## Laboratory safety

Safety rules for medical biochemistry lab

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#### Intended learning outcomes

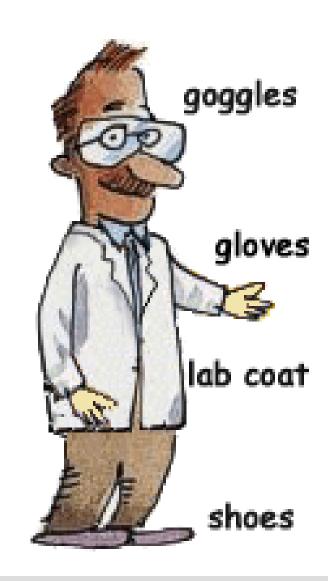
Understand the proper laboratory safety

Increase the awareness of the possible risks or hazards involved with laboratory work

Realize the laboratory is generally a safe place to work if safety guidelines are properly followed

#### While working in the lab

- You must wear your clean white coat
- Wear approved safety goggles or safety glasses when instructed in the lab
- Wear gloves if you will come in contact with blood specimens
- Tie up long hair during laboratory activities



Do not use any flammable materials such as perfumes

Try always to wear leather shoes that cover your feet

Sandals and open-toed shoes do not protect your feet from broken glass that is frequently found in the lab.





Eating and drinking are not allowed in the lab

Side talks and the mobile are not allowed in the lab



These activities are ways by which you can accidentally ingest harmful chemicals



Do not taste any chemical!



- Only laboratory manuals are permitted into the working area
- Listen to your instruction carefully
- Read the instruction guide ahead of performing the experiment

Use only clean & dry glassware and never use broken or chipped glassware

**Check glassware for stars or cracks** 



Always ADD acid to water

Pour from larger containers to smaller ones

Never pour used reagents back into bottle

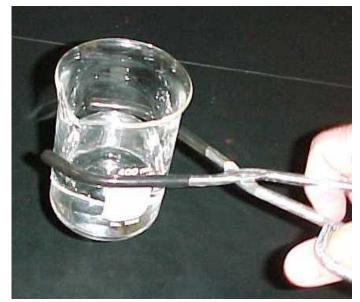


Handle hot glassware with holder or tongs

Always point test tubes away from yourself

and others when heating





Test for odor of chemicals only by waving your hand above the container & sniffing cautiously from a distance



Use a rubber suction bulb , pump or other device to fill a pipette







➤ When in doubt ! – Ask !!! Do not guess

#### Hygiene practice

Keep hands away from face, eyes, and clothes during lab

Always clean instruments & laboratory area before leaving

- Keep bench tops clean
- Return all equipment to its original location
- Clean all spills immediately

### Hygiene practice

Wash hands with soap and water before leaving the lab

This rule applies even if you have been wearing gloves!



#### **Emergency procedure**

#### Know the hazards of the materials being used

Read and reread labels carefully to make sure that you are using the right chemical.

Pay attention to the warnings about the chemicals used in the lab.

#### **Emergency procedure**

- In case of accident as an acid or alkali burns, wash the affected area immediately with plenty of water
- In case of eye injury, flush eyes immediately with plenty of water for at least 15 minutes
- Inform the supervisor immediately about any problem or accident in the lab

# THANK YOU?

**ANY QUESTIONS ??** 

PLEASE ASK