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Assignment # CR and DR

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Q No: 1 #

Ans: Digital Radiograph Artifacts

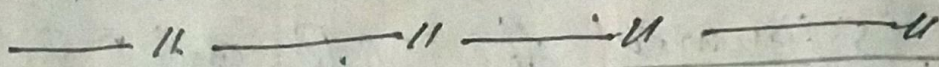
- Detector Image lag or ghosting. latent image from previous exposure present on current exposure.
- Incorrect detector orientation upside-down cassette.
- Backscatter.
- ~~stitching~~ stitching artifacts.
- over exposure
- Dead pixel artifacts
- signal dropout.
- Speckled radiopaque spots.

we will avoid them

proper positioning

proper exposure

proper MA, and KVP:



Q No: 2 #

Ans: Digital Subtraction

angiography:

Digital ~~Sub~~ Subtraction

• angiography (DSA) is a fluoroscopy technique used in interventional radiology to clearly visualize blood vessels in a bony or dense soft tissue environment.

Images are produced using contrast medium by subtracting a "pre-contrast image" or mask from subsequent images once the contrast medium has been introduced into a structure hence the term digital subtraction

angiography.

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Q No: 3 #

Ans: [→] Disadvantages of

Digital Radiography:

- Training and Learning: curve.
- Must learn machinery technology and positioning
- Must still adhere to good technique for acquiring images.
- Equipment costs
- Initial cost is high compared with traditional radiography.
- other technology costs associated with digital radiology. (computer, server, etc.)

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Q No: 4 #

Ans :- Image quality of Screen Film Radiography and digital Radiography. Spatial resolution is better in digital radiography by an order of magnitude compared with Screen Film radiography. Solid State Flat Panel detectors provide better quality with less radiation dose compared with Screen Film radiography.

The digital radiography film image quality is better than the screen

film radiograph. digital radiography image quality

superior than the screen film radiography.

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5)

Q No: 5 #

Ans: + Difference b/w

Image receptors conventional radiography and digital radiography.

The Image receptors may be the conventional film-

Screen or most likely

a photosensitive phosphor plate as in computed radiography (CR) or a

charged electronic device

as in digital radiography

also known as direct

digital radiography (DR)

the Image receptor in

CR is a photostimulable phosphor plate.

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The End