

## DAFTAR PUSTAKA

- Afidati, Y., Krismariono, A. and Savitri, I., 2019. Inhibition Activity of Water Hyacinth Leaf Extract (*Eichhornia Crassipes*) Against Aggregatibacter Actinomycetemcomitans. *Asian Journal of Pharmaceutical and Clinical Research*, 12(6), pp.122-125.
- Andrade, D., Carvalho, I., Gadoi, B., Rosa, L., Barreto, L. and Pallos, D., 2017. Subgingival Irrigation with a Solution of 20% Propolis Extract as an Adjunct to Non-Surgical Periodontal Treatment: A Preliminary Study. *J Int Acad Periodontol*, 19(4), pp.145-151.
- Arabski, M., Węgierek-Ciuk, A., Czerwonka, G., Lankoff, A. and Kaca, W., 2012. Effects of Saponins against Clinical *E. coli* Strains and Eukaryotic Cell Line. *Journal of Biomedicine and Biotechnology*, 2012, pp.1-6.
- Arthington-Skaggs, B., Lee-Yang, W., Ciblak, M., Frade, J., Brandt, M., Hajjeh, R., Harrison, L., Sofair, A. and Warnock, A., 2002. Comparison of Visual and Spectrophotometric Methods of Broth Microdilution MIC End Point Determination and Evaluation of a Sterol Quantitation Method for In Vitro Susceptibility Testing of Fluconazole and Itraconazole against Trailing and Nontrailing *Candida* Isolates. *Antimicrobial Agents and Chemotherapy*, 46(8), pp.2477-2481.
- Asmare, E., 2017. Current Trend of Water Hyacinth Expansion and Its Consequence on the Fisheries around North Eastern Part of Lake Tana, Ethiopia. *Journal of Biodiversity & Endangered Species*, 05(02).
- Balouiri, M., Sadiki, M. and Ibnsouda, S., 2016. Methods for in vitro evaluating

- antimicrobial activity: A review. *Journal of Pharmaceutical Analysis*, 6(2), pp.71-79.
- Brahmachari, G., 2013. *Chemistry And Pharmacology Of Naturally Occurring Bioactive Compounds*. Boca Raton, Florida: CRC Press, Taylor & Francis group, p.312.
- Chikezie, I., 2017. Determination of minimum inhibitory concentration (MIC) and minimum bactericidal concentration (MBC) using a novel dilution tube method. *African Journal of Microbiology Research*, 11(23), pp.977-980.
- Cushnie, T., Cushnie, B. and Lamb, A., 2014. Alkaloids: An overview of their antibacterial, antibiotic-enhancing and antivirulence activities. *International Journal of Antimicrobial Agents*, 44(5), pp.377-386.
- Cushnie, T. and Lamb, A., 2011. Recent advances in understanding the antibacterial properties of flavonoids. *International Journal of Antimicrobial Agents*, 38(2), pp.99-107.
- Datta, H., Ng, W., Walker, J., Tuck, S. and Varanasi, S., 2008. The cell biology of bone metabolism. *Journal of Clinical Pathology*, 61(5), pp.577-587.
- Dewi, Y., 2016. Efektivitas Jumlah Rumpun Tanaman Eceng Gondok (Eichhornia Crassipes (Mart) Solm) dalam Pengendalian Limbah Cair Domestik. *Jurnal Teknologi Lingkungan*, 13(2), p.151.
- Elvira, K., Fachriyah, E. and Kusrini, D., 2018. Isolation of Flavonoid Compounds from Eceng Gondok (Eichhornia crassipes) and Antioxidant Tests with DPPH (1,1-Diphenyl-2-Picrylhydrazyl) Method. *Jurnal Kimia Sains dan Aplikasi*, 21(4), pp.187-192.

GBD 2016 Disease and Injury Incidence and Prevalence Collaborators. 2017. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990-2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet*, 390(10100), pp. 1211-1259.

Haggag, M., Abou El Ella, S. and Abouziena, H., 2017. Phytochemical Analysis, Antifungal, Antimicrobial Activities and Application of Eichhornia crassipes Against Some Plant Pathogens. *Planta Daninha*, 35.

Hailu, A. and Degaga, E., 2018. Water Hyacinth (Eichhornia crassipes) Biology and its Impacts on Ecosystem, Biodiversity, Economy and Human Well-being. *J Life Sci Biomed*, 8(6), pp.94-100.

