

# Absolute Dose Values in CT

## SOMATOM Drive



| Reference values |              | Germany <sup>1</sup> | European Union <sup>2</sup> | USA <sup>3</sup> |
|------------------|--------------|----------------------|-----------------------------|------------------|
| Head Routine     | CTDIvol[mGy] | 60                   | 60                          | 75               |
| Thorax Routine   | CTDIvol[mGy] | 10                   | 30                          | N/A              |
| Abdomen Routine  | CTDIvol[mGy] | 15                   | 35                          | 25               |

<sup>1</sup>Bundesamt für Strahlenschutz (Diagnostische Referenzwerte für diagnostische und interventionelle Röntgenanwendungen vom 22.06.2016).

<sup>2</sup>European Guidelines on Quality Criteria for Computed Tomography (<http://www.dr.dk/guidelines/ct/quality/htmlindex.htm>).

<sup>3</sup>American College of Radiology (CT Accreditation Program Requirements, Amended 2019).

| Default Siemens Protocol            | Standard CTDIvol / [mGy]* | Put your current values here |
|-------------------------------------|---------------------------|------------------------------|
| Head Routine                        | 46.10                     |                              |
| Thorax Routine                      | 4.22                      |                              |
| Flash Lung Low Dose with Tin Filter | 0.52                      |                              |
| Abdomen Routine                     | 9.39                      |                              |

\*Values are based on the default protocols of the SOMATOM Drive with *syngo* CT VB20 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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