

DAFTAR PUSTAKA

- [1] International Agency for Research on Cancer, "World," Maret 2021. [Online]. Available: <https://gco.iarc.fr/today/data/factsheets/populations/900-world-factsheets.pdf>. [Diakses 19 April 2023].
- [2] International Agency for Research on Cancer, "Indonesia," Maret 2021. [Online]. Available: <https://gco.iarc.fr/today/data/factsheets/populations/360-indonesia-factsheets.pdf>. [Diakses 19 April 2023].
- [3] Livescience, "The 10 deadliest cancers, and why there's no cure," 2022. [Online]. Available: <https://www.livescience.com/11041-10-deadliest-cancers-cure.html>. [Diakses 19 April 2023].
- [4] M. Reyngold, P. Parikh, C. H. Crane, "Contemporary Perspectives on the Use of Radiation Therapy for Locally Advanced Gallbladder Cancer," *Chinese Clinical Oncology*, vol. 8(4), 2019.
- [5] National Cancer Institute, ChemRadiation Therapy and You: Support for People With Cancer, 2021.
- [6] W. A. Sauerwein, A. Witting, R. Moss, & Y. Nakagawa, "Neutron capture therapy: principles and applications," New York: *Springer*, 2012.
- [7] R.L. Moss, "Critical Review with an Optimistic Outlook on Boron Neutron Capture Therapy (BNCT)," *Applied Radiation and Isotopes*, vol. 88, pp. 2–11, 2014.
- [8] S. Nurwati dan R. I. Prasetya, "Kajian Medis Pemanfaatan Teknologi Nuklir BNCT untuk Tumor Otak Jenis Glioma," dalam *Prosiding Pertemuan dan Presentasi Ilmiah*, 2014.
- [9] C. A. Maitz, A. A. Khan, P. J. Kueffer, J. D. Brockman, J. Dixon, S. S. Jalisatgi, D. W. Nigg, T. A. Everett, M. F. Hawthorne, "Validation and Comparison of the Therapeutic Efficacy of Boron Neutron Capture Therapy Mediated By Boron-Rich Liposomes in Multiple Murine Tumor Models," *Translational Oncology*, 2017.
- [10] E. M. Heber, M. F. Hawthorne, P. J. Kueffer, M. A. Garabalino, S. I. Thorp, E. C. C. Pozzi, A. M. Hughes, C. A. Maitz, S. S. Jalisatgi, D. W. Nigg, P. Curotto, V. A. Trivillin, A. E. Schwint, "Therapeutic efficacy of boron neutron Capture Therapy Mediated by Boron-Rich Liposomes for Oral Cancer in the Hamster Cheek Pouch Model," *PNAS*, 2014
- [11] H. Kumada dan K. Takada, "Treatment Planning System and Patient Positioning for Boron Neutron Capture Therapy," *Therapeutic Radiology and Oncology*, 2018.
- [12] I. M. Ardana, A. D. Noerwasana, Y. Sardjono, "Kajian Teknologi Boron Neutron Capture Therapy (BNCT) dan Aspek Regulasinya," dalam *Prosiding Seminar Keselamatan Nuklir*, 2018.
- [13] T. Sato, Y. Iwamoto, S. Hashimoto, T. Ogawa, T. Furuta, S. Abe, T. Kai, P.-E. Tsai, N. Matsuda, H. Iwase, H. Shigyo, L. Sihver, K. Niita, "Features of Particle and Heavy Ion Transport code System (PHITS) version 3.02," *J. Nucl. Sci. Technol*, 2018.
- [14] JAEA, Particle and Heavy Ion Transport code System User's Manual Ver. 3.30 English version, Ibaraki: JAEA.
- [15] Z. Yang, P. Tsai, S. Lee, Y. Liu, C. Chen, T. Sato, R. Sheu, "Inter-Comparison of Dose Distributions Calculated by FLUKA, GEANT4, MCNP, and PHITS for Proton Therapy," *EPJ Web of Conferences*, 2017.



