

DAFTAR PUSTAKA

- Astuti, S. Y., Sutanto, H., Hidayanto, E., Jaya, G. W., Supratman, A. S., & Saraswati, G. P., 2018, Characteristics of Bolus Using *Silicone rubber* with Silica Composites for Electron Beam Radiotherapy., *Journal of Physics and Its Applications*, Vol. 1, No. 1.
- Beyzadeoglu, M., Ozyigit, G., dan Ebruli, C., 2010, Basic radiation oncology, In *Basic Radiation Oncology*.
- Braun, U., Lorenz, E., Weimann, C., Sturm, H., Karimov, I., Ettl, J., Meier, R., Wohlgemuth, W. A., Berger, H., dan Wildgruber, M., 2016, Mechanic and surface properties of central-venous port catheters after removal: A comparison of polyurethane and silicon rubber materials, *Journal of the Mechanical Behavior of Biomedical Materials*, Vol. 64.
- Chang, F., Chang, P., Benson, K., dan Share, F., 1992, Study of elasto-gel pads used as surface bolus material in high energy photon and electron therapy, *International Journal of Radiation Oncology, Biology, Physics*, Vol. 22, No.1.
- Chantika, L., Hanif, V. F., Defira, E., Oktamuliani, S. O., Muttaqin, A., dan Ilyas, M., 2022, Comparison of Absorbed Dose in Plasticine Bolus and *Silicone rubber* Bolus, *Journal of Physics: Theories and Applications*, Vol. 6, No. 1.
- Endarko, E., Aisyah, S., Carina, C. C. C., Nazara, T., Sekartaji, G., dan Nainggolan, A., 2021, Evaluation of dosimetric properties of handmade bolus for megavoltage electron and photon radiation therapy, *Journal of Biomedical Physics and Engineering*, Vol. 11, No. 6.
- Hasanah, H., Qomariyah, N., Makmur, I. W. A., Subroto, R., dan Wirawan, R., 2020, Analisa Kurva PDD Dan Profile Dose Berkas Elektron Pesawat LINAC Varian Clinac CX, *Indonesian Physical Review*, Vol. 3, No. 2.
- International Commission on Radiation Units and Measurements (ICRU), 1988, ICRU Report 44 - Tissue Substitutes in Radiation Dosimetry and Measurement, *Journal of the ICRU*.
- Jaya, G. W., Sutanto, H., Hidayanto, E., dan Saraswati, G. P., 2020, Studi Penggunaan Bolus Berbahan *Silicone rubber* terhadap Dosis Permukaan pada Radioterapi Berkas Elektron, *Progressive Physics Journal*, Vol. 1, No. 1.
- Junaedi, D., Setiawati, E., Arifin, Z., dan Ramantisa, S., 2016, Analisis Penggunaan Polydimethyl Siloxane sebagai Bolus dalam Radioterapi Menggunakan Elektron 8 Mev pada LINAC, *Youngster Physics Journal*, Vol. 5, No. 4.
- Khan, F. M., & Gibbons, J. P., 2014, Khan's the physics of radiation therapy, *Khan's: The Physics of Radiation Therapy*.
- Li, P., Jiang, S., Yu, Y., Yang, J., dan Yang, Z., 2015, Biomaterial characteristics and application of *silicone rubber* and PVA hydrogels mimicked in organ

