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CARE Right

Committed to the Right Dose in CT

Answers for life.

CT Abdomen

Scanning with the Right Dose

CARE Right aims at finding the right dose for every individual patient. What matters is the right balance between image quality and radiation dose, by scanning with the right dose technology at the right dose levels supported by the right dose management. Like in the following case:

Diagnosis:

This case describes an abdomen scan of a bariatric patient after cholecystectomy. Obtaining the right dose for obese patients can be a challenge. Therefore an eff. dose of 7.9 mSv is reasonable to get the right balance between image quality and radiation.

Scan method:

Spiral acquisition with SOMATOM Definition AS
Collimation: 64 x 0.6 mm
Spatial resolution: 0.33 mm
Scan time: 10 s
Scan length: 373 mm
Rotation time: 0.5 s
100 kV, 300 mAs

Right Dose Technology:

CARE kV, the first automated tube voltage setting to optimize the contrast-to-noise ratio for every individual patient. In this case 100 kV is chosen by the scanner, even though the patient was very obese.

Right Dose Levels:

DLP: 529 mGycm
CTDI_{vol}: 13.55 mGy
Eff. dose: 7.9 mSv
Reference value in Switzerland: CTDI_{vol}: 15 mGy¹

Right Dose Management:

EduCARE as part of Right Dose Management offers a dedicated clinical online webinar to learn more about CARE kV.

Find out more about CARE Right on www.siemens.com/care-right

¹ Bundesamt für Gesundheit (Merkblatt R-06-06, Diagnostische Referenzwerte in der Computertomographie, 01.04.2010)