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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	:	A Simplified Method for The Water-Equivalent Diameter Calculation to Estimate Patient Dose in CT Examinations
Nama/ Jumlah Penulis	:	Choirul Anam, Idam Arif, Freddy Haryanto, Rena Widita,Fauzia P Lestari, **Kusworo Adi**, Geoff Dougherty/ 7 orang
Status Pengusul	:	Penulis ke- 6
Identitas Jurnal Ilmiah	:	a. Nama Jurnal : Radiation Protection Dosimetry b. Nomor ISSN : 0144-8420 c. Vol, No., Bln Thn : 185, 1, November 2019 d. Penerbit : Oxford University Press e. DOI artikel (jika ada) : https://doi.org/10.1093/rpd/ncy214 f. Alamat web jurnal : https://academic.oup.com/rpd/article/185/1/34/5224758 Alamat Artikel : https://academic.oup.com/rpd/article-pdf/185/1/34/31155801/ncy214.pdf g. Terindex : Scopus Q3 SJR: 0,42 (2018) https://www.scimagojr.com/journalsearch.php?q=29514&tip=sid&clean=0

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Total = (100%)	**39,70**	**40,00**	**39,85**

Semarang, 6 Mei 2020

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Prof. Dr. Muhammad Nur, DEA
NIP. 195711261990011001
Unit Kerja : Departemen Fisika - FSM UNDIP

Reviewer 2

Prof. Dr. Heri Sutanto, SSi, MSi
NIP. 197502151998021001
Unit Kerja : Departemen Fisika - FSM UNDIP

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Prof. Dr. Muhammad Nur, DEA
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Prof. Dr. Heri Sutanto, SSi, MSi
NIP. 197502151998021001
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Radiation Protection Dosimetry covers all aspects of personal and environmental dosimetry and monitoring, for both ionising and non-ionising radiations. This includes biological aspects, physical concepts, biophysical dosimetry, external and internal personal dosimetry and monitoring, environmental and workplace monitoring, accident dosimetry, and dosimetry related to the protection of patients. Particular emphasis is placed on papers covering the fundamentals of dosimetry; units, radiation quantities and conversion factors. Papers covering archaeological dating are included only if the fundamental measurement method or technique, such as thermoluminescence, has direct application to personal dosimetry measurements. Papers covering the dosimetric aspects of radon or other naturally occurring radioactive materials and low level radiation are included. Animal experiments and ecological sample measurements are not included unless there is a significant relevant content reason.

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2017	0.822	217 out of 242	300 out of 338	22 out of 3
2016	0.917	192 out of 229	148 out of 176	20 out of 3
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2013	0.861	174 out of 215	133 out of 160	19 out of 3
2012	0.909	164 out of 209	123 out of 158	16 out of 3
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2009	0.707	154 out of 180	107 out of 122	17 out of 3
2008	0.951	125 out of 163	85 out of 105	11 out of 3
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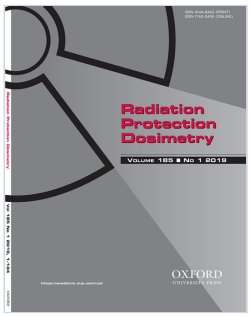

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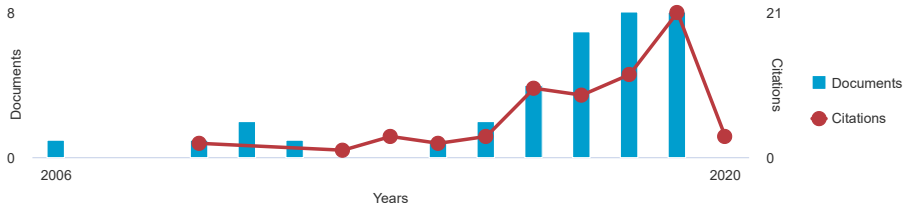

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A SIMPLIFIED METHOD for the WATER-EQUIVALENT DIAMETER CALCULATION to ESTIMATE PATIENT DOSE in CT EXAMINATIONS (Article)

Anam, C.[a], Arif, I.[b], Haryanto, F.[b], Widita, R.[b], Lestari, F.P.[b], Adi, K.[a], Dougherty, G.[c]

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[b]Department of Physics, Faculty of Mathematics and Natural Sciences, Bandung Institute of Technology, Ganesha 10, Bandung, West Java, Indonesia
[c]Department of Applied Physics and Medical Imaging, California State University Channel Islands, Camarillo, CA, United States

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We proposed and evaluated a water-equivalent diameter calculation without using a region of interest (ROI), ($D_{w,t}$) and compared it with the results of using a ROI fitted to the patient border ($D_{w,f}$). Evaluations were carried out on thoracic and head CT images. We found that the difference between $D_{w,t}$ and $D_{w,f}$ was within 5% for all images in the head region, and most images were within 5% (27 of the 30 patients, 90%) in the thoracic region. We also proposed a method to automatically detect and eliminate the patient table (or head support) from images and evaluated the water-equivalent diameter values after the table had been removed ($D_{w,nt}$). This method was able to recognize and remove the patient table from all images used. By removing the table, the water-equivalent diameter ($D_{w,nt}$) became more accurate and the difference from $D_{w,f}$ was within 5% for all images (head and thoracic images).

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