

## DAFTAR PUSTAKA

- [1] “Hasil Pencarian - KBBI Daring.” Accessed: Jun. 14, 2023. [Online]. Available: <https://kbbi.kemdikbud.go.id/entri/Kanker>
- [2] “Cancer Today.” Accessed: Mar. 24, 2024. [Online]. Available: <https://gco.iarc.who.int/today/>
- [3] S. Mishra, M. Sable, S. Das Majumdar, P. Mishra, D. Muduly, and D. Parida, “Bilateral Breast Cancer—Its clinicopathological profile and management: An experience from a tertiary care center from Eastern India,” *J. Cancer Res. Ther.*, vol. 18, no. 9, p. 341, 2022, doi: 10.4103/jcrt.JCRT\_1729\_20.
- [4] H.-P. Sinn and H. Kreipe, “A Brief Overview of the WHO Classification of Breast Tumors, 4th Edition, Focusing on Issues and Updates from the 3rd Edition,” *Breast Care*, vol. 8, no. 2, pp. 149–154, 2013, doi: 10.1159/000350774.
- [5] B. Sas-Korczyńska, W. Kamzol, M. Kołodziej-Rzepa, J. Mituś, and W. Wysocki, “The characteristics of bilateral breast cancer patients,” vol. 68, no. 5–6, pp. 221–226, 2018, doi: 10.5603/2018.0035.
- [6] “Breast cancer.” Accessed: Jun. 14, 2023. [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/breast-cancer>
- [7] F. Cmrečak, I. Andrašek, M. Solak-Mekić, M. Ravlić, and L. Beketić-Orešković, “Modern radiotherapy techniques,” *Libri Oncol. Croat. J. Oncol.*, vol. 47, no. 2–3, pp. 91–97, Jan. 2020, doi: 10.20471/LO.2019.47.02-03.17.
- [8] N. Dogan, L. Cuttino, R. Lloyd, E. A. Bump, and D. W. Arthur, “Optimized Dose Coverage of Regional Lymph Nodes in Breast Cancer: The Role of Intensity-Modulated Radiotherapy,” *Int. J. Radiat. Oncol.*, vol. 68, no. 4, pp. 1238–1250, Jul. 2007, doi: 10.1016/j.ijrobp.2007.03.059.
- [9] B. Cho, “Intensity-modulated radiation therapy: a review with a physics perspective,” *Radiat. Oncol. J.*, vol. 36, no. 1, p. 1, 2018.
- [10] S. Bisello *et al.*, “Dose–Volume Constraints fOr oRganS At risk In Radiotherapy (CORSAIR): An ‘All-in-One’ Multicenter–Multidisciplinary Practical Summary,” *Curr. Oncol.*, vol. 29, no. 10, pp. 7021–7050, Sep. 2022, doi: 10.3390/curroncol29100552.
- [11] T. Cao, Z. Dai, Z. Ding, W. Li, and H. Quan, “Analysis of different evaluation indexes for prostate stereotactic body radiation therapy plans: conformity index, homogeneity index and gradient index,” *Precis. Radiat. Oncol.*, vol. 3, no. 3, pp. 72–79, Sep. 2019, doi: 10.1002/pro6.1072.
- [12] D. K. Mynampati, R. Yarpalvi, L. Hong, H.-C. Kuo, and D. Mah, “Application of AAPM TG 119 to volumetric arc therapy (VMAT),” *J. Appl. Clin. Med. Phys.*, vol. 13, no. 5, pp. 108–116, Sep. 2012, doi: 10.1120/jacmp.v13i5.3382.
- [13] G. Nicolini, A. Fogliata, and L. Cozzi, “IMRT with the sliding window: Comparison of the static and dynamic methods. Dosimetric and spectral analysis,” *Radiother. Oncol.*, vol. 75, no. 1, pp. 112–119, Apr. 2005, doi: 10.1016/j.radonc.2005.03.009.



