Medical Laboratory Techniques Department
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Human physiology

Lab.1

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Introduction: Characteristics of good technician How to avoid contamination of specimen and technician

Characteristics of good technician

Lab technicians are responsible for receiving, testing, analyzing, recording and reporting results of their tests. Their main duties and responsibilities include:

1- Receiving, labeling and safely storing samples to be tested.
2- Determining and performing tests needed for the analysis and report.
3- Recording tests and analyses and then reporting the results.
4- Discussing and answering any questions regarding the results.
5- Organizing and storing samples in accordance with all safety and other requirements to ensure the safety of personnel and integrity of the sample.
6- Cleaning and maintaining lab equipment, including recalibration of equipment.
7- Maintaining equipment records and daily work logs.
8- Staying current on technical and scientific advances in their field.

How To avoid contamination of Specimen and technician

1- Wear proper protective equipment

Most labs require individuals to follow certain protocols regarding personal protective equipment. They should wearing gloves, hairnets, pants, lab coats, and close-toed shoes. This equipment protects both the person wearing it and reduces contamination. Technicians should never reuse disposable gloves and they should always change them when moving between samples to further reduce the risk of contamination.

2- Clean and sterilize equipment

Maintaining a sterile work environment is important to avoid contamination. Be sure to clean and sterilize every piece of lab equipment regularly. For some pieces of equipment, such as glassware, this may be as frequent as every day.

3- Check your water supply

If all of your samples including your negative control have been contaminated then it could be your water supply. In the lab, deionized water and distilled water are normally used to prevent contamination

4- Use air filters and laminar flow hoods

When you are transferring samples it is critical to work in an environment where the air will not interfere with your sample.

You should work in a hood that keeps air moving, preventing microbes in the air from landing. Air filters trap contaminates in the air, keeping your environment sterile.