

## DAFTAR PUSTAKA

- Åkeson, P., Jonsson, E., Haugen, I. and Holtås, S. (1995). Contrast-enhanced MRI of the central nervous system: Comparison between gadodiamide injection and gadolinium-DTPA. *Neuroradiology*, 37(3): 229–233.
- Al-Okaili, R. N., Krejza, J., Wang, S., Woo, J. H. and Melhem, E. R. (2006). Advanced MR Imaging Techniques in the Diagnosis of Intraaxial Brain Tumors in Adults. *Radiographics*, 26(Suppl 1): 173–189.
- Al-Okaili, R. N., Krejza, J., Woo, J. H., Wolf, R. L., O'Rourke, D. M., et al. (2007) Intraaxial Brain Masses: MR Imaging–based Diagnostic Strategy—Initial Experience, *Radiology*, 243(2): 539–550.
- Baig, M. A., Klein, J. P. and Mechtler, L. L. (2016). Imaging of Brain Tumors. *Neuroimaging*, 22(5): 1529–1552.
- Balériaux, D., Matos, C. and De Greef, D. (1993). Gadodiamide injection as a contrast medium for MRI of the central nervous system: a comparison with gadolinium-DOTA. *Neuroradiology*, 35(7): 490–494.
- Barker, P. B., Bizzi, A., De Stefano, N., Gullapalli, R. and Lin, D. D. M. (2009). *Clinical MR Spectroscopy Techniques and Applications*. Cambridge: Cambridge University Press.
- Barnholtz-sloan, J. S., Ostrom, Q. T. and Cote, D. (2018). Epidemiology of Brain Tumors. *Neurologic Clinics*, 36(3): 395–419.
- Bertholdo, D., Watcharakorn, A. and Castillo, M. (2013). Brain Proton Magnetic Resonance Spectroscopy: Introduction and Overview. *Neuroimaging Clinics of North America*, 23(3): 359–380.
- Blüml, S. (2013). Magnetic Resonance Spectroscopy: Basics. in Blüml, S. and Panigrahy, A. (eds). *MR Spectroscopy of Pediatric Brain Disorders*. New York: Springer. 11–24.
- Bosma, I., Vos, M. J., Heimans, J. J., Taphoorn, M. J. B., Aaronson, N. K., Postma, T. J., et al. (2007). The course of neurocognitive functioning in high-grade glioma patients. *Neuro-Oncology*, 9(1): 53–62.
- Brandão, L. A. and Castillo, M. (2016). Adult Brain Tumors Clinical Applications of Magnetic Resonance Spectroscopy. *Magnetic Resonance Imaging Clinics of North America*. Elsevier Inc, 24(4): 781–809.
- Brandão, L. A., Shiroishi, M. S. and Law, M. (2013). Brain Tumors A Multimodality Approach with Diffusion-Weighted Imaging, Diffusion Tensor Imaging, Magnetic Resonance Spectroscopy, Dynamic Susceptibility Contrast and Dynamic Contrast-Enhanced Magnetic Resonance Imaging. *Magnetic Resonance Imaging Clinics of North America*, 21(2): 199–239.

