Adaptive Statistical Iterative Reconstruction Assessment

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Adaptive Statistical Iterative Reconstruction Assessment
OBJECTIVE: The purpose of our study was to determine the effect of Adaptive Statistical Iterative Reconstruction (ASIR) on cardiac CT angiography (CTA) signal, noise, and image quality. MATERIALS AND METHODS: We evaluated 62 consecutive patients at three sites who underwent clinically indicated cardiac CTA using an ASIR-capable 64-MDCT scanner and a low-dose cardiac CTA technique.

Adaptive statistical iterative reconstruction: assessment ...
The purpose of our study was to determine the effect of Adaptive Statistical Iterative Reconstruction (ASIR) on cardiac CT angiography (CTA) signal, noise, and image quality. MATERIALS AND METHODS. We evaluated 62 consecutive patients at three sites who underwent clinically indicated cardiac CTA using an ASIR-capable 64-MDCT scanner and a low-dose cardiac CTA technique.

Adaptive Statistical Iterative Reconstruction: Assessment ...
Image Quality Assessment of Standard- and Low-Dose Chest CT Using Filtered Back Projection, Adaptive Statistical Iterative Reconstruction, and Novel Model-Based Iterative Reconstruction Algorithms American Journal of Roentgenology, Vol. 200, No. 3

Adaptive Statistical Iterative Reconstruction Technique ...
The purpose of our study was to determine the effect of Adaptive Statistical Iterative Reconstruction (ASIR) on cardiac CT angiography (CTA) signal, noise, and image quality. We evaluated 62...

Adaptive Statistical Iterative Reconstruction: Assessment ...
Adaptive statistical iterative reconstruction (ASIR) is a hybrid algorithm that uses the image information obtained from filtered back projection (FBP) as the basis for iterative reconstruction to optimise image quality. It has enabled dose reductions between 32 and 65%, without substantially affecting image quality in phantom studies [27, 28].

Adaptive statistical iterative reconstruction (ASIR ...
To assess the noise characteristics of the new adaptive statistical iterative reconstruction (ASiR-V) in comparison to ASiR. Methods. A water phantom was acquired with common clinical scanning parameters, at five different levels of CTDI vol.

New adaptive statistical iterative reconstruction ASiR-V ...
Abstract. The purpose of this study was to investigate the effect of adaptive statistical iterative reconstruction (ASiR) on the visualisation of anatomical structures and diagnostic image quality in paediatric cerebral computed tomography (CT) examinations. Forty paediatric patients undergoing routine cerebral CT were included in the study.

EFFECT OF ADAPTIVE STATISTICAL ITERATIVE RECONSTRUCTION ON ...
Leipsic Jonathon, LaBountry T, Heilbron B, Taylor C. Adaptive Statistical Iterative Reconstruction; Assessment of Image Noise and Image Quality in Coronary CT Angiography.AJR 2010.195:649-654. Leiner T,Velthus B, Gietema.Iterative Reconstruction for Reducing Radiation Dose at CT: Review of Technique and Initial Experience.ECR 2011. Liu L. 2014.

ADAPTIVE STATISTICAL ITERATIVE RECONSTRUCTION FOR ...
The clinical utility of a latest generation iterative reconstruction algorithm (adaptive statistical iterative reconstruction [ASiR-V]) has yet to be elucidated for coronary computed tomographyangiography (CCTA). This study evaluates the impact of ASiR-V on signal, noise and image quality in CCTA.

Adaptive Statistical Iterative Reconstruction-V: Impact on ...
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Adaptive Statistical Iterative Reconstruction Assessment
Objectives: To evaluate the diagnostic performance of computed tomography (CT) colonography (CTC) reconstructed with different levels of adaptive statistical iterative reconstruction (ASiR, GE Healthcare) and Veo (model-based iterative reconstruction, GE Healthcare) at various tube currents in detection of polyps in porcine colon phantoms.

Adaptive statistical iterative reconstruction and Veo ...
This study was presented in the Adaptive Statistical Iterative Reconstruction 2014: American Society of Spine Radiology Annual Symposium, 13–16 February 2014, Miami Beach, FL, USA, and received the best paper award in the oral presentation category. Objective: The aim of this study was to evaluate the

The use of adaptive statistical iterative reconstruction ...
Recent use of adaptive statistical iterative reconstruction (ASIR) has shown much promise in improving image quality when scanning at a lower dose [4–11]. The next evolution of this iterative reconstruction technique comes in the form of the model-based iterative reconstruction (MBIR), also known as Veo (GE Healthcare).

Image Quality Assessment of Standard- and Low-Dose Chest ...
Adaptive statistical iterative reconstruction (ASIR) is an algorithm that reduces the noise level in reconstructed images and therefore allows the use of less ionizing radiation during CT scans without significantly affecting image quality. ASIR was instituted on all CT scans performed on trauma patients in June 2009.

Impact of adaptive statistical iterative reconstruction on ...
Assessment of Filtered Back Projection, Adaptive Statistical, and Model-Based Iterative Reconstruction for Reduced Dose Abdominal Computed Tomography. Journal of Computer Assisted Tomography. 2015;39 (4) :462-467.

Assessment of Filtered Back Projection, Adaptive ...
Adaptive statistical iterative reconstruction and Veo: assessment of image quality and diagnostic performance in CT colonography at various radiation doses. [Min A Yoon, Se Hyung Kim, Jeong Min Lee, Hyoun Sik Woo, Eun Sun Lee, Se Jin Ahn, Joon Koo Han] PMID 22992612

Adaptive statistical iterative reconstruction and Veo ...
titutional Review Board–approved, prospective clinical study, 28 patients (mean age 59 ± 13 years), undergoing clinically indicated routine abdominal CT on a 64-channel multi-detector CT scanner, gave written informed consent for acquisition of an additional RD (<1 milli-Sievert) abdomen CT series. Sinogram data of RD series were reconstructed with FBP, ASIR, and MBIR and compared with FBP ...

Assessment of Filtered Back Projection, Adaptive ...
With widespread use of pediatric head CT, it is critically important to protect patients from radiation hazards, using reduced dose CT techniques. In this regard, adaptive statistical iterative reconstruction-V (ASIR-V) algorithm can decrease image noise, generating CT images of reasonable diagnostic quality with less radiation. The objective of this study was radiation dose assessment ...

Value of using adaptive statistical iterative ...
We compared ULD-CT with standard adaptive statistical iterative reconstruction (ASIR) low-dose CT (LD-CT). Subjective assessment of contrast and noise were performed for each study. Background noise, signal to noise ratio (SNR) and contrast to noise ratio (CNR) were calculated and compared between the CT studies.

Image quality comparison between model-based iterative ...
Background: Adaptive Statistical Iterative Reconstruction (AS I R) reconstruction in unenhanced a bdominal CT s can reduce the radiation dose from 11.6 mSv to 2.07 mSv. However, the decrease in dose is accompanied by a decrease in image quality. Signal to N oise R atio (SNR) is one of image quality parameters.