- [16] N. S. Wahyuni, "Assesment of Boron Neutron Capture Therapy (BNCT): Compact Neutron Generators," *Indonesian Journal of Physics and Nuclear Applications*, vol. 3, pp. 4, 2018.
- [17] Junichi Hiratsuka, Nobuhiko Kamitani, Ryo Tanaka, Ryoji Tokiya, Eisaku Yoden, Yosinori Sakurai, Minoru Suzuki, "Long-Term Outcome of Cutaneous Melanoma Patients Treated with Boron Neutron Capture Therapy (BNCT)," *Journal of Radiation Research*, vol. 61, pp. 945–951, 2020.
- [18] Xiang Cheng, Fanfan Li, Lizhen Liang, "Boron Neutron Capture Therapy: Clinical Application and Research Progress," *Current Oncology*, vol. 29, pp. 7868–7886, 2022.
- [19] N. Hu, H. Tanaka, T. Takata, S. Endo, S. Masunaga, M. Suzuki, Y. Sakurai, "Evaluation of PHITS for Microdosimetry in BNCT to Support Radiobiological Research," *Applied Radiation and Isotopes*, 2020.
- [20] Laura Laudensia Senlly Jalut, Ni Nyoman Rupiasih, Yohanes Sardjono, "Analisis Dosis Boron pada Teknik BNCT dengan Metode Simulasi Menggunakan Program PHITS (Particle and Heavy Ion Transport Code System)," *Buletin Fisika*, vol. 21, 2020.
- [21] Hasna Atqona Aziizah, Sunardi, Yohannes Sardjono, "Preliminary Microdosimetry Analysis of a BNCT Treatment for Liver Cancer Based on PHITS Code Simulation," *Indonesian Journal of Physics and Nuclear Applications*, vol. 5, pp. 65-69, 2020.
- [22] Bilalodin, "Dose Analysis of Boron Neutron Capture Thera[y (BNCT) on Head Cancer Using PHITS Code with Neutron Source from Accelerator," *Journal of Physics: Conference Series*, 2022.
- [23] Harold Ellis, "Anatomy of the Gallbladder ad Bile Ducts," *Surgery (Oxford)*, vol. 29(12), pp. 593-596, 2011.
- [24] N. Mahdavifar, M. Mohammadian, H. Salehiniya, "Gallbladder Cancer in the World: Epidemiology, Incidence, Mortality, and Risk Factors," *World Cancer Research Journal*, vol. 5(3), 2018
- [25] N. Sturm, J. S. Schuhbaur, F. Huttner, L. Perkhofer, T. J. Ettrich, "Gallbladder Cancer: Current Multimodality Treatment Concepts and Future Directions," *Cancers (Basel)*, vol. 14(22), pp. 5580, 2022.
- [26] C. Housset, Y. Chretien, D. Debray, N. Chignard, "Functions of the Gallbladder," *Comprehensive Physiology*, vol. 6(3), pp. 1549-1577, 2016.
- [27] Cleveland Clinic, "Gallbladder Cancer," 2023. [Online]. Available: <https://my.clevelandclinic.org/health/diseases/17013-gallbladder-cancer>. [Diakses 20 April 2023].
- [28] American Cancer Society, "Can Gallbladder Cancer Be Prevented?," 2020. [Online]. Available: <https://www.cancer.org/cancer/gallbladder-cancer/causes-risks-prevention/prevention.html>. [Diakses 20 April 2023].
- [29] M. B. Amin, F. L. Greene, S. B. Edge, D. R. Byrd, R. K. Brookland, M. K. Washington, J. E. Gershenwald, C. C. Compton, K. R. Hess, D. C. Sullivan, J. M. Jessup, J. D. Brierley, L. E. Gaspar, R. L. Schilsky, C. M. Balch, D. P. Winchester, E. A. Asare, M. Madera, D. M. Gress, L. R. Meyer "AJCC Cancer Staging Manual. 8th ed," New York: Springer, 2017.
- [30] Gordon Locher, "Biological Effects and Therapeutic Possibilities of Neutrons," *Am. J. Roentgenol. Radium Ther.* 1936.
- [31] Bagher Farhood, Hadi Samadian, Mahdi Ghorbani, Seyed Salman Zakariaee, Courtney Knaup, "Physical, Dosimetric and Clinical Aspects and Delivery Systems in Neutron



