

DAFTAR PUSTAKA

- Akhadi, M. (2000). *Dasar-Dasar Proteksi Radiasi*. Rineka Cipta.
- Akhadi, M. (2002). Budaya Keselamatan dalam Pemanfaatan Radiasi di Rumah Sakit. *Buletin ALARA*.
- Alsafi, K. G. (2016). Radiation Protection in X-Ray Computed Tomography: Literature Review. *International Journal of Radiology and Imaging Technology*, 2(2), 1–5. <https://doi.org/10.23937/2572-3235.1510016>
- Amin, M. B., Edge, S. B., Greene, F. L., Byrd, D. R., Brookland, R. K., Washington, M. K., Gershenwald, J. E Compton, C. C., Hess, K. R., Sullivan, D. C., Jessup, J. M., Brierley, J. D., Gaspar, L. E., Schilsky, R. L., Balch, C. M., Winchester, D. P., Asare, E. A., Madera, M., Gress, D. M., & Meyer, L. R. (2017). *AJCC Cancer Staging Manual*. In *Chicago* (8th ed.). Springer Cham.
- Azam, F., Latif, M. F., Farooq, A., Tirmazy, S. H., Alshahrani, S., Bashir, S., & Bukhari, N. (2019). Performance Status Assessment by Using ECOG (Eastern Cooperative Oncology Group) Score for Cancer Patients by Oncology Healthcare Professionals. *Case Reports in Oncology*, 12(3), 728–736. <https://doi.org/10.1159/000503095>
- Keputusan Badan Pengawas Tenaga Nuklir Nomor: 1211/K/V/2021 Tentang Penetapan Nilai Tingkat Panduan Diagnostik Indonesia (Indonesian Diagnostic Reference Level) Untuk Modalitas Sinar-X CT Scan dan Radiografi Umum, 1 (2021).
- Bauhs, J. A., Vrieze, T. J., Primak, A. N., Bruesewitz, M. R., & McCollough, C. H. (2008). CT dosimetry: comparison of measurement techniques and devices. *RadioGraphics*, 28(1), 245–253.
- Bontrager, K. L., & Lampignano, J. (2014). *Textbook of Radiographic Positioning and Related Anatomy* (7th ed.). Mosby.
- Bushberg, J. T., Seibert, J. A., Leidholdt, E. M., & Boone, J. M. (2011). *The Essential Physics of Medical Imaging Third Edition* (3rd ed.). Lippincott Williams & Wilkins.
- Dabukke, H. (2017). Pengaruh Perubahan Tegangan Terhadap Kontras Resolusi Pada CT Scan. *Jurnal Mutiara Elektromedik*, 1(1), 24–33.
- Faiza, S., Rahman, S., & Asri, A. (2016). Karakteristik Klinis dan Patologis Karsinoma Nasofaring di Bagian THT-KL RSUP Dr.M.Djamil Padang. *Jurnal Kesehatan Andalas*, 5(1), 90–96. <http://jurnal.fk.unand.ac.id>
- Farhat, Adham, M., Dewi, Y. A., & Indrasari, A. R. (2019). *Karsinoma Nasofaring*. Buku Kedokteran EGC.

