

DAFTAR PUSTAKA

- Akao, Y. And Nakagawa, Y. 2008. Anti Cancer Effects of Xanthones from Pericarp of Mangosteen. *International Journal of Molecular Sciences*. 9(3): 355-370.
- Alatas Z. 2003. Efek Kesehatan Paparan Radiasi Dosis Rendah. Seminar Aspek Keselamatan Radiasi dan Lingkungan pada Industri Non-Nuklir. BATAN: 28-38.
- Arsana, I.N. 2014. Ekstrak Kulit Buah Manggis (*Garcinia Mangostana L.*) dan Pelatihan Fisik Menurunkan Stress Oksidatif pada Tikus Wistar (*Rattus Norvegicus*) Selama Aktivitas Fisik Maksimal. Disertasi. Universitas Udayana. Denpasar
- Ayala A, Munoz MF, Arguelles S. 2014. Lipid Peroxidation: Production, Metabolism, and Signaling Mechanisms of Malondialdehyde and 4-Hdroxy-2-Nonenal. *Oxidative Medicine and Cellular Longevity*, pp. 1-31.
- Bahudin, I.A.A., Marmora, Y.E., Setiawan, P.I., dan Permatasari, I.Y., 2012, Polimer Mukoadhesif Eksipien Sediaan Farmasi. Makalah. Fakultas Farmasi. Universitas Indonesia.
- Bahri, S., Pasaribu, F, Dan Sitorus, P. 2012. Uji Ekstrak Etanol Kulit Buah Manggis (*Garcinia mangostana L.*) Terhadap Penurunan Kadar Glukosa Darah. *Journal of Pharmaceutics and Pharmacology*. 1(1):1-8.
- Barrera G. 2012. Oxidative stress and lipid peroxidation products in cancer progression and therapy. *ISRN Oncology*. 1-22.
- Beyzadeoglu M, Ozyigit G, Ebruli C. 2010. Radition physics, in *Basic Radiation Oncology*, Springer, Verlag Berlin Heidelberg etc, pp 3-31, 71-140.
- Boel T. 2009. Dental radiografi prinsip dan teknik. Universitas Sumatera Utara. Medan. Indonesia.pp. 1-4.
- Boel T. 2012. Dental Radiografi Prinsip dan Teknik. Indonesia: USU Press. 2012: 56
- Bresciani, G., Gonzales-Gallego, J., Manica da Cruz, I. 2015. Manganese Superoxide Dismutase and Oxidative Stress Modulation. Institute of Biomedicine (IBIOMED) and Centro de Investigación Biome´dica en Red de Enfermedades Hepa´ticas y Digestivas (CIBERehd), University of Leo´n, Leo´n, Spain. Elsevier.
- Candas D, Jian Li J. 2014. MnSOD in Oxidative Stress Response-Potential Regulation via Mitochondrial Protein Influx. *Antioxid. Redox Signal*:20:10: pp. 1599-1617

- Cardis E, Howe G. 2011. Health Effects Due to Radiation from the Chernobyl Accident. Annex D of UNSCEAR 2008 : Sources and Effects of Ionizing Radiation. Volume 2 : Effects Book review. J Radiol Prot.31:275–7.
- Carvalho, F.C., Bruschi, M.L., Evangelista, R.C. & Gremia, M.P.D. 2010, Mucoadhesive drug delivery systems. Braz J Pharm Sci, 46: 1 – 17
- Chin Y, Jung H, Chai H, Keller W and Kinghorn A. 2008. Xanthones with quinine reductase-inducing activity from the fruits of *Garcinia mangostana* (Mangosteen). Phytochemistry 69(3): 754–758.
- Chomnawang MT, Surassmo S, Nukoolkarn VS and Gritsanapan W. 2007. Effect of *Garcinia mangostana* on inflammation caused by *Propionibacterium acnes*. Fitoterapia 78(6): 401–408.
- Dannewitz B, Hassfeld S, dan Eickholz P. 2002. Effect of dose reduction in dental panoramic radiography on image quality. Dentomaxillofacial Rad Dent J 2002; 31 : 50-5.
- Darlina. 2016. Potensi Vitamin sebagai Radioprotektor. Buletin ALARA Vol. 18 (1) hal. 7-15
- Darlina, Tur Rahardjo, Mukh. Syaifudin. 2018. Evaluasi Hubungan Dosis Radiasi Terhadap Kerusakan DNA Sel Limfosit dengan Menggunakan Tes Comet. Jurnal Sains dan Teknologi Nuklir Indonesia. Vol. 19, No. 1, Februari. hal: 13-20
- Dewi, G. S. N. 2009. Evaluasi Radiografis Letak Foramen Mentalis Antara Suku Jawa dan Suku Papua di Jember. Jember: Fakultas Kedokteran Gigi Universitas Jember.
- Dewita, Gita. 2015. *Effectiveness of Pericarp Mangosteen Extract As Nefroreceptor*. Medical Journal of Lampung University. Vol. 4 No. 2
- Dharmawan, TP. 2010. Uji Toksisitas Akut Monocrotophos Dosis Bertingkat Per Oral Dilihat Dari Gambaran Histopatologis Otot Jantung Mencit BALB/C. Skripsi. Semarang: Fakultas Kedokteran Universitas Diponegoro.
- Diwakar NR, Kamakshi SS. 2015. Recent advancements in dental digital radiography. J Med Radiol Pathol Surg. Vol. 1: 11–6.
- Dungir, SG, Katja, DG, & Kamu, VS. 2012. Aktivitas Antioksidan Ekstrak Fenolik dari Kulit Buah Manggis (*Garcinia mangostana* L.). Jurnal Mipa Unsrat Online. Vol.1, no.1, pp. 11–15.
- Ekayuda, I. 2005. Radiologi Diagnostik. Edisi ke-2. Jakarta, Balai Penerbit FK UI. Hal. 15-17.

- Grandlund, C., Thilander-Klang, A., Ylhan Betul., Lofthag-Hansen, S., Ekestubbe, A. 2016. Absorbed organ and effective dose from digital intra-oral and panoramic radiography applying the ICRP 103 recommendations for effective dose estimation. *Br J Radiol*: 89: 20151052
- Halperin EC, Pers CA, Brady L.W. 2008. The discipline of radiant oncology. In Halperin EC, Peres CA, Brady LW (eds): *principles and practice of radiation oncology*, 5th ed. Philadelphia etc: Wolters Kluwer/Lippicott Williams & Wilkins, pp. 10-35
- Hayati K, Astuti ER, Tri Martini. 2016. Aktivitas superoksida dismutase, katalase, dan kadar malondialdehida kelenjar submandibularis tikus wistar setelah radiasi sinar gamma. *Journal of Syah Kuala dentistry Society (JDS)*, 1, 2, hal. 110-121.
- Hermawan, Intan Permatasari. 2016. Pengaruh Pemberian Ekstrak Kulit Manggis (*Garcinia Mangostana L.*) Terhadap Nekrosis Glomerulus dan Tubulus Ginjal Mencit Jantan (*Mus musculus*) yang Dipapar Asap Rokok. Skripsi. Fakultas Kedokteran Hewan. Universitas Airlangga.
- Ho CK, Huang YL, Chen CC. 2002. Garcinone E, a xanthone derivative, has potent cytotoxic effect against hepatocellular carcinoma cell lines. *Planta Med.* 68(11):975- 79.
- Huang HJ, Chen WL, Hsieh RH, Li HMM. 2014. Multifunctional effect of mangosteen pericarp on cognition in C57BL/6J and triple transgenic alzheimer's mice. *Evidence Based Complementary and Alternative Medicine*. Vol. 1 (1-18).
- Iannuci JM, Howerton LJ. 2012. *Dental Radiography: principles and techniques*. St.Louis, Missouri, pp: 35-42.
- Ighodaro O.M., Akinloye O.A., Alex J. Med. 2017. First Line Defence Antioxidants-Superoxide dismutase (SOD), Catalase (CAT), and Glutathione peroxidase (GPX): Their Fundamental role in the entire antioxidant defense grid. *Alexandria Journal of Medicine*. Elsevier.
- International Centre for Under Utilized Crops (ICUC). 2003. Fruit to the Future Mangosteen, Factsheet, No 8. International Centre for Underutilized Crops.
- Indigomorie. 2009. Antioksidan: Apa yang Kita Perlu Ketahui Tentangnya (<http://netsains.com/2009/06/antioksidan-apa> -yang-kitaperluketahuitentangnya) Diakses pada 19 Oktober 2019.
- Iswari, K., Harnel, E.Afdi, Azman, F. Artati, dan Aswardi. 2006. Kajian Teknologi Pengolahan Manggis Mendukung Agribisnis Manggis di Sumbar. Laporan Hasil Penelitian BPTP Sumbar, T. A.
- Iswari, K. 2011. Kulit Manggis Berkhasiat Tinggi. Madya Centradifa, Jakarta.

- Jiang, D. J. 2002. Pharmacological Effects of Xanthones as Cardiovascular Protective Agents. *Cardiovascular Drug Reviews*, 22(2).
- Jinsart W, Ternai B, Buddhasukh D, Polya GM., 1992. *Inhibition of wheat embryo calcium-dependent protein kinase and other kinases by mangostin and gammamangostin*, *Phytochemistry*, 31(11):3711- 3713.
- Jung, H.A., Su, B.N., Keller, W.J., Mehta, R.G. and Kinghorn, A.D. 2006. Antioxidant Xanthones from the Pericarp of *Garcinia Mangostana* (Mangosteen). *Journal and Food Chemistry*. 54(6) : 2077-2082.
- Jusuf, A.A. 2009. *Histoteknik Dasar*. Jakarta : FKUI.
- Kumar V, Abbas AK, Fausto N. 2005. Cellular adaptations, cell injury and cell death. In: Kumar V, Abbas AK, Fausto N, eds. *Robbins and Cotran Pathologic Basis of Disease*. 7th ed. Philadelphia, PA: Elsevier Saunders, 2:3– 46
- Kumar, V., Aggarwal, G., Zakir, F. & Choudhary, A. 2011, Buccal bioadhesive drug delivery- a novel technique, *Int J Pharm Bio Sci*, 129 – 144.
- Kumar V, Abbas AK, Aster JC. 2015. *Buku ajar patologi robbins*. 9th ed. Editor: Nasar IM dan Cornain S (eds), Elsevier Pte Ltd., Singapore, pp. 3-20.
- Lanaerts, V., Gurny, R., 1990 Eds., *Bioadhesive Drug Delivery Systems*, CRC Press, Boca Raton, FL, 2.
- Lee, S. S., & Park, S. H. 2014. Radiologic evaluation of nonalcoholic fatty liver disease. *World journal of gastroenterology: WJG*, 20(23), 7392.
- Lestari, A.S.P., Mulyono, A. 2011. *Analisis Citra Ginjal untuk Identifikasi Sel Piknosis dan Sel Nekrosis*. *Jurnal Neutrino Vol.4, No.1*, p:48-66.
- Ludlow JB, Davies-Ludlow LE, White SC. 2007. Patient risk related to common dental radiographic examinations: the impact of International Commission on Radiological Protection recommendations regarding dose calculation. *J Am Dent Assoc* 2008; 139: 1237–43.
- Loegito, M. 2018. *Efek Pemberian Ekstrak Etanol Kulit Buah Manggis (Garcinia mangostana L) Terhadap Struktur Histopatologis Testis, Kadar MDA, dan SOD Spermatozoa Epididymis, Serta Mortalitas dan Viabilitas Spermatozoa Tikus Wistar(Rattus norvegicus) Yang Dipapar Asap Rokok*. Disertasi. University of Brawijaya, Malang, pp.62, 222-224
- Mallya SM and Lurie AG. 2014. *Panoramic Imaging dalam Oral Radiology Principles and Interpretations*. 7th ed. Toronto: Mosby. p:166.
- Marfiana N , Sari DP, Rofifah YN, & Putri VN. 2013. Formulasi Patch Amoksisilin dengan Kombinasi Polimer HPMC (Hidroksi Propil Metil Selulosa) dan PVP (Polivinil Pirolidon) sebagai Pendekatan Penanganan Sariawan. Program Studi Farmasi Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yokyakarta. 3-17.

- Mathiowitz, E., Chickering, D.E., 1999, *Definitions, mechanisms and theories of Bioadhesion*, dalam Mathiowitz, E., Chickering, D.E., Lehr, C.M. (Eds.), *Bioadhesive Drug Delivery Systems: Fundamentals, Novel Approaches and Development*, Marel Decker, New York, 1-10.
- Matsumoto K, Akao Y, Kobayashi E, Ohguchi K, Ito T, Tanaka T, *et al.* 2003. Induction of apoptosis by xanthenes from mangosteen in human leukemia cell lines, *J Nat Prod.* 66(8):1124-27.
- Mescher, A. L. 2011. *Histologi Dasar Junqueira: teks & atlas*. Edisi ke- 12. Alih bahasa: Frans Dany. Jakarta: EGC.
- Miryanti, Arry., Sapei, Lanny., Budiono, Kurniawan., Indra, Stephen. 2014. *Ekstraksi Antioksidan Kulit Buah Manggis (Garciana Mangostana L.)*. Lembaga Penelitian Pengabdian Kepada Masyarakat. Universitas Katolik Parahyangan. Bandung
- Miryanti A, Sapei L, Budiono K, Indra S. 2011. *Kulit Buah Manggis (Garcinia mangostana L.)*. Skripsi. Bandung: Universitas Kkatolik Parahyangan.
- Moongkarndi P, Kosem N, Kaslungka S, Luanratana O, Pongpan N, Neungton N. 2004. Antiproliferation, antioxidation and induction of apoptosis by *Garcinia mangostana* (mangosteen) on SKBR3 human breast cancer cell line, *J Ethnopharmacol.* 90(1):161-66
- Mudjosemedi, M., Widyaningrum, R., Gracea, RS. 2015. Perbedaan Hasil Pengukuran Horizontal pada Tulang Mandibula dengan Radiograf Panoramik. *Majalah Kedokteran Gigi Indonesia* 1(1): 78 - 85
- Muliartha, I.K.G., Sriwahyuni, E., Yuliawati. 2009. Pemberian Kombinasi Vitamin C dan E Peroral Memperbaiki Kerusakan Hepar Akibat Paparan Rokok Kretek Sub Kronik. *Jurnal Kedokteran Brawijaya.* 24 : 24-25.
- Muntiha M. 2001. Teknik pembuatan preparat histopatologi dari jaringan hewan dengan pewarnaan hemaktosilin dan eosin (H&E). *Balai Penelitian Veteriner.* 157-158.
- Murphy MP., 2014. Antioxidants as therapies: can we improve on nature. *Free Radical Biology and Medicine* Volume 66, pp. 20–23
- Murray, R.K., Granner, D.K., Mayes, P.A. Rodwell, V.W. 2003. *Biokimia Hepar*. Buku Kedokteran Edisi 25. EGC. Jakarta.
- Murray, R.K., Granner, D.K., Rodwell V.W., 2009. *Biokimia Harper*, (Andri Hartono).Edisi 27.Penerbit Buku Kedokteran, EGC. Jakarta.
- Nakatani, K., Nakahata, N., Arakawa, T., Yasuda, H. & Ohizumi, Y. 2002. Inhibition of cyclooxygenase and prostaglandin E2 synthesis by γ -mangostin, a xanthone derivative in mangosteen, in C6 rat glioma cells. *Biochemical Pharmacology*, 63(1), pp.73-79.
- Noerjanto, R. B., Savitri, Y., & Putri, M. C. 2014. Sensitivitas, spesifisitas, dan akurasi pengukuran mental indeks pada radiografi panoramik wanita pascamenopause. *Dentomaxillofacial Radiology*, 5(1), 8-13.

- Okano T, Sur J. 2009. *Radiation Dose and Protection in Dentistry*. JDSR. 2010 (46) : 112-121.
- Parks, E. T., Williamson, G. F., 2002, Digital Radiography: an Overview, *J Cont Dent Practice* (3):4.
- Permata, E., Suherman, A. 2015. Klasifikasi Kualitas Buah *Garcinia mangostana L.* Menggunakan Metode Learning Vector Quantization. Seminar Nasional Teknologi Informasi dan Komunikasi 2015.
- Pedraza-Chaverri J, Cárdenas-Rodríguez N, Orozco-Ibarra M, Pérez- Rojas JM. 2008. Medicinal Properties of Mangosteen (*Garcinia mangostana L.*). *Food and Chemical Toxicology*.46: 3227-39.
- Pisochi, A.M., Pop, A. 2015. The role of antionxidants in the cemistry of oxidative stress: A Review. *European Journal of Medicinal Chemistry* 97 pp, 55-74
- Powers, S.K., Jackson, M.J. 2008. Exercise- Induced Oxidative Stress: Cellular Mechanisms and Impact on Muscle Force Production. *Journal NIH Public Access*. 88 (4): 1243-1276.
- Pringgoutomo, S.; S. Himawan; A. Tjarta. 2002. *Buku Ajar Patologi I*. Jakarta: Sagung Seto.
- Qosim W.A., 2007. Sejarah, Penyebaran dan Botani Tanaman Manggis. <http://anekaplanta.wordpress.com/2007/12/12/sejarahpenyebaran-dan-botani-tanaman-manggis>.
- Richa, Y. 2009. Uji aktivitas penangkap radikal dari ekstrak petroleumeter, etil asetat dan etanol rhizoma binahong (*Anredera cordifolia* (Tenore) Steen) dengan metode DPPH (2,2-difenil-1-pikrihidrazil). Skripsi Fakultas Farmasi, Universitas Muhammadiyah Surakarta
- Rina, Susilowati. 2013. Petunjuk Praktikum Mikroteknik . Yogyakarta : Bagian Histologi & Biologi Sel FK UGM
- Roy, S.K., Pal, A., Anis, K., Pramanik & Prabakhar, B. 2009, Polymers in mucoadhesive drug delivery system: A brief note, *Designed Monomers and Polymers*, 12(6): 483 – 495.
- Sarjadi. 2003. *Patologi Umum*. Semarang: Badan Penerbit Universitas Diponegoro.
- Saputra, D., Astuti, E. R., & Budhy, T. I. 2012. Apoptosis dan nekrosis sel mukosa rongga mulut akibat radiasi sinar-x dental radiografik (konvensional). *Radiology Dent J*, 3(1), 36-40.
- Schreiber, GJ. 2007. Radiation therapy, General Principles. <http://www.Emedscape.emedicine.com/topik247.htm> diakses tanggal 16/08/2019
- Shabella, Rifdah. 2011. *Terapi Kulit Manggis*, Galmas Publishers, Klaten

- Shan, T, Ma, Q, Guo, K., Li, W, Wang, F. 2011. Xanthones from Mangosteen Extracts as Natural Chemopreventive Agent: Potential Anticancer Drugs. National Institut of Healt. 1-2.
- Shantiningsih, R.R. & Diba, S.F. 2015. 'Efek aplikasi patch gingiva mukoadesif β - carotene akibat paparan radiografi panoramik'. *Majalah Kedokteran Gigi Indonesia*, vol.1, no.2, pp. 186–192.
- Shantiningsih, RR & Diba, SF. 2018. 'Biological changes after dental panoramic exposure: conventional versus digital', *Dental Journal (Majalah Kedokteran Gigi)*, vol.51, no.2, pp.25-28.
- Shravan, K., Murali, K., Nagaraju, T., Gowthami, R. & Rajashekar, M. 2012, Comprehensive review on buccal delivery, *Int J Pharm*, 2(1): 205 – 217.
- Simone, N. L., Soule, B. P., Ly, D., Saleh, A. D., Savage, J. E., DeGraff, W., & Mitchell, J. B. 2009. Ionizing radiation-induced oxidative stress alters miRNA expression. *PloS one*, 4(7).
- Smrithi D. 2014. *Coronal Pulp biomarker : A lesser known age estimation modality*. Journal of Indian Academy of Oral Medicine & Radiology.pp. 398-6.
- Sudiana, I.K. 2008. *Patobiologi Molekuler Kanker*. Salemba Medika. Jakarta, hal. 1-3. 22-36
- Sukmawati, D. 2005. Stress Oksidatif, antioksidan vitamin dan kesehatan. *Saintika Medika*, 2, hal. 239-253.
- Suryohudoyo, P., Sri Utari P. 2013. *Pengantar Biologi molekuler*. Cetakan Pertama, Airlangga University Press, hal 87-90.
- Toppo, Syamsiar. 2012. 'Distribusi pemakaian radiografi periapikal dan radiografi panoramik pada pasien impaksi molar ketiga rahang bawah di kota Makassar Distribution of periapical and panoramic radiography on third molar mandibular', *Dentofasial*, vol.11, no.2, pp. 75–78.
- Tothova C, Nagy O, Kovac G. 2014. Changes in the concentrations of serum protein fractions in calves with age and nutrition. *Italian J of Anim Sci*. 13(1).
- US Departement of Energy. 2014. Frequently asked questions about health effect of low doses of radiation, diunduh tanggal 14 Maret 2019, <<http://low dose energy.gov/faqs.aspx>
- Visser, H., Rödig, T., & Hermann, K. P. 2001. Dose reduction by direct-digital cephalometric radiography. *The Angle Orthodontist*, 71(3), 159-163.
- Whaites E. 2007. *Essensial Of Dental Radiograf. 4th ed*. Philadelphia: Elsevier. vol. 7, no. 25.pp. 188-194.
- White, S.C., Pharoah, M. 2009. *Oral radiology Principles and Interpretatio*. 5th ed., Mosby, St. Louis, pp. 2-4 25-26, 18-26, 32-35.

- Whaites, E. & Drage, N. 2013, '*Essentials of Dental Radiography and Radiology*'. 5th edn, Elsevier Ltd, St. Louis, pp. 3, 65, 77.
- White, S.C., Mallya, S.M. 2012. *Update on The Biological Effects of Ionizing Radiation, Relative Dose Factors and Radiation Hygiene*. Austral DJ (57) : 2-8.
- Winarsi, H. 2007. *Antioksidan alami dan radikal bebas*. Yogyakarta: Kanisius
- Woroprobosari, N. R., 2016. Efek Stokastik Radiasi Sinar X Dental pada Ibu Hamil dan Janin. ODONTO Dental Journal. Volume 3. Nomer 1. Hal. 60-66
- Wouters, G.B. 2009. Cell death after irradiation: how, when and why cell die. In : Joiner M, Kogel DVA, ed. *Basic Clinical Radiobiology* 4th ed. London: Hodder Arnold. pp.27-40.
- Woroprobosari, Niluh. 2016. Efek Stokastik Radiasi Sinar-X Dental Pada Ibu Hamil dan Janin. ODONTO : Dental Journal Vol. 3. 10.30659/odj.3.1.60-66
- Yatman, Eddy. 2012. Kulit Buah Manggis Mengandung Xanton yang Berkhasiat Tinggi. Universitas Borobudur Nomor 324
- Yuslianti, Euis Rini. 2018. *Pengantar Radikal Bebas dan Antioksidan Edisi 1*, Cetakan 1, Yogyakarta.
- Zhang Y, Guo J, Qi Y, Shao Q, Liang J. 2014. Science Direct The prevention of radiation-induced DNA damage and apoptosis in human intestinal epithelial cells by salvianic acid A. *J Radiat Res Appl Sci* 7(3):274– 85.
- Zhuohong, Xie., Marsha, S., Tony, Chang., Boxin, Ou .2014. Functional Beverage Of *Garcinia Mangostana* (Mangosteen) Enhances Plasma Antioxidant Capacity In Healthy Adults. *Food Science & Nutrition* 2015. 3(1): 32–38.