

DAFTAR PUSTAKA

- Akyol, H., Riciputi, Y., Capanoglu, E., Caboni, M.F., Verardo, V., 2016, Phenolic compounds in the potato and its by products: an overview, *International Journal of Molecular Sciences*, 17(835): 1-19.
- Alibasyah, Z.M., Andayani, R., Farhana, A., 2016, Potensi antibakteri ekstrak jahe (*Zingiber officinale roscoe*) terhadap *Porphyromonas gingivalis* secara in vitro, *Journal of Syiah Kuala Dentistry Society*, 1(2): 147-152.
- Ambati, M., Rani, K.R., Reddy, P.V., Suryaprasanna, J., Dasari, R., Gireddy, H., 2017, Evaluation of oxidative stress in chronic periodontitis patients following systemic antioxidant supplementation: A clinical and biochemical study, *Journal of Natural Science, Biology, and Medicine*, 8(1), 99–103.
- Anggraeni, S., Setyaningrum, T., Listiawan, M.Y., 2017, Perbedaan kadar malondialdehid (MDA) sebagai petanda stres oksidatif pada berbagai derajat akne vulgaris, *Berkala Ilmu Kesehatan Kulit dan Kelamin*, 29(1): 36-43.
- Anggraini, S., Kurniawan, F., 2015, Pengaruh waktu infusi pada kadar asam klorogenat dalam sampel teh hitam dan teh hijau, *Jurnal Sains dan Seni Institut Teknologi Sepuluh Nopember (ITS)*, 4(2): 45-47.
- Ayala, A., Muñoz, M.F., Argüelles, S., 2014, Review article lipid peroxidation: production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal, *Hindawi Publishing Corporation*, 1-31.
- Ayuningati, L.K., Murtiastutik, D., Hoetomo, M., 2018, Perbedaan kadar malondialdehid (MDA) pada pasien dermatitis atopik dan nondermatitis atopik, *Berkala Ilmu Kesehatan Kulit dan Kelamin–Periodical of Dermatology and Venereology*, 30(1): 58-65.
- Bansal, N., Gupta, N.D., 2014, Role of dietary antioxidants in periodontitis: a preventive approach, *International Organization of Scientific Research Journal of Dental and Medical Sciences*, 13(9): 81-83.
- Battino, M., Bulln, P., Wilson, M., Newman, H., 1999, Oxidative injury and inflammatory periodontal disease: the challenge of anti-oxidants to free radicals and reactive oxygen species, *Critical Reviews in Oral Biology and Medicine*, 10(4): 458-476.
- Beltrán, N.P.S., Quiroz, C.C., Cuevas, O.L., Cruz, S.R., Mata, M.A.L., Sánchez, C.L.D.L., dkk., 2017, Phenolic compounds of potato peel extracts: their antioxidant activity and protection against human enteric viruses, *Journal Microbiology and Biotechnology*, 27(2): 234-241.

- Beumer, C., Wulferink, M., Raaben, W., Fiechter, D., Brands, R., Seinen, W., 2003, Calf intestinal alkaline phosphatase, a novel therapeutic drug for lipopolysaccharide (LPS)-mediated diseases, attenuates LPS toxicity in mice and piglets, *The Journal of Pharmacology and Experimental Therapeutics*, 307: 737-744.
- Boşca, A.B., Miclăus, V., Ilea, A., Câmpian, R.S., Rus, V., Ruxanda, F., Rațiu, C., Uifălean, A., Pârvu, A.E., 2016, Role of nitro oxidative stress in the pathogenesis of experimental rat periodontitis, *Clujul Medical*, 89(1): 150-159
- Capdevilla, S., Giral, M., Torre, J.L.R., Russel, R.J., Kramer, K., 2007, Acclimatization of rats after ground transportation to a new animal facility, *Laboratorium Animals*, 41(2): 255-261.
- Dahiya, P., Kamal, R., Gupta, R., Bhardwaj, R., Chaudhary, K., Kaur, S., 2013, Reactive oxygen species in periodontitis, *Journal Indian Society of Periodontology*, 17(4): 411-416.
