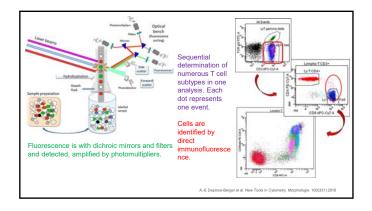


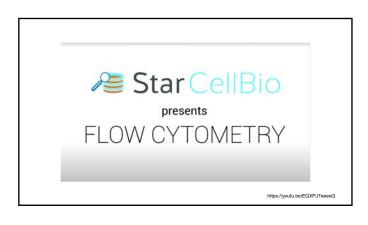


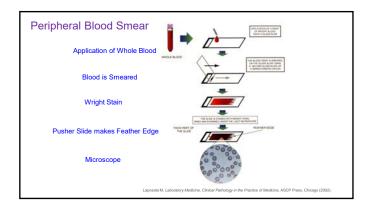


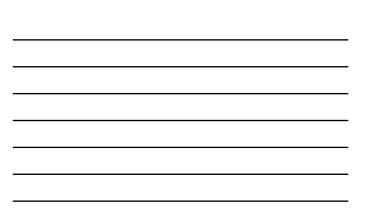


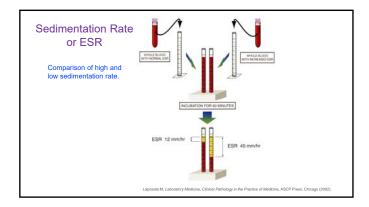




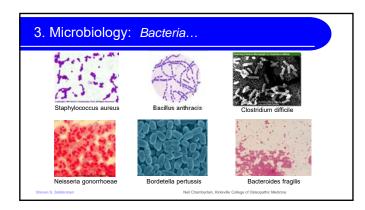



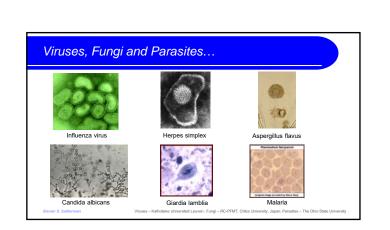


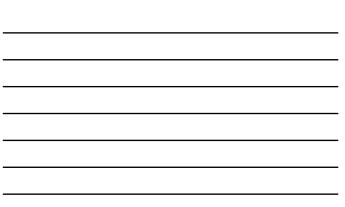


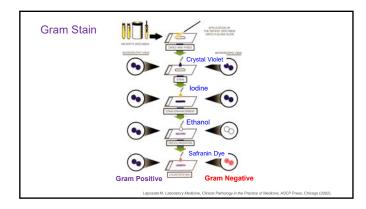




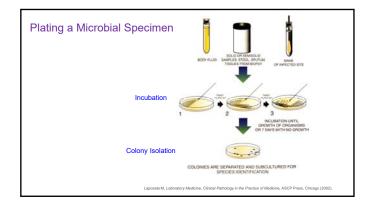




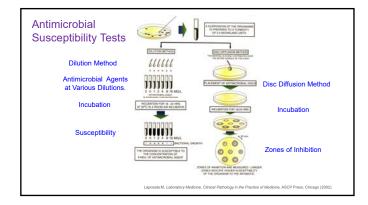




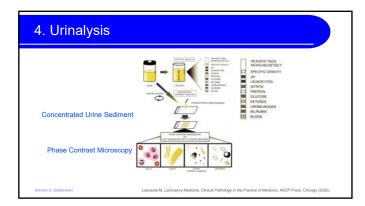














#### 5. Anticoagulation

- Anticoagulant drugs are used in patients with:
- Heart disease (including coronary artery disease and mural thrombi),
  Atrial fibrillation (an arrhythmia),
- Pulmonary embolism (clot in the lung vasculature),
- Deep venous thrombophlebitis (DVT),
- Artificial heart valves and other prosthetic cardiovascular devices, and
   Other disorders.
- Coagulopathies include genetic and acquired deficiencies in coagulation factors, abnormal synthesis performance of the liver in hepatic (liver) diseases.

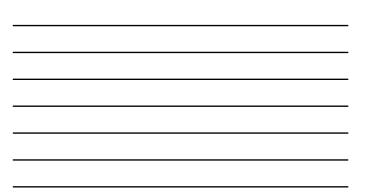
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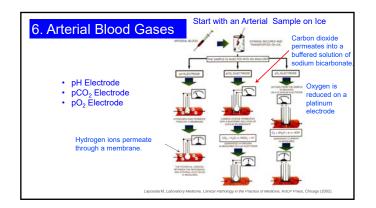
## INR...

- The International Normalized Ratio (INR)
  - Created by the World Health Organization (WHO) because PT results can vary depending on the thromboplastin reagent used.
  - The INR is a conversion unit that takes into account the different sensitivities of thromboplastins.
  - The INR is widely accepted as the standard unit for reporting PT results.

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### Summary

- Specimen collection.
- Studies by categories include:
   Chemistries & Immunology.
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     Antibodies
     ELISA & other techniques.
     Hematology
     Hemopoiesis

  - Microbiology
  - Urinalysis
  - Anticoagulation
  - Arterial Blood Gases