- Capture Therapy,” *Reports of Practical Oncology & Radiotherapy*, vol. 23, pp. 462-473, 2018.
- [32] Yohannes Sardjono, Susilo Widodo, Irhas, Hilmy Tantawy, “A Design of Boron Neutron Capture Therapy for Cancer Treatment in Indonesia,” *Indonesian Journal of Physics and Nuclear Applications*, vol. 1, pp. 1-13, 2016.
- [33] Kuan Hu, Zhimin Yang, Lingling Zhang, Lin Xie, Lu Wang, Hao Xu, Lee Josephson, Steven H. Liang, Ming-Rong Zhang, “Boron Agents for Neutron Capture Therapy,” *Coordination Chemistry Reviews*, vol. 405, 2020.
- [34] Laurentia Gales dan Rodica Anghel, “Boron Neutron Capture Therapy: Delivery Agents Used in Boron Administration,” *Therapeutics, Pharmacology and Clinical Toxicology*, 2016.
- [35] R. F. Barth, P. Mi, W. Yang, “Boron Delivery Agents for Neutron Capture Therapy of Cancer,” *Cancer Commun (Lond)*, 2018.
- [36] H. He, J. Li, P. Jiang, S. Tian, H. Wang, R. Fan, J. Liu, Y. Yang, Z. Liu, J. Wang, “The Basis and Advances in Clinical Application of Boron Neutron Capture Therapy,” *Radiation Oncology*, pp 1-8, 2021.
- [37] H. Tanaka, T. Takata, T. Watanabe, M. Suzuki, T. Mitsumoto, S. Kawabata, S. Masunaga, Y. Kinashi, Y. Sakurai, A. Maruhashi, K. Ono, “Characteristic Evaluation of The Thermal Neutron Irradiation Field Using 30 MeV Cyclotron Accelerator for Basic Research On Neutron Capture Therapy’, *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 2020.
- [38] A. W. Chao, K. H. Mess, M. Tigner, Handbook of Accelerator Physics and Engineering. 2nd ed. *World Scientific*: Singapore, 2013
- [39] Silakhuddin, “Penentuan Kriteria Desain Komponen Utama Siklotron 13 Mev,” *Iptek Nuklir: Bunga Rampai Presentasi Ilmiah Jabatan Peneliti*.
- [40] Canadian Nuclear Safety Commission, Introduction to Dosimetry, Ottawa: CNSC, 2012.
- [41] K. M. Purwanto, “Analisis Distribusi Dosis Radiasi pada Terapi Kanker Serviks dengan Boron Neutron Capture Cancer Therapy menggunakan MCNPX,” *Universitas Gadjah Mada*, 2016.
- [42] Sardjono, Y., Harto, A. W., Arrozi, M. I. M., Irhas, Santoso, B. H., & Tanthawi, H., “Pengantar Monte Carlo N-Particle Dasar-dasar perancangan fasilitas Boron Neutron-capture Cancer Therapy,” Yogyakarta: Jogja Bangkit Publisher, 2015.
- [43] Judith F. Briesmeister, “MCNP-A General Monte Carlo N-Particle Transport Code,” 1993.
- [44] Los Alamos National Library, MCNP Code Version 6.3.0 Theory & User Manual, 2022.
- [45] GEANT4, Book for Application Developers Release 11.0, 2021.
- [46] E. Han, W. Bolch, K. F. Eckerman, “Revision to the ORNL series of adult and pediatric computational phantoms for use with the MIRD schema,” *Health physics*. vol. 90, pp 337-56, 2006.
- [47] C. L. Vendrami, M. J. Magnetta, P. K. Mittal, C. C. Moreno, F. H. Miller, “Gallbladder Carcinoma and Its Differential Diagnosis at MRI : What Radiologists Should Know,” *RSNA Journals*, 2021.



- [48] International Commission on Radiations Unit and Measurement Report 444, Dokumen Teknis. Inc. USA:1989
- [49] Maria Droste Ratri Puspita, “Analisis Dosis Radiasi Terapi Kanker Serviks dengan Boron Neutron Capture Therapy (BNCT) Berbasis Particle and Heavy Ion Transport Code System (PHITS),” *Universitas Gadjah Mada*, 2021.
- [50] F. Faghihi dan S. Khalili, “Ablative Radiation Therapy for Locally Advanced Pancreatic Cancer: Techniques and Results,” *Radiation Oncology*, 2019.
- [51] IBA Dosimetry, Constraint Poster Rev.2, 2022. Available: https://www.iba-dosimetry.com/fileadmin/user_upload/products/02_radiation_therapy/myqa_srs/iba_dose_constraints_poster_rev2_0522.pdf. [Diakses 1 Juli 2023].
- [52] BAPETEN, “Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 6 Tahun 2010 tentang Pemantauan Kesehatan untuk Pekerja Radiasi,” 2010.
- [53] C. Gemici, G. Yaprak, S. Ozdemir, T. Baysal, O. O. Seseogullari, H. Ozyurt, “Volumetric decrease of pancreas after abdominal irradiation, it is time to consider pancreas as an organ at risk for radiotherapy planning,” *Radiat Oncol*, vol. 13(238), 2018.
- [54] T. Shinichi, S. Tsunetoh, Y. Tanaka, T. Tanaka, H. Kashiwagi, T. Takata, S. Kawabata, M. Suzuki, M. Ohmichi, “Boron Uptake of Boronophenylalanine and The Effect of Boron Neutron Capture Therapy in Cervical Cancer Cells,” *Applied Radiation and Isotopes*, 2023.

