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Absolute Dose Values in Computed Tomography

SOMATOM Perspective (32-slice configuration)

Reference values		Switzerland ¹	Germany ²	European Union ³	USA ⁴
Head Routine	CTDIvol [mGy]	65	60	60	75
Thorax Routine	CTDIvol [mGy]	15	10	30	21
Abdomen Routine	CTDI _{vol} [mGy]	15	15	35	25

Default Siemens Protocol		Standard values*	Standard IR values*/**/**	Put your current values here
Head Routine	CTDI _{vol} [mGy]	52.8	39.6	
Thorax Routine	CTDIvol [mGy]	8.07	5.65	
Abdomen Routine	CTDIvol [mGy]	12.58	10.38	

- 1 Bundesamt für Gesundheit (Merkblatt R-06-06, Diagnostische Referenzwerte in der Computertomographie, 01.04.2010).
- 2 Bundesamt für Strahlenschutz (Diagnostische Referenzwerte für diagnostische und interventionelle Röntgenanwendungen vom 22. Juni 2016).
- 3 European Guidelines on Quality Criteria for Computed Tomography (http://www.drs.dk/guidelines/ct/quality/htmlindex.htm).
- 4 American College of Radiology (CT Accreditation Program Requirements, Clinical Image Quality Guide, Amended 2014).

^{*}Values are based on the default protocols of the SOMATOM Perspective Family with syngo CT VC40 version and an average sized patient of 1.75 m and 75 kg

^{**}Iterative Reconstruction SAFIRE is used

^{***} In clinical practice, the use of SAFIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. The following test method was used to determine a 54 to 60% dose reduction when using the SAFIRE reconstruction software. Noise, CT numbers, homogeneity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with SAFIRE showed the same image quality compared to full dose data based on this test. Data on file.

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