Shadow projection: Sunlight example

**Film projection**

- **Image size:** 32" X 11"
- **Edges:** SHARP
- **Object size:** 30" X 10"
- **Distance to film:** 1 ft

**Film projection**

- **Image size:** 40" X 15"
- **Edges:** BLURRY
- **Object size:** 30" X 10"
- **Distance to film:** 5 ft
Performing an Anterior-Posterior Chest X-ray (AP CXR)

X-Ray source

Side view

Film

Bottom-up view

[Image of X-ray setup showing side view and bottom-up view of the chest with X-rays passing through]

[Actual X-ray image of a chest]
PA and AP CXR comparison

Posterior-Anterior
CXR

Anterior-Posterior
(portable)
CXR

Notes
1. Performed with patient upright
2. Film placed in front of patient
3. Parameters are 'standardized'
4. Heart border is less magnified

Notes
1. Performed with patient supine
2. Film placed behind patient
3. Parameters not 'standardized'
4. Heart border is magnified
Performing Computerized Tomography (CT)

Axial plane of Computed Tomography
Examples of IV contrast

A: 1: IVC non-opacified
   2: Abd. aorta opacified
   3: Only kidney cortex opacified

B: 1: IVC opacified
   2: Abd. aorta opacified
   3: Only kidney cortex opacified

C: 1: IVC opacified
   2: Abd. aorta opacified
   3: Kidney cortex & medulla opacified

D: 1: IVC non-opacified
   2: Abd. aorta non-opacified
   3: Only renal pelvis opacified
Performing Abdominal Ultrasound (US)

Transducer

Sagital section showing US plane

Axial section showing US plane

US image