

BASICS: Image Analysis Tool

Beam:

- Was the x-ray beam centered on the area of interest?
- Was the tube angled correctly?
- Was equipment properly aligned to body part?

Artifacts:

- Is there anything obstructing the area of interest?
- Are positioning aids obscuring the anatomy?
- Is there excess quantum mottle/noise?
- Are there CR/DR processing errors present?

Shielding:

- Was gonadal protection indicated/ properly utilized?
- Was last menstrual period documented (when appropriate)?

Immobilization and Indicators:

- Was the selected technique based on measured body size?
- Are the Exposure Indicators/Deviation Index (EI/DI) in the appropriate range?
- How can you adjust for the next similar patient?
- Are artifacts, AEC, or field size changing the EI/DI?
- Could the baby, toddler, or child follow instructions?
- Could immobilization be used more effectively?
- Should our facility seek immobilization advice and training from a pediatric imaging facility?

Collimation:

- Was collimation appropriate?
- Was digital electronic post-collimation avoided?

Structures:

- Is all necessary anatomy included?
- Is there rotation present?
- Was the distance used appropriate?
- Is there evidence of patient motion?
- Were markers used correctly?
- Were grids used appropriately?

