

Radiation Exposure And Image Quality In X Ray Diagnostic Radiology Physical Principles And Clinical

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The largest contribution to radiation exposure to the population as a whole arises from diagnostic X-rays. Protecting the patient from radiation is a major aim of modern health policy, and an understanding of the relationship between radiation dose and image quality is of pivotal importance in optimising medical diagnostic radiology.

[Radiation Exposure and Image Quality in X-ray Diagnostic ...](#)

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[Radiation Exposure and Image Quality in X-Ray Diagnostic ...](#)

This completely updated second edition of Radiation Exposure and Image Quality in X-ray Diagnostic Radiology provides the reader with detailed guidance on the optimization of radiological imaging....

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Introduction. Diagnostic X-rays are the largest contributor to radiation exposure to the general population, and protecting the patient from radiation damage is a major aim of modern health policy. Once the decision has been taken to use ionising radiation for imaging in a particular patient, it is necessary to optimize the image acquisition process taking into account the diagnostic quality of the images and the radiation dose to the patient.

[Radiation Exposure and Image Quality in X-Ray Diagnostic ...](#)

At 80 mAs, a minor reduction in image quality was perceived, but the radiologists in this study did not generally consider that the difference in image quality would justify any increase in patient radiation exposure. Only on CT images obtained at 40 mAs was unambiguous evidence seen that the deterioration in image quality relative to the reference image was sufficient to warrant additional radiation exposure.

[Radiation Exposure and Image Quality in Chest CT ...](#)

Generation of high quality radiographic images is multi-factorial, depending on the performance of the imaging equipment, patient-related factors (shape and size), type of image receptors, the radiographic technique used and staff experience (Moores et al., 1987) Stieve et al. (1993) and Moores et al., 1987 believes that, the process of balancing between the radiation exposure and the radiography quality outcome for diagnostic purposes involves three aspects of the imaging process: selection ...

[Patient radiation dose and image quality in plain ...](#)

Both image quality and radiation dose are affected by a number of parameters, knowledge of which permits scientifically based decision making. The authors of this second edition of Radiation Exposure and Image Quality in X-ray Diagnostic Radiology have spent many years studying the optimization of radiological imaging.

[Radiation Exposure and Image Quality in X-Ray Diagnostic ...](#)

This relationship must be considered when trying to reduce radiation exposure by use of low-kilovolt scanning and to maintain image quality. 24,27 The higher noise level in low-kilovolt scans will not be completely compensated by the higher iodine attenuation; therefore, additional adjustments of the tube current (milliampere setting) are necessary. Optimal manual adjustment of these parameters is complex, which prevented low-kilovolt scanning from general use until now.

[Carotid CTA: Radiation Exposure and Image Quality with the ...](#)

The main finding within this study was that image quality decreased whilst radiation dose increased when the images receptor was placed in

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incubator tray for imaging as oppose to directly behind the neonate.

Optimising image quality and radiation dose for neonatal ...

Digital radiography is a form of radiography that uses x-ray sensitive plates to directly capture data during the patient examination, immediately transferring it to a computer system without the use of an intermediate cassette. Advantages include time efficiency through bypassing chemical processing and the ability to digitally transfer and enhance images. Also, less radiation can be used ...

Digital radiography - Wikipedia

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Radiation Exposure and Image Quality in X-Ray Diagnostic ...

Images are assessed for quality and completeness prior to submitting for reporting or where appropriate, adjusting treatments Importance of image quality The quality of the image should be such that the professional interpreting the image is able to answer the clinical question being asked.

Image quality | Canadian Association of Medical Radiation ...

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Radiation Exposure and Image Quality in X-Ray Diagnostic ...

Image quality and radiation dose Radiation dose is one of the most significant factors determining CT image quality and thereby the diagnostic accuracy and the outcome of a CT examination. Radiation dose should only be reduced under the condition that the diagnostic image quality is not sacrificed.

Radiation dose in CT scans and image quality

Radiation dose was based on CT dose index, image noise, and iodine contrast and measured with constant and variable tube currents that were age appropriate for each tube voltage. Radiation dose and image noise and contrast were compared in round and oval 24-cm phantoms.

Radiation Dose and Image Quality in Pediatric CT: Effect ...

These new, well-defined, streamlined protocols for imaging patients using CCTA emphasise both optimisation of image quality and minimisation of patient's exposure to radiation dose . In addition, differences in technical factors used in the examinations can yield variations up to 40 times the radiation dose . This result indicates lack of knowledge of the resources of equipment, training in radiological protection of all health professionals involved in the procedure and routine protocols ...

Radiation dose in cardiac CT angiography: protocols and ...

To compare the radiation dose and image quality between standard-dose CT and a low-dose CT obtained with the combined use of an attenuation-based automatic kilovoltage (kV) selection tool (CARE kV) and sinogram-affirmed iterative reconstruction (SAFIRE) for contrast-enhanced CT examination of the liver.

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