DAFTAR PUSTAKA

Bagaswoto, Sardjono, Y., Prasetyono, A. P., & Bangun, A. A. (2018). *Prospek Carbon Ion Nuclear Radiation Therapy di Indonesia :Aspek Medis.* Yogyakarta: Lintang Pustaka Utama.

Bassler, N., Luhr, A., Hansen, D. C., & Sobolevsky, N. (2018). *SHIELD-HIT12A - User's Guide.*

Borkar, S., Lakshmiprasad, G., Subbarao, K., Sharma, M., & Mahapatra, A. (2013). Giant Cell Glioblastoma in Pediatric Age Group: Report of Two Cases. *Journal of Pediatric Neurosciences, 8*(1), 38-40.

Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R. L., Torre, L. A., & Jemal, A. (2018). Global Cancer Statistics 2018: GLOBOCAN Estimate of Incidence and Mortality Worldwide for 36 Cancer in 185 Countries. *A Cancer Journal for Clinical, 68*, 394-424.

Burigo, L., Pshenichnov, I., Mishustin, I., & Bleicher, m. (2014). Microdosimetry Spectra and RBE of 1H 4He 7Li and 12C Nuclei in Water Studied with Geant4. *Nuclear Instruments and Methods in Physics Research B*, 89-99.

Burigo, L., Pshenichnov, I., Mishustin, I., & Bleicher, M. (2015). Comparative Study of Dose Distributions and Cell Survival Fractions for 1H, 4He, 12C and 16O Beams using Geant4 and Micodosimetric Kinetic Model. *Physics in Medicine & Biology, 60*, 3313-3331.

Castro, J. R., Char, D. H., Petti, P. L., Daftari, I. K., Quivey, J. M., Singh, R. P., . . . Phillips, T. L. (1997). 15 Years Experience with Helium Ion Radiotherapy for Uveal Melanoma. *International Journal Radiation Oncology Biology Physics, 39*(5), 989-996.

Cember, H., & Johnson, T. E. (2009). *Introduction to Health Physics.* Mc Graw Hill.

Chen, Y., Li, J., Li, C., Qiu, R., & Wu, Z. (2018). A Modified Microdosimetric Kinetic Model for Relative Biological Effectiveness. *Physics in Medicine & Biology, 63*.

Chudler, E. H. (n.d.). *Brain Facts and Figures*. (University of Washington) Retrieved May 20, 2019, from https://faculty.washington.edu/chudler/facts.html

Durante, M., & Paganetti, H. (2016). *Nuclear Physics in Particle Therapy: A Review.* UK: IOP Publishing.

Emami, B., Lyman, J., Brown, A., Coia, L., Goitein, M., Menzenrider, J. E., . . . Wesson, M. (1991). Tolerance of Normal Tissue to Therapeutic Irradiation. *International Journal radiation Oncology in Biology & Physics, 21*(1), 109-122.

Gallas, R. R., Arico, G., Burigo, L. N., Gehrke, T., Jakubek, J., Granja, C., . . . Matisikova, M. (2017). A Novel Method for Assessment of Fragmentation and Beam-Material Interactions in Helium Ion Radiotherapy with Miniaturized Setup. *Physica Medica, 42*, 116 - 126.

Golla, H., Ahmad, M. A., Galushko, M., Hampl, J., Maarouf, M., Schroeter, M., . . . Voltz, R. (2014). Glioblastoma Multifome from Diagnosis to Death: a Prospective, Hospital-Based, Pilot Feasibility Study of Patient Reported Symtoms and Needs. In *Support Care Cancer* (Vol. 22, pp. 3341-3352). Springer.

Hanif, F., Muzaffar, K., Perveen, K., Malhi, S. M., & Simjee, S. U. (2017). Glioblastoma Multiforme: A Review of its Epidemiology and Pathogenesis through Clinical Presentation and Tratment. *Asian Pasific Journal , I*(18), 3 - 9.

International Comission on Radiation Unit and Measurements. (1989). *ICRU Report 44-Tissue Substitutes in Radiation Dosimetry and Measurement.* Maryland: ICRU.

International Comission on Radiation Unit and Measurements. (1992). *ICRU Report 46-Photon, Electron, Proton, Neutron Interaction Data for Body Tissues.* Maryland: ICRU.

Jermann, M. (2015). Particle Therapy Statistics in 2014. *International Journal of Particle Therapy, 2*(1), 50-54.

Kantemiri, I., Karaiskos, P., Papagiannis, P., & Angelopoulos, A. (2011). Dose and Dose Averaged LET Comparison of 1H, 4He, 6Li, 8Be, 10B, 12C and 16O Ion Beams Forming A Spread-Out Bragg Peak. *Medical Physics, 38*(12), 6585-6591.

Kesehatan, Kementrian Kesehatan Penelitian dan Pengembangan. (2018). *Hasil Utama RISKESDAS 2018.* Kementrian Kesehatan Republik Indonesia.

Kramer, M., Scifoni, E., Schmitz, F., & Durante, M. (2014). *Helium Ion Beam Modelling.* APPA HEALTH.

Kramer, M., Scifoni, E., Schuy, C., Ravituso, M., Tinganelli, W., Maier, A., . . . Durante, M. (2016). Helium Ion for Radiotherapy?Physical and Biological Verifications of A Novel Treatment Modality. *Medical Physics, 43*(4), 1995 - 2004.

Mairani, A., Dokic, I., Magro, G., Tessonnier, T., Kamp, F., Carlson, D. J., . . . Haberer, T. (2016). Biologically Optimized Helium Ion Plans: Calculation Approach and Its in Vitro Validation. *Physics in Medicine & Biology, 61*, 4283-4299.

