Anatomy & Physiology

Laboratory Safety Hazards

- CLINICAL LABORATORY
- → Central role in health care
- → Exposes workers to a variety of potential hazards.

Occupational Safety Health Administration (OSHA)

- → Provides a safe working environment.
- → US Government

LABORATORY HAZARDS:

- 1. Biological hazard
- 2. Chemical Hazard
- 3. Fire Hazard
- 4. Electrical Hazard
- 5. Physical Hazard
- 6. Radioactive Marado
- 7. Sharps Hazard
- 8. Ergonomic Hazards

BIOLOGICAL HAZARD

- → Potential exposure to pathogenic microorganisms.
- e.g.: Bacteria, Fungi, Virus, Protozoans
 - → Pathogenic a thing disease causing
 - → Microorganisms living organisms that can't be observed by naked eyes.

REGULATIONS:

AGENCIES:

- 1. Center for disease control & prevention (CDC)
- 2. OSHA

- (UP) Universal Precautions
- (BSI) Body Substance Isolation
- (SP) Standard Precaution
 - ✤ UP
 - → "All patients are considered potential carriers of blood-borne pathogens.
 - → Did not consider other body fluids as potentially infectious.

 - "A body fluids and moist body substances
- BS E. CO. UK
 Modification of UP.
 Modification of UP.
 → Did not recommend handwashing after wearing of gloves especially if no visible

✤ SP

- → Major features of UP and BSI.
- → Most commonly followed
- → Handwashing, gloves, mask, eye protection, face shield, gown.

ESSENTIALS OF STANDARD PRECAUTION

- 1. Eating, drinking, smoking and applying of cosmetics.
- 2. Inserting/removing contact lens
- 3. Biting on nails, chewing on pens
- 4. Mouth pipetting
- 5. Limiting access to the laboratory
- 6. Patients as infectious for blood-borne pathogens.