- Brem, S. S., Bierman, P. J., Brem, H., Butowski, N., Chamberlain, M. C., Chiocca, E. A., et al. (2011). Central Nervous System Cancers Clinical Practice Guidelines in Oncology. *Journal of the National Comprehensive Cancer Network*, 9(4): 352–400.
- Bulakbasi, N., Kocaoglu, M., Örs, F., Tayfun, C. and Üçöz, T. (2003). Combination of Single-Voxel Proton MR Spectroscopy and Apparent Diffusion Coefficient Calculation in the Evaluation of Common Brain Tumors. *American Journal of Neuroradiology*, 24(2): 225–233.
- Callot, V., Galanaud, D., Le Fur, Y., Confort-gouny, S., Ranjeva, J. and Cozzone, P. J. (2008). <sup>1</sup>H MR spectroscopy of human brain tumours: a practical approach. *European Journal of Radiology*, 67(2): 268–274.
- Chiang, I. C., Kuo, Y.-T., Lu, C., Yeung, K.-W., Lin, W., Sheu, F.-O. and Liu, G.-C. (2004). Distinction between high-grade gliomas and solitary metastases using peritumoral 3-T magnetic resonance spectroscopy, diffusion, and perfusion imagings. *Neuroradiology*, 46(8): 619–627.
- Czeyda-pommersheim, F., Martin, D. R., Costello, J. R. and Kalb, B. (2017). Contrast Agents for MR Imaging. *Magnetic Resonance Imaging Clinics of North America*, 25(4): 705–711.
- Dahlan, M. S. (2009). Menentukan Besar Sampel. in *Besar Sampel dan Cara Pengambilan Sampel dalam Penelitian Kedokteran dan Kesehatan*. 2nd edn. Jakarta: Salemba Medika, 18–19.
- Danielsen, E. R. and Ross, B. (1999). *Magnetic Resonance Spectroscopy Diagnosis of Neurological Diseases*. New York: M. Dekker.
- DeAngelis, L. M. (2001). Brain Tumors. *The New England Journal of Medicine*, 344(2): 114–123.
- Dho, Y., Jung, K., Ha, J., Seo, Y., Park, C., Won, Y. and Yoo, H. (2017). An Updated Nationwide Epidemiology of Primary Brain Tumors in Republic of Korea, 2013. *Brain Tumor Research and Treatment*, 5(1): 16–23.
- Ekholm, S., Jonsson, E., Sandvik, L., Fagerlund, M., Holtås, S., Isberg, B., et al. (1996). Tolerance and Efficacy of Omniscan (Gadodiamide Injection) in MR Imaging of the Central Nervous System. *Acta Radiologica*, 37: 223–228.
- Ferlay, J., Soerjomataram, I., Dikshit, R., Eser, S., Mathers, C., Rebelo, M., et al. (2015). Cancer incidence and mortality worldwide: Sources, methods and major patterns in GLOBOCAN 2012. *International Journal of Cancer*, 136: 359–386.
- Gao, H. and Jiang, X. (2013). Progress on the diagnosis and evaluation of brain tumors. *Cancer Imaging*, 13(4): 466–481.
- Gillard, J. H., Waldman, A. D. and Barker, P. B. (2004). *Clinical MR Neuroimaging: Diffusion, Perfusion and Spectroscopy*. Cambridge University Press.

- Gonzales, M. (2011). Classification and pathogenesis of brain tumors. in Kaye, A. H. and Laws, E. R. (eds). *Brain Tumors*. Third Edit. Elsevier Ltd, 36–58.
- Guglielmo, F. F., Mitchell, D. G. and Gupta, S. (2014). Gadolinium Contrast Agent Selection and Optimal Use for Body Magnetic Resonance Imaging. *Radiologic Clinics of North America*, 52(4): 637–656.
- Gujar, S. K., Maheshwari, S., Björkman-Burtscher, I. and Sundgren, P. C. (2005). Magnetic Resonance Spectroscopy. *Journal of Neuro-Ophthalmology*, 25(3): 217–226.
- Hamed, S. A. I. and Ayad, C. E. (2017). Grading of Brain Tumors using MR Spectroscopy: Diagnostic value at Short and Long TE, *International Organization Of Scientific Research - Journal of Dental and Medical Sciences*, 16(10): 87–93.
- Hao, D., Ai, T., Goerner, F., Hu, X., Runge, V. M. and Tweedle, M. (2012). MRI Contrast Agents: Basic Chemistry and Safety. *Journal of Magnetic Resonance Imaging*, 36(5): 1060–1071.
- Heiss, W., Raab, P. and Lanfermann, H. (2011). Multimodality Assessment of Brain Tumors and Tumor Recurrence. *Journal of Nuclear Medicine*, 52(10): 1585–1600.
- Hollingworth, W., Medina, L. S., Lenkinski, R. E., Shibata, D. K., Bernal, B., Zurakowski, D., et al. (2006). A Systematic Literature Review of Magnetic Resonance Spectroscopy for the Characterization of Brain Tumors. *American Journal of Neuroradiology*, 27(7): 1404–1411.
- Horská, A. and Barker, P. B. (2010). Imaging of Brain Tumors: MR Spectroscopy and Metabolic Imaging. *Neuroimaging Clinics of North America*, 20(3): 293–310.
- Howe, F. A. and Opstad, K. S. (2003). <sup>1</sup>H MR spectroscopy of brain tumours and masses, *Nuclear Medicine & Radiology in Biomedicine*, 16(3): 123–131.
- Jansen, J. F. A., Backes, W. H., Nicolay, K. and Kooi, M. E. (2006). <sup>1</sup>H MR Spectroscopy of the Brain: Absolute Quantification of Metabolite. *Radiology*, 240(2): 318–332.
- Kanal, E., Maravilla, K. and Rowley, H. A. (2014). Gadolinium Contrast Agents for CNS Imaging: Current Concepts and Clinical Evidence. *American Journal of Neuroradiology*, 35(12): 2215–2226.
- Kaneko, S., Nomura, K., Yoshimura, T. and Yamaguchi, N. (2002). Trend of brain tumor incidence by histological subtypes in Japan: estimation from the Brain Tumor Registry of Japan, 1973 – 1993. *Journal of Neuro-Oncology*, 60(1): 61–69.
- Kaye, A. H. (2005). Brain tumours. in *Essential Neurosurgery*. 3rd ed. Massachusetts: Blackwell Publishing Ltd, 64–92.

- Kesari, S. (2011). Understanding Glioblastoma Tumor Biology: The Potential to Improve Current Diagnosis and Treatments. *Seminars in Oncology*, 38(Suppl 4): S2–S10.
- Kheirollahi, M., Dashti, S., Khalaj, Z., Nazemroaia, F. and Mahzouni, P. (2015). Brain tumors: Special characters for research and banking. *Advanced Biomedical Research*, 4(4): 1–9.
- Kim, B. and Gutierrez, J. E. (2012). Contrast-Enhanced MR Imaging in Neuroimaging. *Magnetic Resonance Imaging Clinics of North America*, 20(4): 649–685.
- Kimura, M. and da Cruz, L. C. H. (2016). Multiparametric MR Imaging in the Assessment of Brain Tumors. *Magnetic Resonance Imaging Clinics of North America*, 24: 87–122.
- Kondziolka, D., Lunsford, L. D. and Martinez, A. J. (1993). Unreliability of contemporary neurodiagnostic imaging in evaluating suspected adult supratentorial (low-grade) astrocytoma. *Journal of Neurosurgery*, 79(4): 533–536.
- Lequin, M. and Hendrikse, J. (2017). Advanced MR Imaging in Pediatric Brain Tumors, Clinical Applications. *Neuroimaging Clinics of North America*, 27(1): 167–190.
- Lima, E. C., Otaduy, M. C. G., Tsunemi, M., Pincerato, R., Cardoso, E. F., Rosemberg, S., et al. (2013). The Effect of Paramagnetic Contrast in Choline Peak in Patients with Glioblastoma Multiforme Might Not Be Significant. *American Journal of Neuroradiology*, 34(1): 80–84.
- Linos, E., Raine, T., Alonso, A. and Michaud, D. (2007). Atopy and Risk of Brain Tumors: A Meta-analysis. *Journal of the National Cancer Institute*, 99(20): 1544–1550.
- Louis, D. N., Perry, A., Reifenberger, G., Deimling, A. Von, Figarella, D., Webster, B., et al. (2016). The 2016 World Health Organization Classification of Tumors of the Central Nervous System: a summary. *Acta Neuropathologica*, 131(6): 803–820.
- Lundby, B., Gordon, P. and Frank, H. (1996). MRI in children given gadodiamide injection: safety and efficacy in CNS and body indications. *European Journal of Radiology*, 23(3): 190–196.
- Maher, E. A. and Mckee, A. C. (2010). Neoplasms of the Central Nervous System. in Skarin, A. T. (ed.) *Atlas of Diagnostic Oncology*. 4th ed. Philadelphia: Elsevier Science Ltd, 484–528.
- Majós, C., Alonso, J., Aguilera, C., Serrallonga, M., Pérez-martín, J., Acebes, J. J., et al. (2003). Proton magnetic resonance spectroscopy ( $^1\text{H}$  MRS) of human brain tumours: assessment of differences between tumour types and its applicability in brain tumour categorization. *European Radiology*, 13(3): 582–591.

