

## Experiment # 6:

### Film Screen Contact

#### Objective:

To demonstrate the loss of recorded detail due to improper film screen contact.

#### Procedure:

We will use a hand phantom ,a 24X18 cassette and 4 small objects (e.g. a nickel)

#### Film 1:

- 1- Place the hand phantom in PA position on the cassette
- 2- Center the X-ray beam to the hand and collimate it to the area of interest.
- 3- Expose using the following factors: Kv=45 mAs=2.5
- 4- process the film

#### Film 2:

- 1- Open the cassette and place the small 4 objects on the screen 3 inches in from the corners.
- 2- Place the film on the objects.
- 3- Close the cassette.
- 4- Place the hand phantom in PA position on the cassette
- 5- Center the X-ray beam to the hand and collimate it to the area of interest.
- 6- Expose using the following factors: Kv=45 mAs=2.5
- 7- process the film

Film 1:

- 1- Good film-screen contact
- 2- Sharp image
- 3- High resolution ( good details)

Film 2:

- 1- poor film-screen contact
- 2- unsharp image (blurred)
- 3- bad resolution ( poor details)