# DAFTAR PUSTAKA

[1] Kemenkes, "Hari Kanker Sedunia," 2019. [Online]. Available: http://sehatnegeriku.kemkes.go.id/baca/fokus-utama/20190131/2329773/hari-kanker-sedunia-2019/. [Accessed 16 Juni 2020].

[2] Riskesdas, "Hasil Utama Riskesdas," 2018. [Online]. Available: https://www.kemkes.go.id/resources/download/info-terkini/hasil-riskesdas-2018.pdf.. [Accessed 16 Juni 2020].

[3] Vivian M. Spaans, I. Nyoman Bayu Mahendra, Gatot Purwoto, Marjolijn D. Trietsch, Michelle Osse, Natalja ter Haar, Alexander A.W. Peters, Gert J. Fleuren, Ekaterina S. Jordanova, "The landscape of somatic mutations in Indonesian cervical cancer is predominated by the PI3K pathway," *Gynecologic Oncology*, vol. 148, pp. 189-196, 2017.

[4] Louise J Murray, John Lilley, "Radiotherapy: Technical Aspects," *RADIOTHERAPY*, Vols. 48, no. 2, pp. 79-83, 2020.

[5] E. B. Podgorsak, RADIATION ONCOLOGY PHYSICS: A HANDBOOK FOR TEACHERS AND STUDENTS, Vienna: International Atomic Energy Agency, 2005.

[6] KPKN, "Panduan penatalaksanaan Kanker Serviks," Kementerian Kesehatan Republik Indonesia, [Online]. Available: http://kanker.kemkes.go.id/guidelines/PPKServiks.pdf. [Accessed 16 Juni 2020].

[7] A. Mason, Use and Limitations of MCNP for In vitro Cell Dosimetry, Bristol: Bristol Haematology and Oncology Centre.

[8] Roghayeh Taghavi, Hamid Reza Mirzaei, Seyed Mahmoud Reza Aghamiri, ParastooHajian, "Calculating the Absorbed Dose by Thyroidin Breast Cancer Radiotherapy Using MCNP-4C code," *Radiation Physics and Chemistry*, vol. 130, pp. 12-14, 2016.

[9] Suleiman Ameir Suleiman, Yaping Qi, Zhi Chen, X. George Xu, "Monte carlo study of organ doses and related risk for cancer in Tanzania from scattered photons in cervical radiation treatment involving Co-60 source," *Physica Medica*, vol. 62, pp. 13-19, 2019.

[10] N Mutrikah, H Winarno, T Amalia, M Djakaria, "Conventional and conformal technique of external beam radiotherapy in locally advanced cervical cancer: Dose distribution, tumor response, and side effects," *Journal of Physics*, vol. 884, pp. 1-9, 2017.

[11] Gustavo Arruda Viani, Fred Muller dos Santos, Juliana Fernandes Pavoni, "Significant impact on the oncologic outcomes with intensity modulated radiotherapy and conformational radiotherapy over conventional radiotherapy in cervix cancer patients treated with radiotherapy," *Reports of Practical Oncology and Radiotherapy*, vol. 25, pp. 678-683, 2020.

[12] Citra Ayu Fitrisia, Daan Khambri, Bobby Indra Utama, Syamel Muhammad, "Analisis Faktor-faktor yang Berhubungan dengan Kejadian Lesi Pra Kanker Serviks pada Wanita Pasangan Usia Subur di Wilayah Kerja Puskesmas Muara Bungo 1," *Artikel Penelitian*, vol. 8(4), pp. 33-43, 2019.

[13] Murat Beyzadeoglu, Basic Radiation Oncology, Berlin: Springer, 2010.

[14] Susanna I. Lee, MD, PhD, Mostafa Atri, MD, "2018 FIGO Staging System for Uterine Cervical Cancer: Enter Cross-sectional Imaging," *Radiology*, vol. 292, pp. 15-24, 2018.

