



جامعة المستقبل
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Medical Laboratory Techniques Department

Introduction: Characteristics of good technician.

How To avoid contamination of Specimen

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Characteristics of good technician

Medical laboratory technician requires experience in different technical fields. Individuals employed in this area must use computers and electronics. The skills include general computer hardware, software, and electronics knowledge. Required medical software expertise includes knowledge in Electronic Medical Record (EMR) software, test-routing software, test result distribution software, and laboratory Information System (LIS) software. Knowledge of databases, spreadsheets and wordprocessing programs are often required.

What does a Laboratory Technician do?

- 1- Prepare and carry out diagnostic laboratory tests
- 2- Operate and maintain standard laboratory equipment such as centrifuges, titrators, pipetting machines and pH meters.
- 3- Prepare specimens
- 4- Supervise experiments as they run.
- 5- Clean lab equipment and keep it in serviceable condition.
- 6- Mix compounds during the manufacturing process



How To avoid contamination of Specimen

1- Wear proper protective equipment

most labs require individuals to follow certain protocols regarding personal protective equipment. Wearing gloves, hairnets, pants, lab coats, and close-

toed shoes. This equipment protects both the person wearing it and reduces contamination. Personnel 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 crucial to avoiding contamination. Be sure to thoroughly 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 contaminants in the air, keeping your environment sterile.