- Fardian, N., Johan, A., Kisdjamiatun, R.A., 2015, Pengaruh pemberian seng terhadap indeks fagositosis makrofag dan kadar nitric oxide mencit balb/c yang terpapar lipopolisakarida *e.coli*., *Jurnal Gizi Indonesia*, 3(2): 68-72.
- Frencken, J.E., Sharma, P., Stenhouse, L., Green, D., Laverty, D., Dietrich, T., 2017, Global epidemiology of dental caries and severe periodontitis a comprehensive review, *Journal of Clinical Periodontology*, 44(18): 94-105.
- Gálvez, J.S., Zevallos, L.C., Velázquez, D.A.J., 2017, Chlorogenic acid: recent advances on its dual role as a food additive and a nutraceutical against metabolic syndrome, *Molecules*, 22(358): 1-21.
- Ghallab, N.A., Hamdy, Shaker, O.G., 2016, Malondialdehyde, superoxide dismutase and melatonin levels in gingival crevicular fluid of aggressive and chronic periodontitis patients, *Australian Dental Journal*, 61: 53-61.
- Gupta, M., Chari, S., Kolte, A., Chandankhede, M., 2013, Malondialdehyde levels in patients with chronic periodontitis, *Journal of Evolution of Medical and Dental Sciences*, 2(2): 4325-4328.
- Halliwell, B., 2001, Free radicals and other reactive species in disease, *Encyclopedia of Life Sciences*, 1-7.
- Halliwell, B., Gutteridge, J.M.C., 2015, *Free Radicals in Biology & Medicine*, Fifth edition, Oxford University Press, Inggris.
- Harun, I., Susanto, H., Rosidi, A., 2017, Pemberian tempe menurunkan kadar malondialdehyde (MDA) dan meningkatkan aktivitas enzim superoxide

- dismutase (SOD) pada tikus dengan aktivitas fisik tinggi, *Jurnal Gizi Pangan*, 12(3): 211-216.
- Hung, Y.L., Suzuki, K., 2017, The pattern recognition receptors an lipopolysaccharides (LPS) induced systemic inflammation, *International Journal of Research Studies in Medical And Health sciences*, 2(7): 1-7.
- Indahyani, D.E., 2013, Minyak ikan lemuru (*Sardinella longiceps*) menurunkan apoptosis osteoblas pada tulang alveolaris tikus wistar, *Dental Journal Majalah Kedoktearan Gigi*, 46(4): 185-189.
- Junaidi, E., Anwar, Y.A.S., 2018, Aktivitas antibakteri dan antioksidan asam galat dari kulit buah lokal yang diproduksi dengan tanase, *Jurnal Penelitian Kimia*, 14(1): 131-142.
- Kassebaum, N.J., Bernabé, E., Dahiya, M., Bhandari, B., Murray, C.J.L., Marcenes, W., 2014, Global burden of severe periodontitis in 1990-2010: a systematic review and meta regression, *Journal of Dental Research*, 93(11): 1045-1053.
- Kesaulya, H., Baharuddin, Zakaria, B., Syaiful, S.A., 2015, Morphological characteristics of potato (*Solanum tuberosum L.*) variety hartapel origin south buru-moluccas, *International Journal of Current Research in Biosciences and Plant Biology*, 2(2): 15-21.
- Khaira, K., 2010, Menangkal radikal bebas dengan antioksidan, *Jurnal Saintek*, 2(2): 183-187.
- Khalishah, 2018, Pengaruh Ekstrak Kulit Kentang (*Solanum tuberosum L.*) Terhadap Kadar Malondialdehid (MDA) Hati Tikus Putih Jantan (*Ratus norvegicus strain wistar*) Model Steatosis, *Skripsi*, Fakultas Kedokteran, Universitas Muhammadiyah Malang, Malang. (Tidak Dipublikasikan).
- Kodir, A.I.A., Herawati, D., Murdiastuti, K., 2014, Perbedaan efektivitas antara pemberian secara sistemik ciprofloksasin dan amoksisilin setelah scaling & root planing pada periodontitis kronis penderita hipertensi, *Jurnal Kedokteran Gigi*, 5(4): 323-328.
- Kotsilkov, K., Dimitrov, R., 2015, Complex treatment in a patient with severe chronic periodontitis (case report), *Journal of International Medical Association Bulgaria*, 21(1): 687-689.