- Furuta, T., Sato, T., Han, M. C., Yeom, Y. S., Kim, C. H., Brown, J. L., & Bolch, W. E. (2017). Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. *Physics in Medicine and Biology*, *62*(12), 4798–4810. <https://doi.org/10.1088/1361-6560/aa6b45>
- Grosu, A., Sprague, L. D., & Molls, M. (1999). Definition of Target Volume and Organs at Risk. *Biological Target Volume*, 167.
- Gumilar, R., Fitriani, A. N., Ummutafiqoh, T., Subkhi, M. N., & Perkasa, Y. S. (2016). Studi Pengukuran Koefisien Atenuasi Material Zincalume Sebagai Perisai Radiasi Gamma. *Wahana Fisika*, *1*(1), 21–31. <https://doi.org/10.17509/wafi.v1i1.4528>
- Hafid, T. (2012). *Analisis Nilai Noise Citra CT Scan dengan Variasi Filter dan faktor Eksposi*. Universitas Hasanuddin Makassar.
- Irsal, M., & Winarno, G. (2020). Pengaruh Parameter Milliampere-Second (mAs) terhadap Kualitas Citra Dan Dosis Radiasi Pada Pemeriksaan CT scan Kepala Pediatrik. *Jurnal Fisika Flux*, *17*(1), 1–8. <https://doi.org/10.20527/flux.v17i1.7085>
- IAEA. (2018). *PHITS ver. 3.10 User's Manual*. IAEA.
- Jalut, L. L. S., Rupiasih, N. N., & Sardjono, Y. (2020). Analysis of Boron Dose on BNCT Technique with Simulation Methods Using the PHITS (Particle and Heavy Ion Transport code System). *Buletin Fisika*, *21*(1), 1–7.
- Jumriah, Dewang, S., Abdullah, B., & Tahir, D. (2018). Study of Image Quality, Radiation Dose and Low Contrast Resolution from MSCT Head by Using Low Tube Voltage. *Journal of Physics: Conference Series*, *979*(1), 1–6. <https://doi.org/10.1088/1742-6596/979/1/012078>
- Kartawiguna, D. (2009). Multi Slice Computed Tomography (MSCT). *Makalah Kuliah Umum IKATEMI*, 1–17.
- Khasanah, D. S. (2020). *Karakterisasi Radiasi Pesawat Linear Accelerator (LINAC) 6 MV Dengan Metode Monte Carlo*. Jenderal Soedirman University.
- Khusniatul, P., Hidayanto, E., Arifin, Z., & Anam, C. (2014). Pengaruh Variasi Faktor Eksposi (Tegangan Tabung dan Arus Waktu) Serta Pitch Terhadap Computed Tomography Dose Index (Ctdi) Di Udara Menggunakan Ct Dose Profiler. *Youngster Physics Journal*, *3*(4), 363–372.
- Kristic, D., & Nikezic, D. (2007). Input Files With ORNL-Mathematical Phantoms of The Human Body for MCNP-4B. *Computer Physics Communications*, *176*(1), 33–37.
- Kubo, T. (2019). Vendor Free Basics of Radiation Dose Reduction Techniques for CT. *European Journal of Radiology*, *110*, 14–21. <https://doi.org/https://doi.org/10.1016/j.ejrad.2018.11.002>

- Lestari, S. (2019). *Teknik Radiografi Medis*. Penerbit Andi.
- Martin, A., & Harbison, S. . (1979). *An Introduction to Radiation Protection, 2nd Edition*. Springer Link.
- Niita, K., Iwase, H., Sato, T., Iwamoto, Y., Matsuda, N., Sakamoto, Y., Nakashima, H., Mancusi, D., & Sihver, L. (2011). Recent Developments of the PHITS code. *Progress in Nuclear Science and Technology, 1*, 1–6. <https://doi.org/10.15669/pnst.1.1>
- Niita, K., Sato, T., & Hashinmoto. (2018). PHITS ver. 3.02 User's Manual. *Journal of Nuclear Science and Technology*, 913–923.
- Nurhayati, A. Y., Nariswari, N. N., Rahayuningsih, B., & Hariadi, Y. C. (2019). Analisis Variasi Faktor Eksposi dan Ketebalan Irisan Terhadap CTDI dan Kualitas Citra Pada Computed Tomography Scan (Analysis of Variation of Exposure Factor and Slice Thickness On CTDI and Image Quality at Computed Tomography Scan). *Berkala Saintek*, 7(1), 7–12.
- Pratiwi, U. (2005). *Aplikasi analisis citra detail phantom dengan metode konversi data digital ke data matrik untuk meningkatkan kontras citra menggunakan film imaging plate*. Universitas Sebelas Maret.
- Rachman, A. (2015). Aplikasi Teknik Computed Tomography (CT) Scan dalam Penelitian Porositas Tanah dan Perkembangan Akar. *Jurnal Sumberdaya Lahan*, 9(2), 85–96.
- Rasito. (2013). *Pengenalan MCNP Untuk Pengkajian Dosis*. Pusdiklat BATAN.
- Rochimayati, M. C. (2020). *Peranan Penggunaan Saline Flush Terhadap Enhancement Kontras Pada CT Abdomen*. Poltekkes Kemenkes Semarang.
- Ruslim, M. N., Ali, R. H., & Loho, E. (2016). Profil hasil pemeriksaan CT-Scan pada pasien karsinoma nasofaring di Bagian/SMF Radiologi FK Unsrat RSUP Prof. Dr. R. D. Kandou Manado periode April 2015 – Agustus 2016. *Jurnal E-Clinic (ECL)*, 4(2), 1–6. <https://doi.org/10.35790/ecl.4.2.2016.14490>
- Saadah, R. (2021). *Simulasi Penentuan Luas Lapangan Penyinaran dan Dosis Serap Kanker Nasofaring Menggunakan Program PHITS*. Universitas Jenderal Soedirman.
- Safitri, R. (2010). Kajian Pemanfaatan Radiasi Sinar Gamma (Co-60) Pada Sistem Pengawetan Makanan Studi Kasus Pada Serbuk Cabai. *SIGMA*, 115–122.
- Sato, T., Iwamoto, Y., Hashimoto, S., Ogawa, T., Furuta, T., Abe, S., Kai, T., Tsai, P., Matsuda, N., Iwase, H., Shigyo, N., Sihver, L., & Niita, K. (2018). Features of Particle and Heavy Ion Transport code System (PHITS) version 3.02. *Journal of Nuclear Science and Technology*, 55(6), 684–690. <https://doi.org/10.1080/00223131.2017.1419890>
- Seeram, E. (2001). Computed Tomography: Physical Principles, Clinical Applications, and Quality Control. In *Saunders Elsevier*. W. B Saunders

