

Chapter 7. Study Guide

- Primary exposure factors are selected by the radiographer on the control panel: mA, exposure time, and kVp.
- Secondary factors:
 - Focal spot size
 - Source-image receptor-distance (SID)
 - Object-image receptor-distance (OID)
 - Central ray-anatomic part-image receptor alignment
 - Grids
 - Beam restriction
 - Generator output
 - Tube filtration
 - Compensating filters
 - Patient factors
- mAs is the product of mA and exposure time in seconds. Increasing mAs will increase the quantity of radiation reaching the IR and vice versa.
- mA and exposure time have an **inverse proportional relationship** when maintaining mAs. If one is increased, the other must be decreased.
- kVp affects the exposure to the IR because it alters the amount and penetrating ability of the x-ray beam. kVp also affect the subject contrast displayed in the image.
 - High kVp will result in less transmission differences between adjacent tissues, which means that an image with lower contrast will be produced.
 - Lower contrast images have a long grayscale (many shades of gray are displayed).
 - Low kVp increases the transmission differences between adjacent tissues, which means that an image with high contrast will be produced.
 - High contrast images have a short grayscale (less shades of gray are displayed).
- **15% Rule:** increasing the kVp by 15% will have the same effect on the image as doubling the mAs. Decreasing the kVp by 15% will have the same effect as halving the mAs.
- To maintain the exposure when using the 15% rule, the mAs must be adjusted by a factor of 2 accordingly. If the kVp is increased by 15%, then the mAs must be decreased by a factor of 2, to maintain the same exposure. Decreasing the kVp by 15%, will require that the mAs be increased by a factor of 2.
- Focal Spot size determines the filament that will be energized during x-ray production. A small focal spot size ranges from 0.5mm to 0.6mm. This focal spot will lead to less unsharpness in the image (x-rays are more concentrated), and thus will lead to a higher spatial resolution. A large focal spot ranges from 1mm to 1.2mm. The large focal spot is used when larger body parts need to be imaged. It will increase image unsharpness, and thus will decrease spatial resolution.
- Source to image receptor distance (SID) is the distance between the radiation source and the image receptor.
 - The relationship between SID and intensity is best described by the **inverse square law**. This law states that the intensity of an x-ray beam is **inversely proportional to the square of the distance** from the source.
 - As SID increases, the intensity of the beam decreases. (This is because the x-rays are spread over a larger area due to the divergence of the beam).

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