- McCarthy, B. J., Rankin, K., Il, D., Erdal, S., Vick, N., Ali-osman, F., Bigner, D. D. et al. (2011). Assessment of Type of Allergy and Antihistamine Use in the Development of Glioma. *Cancer Epidemiology, Biomarkers & Prevention*, 20(2): 370–379.
- McCarthy, B. J., Surawicz, T., Bruner, J. M., Kruchko, C. and Davis, F. (2002). Consensus Conference on Brain Tumor Definition for Registration. *Neuro-Oncology*, 4(2): 134–145.
- Mcknight, T. R. (2004). Proton Magnetic Resonance Spectroscopic Evaluation of Brain Tumor Metabolism. *Seminars in Oncology*, 31(5): 605–617.
- Mechtler, L. (2008). Neuroimaging in Neuro-Oncology. *Neurologic Clinics*. Elsevier Ltd, 27(1): 171–201.
- Miranda-Filho, A., Piñeros, M., Soerjomataram, I., Deltour, I. and Bray, F. (2017). Cancers of the brain and CNS: global patterns and trends in incidence. *Neuro-Oncology*, 19(2): 270–280.
- Möller-Hartmann, W., Herminghaus, S., Krings, T., G, M., Lanfermann, H., Pilatus, U. and Zanella, F. (2002). Clinical application of proton magnetic resonance spectroscopy in the diagnosis of intracranial mass lesions. *Neuroradiology*, 44(5): 371–381.
- Murphy, P. S., Dzik-jurasz, A. S. K., Leach, M. O. and Rowland, I. J. (2002). The effect of Gd-DTPA on T1-weighted choline signal in human brain tumours. *Magnetic Resonance Imaging*, 20(1): 127–130.
- Naser, R. K. A., Hassan, A. A. K., Shabana, A. M. and Omar, N. N. (2016). Role of magnetic resonance spectroscopy in grading of primary brain tumors. *The Egyptian Journal of Radiology and Nuclear Medicine*, 47(2): 577–584.
- Neglia, J. P., Robison, L. L., Stovall, M., Liu, Y., Packer, R. J., Hammond, S., et al. (2006). New Primary Neoplasms of the Central Nervous System in Survivors of Childhood Cancer: a Report From the Childhood Cancer Survivor Study. *Journal of the National Cancer Institute*, 98(21): 1528–1537.
- Nelson, S. J. (2003). Multivoxel Magnetic Resonance Spectroscopy of Brain Tumors. *Molecular Cancer Therapeutics*, 2(5): 497–507.
- Nilsson, M., Englund, E., Szczepankiewicz, F., Van Westen, D. and Sundgren, P. C. (2018). Imaging brain tumour microstructure. *NeuroImage*, 75 1–19.
- Noguerol, T. M., Sánchez-gonzález, J., Barbero, J. P. M., García-figueiras, R., Baleato-González, S. and Luna, A. (2016). Clinical Imaging of Tumor Metabolism with <sup>1</sup>H Magnetic Resonance Spectroscopy. *Magnetic Resonance Imaging Clinics of North America*, 24(1): 57–86.
- Ono, Y., Chernov, M. F., Muragaki, Y., Maruyama, T., Abe, K. and Iseki, H. (2018). Imaging of Intracranial Gliomas. *Progress in Neurological Surgery*, 30: 12–62.

- Ostrom, Q. T., Gittleman, H., Liao, P., Vecchione-koval, T., Wolinsky, Y., Kruchko, C. et al. (2017). CBTRUS Statistical Report: Primary brain and other central nervous system tumors diagnosed in the United States in 2010–2014. *Neuro-Oncology*, 19(suppl\_5): 1–88.
- Öz, G., Alger, J. R., Barker, P. B., Barthä, R., Bolan, P. J., Brindle, K. M., et al. (2014). Clinical Proton MR Spectroscopy in Central Nervous System. *Radiology*, 270(3): 658–679.
- Preston, A. D. L., Ron, E., Tokuoka, S., Funamoto, S., Nishi, N., Soda, M., et al. (2007). Solid Cancer Incidence in Atomic Bomb Survivors: 1958 – 1998. *Radiation Research*, 168(1): 1–64.
- Rees, J. H. (2011). Diagnosis and treatment in neuro-oncology: an oncological perspective. *The British Journal of Radiology*, 84(Spec Iss 2): S082–S089.
- Sadetzki, S., Chetrit, A., Freedman, L., Stovall, M., Modan, B., Sadetzki, S., et al. (2005). Long-Term Follow-up for Brain Tumor Development after Childhood Exposure to Ionizing Radiation for Tinea Capitis Long-Term Follow-up for Brain Tumor Development after Childhood Exposure to Ionizing Radiation for Tinea Capitis. *Radiation Research*, 163(4): 424–432.
- Sahraei, Z., Mirabzadeh, M., Fouladi, D. F., Eslami, N. and Eshraghi, A. (2014). Magnetic Resonance Imaging Contrast Agents: A Review of Literature. *Journal of Pharmaceutical Care*, 2(4): 177–182.
- Sastroasmoro, S. and Ismael, S. (2011). Usulan Penelitian. in *Dasar-Dasar Metodologi Penelitian Klinis*. 4th edn. Jakarta: Sagung Seto, 31–63.
- Scheurer, M. E., Amirian, E. S., Davlin, S. L., Rice, T., Wrensch, M. and Bondy, M. L. (2011). Effects of antihistamine and anti-inflammatory medication use on risk of specific glioma histologies. *International Journal of Cancer*, 129(9): 2290–2296.
- Schwartzbaum, J., Hall, P., Auvinen, A., Collatz, H., Wigertz, A., Lo, S., et al. (2007). Allergic Conditions and Brain Tumor Risk. *American Journal of Epidemiology*, 166(8): 941–950.
- Sijens, P. E., van den Bent, M. J., Nowak, P. J. C. M., van Dijk, P. and Oudkerk, M. (1997). <sup>1</sup>H Chemical Shift Imaging Reveals Loss of Brain Tumor Choline Signal after Administration of Gd-Contrast. *Magnetic Resonance in Medicine*, 37(2): 222–225.
- Sijens, P. E., Oudkerk, M., van Dijk, P., Levendag, P. C. and Vecht, C. J. (1998). <sup>1</sup>H MR spectroscopy monitoring of changes in choline peak area and line shape after Gd-contrast administration. *Magnetic Resonance Imaging*, 16(10): 1273–1280.
- Skoch, A., Jiru, F. and Bunke, J. (2008). Spectroscopic imaging: Basic principles. *European Journal of Radiology*, 67(2): 230–239.
- Smith, J. K., Castillo, M. and Kwok, L. (2003). MR spectroscopy of brain