- groups for prostate brachytherapy, *Journal of the Mechanical Behavior of Biomedical Materials*, Vol. 49.
- Lothfy, F. A., Mustafa, I. S., Yahya, Z. S., Ishak, S. A., dan Daud, N. M., 2015, To study the durian seed as a new substrate for bolus in radiotherapy, *Proceedings of Sixteenth The IIER International Conference, Kuala Lumpur, Malaysia*, hal. 110–113.
- Malaescu, I., Marin, C. N., dan Spunei, M., 2015, Comparative Study on the Surface Dose of Some Bolus Materials, *International Journal of Medical Physics, Clinical Engineering and Radiation Oncology*, Vol. 4, No. 4.
- Montaseri, A., Alinaghizadeh, M., dan Mahdavi, S. R., 2012, Physical properties of ethyl methacrylate as a bolus in radiotherapy, *Iranian Journal of Medical Physics*, Vol. 9, No. 2 A.
- Nazara, T., 2020, *Analisa Karakterisasi Bolus Berbahan Silicone rubber, Play-Doh dan Lilin Malam untuk Terapi Radiasi Menggunakan Energi Elektron*, Institut Teknologi Sepuluh Nopember.
- Park, J. W., dan Yea, J. W., 2016, Three-dimensional customized bolus for intensity-modulated radiotherapy in a patient with Kimura's disease involving the auricle, *Cancer/Radiotherapie*, Vol. 20, No. 3.
- Podgorsak, E. B., 2005, *Radiation oncology physics: A Handbook for Teachers and Students*. IAEA.
- Purba, M. H., 2018, *Konsistensi Nilai Dosis Serap Bolus Plastisin dengan Energi 9 MeV di Rumah Sakit Pusat Pertamina*.
- Sakai, Y., Tanooka, M., Okada, W., Sano, K., Nakamura, K., Shibata, M., Ueda, Y., Mizuno, H., dan Tanaka, M., 2021, Characteristics of a bolus created using thermoplastic sheets for postmastectomy radiation therapy, *Radiological Physics and Technology*, Vol. 14, No. 2, hal. 179–185.
- Saw, C. B., Loper, A., Komanduri, K., Combine, T., Huq, S., dan Scicutella, C., 2005, Determination of CT-to-density conversion relationship for image-based treatment planning systems, *Medical Dosimetry*, Vol. 30, No. 3.
- Seppälä, T., Collan, J., Auterinen, I., Serén, T., Salli, E., Kotiluoto, P., Kortensniemi, M., Van Leemput, K., Kankaanranta, L., Joensuu, H., dan Savolainen, S., 2004, A dosimetric study on the use of bolus materials for treatment of superficial tumors with BNCT, *Applied Radiation and Isotopes*, Vol. 61, 5, hal. 787–791.
- Solihin, A., Nainggolan, J. M., dan Despa, D., 2016, Karakteristik Peluahan Sebagian (Partial Discharge) Pada Isolasi Karet Silikon (*Silicone rubber*) Menggunakan Sensor Emisi Akustik, *Jurnal Informatika Dan Teknik Elektro Terapan*, Vol. 4, No. 2.
- Sutanto, H., Eko, H., Gede Wiratma, J., Santi Yuli, A., dan Astri Suppa, S., 2018,

Bolus Berbahan Silicone dan Natural Rubber, *Smart Medical Research Center, Universitas Diponegoro*.

Sutanto, H., Marhaendrajaya, I., Jaya, G. W., Hidayanto, E., Supratman, A. S., Astuti, S. Y., Budiono, T., dan Firmansyah, M. A., 2019, The Properties of Bolus Material using *Silicone rubber*, *IOP Conference Series: Materials Science and Engineering*, Vol. 622, No. 1.

Thomas, S. J., 1999, Relative electron density calibration of CT scanners for radiotherapy treatment planning, *British Journal of Radiology*, Vol. 72, Issue. AUG.

Visscher, S., dan Barnett, E., 2017, Comparison of Bolus Materials to Highly Absorbent Polypropylene and Rayon Cloth, *Journal of Medical Imaging and Radiation Sciences*, Vol. 48, No.1.

Wulandari, C., Wibowo, W. E., dan Pawiro, S. A., 2016, Penentuan Faktor Keluaran Berkas Elektron Lapangan Kecil Pada Pesawat Linear Accelerator, *Spektra: Jurnal Fisika Dan Aplikasinya*, Vol. 1, No. 1, Hal. 23–28.

Yuniarti, N., dan Afandi, A. N., 2007, Tinjauan Sifat Hidrofobik Bahan Isolasi *Silicone rubber*, *Tekno*.

Zhou, Y., Liu, R., Hou, F., Zhang, X., dan Xue, W., 2013, Morphology of electrical trees in silicon rubber, *Journal of Electrostatics*, Vol. 71, No. 3.

