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)?

**Immiscibleation 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?

For more information about pediatric radiation safety, visit [www.imagegently.org](http://www.imagegently.org)