QUART

Quality Assurance in Radiological Technologies

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Following installation and acceptance testing, x-ray equipment must be monitored regularly to ensure continued and reliable performance in practice. This process is called quality assurance (QA) or quality control (QC).

The two paramount elements that are indispensable for comprehensive x-ray QA/QC testing are
- the **measurement of dose** as well as
- the **assessment of image quality parameters**

Only combined they provide a complete analysis of the x-ray system‘s performance and capabilities.

Measurements obtained in QA/QC procedures are checked against recommended or established tolerances. Corrective action must be performed if the values for dose or image quality are outside of those tolerances.

The purpose of x-ray QA/QC is to detect changes that may result in degradation of image quality or significant increase in radiation exposure. Both must be avoided – to optimise the quality of the diagnosis and minimise the risk for the patient.

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The QUART X-Ray QA/QC Concept

Dose Measurement

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Image Quality Assessment

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Comprehensive X-Ray Quality Control and Quality Assurance