- [14] K. Iqbal, M. Isa, S. A. Buzdar, K. A. Gifford, and Muhammad. Afzal, "Treatment planning evaluation of sliding window and multiple static segments technique in intensity modulated radiotherapy," *Rep. Pract. Oncol. Radiother.*, vol. 18, no. 2, pp. 101–106, Mar. 2013, doi: 10.1016/j.rpor.2012.10.003.
- [15] S. J. Kim, M. J. Lee, and S. M. Youn, "Radiation therapy of synchronous bilateral breast carcinoma (SBBC) using multiple techniques," *Med. Dosim.*, vol. 43, no. 1, pp. 55–68, 2018, doi: 10.1016/j.meddos.2017.08.003.
- [16] G. Nicolini, A. Clivio, A. Fogliata, E. Vanetti, and L. Cozzi, "Simultaneous integrated boost radiotherapy for bilateral breast: a treatment planning and dosimetric comparison for volumetric modulated arc and fixed field intensity modulated therapy," *Radiat. Oncol.*, vol. 4, no. 1, p. 27, Dec. 2009, doi: 10.1186/1748-717X-4-27.
- [17] S. B. Edge and American Joint Committee on Cancer, Eds., *AJCC cancer staging manual*, 7th ed. New York, NY: Springer, 2010.
- [18] S. A. Narod, "Bilateral breast cancers," *Nat. Rev. Clin. Oncol.*, vol. 11, no. 3, pp. 157–166, Mar. 2014, doi: 10.1038/nrclinonc.2014.3.
- [19] M. K. Mejdahl *et al.*, "Synchronous bilateral breast cancer: a nationwide study on histopathology and etiology," *Breast Cancer Res. Treat.*, vol. 182, pp. 229–238, 2020.
- [20] K. R. Indonesia, *Panduan Penatalaksanaan Kanker Payudara. Komite Penanggulangan Kanker Nasional*. 2020.
- [21] Department of Medical Education, Dr. Kiran C. Patel College of Allopathic Medicine, Nova Southeastern University, FL, USA and H. N. Mayrovitz, Eds., *Breast Cancer*. Exon Publications, 2022. doi: 10.36255/exon-publications-breast-cancer.
- [22] E. B. Podgorsak, *Radiation Physics for Medical Physicists*, 3rd ed. 2016. in Graduate Texts in Physics. Cham: Springer International Publishing : Imprint: Springer, 2016. doi: 10.1007/978-3-319-25382-4.
- [23] B. A. Fraass, A. Eisbruch, and M. Feng, "Intensity-modulated and image-guided radiation therapy," in *Clinical Radiation Oncology*, Elsevier, 2016, pp. 294-324. e5.
- [24] L. J. Schreiner, "Dosimetry in modern radiation therapy: limitations and needs," *J. Phys. Conf. Ser.*, vol. 56, pp. 1–13, Dec. 2006, doi: 10.1088/1742-6596/56/1/001.
- [25] T. Du, J. Xiao, Z. Qiu, and K. Wu, "The effectiveness of intensity-modulated radiation therapy versus 2D-RT for the treatment of nasopharyngeal carcinoma: A systematic review and meta-analysis," *PLOS ONE*, vol. 14, no. 7, p. e0219611, Jul. 2019, doi: 10.1371/journal.pone.0219611.
- [26] S. Vatnitsky and E. Rosenblatt, *Transition from 2-D radiotherapy to 3-D conformal and intensity modulated radiotherapy*. Vienna: International Atomic Energy Agency, 2008.
- [27] G. Mancuso, "Evaluation of volumetric modulated arc therapy (VMAT) patient specific quality assurance," Master of Science, Louisiana State University and Agricultural and Mechanical College, 2011. doi: 10.31390/gradschool\_theses.706.



- [28] A. Taylor and M. E. B. Powell, "Intensity-modulated radiotherapy—what is it?," *Cancer Imaging*, vol. 4, no. 2, p. 68, 2004.
- [29] I. C. on R. U. and Measurements, *ICRU Report 83 Prescribing, Recording, and Reporting Photon-beam Intensity-modulated Radiation Therapy (IMRT)-Journal of the ICRU-Vol 10 No 1 2010*. Oxford University Press, 2010.
- [30] D. Craft and T. Halabi, "Sliding Window IMRT and VMAT Optimization," in *Decision Analytics and Optimization in Disease Prevention and Treatment*, 1st ed., N. Kong and S. Zhang, Eds., Wiley, 2018, pp. 307–322. doi: 10.1002/9781118960158.ch14.
- [31] S. Webb, "IMRT Delivery Techniques," in *Image-Guided IMRT*, T. Bortfeld, R. Schmidt-Ullrich, W. De Neve, and D. E. Wazer, Eds., Berlin, Heidelberg: Springer Berlin Heidelberg, 2006, pp. 73–90. doi: 10.1007/3-540-30356-1\_7.
- [32] C. Njeh, H. Salmon, and C. Schiller, "The impact of dose rate on the accuracy of step-and-shoot intensity-modulated radiation therapy quality assurance using varian 2300CD," *J. Med. Phys.*, vol. 42, no. 4, p. 206, 2017, doi: 10.4103/jmp.JMP\_18\_17.
- [33] I. J. Das, N. J. Sanfilippo, A. Fogliata, and L. Cozzi, *Intensity modulated radiation therapy: a clinical overview*. Bristol [England] (Temple Circus, Temple Way, Bristol BS1 6HG, UK): IOP Publishing, 2020.
- [34] T. Bortfeld, "IMRT: a review and preview," *Phys. Med. Biol.*, vol. 51, no. 13, pp. R363–R379, Jul. 2006, doi: 10.1088/0031-9155/51/13/R21.
- [35] J. U. Rehman *et al.*, "Intensity modulated radiation therapy: A review of current practice and future outlooks," *J. Radiat. Res. Appl. Sci.*, vol. 11, no. 4, pp. 361–367, Oct. 2018, doi: 10.1016/j.jrras.2018.07.006.
- [36] K. H. Kim, T. S. Back, E. J. Chung, T. S. Suh, and W. Sung, "Evaluating the Effects of Dose Rate on Dynamic Intensity-Modulated Radiation Therapy Quality Assurance," *Prog. Med. Phys.*, vol. 32, no. 4, pp. 116–121, Dec. 2021, doi: 10.14316/pmp.2021.32.4.116.
- [37] O. V. Gul and G. Inan, "The impacts of dose rate in sliding window intensity modulated radiation therapy quality assurance," *Int-J-Radiat-Res*, vol. 19, no. 3, pp. 625–632, Jul. 2021, doi: 10.52547/ijrr.19.3.625.
- [38] W. Farhiyati, R. Subroto, I. W. A. Makmur, N. Qomariyah, and R. Wirawan, "Treatment Planning System (TPS) Kanker Payudara Menggunakan Teknik 3DCRT," *ORBITA J. Kaji. Inov. Dan Apl. Pendidik. Fis.*, vol. 6, no. 1, pp. 150–154, 2020.
- [39] N. H. Apriantoro and Y. Kartika, "Teknik Radioterapi Kanker Payudara Post Mastektomi dengan Teknik Intensity Modulated Radiation Therapy," *Indones. J. Health Sci.*, vol. 7, no. 1, pp. 22–28, 2023.
- [40] J. C. Stroom and B. J. M. Heijmen, "Limitations of the planning organ at risk volume (PRV) concept," *Int. J. Radiat. Oncol.*, vol. 66, no. 1, pp. 279–286, Sep. 2006, doi: 10.1016/j.ijrobp.2006.05.009.
- [41] B. Emami, "Tolerance of normal tissue to therapeutic radiation," *Rep. Radiother. Oncol.*, vol. 1, no. 1, pp. 123–7, 2013.



