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Radiation Dose from Multidetector CT (Medical Radiology) 2nd ed. 2012 Edition by Denis Tack (Editor), Mannudeep K. Kalra (Editor), Pierre Alain Gevenois (Editor) & 0 more ISBN-13: 978-3642245343

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Provides in-depth information and guidance on CT technique and radiation dose reduction. Second edition with new chapters on up-to-date strategies and technologies. Includes clinical examples, protocols, and access to an online image gallery.

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The use of multidetector CT (MDCT) has become more common for diagnosis and treatment decision-making in complex or indistinct fractures. 1-4 MDCT is particularly useful for

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musculoskeletal imaging due to its accuracy, speed and minimal patient manipulation. 5 The increased organ radiation doses corresponding to CT study are harmful to patients although the musculoskeletal system tolerates radiation better than other internal organs. 6 Although bones are minimally affected by radiation ...

Radiation dose reduction in multidetector CT in fracture

...

Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner relevant to routine clinical practice.

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To examine the relationship between image quality and radiation dose in CTA, image contrast-to-noise ratio was evaluated. Doses to the brain, lens, salivary glands and local skin obtained with scan protocols in routine use were: 42-71 mGy, 30-88 mGy, 3.9-7.3 mGy and 40-97 mGy in non-contrast-enhanced CT; 41-75 mGy, 9.9-10 mGy, 1.5-2.1 mGy and 107-143 mGy in CTP; and 8.2-55 mGy, 26-69 mGy, 2.0-73 mGy and 32-72 mGy in CTA.

Radiation dose evaluation in multidetector-row CT imaging ...

A multivariable correlation of conceptus dose normalized to the free-in-air CT dose index (CTDI(F)) with conceptus depth and patient perimeter was produced for estimating conceptus dose from abdominal and pelvic multidetector CT. Conceptus dose data provided for a specific scanner can be applied to other scanners by using correction factors based on ratios between the weighted CT dose index and CTDI(F), resulting in inaccuracies in

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the estimation of conceptus dose of less than 12%.

Radiation dose to the conceptus from multidetector CT ...

From radiation exposure, one can calculate the skin entrance dose, which is important for deterministic effects such as skin erythema. These effects can be of potential concern in CT fluoroscopy or repeated multidetector CT and angiography, although they are not usually encountered at routine CT (, 8,, 9).

Radiation Dose Modulation Techniques in the Multidetector ...

The mean estimated radiation dose represented as the volume-weighted CT dose index for the reference-protocol CT scans was 9.9 mGy \pm 5.6 (standard deviation). There was a considerable reduction in radiation dose of up to 84% for CT scans obtained with the modified protocol (CT dose index volume of 1.8 mGy \pm 0.7; P < .001). The reduction in radiation dose was substantial

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for the patients weighing less than 200 lb (dose reduction of 87%, with a mean volume-weighted CT dose index of 1.3 mGy ...

Radiation Dose Reduction at Multidetector CT with Adaptive ...

Naturally-occurring "background" radiation. We are exposed to natural sources of radiation all the time. According to recent estimates, the average person in the U.S. receives an effective dose of about 3 mSv per year from natural radiation, which includes cosmic radiation from outer space. These natural "background doses" vary according to where you live.

Patient Safety - Radiation Dose in X-Ray and CT Exams

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Table of Contents: Radiation dose from multidetector CT

Purpose: To use Monte Carlo simulations of a current-technology multidetector computed tomographic (CT) scanner to investigate fetal radiation dose resulting from an abdominal and pelvic examination for a range of actual patient anatomies that include variation in gestational age and maternal size. Materials and methods: Institutional review board approval was obtained for this HIPAA-compliant ...

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Radiation dose to the fetus for pregnant patients ...

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Staff View: Radiation dose from multidetector CT

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Radiation doses to patients were higher from the 64 slice for the abdomen, chest and brain (19.42, 17.11 mGy and 75.0 mGy) and

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32 slice (18.44, 15.32 and 70.2 mGy) scanners than those from the 16 slice scanner (13.41, 11.65 and 64.96 mGy), without considering the penumbral effect of multiple slice scanners as listed in Table 2. Table 2.

Assessment of Radiation Dose and Image Quality of ...

The trade-off between using MDCT rather than conventional high-resolution CT is that the radiation dose is five times higher with MDCT (10.54 mGy) than with conventional high-resolution CT (2.17 mGy with parameters of 120 kVp, 170 mA, 1-mm collimation, and 10-mm intervals); however, the radiation exposure at 70 mA is reduced to less than half that at 170 mA.

Multidetector CT of Bronchiectasis: Effect of Radiation ...

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burgeoning use of CT has...

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In recent years, CT technology has undergone profound changes. Compared with single-section CT, MDCT has some specific scan parameters that may systematically increase or decrease radiation dose to patients, while enabling the visualization of the microanatomic structures of the temporal bone. 1 There is potential for dose reduction with MDCT systems, but the actual dose reduction achieved ...

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