Company.

<http://evolve.elsevier.com/Seeram><http://evolve.elsevier.com/Seeram>

- Setiawan, H., Ediati, A., & Winarni, T. I. (2017). Genetic Counseling to Reduce the Level of Depression in Parents of Children with Thalassemia Major. *2nd International Conference on Sports Science, Health and Physical Education (ICSSHPE)*, 102–106.
- Setiawan, H., Khaerunnisa, R. N., Ariyanto, H., Fitriani, A., Firdaus, F. A., & Nugraha, D. (2021). Yoga Meningkatkan Kualitas Hidup Pada Pasien Kanker: Literature Review. *Journal of Holistic Nursing Science*, 8(1), 75–88. <https://doi.org/10.31603/nursing.v8i1.3848>
- Shiiba, T., Kuga, N., & Kuroia, Y. (2017). Evaluation of The Accuracy Of Monoenergetic Electron and Beta-emitting Dose-Point Kernels Using Particle and Heavy Ion Transport Code System: PHITS. *Applied Radiation and Isotopes*, 128(0), 199–203.
- Söderberg, M. (2008). Automatic Exposure Control in CT : an Investigation Between Different Manufacturers Considering Radiation Dose and Image Quality. In *Swedia*. LUND University.
- Tsapaki, V., & Rehani, M. M. (2007). Dose management in CT facility. *Biomedical Imaging and Intervention Journal*, 3(2), 1–7. <https://doi.org/10.2349/bijj.3.2.e43>
- Tsuboi, K., Sakae, T., & Gerelchuluun, A. (2020). *Proton Beam Radiotherapy*. Springer.
- Vassileva, J. (2002). A phantom for dose-image quality optimization in chest radiography. *The British Journal of Radiology*, 75(898), 837–842. <https://doi.org/10.1259/bjr.75.898.750837>
- Washio, H., Ohira, S., Kanayama, N., Wada, K., Karino, T., Komiyama, R., Miyazaki, M., & Teshima, T. (2019). Effect of a Saline Flush Technique for Head and Neck Imaging in Dual-Energy CT : Improvement of Image Quality and Perivenous Artefact Reduction Using Virtual Monochromatic Imaging. *Clinical Radiology*, 74, 805–812. <https://doi.org/10.1016/j.crad.2019.06.010>
- Wibisono, N. I. (2011). *Koreksi Geometri Pengukuran Dosis Pada Phantom*. Universitas Indonesia.
- Widiastuti. (2019). *Karsinoma Nasofaring Kadar Bcl-2 , CD44 dan VEGF*. UNS Press.
- X-5 Monte Carlo Team. (2003). *MCNP-A General Monte Carlo N-Particle Transport Code Version 5.LA-UR04-1987*. Los Alamos National Laboratory.