

DAFTAR PUSTAKA

- [1] International Agency for Research on Cancer (IARC)., “Global Cancer Observatory (2020): World Fact Sheets.” [Online]. Available: <https://gco.iarc.fr/today/data/factsheets/populations/900-world-fact-sheets.pdf>
- [2] Kementerian Kesehatan Republik Indonesia., “Profil Kesehatan Indonesia 2020.” [Online]. Available: <https://www.kemkes.go.id/downloads/resources/download/pusdatin/profil-kesehatan-indonesia/Profil-Kesehatan-2020.pdf>
- [3] “Cancer Staging | Has Cancer Spread | Cancer Prognosis.” Accessed: Jun. 13, 2023. [Online]. Available: <https://www.cancer.org/cancer/diagnosis-staging/staging.html>
- [4] “What Is Cancer? - NCI.” Accessed: Jun. 13, 2023. [Online]. Available: <https://www.cancer.gov/about-cancer/understanding/what-is-cancer>
- [5] M. S. M. Sabirin, A. D. Permana, and B. Soeseno, “Epidemiologi Penderita Tumor Ganas Kepala Leher di Departemen Telinga Hidung Tenggorokan - Kepala Leher Rumah Sakit Dr. Hasan Sadikin Bandung, Indonesia, Periode 2010–2014”.
- [6] Kementrian Kesehatan Republik Indonesia, “Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/684/2019 tentang Pedoman Nasional Pelayanan Kedokteran Tata Laksana Kanker Nasofaring.” Oct. 2019. Accessed: Jul. 26, 2023. [Online]. Available: https://yankes.kemkes.go.id/unduh/fileunduh_1610414081_863291.pdf
- [7] NYU Langone’s Laura and Isaac Perlmutter Cancer Center, “Types of Sinonasal Cancer.” Accessed: Jun. 26, 2023. [Online]. Available: <https://nyulangone.org/conditions/sinonasal-cancer/types>
- [8] J. L. Llorente, F. López, C. Suárez, and M. A. Hermsen, “Sinonasal carcinoma: clinical, pathological, genetic and therapeutic advances,” *Nat. Rev. Clin. Oncol.*, vol. 11, no. 8, pp. 460–472, Aug. 2014, doi: 10.1038/nrclinonc.2014.97.
- [9] “Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 3 Tahun 2013 tentang Keselamatan Radiasi Dalam Penggunaan Radioterapi”.
- [10] M. Salimi, K. S. Abi, H. Nedaie, H. Hassani, H. Gharaati, M. Samei, R. Shahi, and H. Zarei, “Assessment and Comparison of Homogeneity and Conformity Indexes in Step-and-Shoot and Compensator-Based Intensity Modulated Radiation Therapy (IMRT) and Three-Dimensional Conformal Radiation Therapy (3D CRT) in Prostate Cancer,” *J. Med. Signals Sens.*, vol. 7, no. 2, p. 102, 2017, doi: 10.4103/2228-7477.205502.
- [11] S. H. Benedict, K. M. Yenice, D. Followill, J. M. Galvin, W. Hinson, B. Kavanagh, P. Keall, M. Lovelock, S. Meeks, L. Papiez, T. Purdie, R. Sadagopan, M. C. Schell, B. Salter, D. J. Schlesinger, A. S. Shiu, T. Solberg, D. Y. Song, V. Stieber, R. Timmerman, W. A. Tomé, D. Verellen, L. Wang, and F. Yin, “Stereotactic body radiation therapy: The report of AAPM Task Group 101,” *Med. Phys.*, vol. 37, no. 8, pp. 4078–4101, Aug. 2010, doi: 10.1118/1.3438081.
- [12] Mobius Medical Systems, “Dose Volume Histogram Limits.”



