

DAFTAR PUSTAKA

- BAPETEN. (2013). Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 3 Tahun 2013 tentang Keselamatan Radiasi Dalam Penggunaan Radioterapi.
- Bentzen., Søren, M., Constine., Louis S., Deasy., Joseph O., Eisbruch., Avi., Jackson., Andrew., Marks., Lawrence B., Ten Haken., Randall K., Yorke., & Ellen, D. (2010). Quantitative Analyses of Normal Tissue Effects in the Clinic (QUANTEC): An Introduction to the Scientific Issues. *International Journal of Radiation Oncology, Biology, Physics*, 76(3), 0360-3016. <https://doi.org/10.1016/j.ijrobp.2009.09.040>
- Beyzadeoglu, M., Ozyigit, G., & Ebruli, C. (2010). *Basic Radiation Oncology*. Springer Berlin Heidelberg. <https://doi.org/10.1007/978-3-642-11666-7>
- Chau, R.M., Teo, P.M., Kam, M., Leung, S.F., Cheung, K.Y., & Chan, A.T. (2007). Dosimetric comparison between 2-dimensional radiation therapy and intensity modulated radiation therapy in treatment of advanced T-stage nasopharyngeal carcinoma: to treat less or more in the planning organ-at-risk volume of the *brainstem* and *spinal cord*. *Medical dosimetry: official journal of the American Association of Medical Dosimetrists*, 32 4, 263-70.
- Dede Handika, A., Tioria Tarigan, S., Dea Karunia, P., Syafi, A., Rahma Fauzia, A., Mar, K., Amalia Pontoh, P., & Ardjo Pawiro, S. (2020). Audit dosimetri *Treatment Planning System* berkas foton pada radioterapi eksternal: A Review. In *ARTIKEL REVIEW Journal of Medical Physics and Biophysics* (Vol. 7, Issue 1).
- Eid, M. A., Mohammed, H.S., Abdelaal, A.M., & Taha, S. (2023). Effect of collimator scatter factors on dose calculation of different breast cancer cases in radiotherapy. *International Journal of Radiation Research*, 21(3), 553-560. <https://doi.org/10.52547/ijrr.21.3.27.2023>
- Elvira, R., Taufiq, I., Adrial, R., & Ilyas, M. (2021). Analisis Perencanaan Radioterapi Pasien Kanker Nasofaring Menggunakan Teknik Intensity Modulated Radiotherapy. *Jurnal Fisika Unand*, 10(3), 337–343. <https://doi.org/10.25077/jfu.10.3.337-343.2021>
- Fathy, M. M., Hassan, B. Z., El-Gebaly, R. H., & Mokhtar, M. H. (2023). Dosimetric evaluation study of IMRT and VMAT techniques for prostate cancer based on different *Multi-leaf Collimator* designs. *Radiation and Environmental Biophysics*, 62(1), 97–106. <https://doi.org/10.1007/s00411-022-01011-2>
- Febrietri, O., Milvita, D., & Diyona, F. (2020). Analisis Dosis Radiasi Paru-Paru Pasien Kanker Payudara dengan Teknik Three Dimensional Conformal Radiation Therapy (3D-CRT) Berdasarkan Grafik Dose Volume Histogram (DVH). *Jurnal Fisika Unand*, 9(1), 110–117. <https://doi.org/10.25077/jfu.9.1.110-117.2020>
- Ferlay J, Ervik M, Lam F, Laversanne M, Colombet M, Mery L, Piñeros M, Znaor A, Soerjomataram I, Bray F (2024). *Global Cancer Observatory: Cancer Today*. Lyon, France: International Agency for Research on Cancer. Available from: <https://gco.iarc.who.int/today>, accessed [09 January 2025].

