DAFTAR PUSTAKA

Alatas, Z., Hidayati, S., Akhadi, M., Purba, M., Purwadi, D., Ariyanto, S., Winarno, H., Rismiyanto, Sofyatiningrum, E., Hendriyanto, Widyastono, H., Parmanto, E. M., & Syahril. (2016). *Buku Pintar Nuklir* (Ruslan (ed.); 1st ed.). BATAN Press.

Ardana, I. M., & Sardjono, Y. (2017). Optimization of a Neutron Beam Shaping Assembly Design for BNCT and its Dosimetry Simulation Based on MCNPX. *Jurnal Teknologi Reaktor Nuklir*, *19*(3), 121–130. https://doi.org/10.17146/tdm.2017.19.3.3582

Ardana, M., Noerwasana, A. D., & Sardjono, Y. (2019). *Kajian Teknologi Boron Neutron Capture Therapy (BNCT) dan Aspek Regulasinya*. 95–101.

Ballarini, F., Bakeine, J. G., Bortolussi, S., Bruschi, P., Clerici, A. M., Bari, A. De, & Dionigi, P. (n.d.). *Nuclear Physics meets Medicine and Biology : Boron Neutron Capture Therapy*.

Bilalodin, Suparta, G. B., Hermanto, A., Palupi, D. S., & Sardjono, Y. (2019). Characteristics in Water Phantom of Epithermal Neutron Beam Produced by Double Layer Beam Shaping Assembly. *ASEAN Journal on Science & Technology for Development*, *36*(1), 9–12. https://doi.org/10.29037/ajstd.519

Bilalodin, Suparta, G. B., Hermanto, A., Palupi, D. S., Sardjono, Y., & Rasito. (2019a). Characteristics of Thermal Neutron Flux Distribution in a Phantom Irradiated by Epithermal Neutron Beam from Double Layer Beam Shaping Assembly (DBSA). *Pakistan Journal of Scientific and Industrial Research*, *62A*(3), 167–173.

Bilalodin, Suparta, G. B., Hermanto, A., Palupi, D. S., Sardjono, Y., & Rasito. (2019b). Optimization and Analysis of Neutron Distribution on 30 MeV Cyclotron Based Double Layer Beam Shaping Assembly (DLBSA). *Nuclear*

Physics and Atomic Energy, *20*(1), 070–075. https://doi.org/10.15407/jnpae2019.01.070

Cristy, M.-. (1985). Mathematcal Phantoms for Use in Reassessment of Radiation to Japanese Atomic-Bomb Survivors. In *Metabolism and Dosimetry Research Group*.

Deng, L., Chen, C., Ye, T., & Li, G. (2011). The Dosimetry Calculation for Boron Neutron Capture Therapy. In A. L. Abujamra (Ed.), *Diagnostic Technique and Surgical Management of Brain Tumors* (1st ed., pp. 173–196). In Tech China.

Dwikuntari, L., Setijadi, A. R., & Hendrik. (2017). *External Beam Radiation Therapy pada Kanker Paru-paru*. *02*(02), 375–392.

Dymova, M. A., Taskaev, S. Y., Richter, V. A., & Kuligina, E. V. (2020). Boron Neutron Capture Therapy: Current Status and Future Perspectives. *Cancer Communications*, *40*(9), 406–421. https://doi.org/10.1002/cac2.12089

Eckerman, K. F., & Akkurt, H. (2007). *Development of PIMAL: Mathematical Phantom with Moving Arms and Legs*.

El-saftawy, A. A. (2013). *Regulating the Performance Parameters of Accelerated Particles*.

Fakhrurreza, M., Kusminanto, & Sardjono, Y. (2014). Perancangan Reflektor Neutron dengan Sumber Neutron Californium 252 Untuk Fasilitas Boron Neutron Capture Therapy Menggunakan Metode Simulasi MCNP5. *Prosiding Pertemuan Dan Persentasi Ilmiah-Penelitian Dasar Ilmu Pengetahuan Dan Teknologi Nuklir 2014 Pusat Sains Dan Teknologi Akselerator-BATAN*, 109–117.