- Kumar, V., Abbas, A.K. Aster, J.C., 2013, *Robbins Basic Pathology Ninth Edition*, Alsevier Saunders, Canada.
- Kuncoro, S., Sutiarmo, L., Nugroho, J., Masithoh, R.E., 2018, Kinetika reaksi penurunan kafein dan asam klorogenat biji kopi robusta melalui pengukusan sistem tertutup, *Agritech*, 38(1): 105-111.

- Loekitowati, P.H., Fahma, Aini, A., 2013, Pengaruh jenis dan volume pelarut terhadap hasil ekstraksi BHA dan BHT dari minyak goreng, *Jurnal Penelitian Sains*, 1(14): 7-14.
- Maharani, D.R., Asparini, R.R., Mulyawan, B, 2016, *Pengaruh gel ekstrak kulit kentang (Solanum tuberosum l.) terhadap luas luka bakar derajat II A*, Fakultas Kedokteran, Universitas Muhammadiyah Malang, Malang.
- Maleyki A, Jalil, Ismail A., 2008, Polyphenols in cocoa and cocoa products: is there a link between antioxidant properties and health, *Molecules Journal*, 13(9): 2190-2219
- Manafe, D.R.T. , Agustiningih, D., Prasetyastuti, 2016, effects of quercetin on the nicotine-induced oxidative status in male wistar rats: study on C-reactive protein (CRP) And Malondialdehyde (MDA) Concentrations, *Journal Medical Science*, 48(2): 81-88.
- Mani, a., James., R., Mani, S., 2018, Etiology and pathogenesis of aggressive periodontitis: a mini review, *Galore International Journal of Health Sciences and Research*, 3(2): 4-8.
- Mathur, A., Mathur L., Bhatia, A., 2013, Antioxidant therapy as monotherapy or as an adjunct to treatment of periodontal disease, *Journal of Indian Society of Periodontology*, 17(1): 21-24.
- Milenkovic, D., Dorovic, J., Jeremic, S., Markovic, J.M.D., Avdovic, E.H., Markovic, Z., 2017, Research article free radical scavenging potency of dihydroxybenzoic acids, *Hindawi Journal of Chemistry*, 1-10.
- Miratunnisa, Mulqie, L., Hajar, S., 2015, Uji aktivitas antibakteri ekstrak etanol kulit kentang (*Solanum tuberosum L.*) terhadap *propionibacterium*, *Prosiding Penelitian SPeSIA Unisba*, 510-516.
- Mohammad, A., Rusdi, B., Mulkiya, K., 2015, Analisis pengaruh penambahan ekstrak kulit kentang sebagai antioksidan terhadap peroksidasi lemak pada sediaan krim minyak dalam air, *Prosiding Penelitian SPeSIA Unisba*, 332-338.
- Mokashi, A., Abbayya,K., Varma, S., Zope, S., Sugarimath,G., Pisa, A., 2018, Psychosocial stress and its effect on periodontal tissues using malondialdehyde as oxidative stress biomarker, *Journal Nepal Social Perio Oral Implantol*, 2(2):34-9.
- Muniz, F.W.M.G., Nogueira, S.B., Mendes, F.L.V., Rosing, C.K., Moreira, M.M.S.M., Andrade, G.M., dkk., 2015, The impact of antioxidant agent complimentary to periodontal therapy on oxidative stress and periodontal outcomes: a systematic review, *Archives of Oral Biology*, 60: 1203-1214.

- Nagamani, M., Prahaladu, P., Vijayababu, P.V.S.S, Ashalata, K., Kumari, K., Kumari, K.L., 2015, Lipid peroxidation product as a marker of oxidative stress in psoriasis a case control study in north coastal andhra pradesh, *IOSR Journal of Dental and Medical Sciences*, 14(5): 18-20.
- Najeeb, S., Zafar, M.S., Khurshid,, Z., Zohaib, S., Almas, S., 2016, The role of nutrition in periodontal health: an update, *Nutrients*, 530(9): 1-18.
- Nayeem, N., Asdaq, S.M.B., Salem, H., Alfqy, S., 2016, Gallic acid: a promising lead molecule for drug development, *Journal of Applied Pharmacy*, 8(2): 1-4.