[15] ORNL, "Program History," [Online]. Available: https://www.ornl.gov/crpk/program-history. [Accessed 20 Juni 2020].

[16] D. N. Krstic, "INPUT FILES WITH ORNL-MATHEMATICAL PHANTOMS OF THE HUMAN BODY FOR MCNP-4B," 2007. [Online]. Available: https://www.pmf.kg.ac.rs/radijacionafizika/InputFiles.html. [Accessed 17 Juli 2020].

[17] Jung-in Kim, Beom Seok Ahn, Chang Heon Choi, Jong Min Park, So-Yeon Park, "Optimal collimator rotation based on the outline of multiple brain targets in VMAT," *Radiation Oncology*, vol. 13, pp. 1-10, 2018.

[18] R. J. d. C. Roque, "X-ray imaging using 100 μm thick Gas Electron Multipliers operating in Kr-CO2 mixtures," pp. 1-138, 2018.

[19] Nicholas Tsoulfanidis, Sheldon Landsberger, MEASUREMENT & DETECTION of RADIATION, Boca Raton: Taylor & Francis Group, 2015.

[20] IAEA, Hanbook on Photonuclear Data For Aplications : Cross-Section and Spectra, Vienna: IAEA, 2020.

[21] S Yani, R Tursinah, M F Rhani, R C X Soh, F Haryanto, I Arif, "Neutron contamination of Varian Clinac iX 10 MV photon beam using Monte Carlo

simulation," *Journal of Physics: Conference Series*, pp. 1-6, 2016.

[22] Tatsuhiko Sato, Koji Niita, Norihiro Matsuda, Shintaro Hashimoto, Yosuke Iwamoto, Takuya Furuta, Shusaku Noda, Tatsuhiko Ogawa, Hiroshi Iwase, Hiroshi Nakashima, Tokio Fukahori, Keisuke Okumura, Tetsuya Kai, Satoshi Chiba, Lembit Sihver, "Overview of particle and heavy ion transport code system PHITS," *Annals of Nuclear Energy*, vol. 82, pp. 110-115, 15.

[23] Tatsuhiko Sato, Koji Niita, Norihiro Matsuda, Shintaro Hashimoto, Yosuke Iwamoto, Shusaku Noda, Hiroshi Iwase, Hiroshi Nakashima, Tokio Fukahori, Satoshi Chiba, Lembit Sihver, "Overview of the PHITS code and its application to medical physics," *Progress in Nuclear Science and Technology*, vol. 4, pp. 879-882, 2014.

[24] 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, and K. Niita, PHITS 3.20 User's Manual, JAEA, 2018.

[25] S. Yani, M.F. Rhani, R.C.X. Soh, F.Haryanto, I. Arif, "Monte carlo simulation of varian clinac iX 10 MV photon beam for small field dosimetry," *International Journal of Radiation Research*, vol. 15, pp. 274-282, 2017.

[26] H.R. Vega-Carrillo, S.A. Martínez-Ovalle, J.L. Benites-Rengifo, A.M. Lallena, "Photon and photoneutron spectra produced in radiotherapy LINACs," *XII International Symposium*, pp. 237-254, 2011.

[27] Ahmed Fadhil Mkhaiber, Salwah Kareem Dawood, "Calculation of Shielding Parameters of Fast Neutrons for Some Composite Materials," *Al-Mustansiriyah Journal of Science*, vol. 30, pp. 210-215, 2019.

[28] A. H. Tsuraya, "PEMODELAN SHIELDING BERBAHAN PARAFIN DAN ALUMINIUM UNTUK FASILITAS BNCT MENGGUNAKAN SIMULATOR MCNP," vol. 1, pp. 1-89, 2017.

[29] Varian, specifications Exact IGRT Couch Precise Imaging Personalized Treatment, USA: Varian Medical Systems, Inc.

