

Lab Experiment # 1

Introduction to Laboratory Environment

Purpose

This first lab will introduce students to the radiology laboratory environment. You will learn the basic functions of the x-ray control console, practice manipulating the x-ray tube and table, and work with a digital radiography (DR) system in the lab. Computed radiography (CR) will be covered only through the assigned videos.

Learning Objectives

After completing this lab, you should be able to:

1. Use the laboratory equipment properly.
2. Set up the control console correctly.
3. Function effectively in group work.
4. Perform the experiment independently.

Materials Needed

- High-frequency, digital control console



Preparation

The video below demonstrates the Shimadzu x-ray unit used in our lab. Please watch it before coming to class so you are familiar with the equipment:

<https://www.youtube.com/watch?v=WOPxO8x1ppo>

Preparation

The videos below demonstrate equipment relevant to your training. Please watch them before coming to the lab:

<https://www.youtube.com/watch?v=PI2kb17YM24>

This CR system is not in our lab, as it has been discontinued, but you may still encounter it in some clinical sites.

Notes: