DAFTAR PUSTAKA

American Cancer Society. (2019). *How Radiation Therapy Is Used to Treat Cancer*. https://www.cancer.org/cancer/managing-cancer/treatment-types/radiation/basics.html#:~:text=Radiation%20therapy%20uses%20high%2Denergy,destroy%20or%20damage%20cancer%20cells.

Andreo, P. (2018). Monte Carlo simulations in radiotherapy dosimetry. Dalam *Radiation Oncology* (Vol. 13, Nomor 1). BioMed Central Ltd. https://doi.org/10.1186/s13014-018-1065-3

Baskar, R., Lee, K. A., Yeo, R., & Yeoh, K. W. (2012). Cancer and radiation therapy: Current advances and future directions. Dalam *International Journal of Medical Sciences* (Vol. 9, Nomor 3, hlm. 193–199). https://doi.org/10.7150/ijms.3635

Bazira, P. J. (2023). Anatomy of the liver. *Surgery (Oxford)*. https://doi.org/10.1016/j.mpsur.2023.02.024

Bisello, S., Cilla, S., Benini, A., Cardano, R., Nguyen, N. P., Deodato, F., Macchia, G., Buwenge, M., Cammelli, S., Wondemagegnehu, T., Uddin, A. F. M. K., Rizzo, S., Bazzocchi, A., Strigari, L., & Morganti, A. G. (2022). Dose–Volume Constraints fOr oRganS At risk In Radiotherapy (CORSAIR): An "All-in-One" Multicenter–Multidisciplinary Practical Summary. Dalam *Current Oncology* (Vol. 29, Nomor 10, hlm. 7021–7050). MDPI. https://doi.org/10.3390/curroncol29100552

Donna K. (2005). *Clinical Neutron Therapy Center*. 1–42.

Dovbnya, A. N., Kuplennikov, E. L., Kandybey, S. S., & Krasiljnikov, V. V. (2014). Neutrons against cancer. *Physics of Particles and Nuclei*, *45*(5), 972–990. https://doi.org/10.1134/S1063779614050049

Furuta, T., & Sato, T. (2021). Medical application of particle and heavy ion transport code system PHITS. Dalam *Radiological Physics and Technology* (Vol. 14, Nomor 3, hlm. 215–225). Springer. https://doi.org/10.1007/s12194-021-00628-0

Gasalberti, D., & Raben, A. (2021). Radiation Therapy for Malignant Salivary Gland Tumors. *Surgery of the Salivary Glands*, 342–347. https://doi.org/10.1016/B978-0-323-67236-8.00052-3

GLOBOCAN. (2021). International Agency for Research on Cancer 2020. *Global Cancer Observatory: Cancer Today.*, *419*.

Golovkov, V. M., & Lisin, V. A. (2013). *Neutron Therapy for Cancer Treatment Using the U-120 Cyclotron Hydrogen Energy Technology View project*

Electromagnetic Therapy in Glioblastoma treatment View project. https://www.researchgate.net/publication/259604164

Golovkov, V. M., & Shehada, A. M. (2019). IMPROVING NEUTRON FLUX BY OPTIMIZING. *School Egineering of Nuclear Technologies,National Research Tomsk Polytechnic University*, 44–50.

Goodhead, D. T. (2019). Neutrons are forever! Historical perspectives. Dalam *International Journal of Radiation Biology* (Vol. 95, Nomor 7). https://doi.org/10.1080/09553002.2019.1569782

Gordon, K., Gulidov, I., Fatkhudinov, T., Koryakin, S., & Kaprin, A. (2022a). Fast and Furious: Fast Neutron Therapy in Cancer Treatment. *International Journal of Particle Therapy*, *9*(2), 59–69. https://doi.org/10.14338/ijpt-22-00017

Gordon, K., Gulidov, I., Fatkhudinov, T., Koryakin, S., & Kaprin, A. (2022b). Fast and Furious: Fast Neutron Therapy in Cancer Treatment. *International Journal of Particle Therapy*, *9*(2), 59–69. https://doi.org/10.14338/ijpt-22-00017

Harrison, J. D., Balonov, M., Bochud, F., Martin, C., Menzel, H. G., Ortiz-Lopez, P., Smith-Bindman, R., Simmonds, J. R., & Wakeford, R. (2021). ICRP Publication 147: Use of Dose Quantities in Radiological Protection. *Annals of the ICRP*, *50*(1), 9–82. https://doi.org/10.1177/0146645320911864