Mairani, A., Magro, G., Dokic, I., Valle, S. M., Tessonnier, T., Galm, R., . . . Bohlen, T. T. (2016). Data-driven RBE Parameterization for Helium Ion Beams. *Physics in Medicine & Biology, 61*, 888 - 905.

Marafini, M., Paramatti, R., Pinci, D., Battistoni, G., Collamati, F., Lucia, E. D., . . . Camillocci, E. S. (2107). Secondary Radiation Measurements for Particle Therapy Applications: Nuclear Fragmentation Produced by 4He Ion Beams in PMMA Target. *Physics in Medicine & Biology, 62*, 1291 - 1309.

Martisikova, M., Gehrke, T., Berke, S., Arico, G., & Jakel, O. (2018). Helium Ion Beam Imaging for Image Guided Radiotherapy. *Radiation Oncology, 13*(109).

Mattei, I., Battistoni, G., Simoni, M. D., Dong, Y., Embriaco, A., Fishetti, M., . . . Patera, V. (2018). Charged Particle and Neutron Trackers: Applications to Particle Therapy. *Nuclear Instrument and Methods in Physics Research*.

Maughan, R. L., Chuba, P. J., Porter, A. T., Ben-Josef, E., & Lucas, D. R. (1997). The Elemental Composition of Tumors: Kerma Data for Neutron. *Medical Physics, 24*, 1241-1244.

Mein, S., Choi, K., Kopp, B., Tessonnier, T., Bauer, J., Ferrari, A., . . . Mairani, A. (2018). Fast Robust Dose Calculation on GPU for High Precision 1H 4He 12C and 16O Ion Therapy: The FRoG Platform. *Scientific Reports, 8*.

Mosthaf, J., Peters, A., Haberer, T., Hoppner, K., & Hanke, S. (2017). Status Update for The HIT Accelerator. *International Conference on Accelerator and Large Experimental Control System.* Barcelona.

Mukawa, T., Matsumoto, T., & Niita, K. (2011). Study on Microdosimetry for Boron Neutron Capture Therapy. *Progress in Nuclear Science and Technology, 2*, 242-246.

OpenStax College. (n.d.). (Rice University) Retrieved Juli 17, 2019, from https://courses.lumenlearning.com

Park, S. H. (2011). Basif of Particle Therapy I:Physics. *Radiation Oncology Journal, 29*(3), 135-146.

Parker, W., & Patrocinio, H. (2005). Clinical Treatment Planning in External Photon Beam Radiotherapy. In *Radiation Oncology Physics: A Handbook for Teachers and Students* (pp. 257-272). Vienna: International Atomic Energy Agency.

Podgorsak, E. B. (2010). *Radiation Physics for Medical Physicists.* Berlin: Springer.

Qi, W.-X., Shen, F., Qing, Z., & Mao, G. X. (2015). Charged Particle Therapy versus Photon Therapy for Patients with Hepatocellular Carcinoma: A Systematic Review and Meta Analysis. *Radiotherapy and Oncology , 114*, 289-295.

Rovituso, M., Schuy, C., Weber, U., Brons, S., Giraldo, M. A., Tessa, C. L., . . . Durante, M. (2017). Fragmentation of 120 and 200 MeV u-1 4He Ions in Water and PMMA Targets. *Physics in Medicine & Biology, 62*, 1310-1326.

Saunders, W., Castro, J., Chen, G. T., Collier, J., Zink, S. R., Pitluck, S., . . . Alpen, E. L. (1985). Helium-Ion Radiation Therapy at the Lawrence Berkeley Laboratory: Recent Results of a Northern California Oncology Group Clinical Trial. *Radiation Research, 104*(2), S227-S234.

Saunders, W., Char, D. H., Quivey, J. M., Castro, J., Chen, G., Collier, J., . . . Tobias, C. (1985). Precision, High Dose Radiotherapy: Helium Ion Treatment of Uveal Melanoma. *International Journal Radiation Oncology Biology Physics, 11*, 227-233.

SEER Training National Institute of Health National Cancer Institute US Department of Health and Human. (n.d.). *SEER Training Modules.* Retrieved Mei 20, 2019, from https://training.seer.cancer.gov/disease/categories/classification.html

Siwi, D. B. (2013). Analisis Dosis di Organ Kritis pada Terapi Glioblastoma dengan Boron Neutron Capture Therapy menggunakan Metode Simulasi MCNP5.

Tessonnier, T., Mairani, A., Brons, S., Haberer, T., Debus, J., & Parodi, K. (2017). Experimental Dosimetric Comparison of 1H 4He 12C and 16O Scanned Ion Beams. *Physics in Medicine & Biology, 62*, 3958-3982.

Tessonnier, T., Mairani, A., Chen, W., Sala, P., Cerutti, D., Ferrari, A., & Haberer, T. (2018). Proton and Helium Ion Radiotherapy for Meningioma Tumors: A Monte Carlo-based Treatment Planning Comparison. *Radiation Oncology, 13*(2).

Tommasino, F., Scifoni, E., & Durante, M. (2016). New Ions for Therapy. *International Journal of Particle Therapy*, 428-438.

Urbanska, K., Sokolowska, J., Szmidt, M., & Sysa, P. (2014). Glioblastoma Multiforma - An Overview. *Contemporary Oncology, V*(18), 207-312.

Ward, W., Aceto, H., Jolly, R., & D, B. (1976). RBE and OER of Extended-Bragg-Peak Helium Ions: Survival and Development of Rat Embryos. *International Journal Radiation Biology, 30*, 317-326.