

SIEMENS



Courtesy: Wexford General Hospital / Newtown, Ireland

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# CARE Right

Committed to the Right Dose in CT

Answers for life.

# CT Thorax

## 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:

Coarctation of the aorta with extensive colateral supply arising from the superior segment is diagnosed after a short scan time. Short scan times avoid unnecessary venous contamination.

### Scan method:

Spiral acquisition with SOMATOM Definition AS

Collimation: 64 x 0.6 mm

Spatial resolution: 0.33 mm

Scan time: 6 s

Scan length: 460 mm

Rotation time: 0.33 s

100 kV, 75 mAs

### Right Dose Technology:

CARE Dose4D, fully automated dose modulation in x,y and z direction in real time. In this case the strength of this technology is proven by a mAs adaption per slice. This is beneficial for a long scan range covering different body parts. Scan protocols are automatically adapted to the individual patient.

### Right Dose Levels:

DLP: 162 mGycm

CTDI<sub>vol</sub>: 3.37 mGy

Eff. dose: 2.43 mSv

Reference value in Switzerland: CTDI<sub>vol</sub>: 15 mGy<sup>1</sup>

### Right Dose Management:

Learn more about CARE Dose4D by reading the "How to scan with CARE Dose4D" brochure.

Find out more about CARE Right on [www.siemens.com/care-right](http://www.siemens.com/care-right)

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