- Nelawati, A., Soemardini, Prijadi, 2016, Pengaruh pemberian vitamin E pada tikus (*Rattus norvegicus*) bunting yang dipapar asap rokok subakut terhadap berat badan bayi lahir aterm, *Majalah Kedokteran FKUB*, 3(2): 76-85.
- Newman, M., Takei, H., Carranza, F., 2012, *Carranza's Clinical Periodontology*, Elsevier Saunders, Canada.
- Newman, M.G., Takei, H.H., Klokkevold, P.R., Carranza, F.A.C., 2019, *Newman and Carranza's Clinical Periodontology Ed. 13*, Elsevier, China.
- Nugroho, A., 2011, *Laporan kesehatan gigi dan mulut kabupaten banyumas tahun 2011*, Dinas Kesehatan Kabupaten Banyumas, Purwokerto.
- Omar, F.M., Mumtaz, T., 2014, Supplementary effect of potato peel hydrolysate on the citric acid production by *Aspergillus niger* CA16, *Bio Technology an Indian Journal*, 9(8): 207-310.
- Paliling, A., Posangi J., Anindita, P.S., 2016, Uji daya hambat ekstrak bunga cengkeh (*Syzygium aromaticum*) terhadap bakteri *Porphyromonas gingivalis*, *Jurnal e-Gigi (eG)*, 4(2): 229-234.
- Panjamurthy, K., Manoharan, S., Ramachandran, C.R., 2005, Lipid peroxidation and antioxidant status in patients with periodontitis, *Cellular dan Molecular Biology Letters*, 10(2): 255-264.
- Parwata, I.M.O.A., 2015, *Bahan Ajar Bioaktivitas Antioksidan*, Kimia Terapan, Universitas Udayana.
- Pertiwi, P.Z., Widodo, W.H., Candrawati, S., 2015, Perbedaan kadar malondialdehid plasma darah antara penderita katarak senilis imatur dan matur pada pasien klinik mata rumah sakit Margono Soekarjo, *Mandala of Health*, 8(3): 628-641.
- Pitojo, S, 2008, *Penangkaran Benih Kentang*, Kanisius, Yogyakarta.

- Pooja, S., 2016, Antioxidant and its role in periodontitis – a short review, *Journal of Pharmaceutical Sciences and Research*, 8(8): 759-763.
- Prasetyaningrum, N., Soemardini, Fadillah, M.N., 2018, Efek ekstrak daun teh hijau (*Camellia sinensis*) terhadap sel osteoklas tulang alveolar tikus putih (*Rattus norvegicus*), *E-Prodenta Journal of Dentistry*, 2(1): 130-139.
- Prihastuti, C.C., Ratnasari, W., Hernayanti, 2019, The effect of potato (*Solanum tuberosum L.*) skin extract on alkaline phosphatase level in periodontitis, *IOP Conf. Series: Earth and Environmental Science*, 225, 012027.
- Pujiastuti, P., Lestari, S., 2015, Perbedaan efektifitas antibakteri ekstrak daun sirih merah (*Piper crocatum*) pada *Porphyromonas gingivalis* dan *Streptococcus viridans*, *Jurnal Kedokteran Gigi Universitas Jember*, 12(1):1-4
- Quamilla, N., 2016, Stres dan kejadian periodontitis (kajian literatur), *Journal of Syiah Kuala Dentistry Society* 1(2): 161-168.
- Ramadhani, Z.F., Putri, D.K.T., Cholil, 2014, Prevalensi penyakit periodontal pada perokok di lingkungan batalyon infanteri 621/Manuntung Barabai Hulu Sungai Tengah, *Dentino jurnal*, 2(2): 115-119.
- Reddy, B.J., Mandal, R., Chakroborty, M., Hijam, L., Dutta, P., 2018, Review article a review on potato (*Solanum tuberosum L.*) and its genetic diversit, *International Journal of Genetics*, 10(2): 360-364.
- Redžepović, I., Marković, S., Tošović, J., 2017, Antioxidative activity of caffeic acis mechanistic DFT study, *Kragujevac Journal Science*, 39: 109-122.
- Repetto, M., Semprine, J., Boveris, A., 2012, *Lipid peroxidation: chemical mechanism, biological implications and analytical determination*, Intech, Argentina.
