
Audit 21

1) Audit Title

Impact of Adjusting Frame/Pulse Rate in Fluoroscopy on Image Quality, Diagnostic Confidence and Dose.

2) Standard against which the audit topic is to be compared

Fluoroscopy screening devices usually have parameters pre-set, but these can be changed usually by service engineers. Image quality, diagnostic confidence, dose standards created using sources below.

3) Source of standard (or reference document)

Generally, the source of the standard would be published literature and guidances at local, national, international level.

4) Type of audit – clinical audit, BSSD related, reporting**5) Target / compliance percentage to be achieved**

Maintaining image quality and diagnostic confidence whilst minimising dose is the desired outcome/target.

6) Item or variable to be audited

Dose reduction whilst maintaining diagnostic confidence and image quality. A variety of fluoroscopic procedures can be included in the audit (e.g., upper and lower GI contrast studies).

7) Method: Retrospective / Prospective / Other

This audit is best performed prospectively.

8) Data or information to be collected

Variations in dose according to adjustment of frame/pulse rate with recording of image quality and diagnostic confidence.

9) Sample details (categories, number of patients, collection time period)

To be decided locally, including which imaging procedures are to be evaluated.

10) Target achieved (yes / no / not applicable)

As demonstrated by maintaining image quality and diagnostic confidence at the lowest reasonable dose.

11) Actions to be taken if the target is not met

The dose will need to be adjusted (raised) if audit and review indicates an unacceptable loss of image quality and reduction in diagnostic confidence.

12) Timing for re-audit (yes / no / not applicable)

Periodic re-auditing is recommended to ensure image quality/diagnostic confidence is maintained and procedural dose is acceptable.