

**CLINICAL INTERNSHIP 1**  
**CLINICAL CHEMISTRY**

**OVERVIEW OF AUTOMATED CLINICAL CHEMISTRY TESTS**

Machines used in sequence:

- For routine chemistry tests:
  - Siemens Dimension
  - Pentra C400
- For blood gas and electrolyte tests:
  - OPTI-CCA TS

Clinical chemistry evaluates the biochemical components of the liquid portion of the blood which is plasma/ serum. Most commonly used specimen is serum.

\*What are the different tests in clinical chemistry?

- **Kidney Function Test** which include creatinine, blood urea nitrogen (BUN) and uric acid.
  - ❖ **Creatinine and BUN** measures kidney function.
  - ❖ **Creatinine** is the more specific test and is done using either enzymatic or colorimetric methods. Enzymatic is said to be the better method for the determination of any laboratory tests.
  - ❖ **Uric acid** is not really a kidney function test but it can also attest kidney function, while it's also an indicator of joint diseases especially rheumatoid, gouty arthritis and other types of arthritis.
- **Liver or Hepatic Panel** this includes ALT (SGPT), AST (SGOT), total protein, albumin, globulin, alkaline phosphatase, direct and indirect bilirubin and GGT (an indicator of alcoholic cirrhosis) while all other test will test liver function.
  - ❖ **Prothrombin time** is also part of the hepatic panel, it can assess several clotting factors and also vitamin K dependent this includes factors 2, 7, 9 and 10.
  - ❖ **Clotting factors: 2, 7, 9, and 10** - independent on prothrombin time because they are **vitamin K dependent**.
- **Thyroid Panel** this includes TSH, Free T3, Free T4, T3 and T4.
  - ❖ All of this test will attest hyperthyroidism, hypothyroidism and euthyroidism.
- **Executive Panel #3/ Cardiac Panel** it will assess cardiac enzymes like the CKMB (creatinine-kinase-MB) and AST.
  - ❖ The most accurate cardiac enzyme is called the **CKMB** because it is more secreted by the cardiac muscle and it is not so concentrated in the skeletal muscle.
  - ❖ The most specific protein and the most specific cardiac muscle is **Troponin.**
    - It has two types: **Troponin T and Troponin I**
      - Both are specific except the troponin I lacks periodicity compared to troponin T. **Troponin I** is more specific. Other tests in cardiac function although it is not done in the hospital includes myoglobin and AST (not anymore part of the cardiac panel).

# Clinical Chemistry Case Studies Answers

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