

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

Judul Karya Ilmiah (Artikel) : Characteristic and quality control test in sector collimator gamma knife perfexion at Siloam hospital

Jumlah Penulis : 3 orang

Status Pengusul : ~~Penulis pertama~~/ Penulis ke-2/ ~~Penulis Korespondensi~~ **

Identitas Jurnal Ilmiah : a. Nama prosiding : Journal of Physics: Conference Series
b. Nomor ISSN : 1742-6588, 1742-6596
c. Tahun terbit, tempat pelaksana : 2017, Surakarta, Indonesia
d. Penerbit : IOP Publishing
e. Alamat web jurnal : <https://iopscience.iop.org/article/10.1088/1742-6596/795/1/012010>
f. Terindeks di Scimagojr/Scopus ~~atau~~ di....**

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) : ☒ Prosiding Ilmiah Internasional **
☐ Prosiding Nasional Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur prosiding (10%)	2,7	2	2,35
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,6	8,5	8,55
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	8,6	8,5	8,55
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,6	8,5	8,55
Total = (100%)			28
Nilai untuk Pengusul : $(40\% \times 28) / 2 = 5,6$			

Semarang, 27 Mei 2021

Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA
NIP. 195711261990011001
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

Reviewer 2



Prof. Dr. Kusworo Adi, S.Si., M.T.
NIP. 197203171998021001
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

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- f. Terindeks di (jika ada) : Scopus

Kategori Publikasi Makalah : ☒ Prosiding Forum Ilmiah Internasional
(beri ✓ pada kategori yang tepat) ☐ Prosiding Forum Ilmiah Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional ☒	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3		2,7
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,6
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,6
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,6
Total = (100%)	30		28,5
Nilai Pengusul = 40% x 1/2 x 28,5 = 5,7			

Catatan Penilaian Paper oleh Reviewer :

1. Kelengkapan unsur isi jurnal:

Artikel telah ditulis sesuai dengan format IOP Science. Latar belakang sangat jelas dan kebaruan dikemukakan secara eksplisit. Unsur-unsur artikel lengkap.

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup tidak begitu luas. Pembahasan belum baik dan cenderung banyak hasil tidak dibahas. Dalam artikel ini tidak terdapat diskusi/pembahasan sebagai perbandingan dengan hasil penelitian dalam referensi yang digunakan.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data dan referensi mutakhir. Metoda standard dan dapat direplikasi oleh peneliti lain.

4. Kelengkapan unsur dan kualitas terbitan:

Kualitas penerbitan cukup baik. Paper berasal dari konferensi dimuat di IOP Science, terindeks Scopus, Kualitas penerbitan cukup baik. Paper berasal dari konferensi dimuat di IOP Science, terindeks Scopus, Q4 SJR: 0.21 (2021). Nilai maximum 30.

Semarang, 10 Juni 2022
Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA
NIP. 195711261990011001
Unit Kerja : Fisika
Bidang Ilmu: Fakultas Sains dan Matematika

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d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,5
Total = (100%)	30		27,5
Nilai Pengusul = 40% x 1/2 x 27,5 = 5,5			

Catatan Penilaian artikel oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Isi jurnal sesuai dan lengkap dari komponen-komponen yang ada abstrak, pendahuluan, prosedur eksperimen, hasil dan pembahasan, lalu kesimpulan dan daftar pustaka yang digunakan.

2. Ruang lingkup dan kedalaman pembahasan:

Paper ini membahas tentang verifikasi isocenter radiasi menggunakan radiografi komputer dengan teknik pengolahan citra digital. Akuisisi citra dilakukan menggunakan modalitas Linac 6 MV dengan metode star shot yaitu star-shaped beam akibat perputaran kolimator, gantry dan sofa. Delineasi pada balok dilakukan untuk menentukan centroid dan diameter balok. Hasilnya, diameter ukuran untuk kolimator rotasi adalah 0,632 mm dan 0,458 mm. Ini menunjukkan bahwa diameter isocenter radiasi Linac yang digunakan dalam penelitian ini masih dalam kondisi baik dan layak untuk dioperasikan.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Data-data serta metodologi yang digunakan dalam penelitian ini cukup baik dan mutakhir, selain itu telah dilengkapi dengan refrensi yang terkini dengan jumlah referensi kurang dari 5 tahun sebanyak 3.

4. Kelengkapan unsur dan kualitas terbitan:

Karya ini diterbitkan dalam prosiding internasional berkualitas Q3 oleh IOP Publishing dengan unsur-unsur yang lengkap serta kualitas yang baik.

Semarang, 5 Juli 2022
Reviewer 2



Prof. Dr. Kusworo Adi, S.Si., M.T. NIP.
197203171998021001
Unit Kerja : Fisika
Bidang Ilmu: Fakultas Sains dan Matematika

Certificate of Attendance

to

Jhon Wesly Manik

as

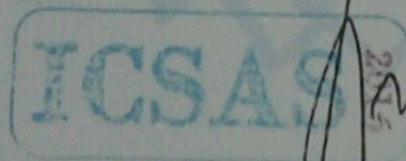
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*International Conference on Science and Applied Science
(Engineering and Educational Science) 2016*

Surakarta, Indonesia on November 19th, 2016

Chairman,



Prof. Dra. Suparmi, M.A., Ph.D.
NIP 19520915 197603 2 001

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Characteristic and quality control test in sector collimator gamma knife perfexion at Siloam hospital

Manik, Jhon Wesly  ; Hidayanto, Eko; Sutanto, Heri Save all to author list

^a Physics Department, Post Graduate Program, Diponegoro University, Jl. Prof. Soedarto, Tembalang Kota Semarang Jawa Tengah, 50275, Indonesia

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In this study conducted to evaluate the collimator 4 mm, 8 mm, 16 mm to determine the level of precision Gamma Knife Perfexion there three years and eight months has not carried out measurements after the first year and verify the alignment of sector 1-8. Measurement with three axes (x-axis, y-axis, z-axis) using the film Gafchromic EBT-3, which will be signaled to a central point in the film to be measured and given a dose of 5 Gy for 10 minutes and then scanned and analyzed using ImageJ software 1.50 and dose rate in film comparison with measurent dose rate using electrometer. Alignment of Patient-Positioning System (PPS) with Radiation Focal Point (RFP) determination of quality control testing each collimator 4 mm in the standard test with < 0.1 and > 0.4 mm passive voice AAPM 54. The results of the standard are still in conformity item 0.21 mm for 4 mm and corelasi dose rate film and measurent using electrometer collimator 4 mm = 0.965, 8 mm = 0.964, 16 mm = 0.959. © Published under licence by IOP Publishing Ltd.

Source details

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2017

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2016 19 November 2016, Solo, Indonesia**

Accepted papers received: 19 December 2016

Published online: 10 February 2017

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