- [13] M. Jeraj and V. Robar, "Multileaf collimator in radiotherapy," *Radiol. Oncol.*, vol. 38, pp. 235-240+248, Sep. 2004.
- [14] F. Zwicker, H. Hauswald, S. Nill, B. Rhein, C. Thieke, F. Roeder, C. Timke, A. Zabel-du Bois, J. Debus, and P. E. Huber, "New Multileaf Collimator with a Leaf Width of 5 mm Improves Plan Quality Compared to 10 mm in Step-and-Shoot IMRT of HNC Using Integrated Boost Procedure," *Strahlenther. Onkol.*, vol. 186, no. 6, pp. 334–343, Jun. 2010, doi: 10.1007/s00066-010-2103-8.
- [15] Z. Abisheva, S. R. Floyd, J. K. Salama, J. Kirkpatrick, F.-F. Yin, M. J. Moravan, W. Giles, and J. Adamson, "The effect of MLC leaf width in single-isocenter multi-target radiosurgery with volumetric modulated arc therapy," *J. Radiosurgery SBRT*, vol. 6, no. 2, pp. 131–138, 2019.
- [16] E. B. Podgoršak and International Atomic Energy Agency, Eds., *Radiation oncology physics: a handbook for teachers and students*. Vienna: International Atomic Energy Agency, 2005.
- [17] S. Ohira, Y. Ueda, N. Kanayama, M. Isono, S. Inui, R. Komiyama, H. Washio, M. Miyazaki, M. Koizumi, T. Teshima, and K. Konishi, "Impact of Multileaf Collimator Width on Dose Distribution in HyperArc Fractionated Stereotactic Irradiation for Multiple (-) Brain Metastases," *Anticancer Res.*, vol. 41, no. 6, pp. 3153–3159, Jun. 2021, doi: 10.21873/anticancer.15101.
- [18] J. Chang, K. M. Yenice, K. Jiang, M. Hunt, and A. Narayana, "Effect of MLC Leaf Width and PTV Margin on the Treatment Planning of Intensity-Modulated Stereotactic Radiosurgery (IMSRS) or Radiotherapy (IMSRT)," *Med. Dosim.*, vol. 34, no. 2, pp. 110–116, Jun. 2009, doi: 10.1016/j.meddos.2008.06.002.
- [19] W. Jalbout, J. Abou Zahr, B. Youssef, and B. Shahine, "On the Feasibility of Stereotactic Radiosurgery With 5.0 and 10.0 mm MLC Leaves as a Function of Target Size and Shape," *Front. Oncol.*, vol. 9, p. 741, Aug. 2019, doi: 10.3389/fonc.2019.00741.
- [20] M. Siggel, P. Ziegenhein, S. Nill, and U. Oelfke, "Boosting runtime-performance of photon pencil beam algorithms for radiotherapy treatment planning," *Phys. Med.*, vol. 28, no. 4, pp. 273–280, Oct. 2012, doi: 10.1016/j.ejmp.2011.10.004.
- [21] Y. Gong, S. Wang, L. Zhou, Y. Liu, Y. Xu, Y. Lu, S. Bai, Y. Fu, Q. Xu, and Q. Jiang, "Dosimetric comparison using different multileaf collimators in intensity-modulated radiotherapy for upper thoracic esophageal cancer," *Radiat. Oncol.*, vol. 5, no. 1, p. 65, Dec. 2010, doi: 10.1186/1748-717X-5-65.
- [22] S. B. Edge and American Joint Committee on Cancer, Eds., *AJCC cancer staging manual*, 7th ed. New York: Springer, 2010.
- [23] *What is a Linac?*, (Jul. 08, 2019). Accessed: Jul. 26, 2024. [Online Video]. Available: <https://www.iaea.org/newscenter/multimedia/videos/what-is-a-linac>
- [24] M. Shimizu, Y. Morishita, M. Kato, T. Kurosawa, T. Tanaka, N. Takata, and N. Saito, "Calculation of the characteristics of clinical high-energy photon beams with EGS5-MPI," *J. Phys. Conf. Ser.*, vol. 489, p. 012023, Mar. 2014, doi: 10.1088/1742-6596/489/1/012023.
- [25] B. H. Suharmono, I. Y. Anggraini, H. Hilmaniyaya, and S. D. Astuti, "Quality Assurance (QA) Dan Quality Control (QC) Pada Instrumen Radioterapi



- Pesawat LINAC,” *J. Biosains Pascasarj.*, vol. 22, no. 2, p. 73, Dec. 2020, doi: 10.20473/jbp.v22i2.2020.73-80.
- [26] R. Baskar, K. A. Lee, R. Yeo, and K.-W. Yeoh, “Cancer and Radiation Therapy: Current Advances and Future Directions,” *Int. J. Med. Sci.*, vol. 9, no. 3, pp. 193–199, 2012, doi: 10.7150/ijms.3635.
- [27] M. Orth, K. Lauber, M. Niyazi, A. A. Friedl, M. Li, C. Maihöfer, L. Schüttrumpf, A. Ernst, O. M. Niemöller, and C. Belka, “Current concepts in clinical radiation oncology,” *Radiat. Environ. Biophys.*, vol. 53, no. 1, pp. 1–29, Mar. 2014, doi: 10.1007/s00411-013-0497-2.
- [28] N. Fitriatuzzakiyyah, R. K. Sinuraya, and I. M. Puspitasari, “Cancer Therapy with Radiation: The Basic Concept of Radiotherapy and Its Development in Indonesia,” *Indones. J. Clin. Pharm.*, vol. 6, no. 4, pp. 311–320, Dec. 2017, doi: 10.15416/ijcp.2017.6.4.311.
- [29] B. Di Muzio and H. Knipe, “Intensity-modulated radiation therapy,” in *Radiopaedia.org*, Radiopaedia.org, 2019. doi: 10.53347/rID-67494.
- [30] H. Kodrat and R. Noviriany, “Teknik Radiosurgery,” *Radioter. Onkol. Indones.*, vol. 7, no. 2, Jul. 2018, doi: 10.32532/jori.v7i2.47.
- [31] “The International Commission on Radiation Units and Measurements,” *J. ICRU*, vol. 10, no. 1, p. NP.2-NP, Apr. 2010, doi: 10.1093/jicru/ndq001.
- [32] Y. Mustofa, “VERIFIKASI PENYINARAN IMRT MENGGUNAKAN 2D ARRAY MATRIX EVOLUTION,” 2011.
- [33] J. H. Kim, “LINAC-based High-precision Radiotherapy: Radiosurgery, Image-guided Radiotherapy, and Respiratory-gated Radiotherapy,” *J. Korean Med. Assoc.*, vol. 51, no. 7, p. 612, 2008, doi: 10.5124/jkma.2008.51.7.612.
- [34] T. Bortfeld, W. Schlegel, K. H. Höver, and D. Schulz-Ertner, “Mini and Micro Multileaf Collimators,” 1999. [Online]. Available: <https://api.semanticscholar.org/CorpusID:40977566>
- [35] A. Harjono, “Kalkulasi monte carlo distribusi dosis dalam paru pada simulasi perlakuan radioterapi pasien kanker paru dengan sinar-X megavolt,” Universitas Indonesia Library. Accessed: Jan. 25, 2024. [Online]. Available: <https://lib.ui.ac.id>
- [36] M. Clements, N. Schupp, M. Tattersall, A. Brown, and R. Larson, “Monaco treatment planning system tools and optimization processes,” *Med. Dosim.*, vol. 43, no. 2, pp. 106–117, 2018, doi: 10.1016/j.meddos.2018.02.005.
- [37] Badan Pengawas Tenaga Nuklir, “Keputusan Kepala 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.” 2021.
- [38] T. Ventura, M. do C. Lopes, B. C. Ferreira, and L. Khouri, “SPIDERplan: A tool to support decision-making in radiation therapy treatment plan assessment,” *Rep. Pract. Oncol. Radiother. J. Gt. Cancer Cent. Poznan Pol. Soc. Radiat. Oncol.*, vol. 21, no. 6, pp. 508–516, 2016, doi: 10.1016/j.rpor.2016.07.002.
- [39] D. Jones, “ICRU Report 50-Prescribing, Recording and Reporting Photon Beam Therapy,” *Med. Phys.*, vol. 21, no. 6, pp. 833–834, Jun. 1994, doi: 10.1118/1.597396.



- [40] J. M. Park, S.-Y. Park, J. H. Kim, J. Carlson, and J. Kim, "The effect of extremely narrow MLC leaf width on the plan quality of VMAT for prostate cancer," *Radiat. Oncol.*, vol. 11, no. 1, p. 85, Jun. 2016, doi: 10.1186/s13014-016-0664-0.

