

CLINICAL CHEMISTRY

February 11, 2022 | Kerfelcel B. Retoriano, RMT, MT (ASCP) SC, MPH, MSMT

OUTLINE

- I. INTRODUCTION
- II. SPECIMEN COLLECTION AND PROCESSING
- III. QUALITY ASSESSMENT
- IV. KIDNEY FUNCTION
- V. CARBOHYDRATES
- VI. PROTEINS AND ELECTROPHORESIS

INTRODUCTION

LABORATORY ANALYSIS

The goal of the lab analysis is to provide reliable lab data to the health care provider in order to assist in clinical decision making.

- **End User** - Patient, whatever the decision of the doctor based on the results the user will be patient
- **Primary Goal:** Accurate and precise lab result
 - Combination of quality control and constant monitoring
- **Accuracy** - nearness to the true value
 - E.g: FBS of 100 mg/dl that's the true value of the pen analyte
 - Increase accuracy = decrease systematic error
- **Precision** - repeatability of the test
 - eg: BUN of a patient, whatever result we will get will be the same result of the patient when repeat
 - Increase precision = decreased random error
- Systematic error and random error comprise the **TOTAL ERROR**.
- The total error (TE) of the analyzer should be less than the allowable error (AE) ($TE < AE$)
 - Eg: Fluorimetry: for every analyte, the total error is being measured.
 - When computing the TE, always compare to AE before using the analyzer.
 - Eg: 10% AE of BUN, TC is 8%: this is less than the AE, hence the machine can be used.
 - The moment the TE becomes higher than AE, you cannot use the machine because it is not accurate and precise.
 - This is applied to all analyzers in the laboratory (regardless of the section)

CHEMISTRY METHOD

WET CHEMISTRY

Wet Chemistry utilizes liquid reagent.

1. Liquid Reagent
 2. Lyophilized Reagent (powder) in composition and added with distilled water to reconstitute the powder
- Most common specimen in CC: **Serum**
 - Most common process: Serum + Reagent = colored solution (measured in spectrophotometer to get the absorbance)

PREPARATION OF LYOPHILIZED REAGENT

- Lyophilized reagent + Distilled water → Reconstituted Reagent

Reconstitution: process of adding distilled water into lyophilized reagent

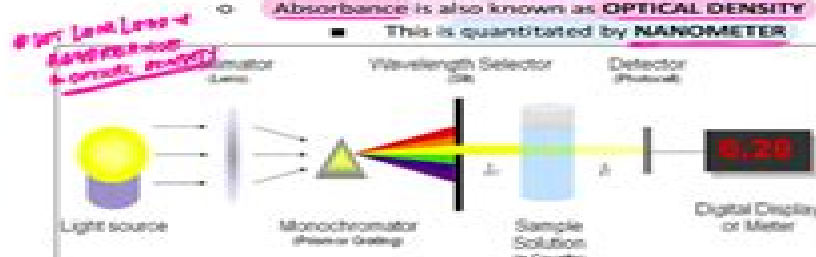
- eg: drinking of 3-in-1 powder coffee by adding water

LYOPHILIZATION

- **Essential:** freezing a material at -40°C or less and then subjecting it to a high vacuum. Very low temp causes the ice to sublime to a vapor state. The solid non sublimable material remains behind a dried state. (Tietz, Chapter 8, p.120)
*ice -> 0 degree water
0 deg -> -1 -> 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100*
- The main reason why reagents are lyophilized is to extend their shelf life.
- Lyophilized reagent according to CLSI tends to have more or longer shelf life and is more stable
 - Liquid tends to deteriorate easily hence decreased quality of results

SPECTROPHOTOMETRY

- Measures the light transmitted/radiant energy (electromagnetic radiation) absorbed by a solution to determine the concentration of a substance in solution
- Absorbance is computed, while concentration is determined
- In spectrophotometry, the relationship of absorbance and concentration of solution is directly proportional whereas absorbance and concentration of the solution is inversely proportional to % transmittance
 - eg: 100 %T = 0 Absorbance
 - Formula to convert T to ABS: $A = 2 - \log \%T$
 - Absorbance is also known as **OPTICAL DENSITY**
- This is quantitated by **NANOMETER**



Note: MEMORIZE THE SEQUENCE

- Light Source
- Collimator/Entrance Slit
- Monochromator: isolates the specific wavelength of interest
- Wavelength Selector/Exit Slit
 - the isolated light exits the exit slit/wv selector
- Sample Solution (in Cuvette)

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1 L 1000 1000

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Henry Marshall Hughes



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