

PHYSICAL PHARMACY

Module 9: Rheology and Biorheology

RHEOLOGY & BIORHEOLOGY

Objectives:

- Discuss the types of interfaces and their application to pharmacy and medicine
- Explain the difference between the liquid interfaces and the solid interfaces and their relation to the formulation and stability of pharmaceutical products
- Relate the application of the surfactants to absorption of drugs and their protective properties

Guide Questions:

1. Explain the fundamental principles of rheology.
2. Discuss the Newtonian and Non-Newtonian systems about the classes of flow.
3. Relate the application of rheology to the manufacture of pharmaceutical products.

Definition of Terms

- **Rheology** is the study associated with the flow of liquid matter and deformation of solid matter.
- **Biorheology** comprises the science of deformation and flow of biological systems or of materials of biological significance; notably, biological fluids.
- **Viscosity** is characterized as the resistance of liquid matter to flow.
- **Fluidity** is the reciprocal of viscosity and it describes the flow of materials.
- **Newtonian Systems** categorizes single-phase fluids made up of small molecules such as water, alcohol, and glycerin.
- **Non-Newtonian Systems** categorizes matter that do not fall under Newton's viscosity law; this system includes polymer solutions, paints, resins, asphalt, gel, and biological fluids among others.
- **Shear Rate** is the velocity gradient; and it refers to the difference of velocity, dv , between two planes of liquid separated by an infinitesimal distance, dr .
- **Shear Stress** is the force per unit area required for the material to flow.

RHEOLOGY

- The term **rheology** was derived from the Greek terms "*rheos*" meaning 'to flow' and "*logos*" meaning 'study'.
- It refers to the scientific study of the deformation and flow properties of matter.
- It is associated with elasticity, fluidity, and viscosity.

VISCOSITY

- It is defined as the measure of the resistance of matter to flow. It is classified into three (3):

a. Absolute Viscosity

$$\eta = \frac{F}{G}$$

- F refers to the shear stress; G refers to the shear rate.
- **Units:** Poise, Centipoise

b. Kinematic Viscosity

$$\nu = \frac{\eta}{\rho}$$

- The numerator necessitates the absolute value while the denominator, ρ , is the density of the substance in g/cm^3
- **Units:** Stoke, Centistoke

c. Relative Viscosity

- It refers to the ratio of the viscosity of a solution to the viscosity of the solvent.
- It is a unitless value.

FLUIDITY

- It is the reciprocal of viscosity.

TYPES OF FLOW AND DEFORMATION:

- **Newtonian Flow**
 - It has a linear relationship between shear rate and shear stress.
 - It has a constant viscosity with increasing rate.
 - **EXAMPLES:** Water, Ethanol, Glycerin, Acetone, Benzene

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