

Absolute Dose Values in Computed Tomography

SOMATOM Definition Edge

References 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	N/A
Abdomen Routine	CTDIvol [mGy]	15	15	35	25

¹ Bundesamt für Gesundheit (Merkblatt R-06-06, Diagnostische Referenzwerte in der Computertomographie, 01.04.2010, (REV.01.01.2018).

² Bundesamt für Strahlenschutz (Diagnostische Referenzwerte für diagnostische und interventionelle Röntgenanwendungen vom 22.06.2016).

³ European Guidelines on Quality Criteria for Computed Tomography (<http://www.dr.dk/guidelines/ct/quality/htmlindex.htm>).

⁴ American College of Radiology (CT Accreditation Program Requirements, Amended 2018).

Default Siemens Protocol	Standard CTDIvol / [mGy]*	Put your current values here
Head Routine	39.23	
Thorax Routine	4.45	
Lung Low Dose with Tin Filter	0.65	
Abdomen Routine	9.9	

Values are based on the default protocols of the SOMATOM Definition Edge with syngo CT VB10 and an average sized patient of 1.75 m and 75 kg.

*Iterative Reconstruction ADMIRE is used.

In clinical practice, the use of ADMIRE may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A radiologist and a physicist should be consulted to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.

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