Glascock, M. D. (2010). Comparison and Contrast Between XRF and NAA: Used for Characterization Of Obsidian Sources in Central Mexico. *X-Ray Fluorescence Spectrometry (XRF) in Geoarchaeology*, 161–192. https://doi.org/10.1007/978-1-4419-6886-9

Harish, A. F., Warsono, & Sardjono, Y. (2018). Dose Analysis of Boron Neutron Capture Therapy (BNCT) Treatment for Lung Cancer Based on Particle and Heavy Ion Transport Code System (PHITS). *ASEAN Journal on Science & Technology for Development*, *35*(3), 187–194. https://doi.org/10.29037/ajstd.545

IAEA. (2001). *Current Status of Neutron Capture Therapy*.

IAEA. (2009). *Cyclotron Produced Radionuclides : Guidelines for Setting Up a Facility* (Issue 471).

IAEA. (2012). *Neutron Generators for Analytical Purposes* (Issue 1).

Irhas, Harto, A. W., & Sardjono, Y. (2014). Dosimetri Boron Neutron Capture Therapy pada Kanker Hati (Hepatocellular Carsinoma) Menggunakan MCNP Code dengan Sumber Neutron dari Kolom Termal. *Prosiding Pertemuan Dan Presentasi Ilmiah - Penelitian Dasar Ilmu Pengetahuan Dan Teknologi Nuklir 2014 Pusat Sains Dan Teknologi Akselerator BATAN*, 135–142.

Japanese Society of Neutron Capture Therapy. (2016). *NCT News* (Vol. 2, Issue 1).

Jr, R. M., Gesh, C., Pagh, R., Rucker, R., & Williams, R. (2011). *Compendium of Material Composition Data for Radiation Transport Modeling*.

Krstic, D., Jovanovic, Z., Milenkovic, B., Nikezic, D., Atanackovic, J., Laboratories, C. R., River, C., Ridge, O., & Geometry, M. P. (2014). Monte Carlo Calulations of Lung Dose in ORNL Phantom for Boron Neutron Capture Therapy. *Radiation Protection Dosimetry*, 1–5. https://doi.org/doi:10.1093/rpd/nct365

Laudensia, L., Jalut, S., Rupiasih, N. N., & Sardjono, Y. (2020). *Analisis Dosis Boron pada Teknik BNCT dengan Metode Simulasi Menggunakan Program PHITS (Particle and Heavy Ion Transport Code System) Analysis of Boron Dose on BNCT Technique with Simulation Methods Using the PHITS (Particle and Heavy Ion Transport Cod*. Buletin Fisika.

Litz, M., Waits, C., & Mullins, J. (2012). Neutron-Activated Gamma-Emission : Technology Review. *Army Research Laboratory*, 1–38.

Livingston, M. S. (n.d.). The History of the Cyclotron. *Proceding of the 7th International Conference on Cyclotron and Their Application, Zurich, Switzerland*, 635–638.

Maleka, P. P. (2010). *In-situ element analysis from gamma-ray and neutron spectra using a pulsed-neutron source* (pp. 13–28). University of Groningen.