- [42] M. Chun *et al.*, “Dosimetric Evaluation of Plans Converted with the DVH-Based Plan Converter,” *Prog. Med. Phys.*, vol. 29, no. 4, p. 157, 2018, doi: 10.14316/pmp.2018.29.4.157.
- [43] Y. Lemoigne and A. Caner, *Radiotherapy and brachytherapy*. in NATO science for peace and security series. Series B, physics and biophysics. Dordrecht: Springer, 2009.
- [44] N. Reynaert, S. van der Marck, and D. Schaart, *Monte Carlo Treatment Planning—An Introduction, Nederlandse Commissie Voor Stralingsdosimetrie*. Report, 2006.
- [45] 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.
- [46] B. Caccia, M. Mattia, and S. Marzi, “IMRT optimization: the possibility to generalize the computational approach,” presented at the IRPA 12: 12 International congress of the International Radiation Protection Association (IRPA): Strengthening radiation protection worldwide, Argentina: SAR, 2008. [Online]. Available: [http://inis.iaea.org/search/search.aspx?orig\\_q=RN:40108750](http://inis.iaea.org/search/search.aspx?orig_q=RN:40108750)
- [47] D. M. Shepard, M. A. Earl, X. A. Li, S. Naqvi, and C. Yu, “Direct aperture optimization: A turnkey solution for step-and-shoot IMRT,” *Med. Phys.*, vol. 29, no. 6, pp. 1007–1018, Jun. 2002, doi: 10.1118/1.1477415.
- [48] A. Hussain and W. Muhammad, “Treatment Planning in Radiation Therapy,” in *An Introduction to Medical Physics*, M. Maqbool, Ed., in Biological and Medical Physics, Biomedical Engineering. , Cham: Springer International Publishing, 2017, pp. 63–129. doi: 10.1007/978-3-319-61540-0\_4.
- [49] V. W. C. Wu, D. L. W. Kwong, and J. S. T. Sham, “Target dose conformity in 3-dimensional conformal radiotherapy and intensity modulated radiotherapy,” *Radiother. Oncol.*, vol. 71, no. 2, pp. 201–206, May 2004, doi: 10.1016/j.radonc.2004.03.004.
- [50] T. Kataria, K. Sharma, V. Subramani, K. Karrthick, and S. Bisht, “Homogeneity Index: An objective tool for assessment of conformal radiation treatments,” *J. Med. Phys.*, vol. 37, no. 4, p. 207, 2012, doi: 10.4103/0971-6203.103606.
- [51] S. Rakici and Y. Cinar, “Dual-isocentric volumetric modulated arc therapy in synchronous bilateral breast cancer irradiation: A dosimetric study,” *J. Radiat. Cancer Res.*, vol. 11, no. 4, p. 188, 2020, doi: 10.4103/jrcr.jrcr\_32\_20.