- Ridwan, E., 2013, Etika pemanfaatan hewan percobaan dalam penelitian kesehatan, *Journal of The Indonesian Medical Association* 10(1): 1-13.
- Ridwan, R.D., Juliastusti, W.S., Setijanto, R.D., 2017, Effect of electrolyzed reduced water on wistar rats with chronic periodontitis on malondialdehyde levels, *Dental Journal*, 50(1): 10-13.
- Samarin, A.M., Poorazarang, H., Hematyar, N., Elhamirad, A., 2012, Phenolics in potato peels: extraction and utilization as natural antioxidants, *World Applied Sciences Journal*, 18 (2): 191-195.
- Samarrai, S.K., 2018, Saliva and oral health, *International Journal of Advanced Research in Biological Sciences*, 5: 1-45.

- Sari, A.R., 2018, Pengaruh Aplikasi Gel Ekstrak Kulit Kentang (*Solanum tuberosum L.*) 10% terhadap Angiogenesis pada Proses Penyembuhan Luka Gingiva Rattus norvegicus, *Skripsi*, Fakultas Kedokteran Gigi, Universitas Gajah Mada, Yogyakarta. (Tidak Dipublikasikan).
- Setyopranoto, I., 2016, Role of oxydative stress on acute ischaemic stroke, *Jurnal Kedokteran dan Kesehatan Indonesia Journal of Medicine and Health*, 7(4): 151-160.
- Sharif, M.F., Bennett, M.T., 2016, The effect of different methods and solvents on the extraction of polyphenols in ginger (*Zingiber officinale*), *Jurnal Teknologi*, 78(11): 49-54.
- Shetty, S., Thomas, B., Bhandary, R., Shenoy, N., 2017, Salivary and gingival tissue malondialdehyde levels in chronic periodontitis patients, *International Journal of Scientific Research*, 6(4): 317-319.
- Sheweita, S.A., Khoshal, K.I., 2007, Calcium metabolism and oxidative stress in bone fractures: role of antioxidants, *Current Drug Metabolism*, 8(5): 519-525.
- Sinaga, F.A., 2016, Stres oksidatif dan status antioksidan pada aktivitas fisik maksimal, *Jurnal Generasi Kampus*, 9(2): 176-189.
- Singh, N., Narula, S.C., Sharma, R.K., Tewari, S., Sehgal, P.K., 2013, Vitamin E supplementation, superoxide dismutase status, and outcome of scaling and root planing in patients with chronic periodontitis: randomized clinical trial, *Journal of Periodontology*, 1-12.
- Singh, N., P.S. Rajini, P.S., 2008, Antioxidant mediated protective effect of potato peel extract in erythrocytes against oxidative damage, *Chemico-Biological Interactions*, 173: 97-104.
- Škorňa, P., Michalík, M., Klein, E., 2016, Gallic acid: thermodynamics of the homolytic and heterolytic phenolic O—H bonds splitting-off, *Acta Chimica Slovaca*, 9(2): 114-123.
- Sugiarti, H.T., Santik, Y.D.P., 2017, Kejadian periodontitis di kabupaten magelang, *Higeia Journal of Public Health Research and Development*, 1(4): 97-108.
- Syafitri, N.E., Bintang, M., Falah, S., 2014, Kandungan fitokimia, total fenol, dan total flavonoid ekstrak buah harendong (*melastoma affie d. don*), *Current Biochemistry*, 1(3): 105-115
- Tadjoedin, F.M., Fitri, A.H., Kuswandari, S.O., Sulijaya, B., Soeroso, Y., 2017, The correlation between age and periodontal disease, *Journal of International Dental and Medical Research*, 10(2): 328-332.

- Takayangi, H., 2007, Mechanism and crosstalk between the immune and bone systems, *Osteoimmunology*, 7(1):1-8.
- Tjay, T.H., dan Rahardja, K., 2002, *Obat-Obat Penting, Khasiat Penggunaan, dan Efek Sampingnya*, PT Elex Media Komputindo Kelompok Gramedia, Jakarta.
- Tošovic, J., Markovic, S., Markovic, J.M.D., Mojovic, M., Milenkovic, M., 2017, Antioxidative mechanisms in chlorogenic acid, *Food Chemistry*, 237: 390–398.