Iliakis, G., Mladenov, E., & Mladenova, V. (2019). Necessities in the processing of DNA double strand breaks and their effects on genomic instability and cancer. Dalam *Cancers* (Vol. 11, Nomor 11). MDPI AG. https://doi.org/10.3390/cancers11111671

International Atomic Energy Agency. (2018). *org/newscenter/news/killing-more-cancer-cells-than-ever-before-a-new-era-in-radiotherapy English (/newscenter/news/killing-more-cancer-cells-than-ever-before-a-new-era-in-radiotherapy)*. https://www.iaea.org/sites/default/files/styles/original_image_size/public/radiotherapy-tumour-1140x640.jpg?itok=3bT287_m

Issa, Z. F., Miller, J. M., & Zipes, D. P. (2019). Complications of Catheter Ablation of Cardiac Arrhythmias. *Clinical Arrhythmology and Electrophysiology*, 1042–1067. https://doi.org/10.1016/B978-0-323-52356-1.00032-3

Jing, S., Guo, H., Qi, Y., Yang, G., & Huang, Y. (2020). A portable fast neutron irradiation system for tumor therapy. *Applied Radiation and Isotopes*, *160*, 109138. https://doi.org/10.1016/J.APRADISO.2020.109138

Karimi-Sh, K. (2011). Neutrons applications in cancer treatment and in specific diagnostics Hellenic Journal of Nuclear Medicine. Dalam *Article in Hellenic Journal of Nuclear Medicine*. www.nuclmed.gr

Kerr, G. D. (1982). *Health and Safety Research Division PHOTON AND NEUTRON FLUENCE-TO-KERMA CONVERSION FACTORS FOR ICRP-1975 REFERENCE MAN USING IMPROVED ELEMENTAL COMPOSITIONS FOR BONE AND MARROW OF THE SKELETON OAK RIDGE NATIONAL LABORATORY Oak Ridge, Tennessee 37830 operated by UNION CARBIDE CORPORATION for the DEPARTMENT OF ENERGY*.

Kerr, G. D., Pace Iii, J. V, & Egbert, S. D. (t.t.). *SURVIVOR DOSIMETRY Part A. Fluence-to-Kerma Conversion Coefficients*.

Kim CH, Yeom YS, Petoussi-Henss N, & et al. (2020). *ADULT MESH-TYPE REFERENCE COMPUTATIONAL PHANTOMS*.

Koka, K., Verma, A., Dwarakanath, B. S., & Papineni, R. V. L. (2022). Technological Advancements in External Beam Radiation Therapy (EBRT): An Indispensable Tool for Cancer Treatment. Dalam *Cancer Management and Research* (Vol. 14, hlm. 1421–1429). Dove Medical Press Ltd. https://doi.org/10.2147/CMAR.S351744

Kumari, S., Mukherjee, S., Sinha, D., Abdisalaam, S., Krishnan, S., & Asaithamby, A. (2020). Immunomodulatory effects of radiotherapy. Dalam *International Journal of Molecular Sciences* (Vol. 21, Nomor 21, hlm. 1–29). MDPI AG. https://doi.org/10.3390/ijms21218151

L'Annunziata, M. F. (2003). NUCLEAR RADIATION, ITS INTERACTION WITH MATTER AND RADIOISOTOPE DECAY. *Handbook of Radioactivity Analysis*, 1–121. https://doi.org/10.1016/B978-012436603-9/50006-5

Lisin, V. A., Bogdanov, A. V., Golovkov, V. M., Musabaeva, L. I., Sukhikh, L. G., & Verigin, D. A. (2014). Tomsk Polytechnic University cyclotron as a source for neutron based cancer treatment. *Review of Scientific Instruments*, *85*(2). https://doi.org/10.1063/1.4849695

M-Cristy. (t.t.-a). *ORNL/TM-9487 Dist. Category UC-41 Health and Safety Research Division MATHEMATICAL PHANTOMS FOR USE IN REASSESSMENT OF RADIATION DOSES TO JAPANESE ATOMIC-BOMB SURVIVORS*.

M-Cristy. (t.t.-b). *ORNL/TM-9487 Dist. Category UC-41 Health and Safety Research Division MATHEMATICAL PHANTOMS FOR USE IN REASSESSMENT OF RADIATION DOSES TO JAPANESE ATOMIC-BOMB SURVIVORS*.

Megasari, W. (2020). *ANALISIS DOSIS RADIASI TERAPI KANKER BERBASIS FAST NEUTRON THERAPY (FNT) DAN BORON NEUTRON CAPTURE THERAPY (BNCT) MENGGUNAKAN PROGRAM PARTICLE AND HEAVY ION TRANSPORT CODE SYSTEM (PHITS) ANALYSIS OF FAST NEUTRON THERAPY (FNT) AND BORON NEUTRON CAPTURE THERAPY (BNCT)-BASED CANCER THERAPY DOSES RADIATION USING THE PARTICLE AND HEAVY ION TRANSPORT CODE SYSTEM (PHITS)*. Universitas Gadjah Mada.

Melo, G., Flausino, C. S., Darella, I. K., Miguel, A. F. P., Martins, P. A., & Rivero, E. R. C. (2022). Top 100 most-cited articles on intraoral squamous cell carcinoma and its risk factors: a bibliometric study. *Brazilian Oral Research*, *36*. https://doi.org/10.1590/1807-3107BOR-2022.VOL36.0030

Moffitt, G. B., Wootton, L. S., Hårdemark, B., Sandison, G. A., Laramore, G. E., Parvathaneni, U., & Stewart, R. D. (2020). Scattering kernels for fast neutron therapy treatment planning. *Physics in Medicine and Biology*, *65*(16). https://doi.org/10.1088/1361-6560/ab9a85

Nikita, E. (2017). The Human Skeleton. *Osteoarchaeology*, 1–75. https://doi.org/10.1016/B978-0-12-804021-8.00001-2

Pak, S., & Cucinotta, F. A. (2021). Comparison between PHITS and GEANT4 Simulations of the Heavy Ion Beams at the BEVALAC at LBNL and the Booster Accelerator at BNL. *Life Sciences in Space Research*, *29*, 38–45. https://doi.org/10.1016/J.LSSR.2021.03.002

Park, S. H., & Kang, J. O. (2011). Basics of particle therapy I: physics. *Radiation Oncology Journal*, *29*(3), 135. https://doi.org/10.3857/roj.2011.29.3.135

Peach, K., Wilson, P., & Jones, B. (2011). Accelerator science in medical physics. Dalam *British Journal of Radiology* (Vol. 84, Nomor SPEC. ISSUE 1). https://doi.org/10.1259/bjr/16022594

Podgorsak, E. B. (2006a). *Radiation Physics for Medical Physiscists*.

Podgorsak, E. B. (2006b). *Radiation Physics for Medical Physiscists_2006*.

Pu, N., Zhang, X. C., Cai, H. J., Jia, H., Liang, T. J., & He, Y. (2023). Evaluation of OpenMC calculations coupling with PHITS, FLUKA, and GEANT4 for ADS study. *Progress in Nuclear Energy*, *155*. https://doi.org/10.1016/j.pnucene.2022.104505

Rinard, P. (2011). *Neutron Interactions with Matter*.

Rumgay, H., Arnold, M., Ferlay, J., Lesi, O., Cabasag, C. J., Vignat, J., Laversanne, M., McGlynn, K. A., & Soerjomataram, I. (2022). Global burden of primary liver cancer in 2020 and predictions to 2040. *Journal of Hepatology*, *77*(6), 1598–1606. https://doi.org/10.1016/J.JHEP.2022.08.021

Saini, A., Kumar, M., Bhatt, S., Saini, V., & Malik, A. (2020). CANCER CAUSES AND TREATMENTS. *International Journal of Pharmaceutical Sciences and Research*, *11*(7), 3109. https://doi.org/10.13040/IJPSR.0975-8232.11(7).3109-22

Sato, T., Niita, K., Matsuda, N., Hashimoto, S., Iwamoto, Y., Furuta, T., Noda, S., Ogawa, T., Iwase, H., Nakashima, H., Fukahori, T., Okumura, K., Kai, T., Chiba, S., & Sihver, L. (2015). Overview of particle and heavy ion transport code system PHITS. *Annals of Nuclear Energy*, *82*. https://doi.org/10.1016/j.anucene.2014.08.023

Shankar, S., Rammohan, A., Rela, M., & Srinivasan, P. (2022). Surgical anatomy of segment four of liver and its implications in hepato-biliary surgery and liver transplantation. *Journal of Liver Transplantation*, *6*, 100076. https://doi.org/10.1016/J.LIVER.2022.100076

Siegel, R. L., Miller, K. D., Fuchs, H. E., & Jemal, A. (2022). Cancer statistics, 2022. *CA: A Cancer Journal for Clinicians*, *72*(1), 7–33. https://doi.org/10.3322/caac.21708

Singh, V. P., Badiger, N. M., & Vega-Carrillo, H. R. (2014). *NEUTRON KERMA FACTORS, AND WATER EQUIVALENCE OF SOME TISSUE SUBSTITUTES*.