Matsumoto, T. Ã. (2007). Monte Carlo Simulation of Depth – dose Distribution in Several Organic Models for Boron Neutron Capture Therapy. *Nuclear Instruments and Methods in Physics Research*, *580*, 552–557. https://doi.org/10.1016/j.nima.2007.05.233

Menzel, H. G. (2010). Prescribing, Recording, and Reporting Photon-Beam Intensity-Modulated Radiation Therapy (IMRT). *Journal of the ICRU*, *10*(1), 1–106. https://doi.org/10.1093/jicru/ndq001

Porcari, P., Capuani, S., & Saverio, F. (2011). Novel Pharmacological and Magnetic Resonance Strategies to Enhance Boron Neutron Capture Therapy (BNCT) Efficacy in the Clinical Treatment of Malignant Glioma. *Management of CNS Tumors*, 267–284. https://doi.org/10.5772/24756

Qiu, R., Li, J., Zhang, Z., Wu, Z., Zeng, Z., & Fan, J. (2008). Photon SAF calculation Based on the Chinese Mathematical Phantom and Comparison with the ORNL Phantoms. *Health Physics Society*, *96*(6), 716–724. https://doi.org/10.1097/01.HP.0000344233.05885.82

Quah, S. C. (2018). Boron Neutron Capture Therapy in the Treatment of Lung Cancer. *Journal of Xiangya Medicine*, 1–10. https://doi.org/10.21037/jxym.2018.06.02

Santosa, S., & Taufik. (2015). Desain Konseptual Ssistem Magnet Siklotron 30 MeV untuk Sumber Neutron Epithermal BNCT. *Prosiding Pertemuan Dan Persentasi Ilmiah Teknologi Akselerator Dan Aplikasinya*, *17* November, 1-6.

Sato, T., Niita, K., Matsuda, N., Hashimoto, S., Noda, S., Ogawa, T., Iwase, H., Fukahori, T., Okumura, K., Kai, T., Furuta, T., & Sihver, L. (2013). Particle and Heavy Ion Transport code System. *Journal of Nuclear Science and Technology*, *50*(9), 913–932. https://doi.org/10.1080/00223131.2013.814553

Septiana, I., Widarto, N., & Sumardi, Y. (2014). Desain Experiment Existing Parameters Physics untuk Mendukung Metode Boron Neutron Capture Therapy (BNCT) pada Beamport Tembus Reaktor Kartini. *Prosiding Pertemuan Dan Persentasi Ilmiah-Penelitian Dasar Ilmu Pengetahuan Dan Teknologi Nuklir*, 118–126.

Series, R., Physics, I. N., & Kortesniemi, M. (2002). *Solutions for clinical implementation of boron neutron capture therapy in finland*. University of Helsinki.

Setiyadi, A., Sardjono, & Darmawan, D. (2016). Dosis Boron Neutron Capture Therapy(BNCT) pada Kanker Kulit (Melanoma Maligna) Meenggunakan MCNPX-Code dengan Sumber Neutron dari Beamport Tembus Reaktor Kartini. *E-Journal Fisika*, *5*(1), 65–75. http://journal.student.uny.ac.id/ojs/ojs/index.php/fisika/article/view/781

Sri Nurwati, & Rizka Indra Prasetya. (2014). Kajian Medis Pemanfaatan Teknologi nuklir BNCT Untuk Tumor Otak Jenis Glioma. *Prosiding Pertemuan Dan Presentasi Ilmiah : Penelitian Dasar Ilmu Pengetahuan Dan Teknologi Nuklir 2014, Pusat Sains Dan Teknologi Akselerator BATAN*, *6*, 127–134.

Vassileva, J. (2002). A Phantom for Dose-Image Quality Optimization in Chest Radiography. *British Journal of Radiology*, *75*, 837–842. https://doi.org/10.1259/bjr.75.898.750837

Webster, J. G. (2006). Phantom Materials in Radiology. *Medical Devices and Instrumentation* (2nd ed., Issue 5, pp. 252–269). Wiley-Interscience. https://doi.org/10.1002/0471732877.emd201

Yu, H., Tang, X., Shu, D., Liu, Y., Geng, C., Gong, C., Hang, S., & Chen, D. (2017).

Influence of Neutron Soures and 10B Concentration on Boron Neutron Capture Therapy for Shallow and Deeper Non-Small Cell Lung Cancer (Vol. 12, Issue 3). https://doi.org/10.1097/HP.0000000000000601