- Tovani, D.R., 2018, Pengaruh Pemberian Caffeic Acid Phenethyl Ester (CAPE) terhadap Kadar Malondialdehid (MDA) pada Tikus Putih Model Periodontitis, *Skripsi*, Jurusan Kedokteran Gigi, Fakultas Kedokteran, Universitas Jenderal Soedirman, Purwokerto. (Tidak Dipublikasikan).
- Utami, R., Orbayinah, S., 2013, Pengaruh pemberian seduhan teh kelopak bunga hibiscus sabdariffa l. terhadap kadar kolesterol total perokok aktif, *Mutiara Medika*, 13(3): 167-172.
- Vera, B., Dasrul, D., Al-Azhar, Karmil, F., Riady, G., Sabri, 2018, Pengaruh pemberian vitamin E terhadap kadar malondialdehida (MDA) serum tikus putih (*Rattus norvegicus*) diabetes melitus, *Jurnal Ilmiah Mahasiswa Veteriner*, 2(1): 70-76.
- Vincent, R.R., Appukuttan, D., Prakash, P.S.G., Victor, D.J., 2017, Oxidative stress: role in pathogenesis of periodontal disease, *International Journal of Pharmaceutical and Biological Science*, 8(3): 1033-1041.
- Wallner, C., Schira, J., Wagner, J.M., Schulte, M., Fischer, S., Hirsch, T., dkk., 2015, Application of VEGF and FGF-9 enhances angiogenesis, osteogenesis, and bone remodeling in type 2 diabetic long bone regeneration, *Plos One*, 10(3): 1-19.
- Wang, Y., Andrukhov, O., Fan, X.R., 2017, Oxidative stress and antioxidant system in periodontitis, *Frontiers in Physiology*, 8(910): 1-13.
- Werdhasari, A., 2014, Peran antioksidan bagi kesehatan, *Jurnal Biotek Medisiana Indonesia*, 3(2): 59-68.
- Widarta, I.W.R., Arnata, I.W., 2017, Ekstraksi komponen bioaktif daun alpukat dengan bantuan ultrasonik pada berbagai jenis dan konsentrasi pelarut, *AGRITECH*, 37(2): 148-157.
- Winarsi, H., 2007, *Antioksidan alami dan radikal bebas*, Kanisius, Yogyakarta.

- Wiyono, N., Revianti, S., Widyastuti, 2014, Pengaruh pemberian ekstrak daun *Avicennia marina sp.* terhadap penurunan kadar malondialdehida kelenjar parotis tikus periodontitis, *Dental Jurnal Kedokteran Gigi*, 8(2): 166-174.
- Yudaniayanti, I.S., 2005, Aktivitas alkaline phosphatase pada proses kesembuhan patah tulang femur dengan terapi CaCO₃ dosis tinggi pada tikus jantan (*Sprague dawley*), *Media Kedokteran Hewan*, 21(1): 15-18.
- Yustika, A.R., Aulanni'am, Prasetyawan, 2013, Kadar malondialdehid (MDA) dan gambaran histologi pada ginjal tikus putih (*Rattus norvegicus*) pasca induksi *cylosporine-A*, *Kimia Student Journal*, 1(2): 222-228.
- Zhang, F., Geng, Y., Zhao, H., Wang, H., Zhang, Y., Li, D., Bian, B., Yang, H., 2018, Research article effects of huanglian jiedu decoration in rat gingivitis, *Hindawi Evidence-Based Complementary and Alternative Medicine*, 1-7.
- Zheng, Y.Z., Deng, G., Liang, Q., Chen D.F., Guo, R., Lai, R.C., 2017, Antioxidant activity of quercetin and its glucosides from propolis: a theoretical study, *Scientific Reports*, 7(7543): 1-11.
- Zulfa, L., Mustaqimah, D.N., 2011, Terapi periodontal non-bedah, *Dentofasial*, 10(1): 36-41.
- Zulkifli, F., Agustini, S.M., Hasanah, A., 2016, Pengaruh ekstrak biji cokelat (*Theobroma cacao L.*) terhadap kadar malondialdehid (MDA) tikus putih jantan (*Rattus norvegicus strain wistar*) dengan induksi hiperkolesterol, *Fakultas Kedokteran, Universitas Muhammadiyah Malang*, 12(1):7-12.