- Fodil, N. E. S., Abdelhakem, M. M., Yahia, G. A., & Ammar, H. (2024). Evaluation of Dynamic *Multi-leaf Collimator* (MLC) versus Fixed MLC for Intensity Modulated Radiotherapy (IMRT) Using the Agility 160-Leaf Collimator. *Asian Pacific Journal of Cancer Prevention*, 25(7), 2467–2474. <https://doi.org/10.31557/APJCP.2024.25.7.2467>
- Huki, Pascalia & Sutapa, Gusti & Sudarsana, I. (2023). Pengaruh Multi Leaf Collimator (MLC) Terhadap Besar Dosis Yang Diterima Bagian Kepala Pasien Kanker Otak. *Kappa Journal*. 7. 63-70. 10.29408/kpj.v7i1.6633.
- Hunt, M. A., Zelefsky, M. J., Wolden, S., Chui, C. S., LoSasso, T., Rosenzweig, K., Chong, L., Spirou, S. V., Fromme, L., Lumley, M., Amols, H. A., Ling, C. C., & Leibel, S. A. (2001). Treatment planning and delivery of intensity-modulated radiation therapy for primary nasopharynx cancer. *International journal of radiation oncology, biology, physics*, 49(3), 623–632. [https://doi.org/10.1016/s0360-3016\(00\)01389-4](https://doi.org/10.1016/s0360-3016(00)01389-4)
- Lai, S. Z., Li, W. F., Chen, L., Luo, W., Chen, Y. Y., Liu, L. Z., Sun, Y., Lin, A. H., Liu, M. Z., & Ma, J. (2011). How does intensity-modulated radiotherapy versus conventional two-dimensional radiotherapy influence the treatment results in nasopharyngeal carcinoma patients?. *International journal of radiation oncology, biology, physics*, 80(3), 661–668. <https://doi.org/10.1016/j.ijrobp.2010.03.024>
- Lee, A. W., Ng, W. T., Pan, J. J., Chiang, C. L., Poh, S. S., Choi, H. C., Ahn, Y. C., AlHussain, H., Corry, J., Grau, C., Grégoire, V., Harrington, K. J., Hu, C. S., Kwong, D. L., Langendijk, J. A., Le, Q. T., Lee, N. Y., Lin, J. C., Lu, T. X., Mendenhall, W. M., ... Wee, J. T. (2019). International Guideline on Dose Prioritization and Acceptance Criteria in Radiation Therapy Planning for Nasopharyngeal Carcinoma. *International journal of radiation oncology, biology, physics*, 105(3), 567–580. <https://doi.org/10.1016/j.ijrobp.2019.06.2540>
- Mahani, L., Kazemzadeh, A., Saeb, M., Kianinia, M., & Akhavan, A. (2023). The Efficacy of *Multi-leaf Collimator* in the Reduction of Cardiac and Coronary Artery Dose in Left-Sided Breast Cancer Radiotherapy. *Advanced biomedical research*, 12, 89. https://doi.org/10.4103/abr.abr_342_21
- Nova Wijaya, C., & Muharini, A. (2023). Pengaruh ketebalan MLC (*Multi-leaf Collimator*) terhadap distribusi dosis target dan OAR (*Organ at Risk*) dengan teknik IMRT (Intensity Modulated Radiation Therapy) pada kasus nasofaring. In *RADIATION THERAPY Journal of Medical Physics and Biophysics* (Vol. 10, Issue 1).
- Pramesti, W. S., Yuana, F., Herwiningsih, S., Hentihu, F. K., & Anto, A. K. (2023). Analisis dosis sebaran *Organ at Risk* (OAR) pada perencanaan radioterapi kanker payudara kiri dengan teknik 3D-CRT melalui dose volume histogram (DVH). In *RADIATION THERAPY Journal of Medical Physics and Biophysics* (Vol. 10, Issue 1).
- Puspitasari, R. A., Pertiwi, W. I., Maratus Sholihah, P., Fariqoh, W. H., Kavilani, N., Dyah, S., Radioterapi, I., Sakit, R., Laut, A., & Ramelan, S. (2020). Analisis

- Kualitas Berkas Radiasi LINAC Untuk Efektivitas Radioterapi. In *Jurnal Biosains Pascasarjana* (Vol. 22, Issue 1).
- Putu, N., Ganapati, D., Sukarno, V., & Deantri, F. (n.d.). *ACUTE SIDE EFFECTS AND QUALITY OF LIFE IN HEAD AND NECK CANCER PATIENTS WHO UNDERWENT RADIOTHERAPY IN BALI, INDONESIA*. <https://doi.org/10.24843.MU.2024.V13.i02.P14>
- Risky Fadila, M., Subroto, R., Makmur, W. A., Wirawan, R., & Kurniawidi, D. W. (n.d.). *Analisis Nilai CI dan HI Planning Target Volume (PTV) pada Perencanaan Radioterapi Teknik IMRT untuk Treatment Kanker Nasofaring*.
- Syafna, D., Adrial, R., & Diyona, F. (2024). Perbandingan Dosimetri Perencanaan Radioterapi IMRT Menggunakan Fasilitas Beam Angle Optimization dan Teknik Manual Pada Kasus Kanker Nasofaring Stadium III. *Jurnal Fisika Unand*, 13(1), 170–176. <https://doi.org/10.25077/jfu.13.1.170-176.2024>
- The International Commission on Radiation Units and Measurements, "ICRU Report 62, Prescribing, Recording and Reporting Photon Beam Therapy (Supplement to ICRU Reports 50)," 1999.
- The International Commission on Radiation Units and Measurements, "ICRU Report 83, Prescribing, Recording and Reporting Photon Beam Intensity Modulated Radiation Therapy (IMRT)," 2010.
- Waldron, J., Tin, M. M., Keller, A., Lum, C., Japp, B., Sellmann, S., van Prooijen, M., Gitterman, L., Blend, R., Payne, D., Liu, F. F., Warde, P., Cummings, B., Pintilie, M., & O'Sullivan, B. (2003). Limitation of conventional two dimensional radiation therapy planning in nasopharyngeal carcinoma. *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*, 68(2), 153–161. [https://doi.org/10.1016/s0167-8140\(02\)00370-5](https://doi.org/10.1016/s0167-8140(02)00370-5)