tumors. *Magnetic Resonance Imaging Clinics of North America*, 11(3): 415–429.

- Smith, J. K., Kwock, L. and Castillo, M. (2000). Effects of Contrast Material on Single-volume Proton MR Spectroscopy. *American Journal of Neuroradiology*, 21(6): 1084–1089.
- Strong, M. J., Garces, J., Vera, J. C., Mathkour, M., Emerson, N. and Ware, M. L. (2015). Brain Tumors: Epidemiology and Current Trends in Treatment. *Journal of Brain Tumors & Neurooncology*, 1(1): 1–21.
- Taylor, A. J., Little, M. P., Winter, D. L., Sugden, E., Ellison, D. W., Stiller, C. A., et al. (2010). Population-Based Risks of CNS Tumors in Survivors of Childhood Cancer: The British Childhood Cancer Survivor Study. *Journal of Clinical Oncology*, 28(36): 5287–5293.
- Tran, T., Ross, B. and Lin, A. (2008). Magnetic Resonance Spectroscopy in Neurological Diagnosis. *Neurologic Clinics*, 27(1): 21–60.
- Turner, M. C., Krewski, D., Armstrong, B. K., Chetrit, A., Giles, G. G., Hours, M., et al. (2013). Allergy and brain tumors in the INTERPHONE study: pooled results from Australia, Canada, France, Israel, and New Zealand. *Cancer Causes & Control*, 24(5): 949–960.
- Ulmer, S., Backens, M. and Ahlhelm, F. J. (2016). Basic Principles and Clinical Applications of Magnetic Resonance Spectroscopy in Neuroradiology. *Journal of Computer Assisted Tomography*, 40(1): 1–13.
- Villanueva-Meyer, J. E., Mabray, M. C. and Cha, S. (2017). Current Clinical Brain Tumor Imaging. *Neurosurgery*, 81(3): 397–415.
- Wang, W., Hu, Y., Lu, P., Li, Y., Chen, Y., Tian, M. and Yu, L. (2014). Evaluation of the Diagnostic Performance of Magnetic Resonance Spectroscopy in Brain Tumors: A Systematic Review and Meta-Analysis. *PLoS One*, 9(11): e112577.
- Wesseling, P., Kros, J. M. and Jeuken, J. W. M. (2011). The pathological diagnosis of diffuse gliomas: towards a smart synthesis of microscopic and molecular information in a multidisciplinary context. *Diagnostic Histopathology*, 17(11): 486–494.
- Wrensch, M., Minn, Y., Chew, T., Bondy, M. and Berger, M. S. (2002). Epidemiology of primary brain tumors: Current concepts and review of the literature. *Neuro-Oncology*, 4(4): 278–299.
- Xiao, Y., Paudel, R., Liu, J. U. N., Ma, C., Zhang, Z. and Zhou, S. (2016). MRI contrast agents: Classification and application (Review). *International Journal of Molecular Medicine*, 38(5): 1319–1326.
- Yu, X., Liu, Z., Tian, Z., Li, S., Huang, H., Xiu, B., et al. (2000). Stereotactic Biopsy for Intracranial Space-Occupying Lesions: Clinical Analysis of 550 Cases. *Stereotactic and Functional Neurosurgery*, 75: 103–108.

Zhu, H. and Barker, P. B. (2011). MR Spectroscopy and Spectroscopic Imaging of the Brain. in Modo, M. and Bulte, J. W. M. (eds). *Magnetic Resonance Neuroimaging. Methods in Molecular Biology (Methods and Protocols)*. New York: Humana Press, 203–226.