[30] So-Yeon Park, Siyong Kim, Wonmo Sung, Sang-Tae Ki, "Modeling scattered radiation from multi-leaf collimators (MLCs) to improve calculation accuracy of in-air output ratio," *SCIENTIFIC PAPER*, vol. 42, p. 719–731, 2019.

[31] Sita Gandes Pinasti, Balza Achmad, S.T, M.Sc.E, dr.Bagaswoto P., Sp.Rad(K), Sp.KN, M.Kes,, "REKONSTRUKSI HYBRID

COMPUTATIONAL HUMAN PHANTOM UNTUK STUDI DOSIMETRI RADIASI INTERNAL PADA TERAPI RADIOIODINE," *FICA*, 2014.

[32] ICRP, Annals of the ICRP Adult Reference Computational Phantoms, ICRP Published by Elsevier Ltd, 2007.

[33] Ridwan Ramdani, Sitti Yani, Moh. Fahdillah Rhani, Idam Arif dan Freddy Haryanto, "Commissioning Linear Accelerator Varian Clinax iX Foton Beam 10 MV Menggunakan Simulasi Monte Carlo EGSnrc Code System," *Prosiding Simposium Nasional Inovasi dan Pembelajaran Sains*, pp. 635-656, 2015.

[34] Yaqin Wu, Biqing Zhu, Jingjing Han, Hanzi Xu, Zhen Gong, Yongqin Yang, Jian Huang, Emei Lu, "A comparative dosimetric study of cervical cancer patients with para-aortic lymph node metastasis treated with volumetric modulated arc therapy vs. 9-field intensity-modulated radiation therapy," *Annals of Translational Medicine*, pp. 1-8, 2019.

[35] E. B., "Tolerance of Normal Tissue to Therapeutic Radiation," vol. 1, pp. 35-48, 2013.

[36] Manar Alenezi, Kayla Stinson, Muhammad Maqbool, Norman Bolus, "Klein–Nishina electronic cross-section, Compton cross sections, and buildup factor of wax for radiation shielding and protection," *Journal of Radiological Protection*, vol. 38, pp. 372-381, 2018.

[37] Jusmawang, Syamsir Dewang, Bidayatul Armynah, "ANALISIS KARAKTERISTIK PERCENTAGE DEPTH DOSE (PDD) DAN PROFILE DOSE PESAWAT LINEAR ACCELERATOR (LINAC) UNTUK BERKAS SINAR-X DENGAN VARIASI LUAS LAPANGAN PENYINARAN," pp. 1-8, 2015.

[38] Neil G Burnet, Simon J Thomas, Kate E Burton, Sarah J Jefferies, "Defining The Tumour and Target Volumes for Radiotherapy," *Cancer Imaging*, vol. 4, p. 2, 2004.

[39] Vaitheeswaran Ranganathan, ANTO Gipson JOE, Prashant Kumar, "A method to reduce local hot/cold spots in dmpo-based IMRT planning," pp. 1-9, 2014.

[40] Jia-Yang Lu, Ji-Yong Zhang, Mei Li, Michael Lok-Man Cheung, Yang-Kang Li, Jing Zheng, Bao-Tian Huang, Wu-Zhe Zhang, "A simple optimization approach for improving target dose homogeneity in intensitymodulated radiotherapy for sinonasal cancer," *Scientific Report*, pp. 1-9, 2015.

[41] S. Zimeras, "Segmentation Techniques of Anatomical Structures with Application in Radiotherapy Treatment Planning," *Modern Practices in Radiation Therapy*, pp. 41-58, 2014.

[42] Ming X Jia, Xu Zhang, Ce Yin, Ge Feng, Na Li, Song Gao, Da W Liu, "Peripheral dose measurements in cervical cancer radiotherapy: a comparison of volumetric modulated arc therapy and step-and-shoot IMRT techniques," *Radiation Oncology*, vol. 61, pp. 1-7, 2014.

[43] NCRP, NCRP Statement on Dose Lomit for Neutrons, Washington, D.C..