Söderberg, J. (2007). *Dosimetry and radiation quality in fast-neutron radiation therapy A study of radiation quality and dosimetric properties of fast-neutrons for external beam radiotherapy and problems associated with corrections of measured charged particle cross-sections*.

Sørensen, B. S., Pawelke, J., Bauer, J., Burnet, N. G., Dasu, A., Høyer, M., Karger, C. P., Krause, M., Schwarz, M., Underwood, T. S. A., Wagenaar, D., Whitfield, G. A., & Lühr, A. (2021). Does the uncertainty in relative biological effectiveness affect patient treatment in proton therapy? Dalam *Radiotherapy and Oncology* (Vol. 163, hlm. 177–184). Elsevier Ireland Ltd. https://doi.org/10.1016/j.radonc.2021.08.016

Sukhikh, E. S., & Sukhikh, L. G. (t.t.). *Dosimetric and Radiobiological Evaluation of Combined Radiotherapy of Cervical Cancer Based on the VMAT Technique*. www.intechopen.com

Su, T. S., Liu, Q. H., Zhu, X. F., Liang, P., Liang, S. X., Lai, L., Zhou, Y., Huang, Y., Cheng, T., & Li, L. Q. (2021). Optimal stereotactic body radiotherapy dosage for hepatocellular carcinoma: a multicenter study. *Radiation Oncology*, *16*(1). https://doi.org/10.1186/s13014-021-01778-6

Tsujita, Y., Sofue, K., Ueshima, E., Ueno, Y., Hori, M., Tsurusaki, M., & Murakami, T. (2023). Evaluation and Prediction of Treatment Response for

Hepatocellular Carcinoma. *Magnetic Resonance in Medical Sciences*, rev.2022-0118. https://doi.org/10.2463/mrms.rev.2022-0118

Wang, J. song, Wang, H. juan, & Qian, H. li. (2018). Biological effects of radiation on cancer cells. Dalam *Military Medical Research* (Vol. 5, Nomor 1). BioMed Central Ltd. https://doi.org/10.1186/s40779-018-0167-4

Watabe, H., Yu, K. N., Safakatti, N., & Shahmohammadi Beni, M. (2022). Development of an open-source GUI computer program for modelling irradiation of multi-segmented phantoms using grid-based system for PHITS. *Nuclear Engineering and Technology*. https://doi.org/10.1016/j.net.2022.08.033

Zhang, W., Oraiqat, I., Litzenberg, D., Chang, K. W., Hadley, S., Sunbul, N. B., Matuszak, M. M., Tichacek, C. J., Moros, E. G., Carson, P. L., Cuneo, K. C., Wang, X., & el Naqa, I. (2023). Real-time, volumetric imaging of radiation dose delivery deep into the liver during cancer treatment. *Nature Biotechnology*. https://doi.org/10.1038/s41587-022-01593-8

Zhou, J., Sun, H. C., Wang, Z., Cong, W. M., Wang, J. H., Zeng, M. S., Yang, J. M., Bie, P., Liu, L. X., Wen, T. F., Han, G. H., Wang, M. Q., Liu, R. B., Lu, L. G., Ren, Z. G., Chen, M. S., Zeng, Z. C., Liang, P., Liang, C. H., … Fan, J. (2018). Guidelines for diagnosis and treatment of primary liver cancer in China (2017 Edition). Dalam *Liver Cancer* (Vol. 7, Nomor 3, hlm. 235–260). S. Karger AG. https://doi.org/10.1159/000488035

Zhou, J., Sun, H., Wang, Z., Cong, W., Wang, J., Zeng, M., Zhou, W., Bie, P., Liu, L., Wen, T., Han, G., Wang, M., Liu, R., Lu, L., Ren, Z., Chen, M., Zeng, Z., Liang, P., Liang, C., … Fan, J. (2020). Guidelines for the Diagnosis and Treatment of Hepatocellular Carcinoma (2019 Edition). Dalam *Liver Cancer* (Vol. 9, Nomor 6, hlm. 682–720). S. Karger AG. https://doi.org/10.1159/000509424