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LAMPIRAN

Lampiran 1 . Estimasi nilai Faktor konversi (f) pada Abdomen secara perhitungan manual.

Nilai a dan b diperoleh dari pedoman AAPM No.204 (2011) berdasarkan persamaan 2.10 (hal. 14) untuk tubuh nilai $a = 3,704367$ dan $b = 0,03671937$. Nilai D_w disesuaikan dengan data yang diperoleh pada **Tabel 4.4** (hal.30)

$$\begin{aligned} 1) \quad f &= ae^{-b \cdot Dw} \\ &= (3,704367)e^{-((0,03671937)(21,24))} \\ &= (3,704367)(0,458) \\ &= 1,698 \end{aligned}$$

$$\begin{aligned} 2) \quad f &= ae^{-b \cdot Dw} \\ &= (3,704367)e^{-((21,35)(0,03671937))} \\ &= (3,704367)(0,457) \\ &= 1,691 \end{aligned}$$

$$\begin{aligned} 3) \quad f &= ae^{-b \cdot Dw} \\ &= (3,704367)e^{-((22,36)(0,03671937))} \\ &= (3,704367)(0,440) \\ &= 1,630 \end{aligned}$$

$$\begin{aligned} 4) \quad f &= ae^{-b \cdot Dw} \\ &= (3,704367)e^{-((23,90)(0,03671937))} \\ &= (3,704367)(0,416) \\ &= 1,540 \end{aligned}$$

$$\begin{aligned} 5) \quad f &= ae^{-b \cdot Dw} \\ &= (3,704367)e^{-((24,22)(0,03671937))} \\ &= (3,704367)(0,411) \\ &= 1,522, \text{ dst.} \end{aligned}$$

Lampiran 2. Estimasi nilai *Size Specific Dose Estimate* (SSDE) pada abdomen secara Teori

Setelah memperoleh nilai f dapat dihitung nilai SSDE Berdasarkan persamaan 2.11 (hal. 15) dimana nilai $CTDI_{vol}$ disesuaikan dengan data yang diperoleh pada **Tabel 4.1 dan 4.2** (hal.27)

$$\begin{aligned} 1) \text{ SSDE} &= f \times CTDI_{vol} \\ &= 1,698 \times 4,2 \\ &= 7,13 \text{ mGy} \end{aligned}$$

$$\begin{aligned} 2) \text{ SSDE} &= f \times CTDI_{vol} \\ &= 1,691 \times 4,2 \\ &= 7,10 \text{ mGy} \end{aligned}$$

$$\begin{aligned} 3) \text{ SSDE} &= f \times CTDI_{vol} \\ &= 1,630 \times 4,5 \\ &= 7,33 \text{ mGy} \end{aligned}$$

$$\begin{aligned} 4) \text{ SSDE} &= f \times CTDI_{vol} \\ &= 1,540 \times 4,5 \\ &= 7,33 \text{ mGy} \end{aligned}$$

$$\begin{aligned} 5) \text{ SSDE} &= f \times CTDI_{vol} \\ &= 1,522 \times 4,3 \\ &= 6,55 \text{ mGy, dst.} \end{aligned}$$

Lampiran 3. Tampilan *Patient Record* IndoseCT

id	patient_id	name	age	sex	exam_date	institution	manufacturer	model	protocol	CTDIvol	diameter	diameter_type	SSDE	DLP	DLPc	effective_dose
1	21	CT.072.06.21 NY.HARLINA*219860	48	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5				0,45		
2	22	CT.068.06.21 ABDUL HARIS.TN*219818	52	M	20210614	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	24,661	Dw		0,225		
3	23	CT.090.06.21 NY.A.MARWAH*197381	67	F	20210618	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	24,2865	Dw		0,225		
4	24	CT.78.06.21 NY.ROHANI*219703	52	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	23,4133	Dw		0,225		
5	25	CT.070.06.21 NY.SITTI HASNAH*219696	48	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,4	28,8105	Dw		0,22		
6	26	CT.080.06.21 NY.BADARIAH	63	F	20210616	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	25,3327	Dw		0,225		
7	27	CT.074.06.21 FATIMAH DALLE.NY*211248	77	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,6	26,4337	Dw		0,23		
8	28	CT.079.06.21 NY.SALAMA*219944	52	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	24,3958	Dw		0,225		
9	29	CT.083.06.21 ANDI SYAMSUL ALAM/68TH*218927	68	M	20210617	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,8	25,2672	Dw		0,24		
10	30	CT.075.06.21 NY.HASRIDAH*219611	42	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,2	25,5306	Dw		0,21		
11	31	CT.064.06.21 MARWAWINDA.NY/47*219842			20210612	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	24,7188	Dw		0,225		
12	32	CT.052.06.21 NURHALMA.73TH*153534	73	F	20210610	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,3	24,5664	Dw		0,215		
13	33	069.06.21 NY.KASMA*219918	41	F	20210615	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	4,5	26,7156	Dw		0,225		
14	34	CT.053.06.21 NY.KULLU DG. RIA/59TH*219762	59		20210610	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	5,5	27,2799	Dw		0,275		
15	35	CT.087.06.21 RITAWATI/44TH*216769	44		20210617	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	5,5	27,818	Dw		0,275		
16	36	CT.055.06.21 HAMIRA/37TH*178881	37	F	20210610	RS. IBNU SINA MAKASSAR	TOSHIBA	Aquilion PRIME	ABDOMEN	5,4	27,5179	Dw		0,27		

Lampiran 4 . Tangkapan Layar *Summary Examination (DICOM)*

Jenis Pemeriksaan

ABDUL HARIS.TN 219818
 Im: 2/2
 Se: 9
 Patient ID : CT 068.06.21
 Study Date : 20210614
 RS IBNU SINA MAKASSAR 1541

1.Abdomen -C

No.	Protocol	#of scan(s)	kVp	CTDIvol (mGy)	DLP (mGy.cm)
1	DualScano	1	120		
2	DualScano	1	120		
3	Helical	1	120	4.50 (Body)	211.90 (Body)

Exposure

No.	Name	SD	SURE IQ	Image Thickness	Recon FC	Recon Process	XY
3	Standard	12.50	Body Std. Axial	5.0	FC18	ADR3D eStd	3D

WL: 128 WW: 256 [D] P:2/2 14/06/2021 13.37.44

Annotations:
 - Tanggal Lahir: 01/01/1969
 - Nilai DLP: 211.90 (Body)
 - Nilai CTDIvol: 4.50 (Body)

Lampiran 5 . Tangkapan Layar *slice* organ (DICOM)



Lampiran 6 . Tangkapan Layar penentuan *Diameter Water-Equivalent (Dw)*

