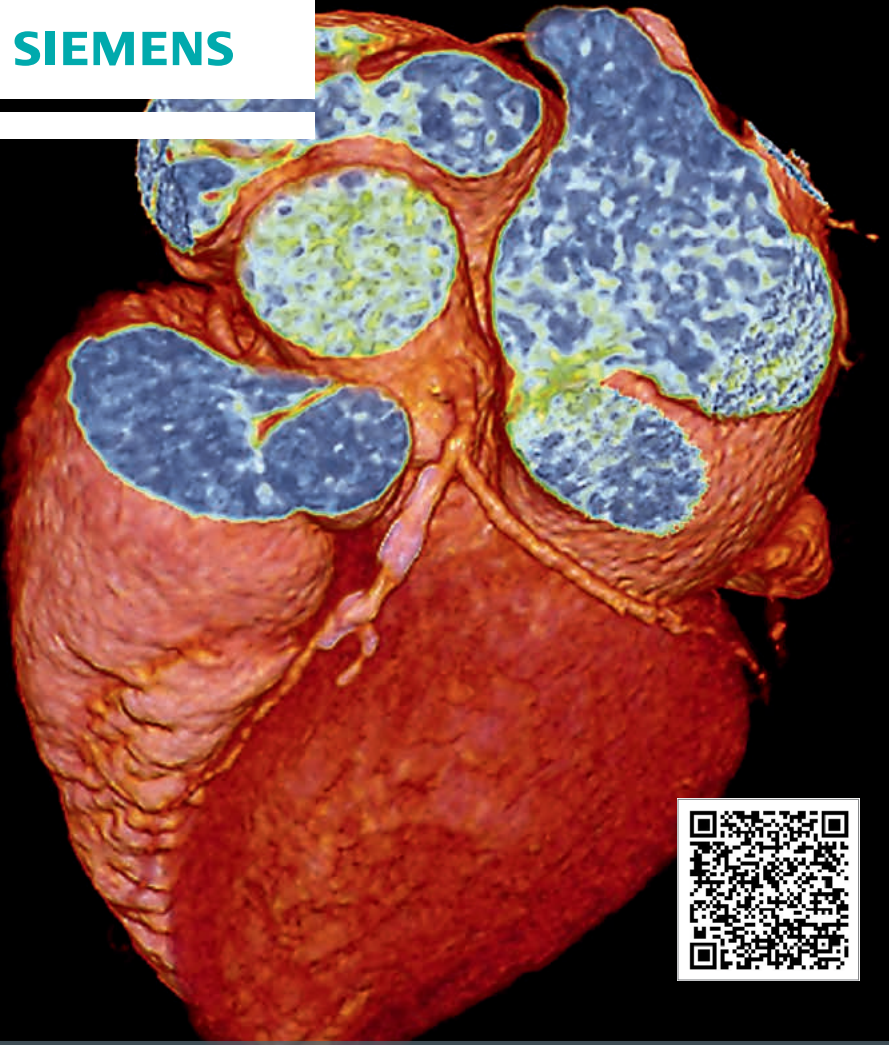


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Courtesy: Xijing Hospital / Xian, P.R. China

www.siemens.com/care-right

CARE Right

Committed to the Right Dose in CT

Answers for life.

CT Cardiac

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:

Mixed plaques were present in the proximal left anterior descending (LAD) artery with less than 50% luminal stenosis. With the SOMATOM Definition Flash sub-mSv dose values can be reached in clinical routine.

Scan method:

Flash Spiral acquisition with SOMATOM Definition Flash
Collimation: 128 x 0.6 mm
Spatial resolution: 0.33 mm
Scan time: 0.42 s
Scan length: 195 mm
Rotation time: 0.28 s
100 kV, 266 mAs

Right Dose Technology:

Flash scanning results in routine cardiac low dose

- Scanning at maximum speed allows for extreme dose savings in this case.
- 92% dose saving compared to the estimated average radiation dose of the PROTECTION I study (0.9 vs. 12 mSv)^{1, 2}

Right Dose Levels:

DLP: 67 mGycm

CTDI_{vol}: 2.6 mGy

Eff. dose: 0.94 mSv

Reference value in Switzerland: CTDI_{vol}: 50 mGy³

Right Dose Management:

Learn more about on Low Dose in Cardiac CT by watching the clinical webinar presented by Stephan Achenbach, Prof. Dr. med, University of Erlangen.

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

¹ Hausleiter J et al. Estimated radiation dose associated with cardiac CT angiography. JAMA. 2009 Feb 4;301(5):500-7.

² Leschka S et al. Diagnostic accuracy of high-pitch dual-source CT for the assessment of coronary stenoses: first experience. Eur Radiol. 2009 Dec;19(12):2896-903. Epub 2009 Sep 16.

³ Bundesamt für Gesundheit (Merkblatt R-06-06, Diagnostische Referenzwerte in der Computertomographie, 01.04.2010)