Isebe, T., 2016. Phytochemical Composition And Antibacterial Activity Of Eichhornia Crassipes In Lake Victoria, Kisumu. *International Journal Of Scientific & Technology*, 5(9).

Jamur, M. C., and Oliver, C. 2009. Permeabilization of Cell Membranes. *Methods in Molecular Biology*, 63–66.

Jia, L., Han, N., Du, J., Guo, L., Luo, Z. and Liu, Y., 2019. Pathogenesis of Important Virulence Factors of *Porphyromonas gingivalis* via Toll-Like Receptors. *Frontiers in Cellular and Infection Microbiology*, 9.

Joshi, S., More, U. and Kulkarni, V., 2013. Synthesis, antimicrobial and cytotoxic activity of new heterocyclic hybrids based on 2,5-dimethylpyrrole and pyrrole scaffolds. *Indian Journal of Pharmaceutical Sciences*, 75(3), p.310.

Kang, W., Hu, Z. and Ge, S., 2016. Healthy and Inflamed Gingival Fibroblasts Differ

- in Their Inflammatory Response to *Porphyromonas gingivalis* Lipopolysaccharide. *Inflammation*, 39(5), pp.1842-1852.
- Karlina, C., Ibrahim, M. and Trimulyono, G., 2013. Aktivitas Antibakteri Ekstrak Herba Krokot (*Portulaca oleracea* L.) terhadap *Staphylococcus aureus* dan *Escherichia coli*. *Lentera Bio Berkala Ilmiah Biologi*, 2(1), pp.87-93.
- Kementrian Kesehatan Republik Indonesia. 2018. Hasil Utama Riset Kesehatan Dasar 2018. Jakarta: Badan Penelitian dan Pengembangan Kesehatan.
- Khan, M., Ahmed, A., Shin, J., Baek, J., Kim, M. and Kim, J., 2018. Green Tea Seed Isolated Saponins Exerts Antibacterial Effects against Various Strains of Gram Positive and Gram Negative Bacteria, a Comprehensive Study In Vitro and In Vivo. *Evidence-Based Complementary and Alternative Medicine*, 2018, pp.1-12.
- Kiristos, T. G. Kebede, A., Chaithanya, K., and Teka, M. Z. 2018. Evaluation of in vitro antibacterial potential of *Eichhornia crassipes* leaf extracts. *Drug Invention Today*, 10(5), pp. 3824-3831.
- Kotsilkov, K., Emilov, D. and Popova, C. 2009. Subgingival Irrigations With Povidone- Iodine As Adjunctive Treatment Of Chronic Periodontitis. *Journal of IMAB - Annual Proceeding (Scientific Papers)*.
- Kumar, S. and Pandey, A. K. 2013. Chemistry and biological activities of flavonoids: An overview. *The Scientific World Journal*.
- Kurhekar, J. 2016. Tannins – Antimicrobial Chemical Components. *International Journal of Technology and Science*. 9(3), pp.5-9.
- Lalitha, P., Sripathi, S. and Jayanthi, P., 2012. Secondary Metabolites of *Eichhornia crassipes* (Water hyacinth): A Review (1949 to 2011). *Natural Product*

- Communications*, 7(9), pp.1249-1256.
- Lertpimonchai, A., Rattanasiri, S., Arj-Ong Vallibhakara, S., Attia, J. and Thakkinstian, A., 2017. The association between oral hygiene and periodontitis: a systematic review and meta-analysis. *International Dental Journal*, 67(6), pp.332-343.
- Mailoa, M. N., Laga, A., Mahendradatta, M., and Djide, N. 2014. Antimicrobial Activities Of Tannins Extract From Guava Leaves (*Psidium Guajava L*) On Pathogens Microbial. *International Journal of Scientific & Technology Research*, 3(1), pp. 236–241.
- Martínez, C. C., Gómez, M. D. and Oh, M. S. 2017. Use of traditional herbal medicine as an alternative in dental treatment in mexican dentistry: A review. *Pharmaceutical Biology*.
- Meletiadis, J., Leth Mortensen, K., Verweij, P., Mouton, J. and Arendrup, M., 2017. Spectrophotometric reading of EUCAST antifungal susceptibility testing of *Aspergillus fumigatus*. *Clinical Microbiology and Infection*, 23(2), pp.98-103.
- Muthunarayanan, V., Santhiya, M., Swabna, V. and Geetha, A., 2011. Phytodegradation of textile dyes by Water Hyacinth (*Eichhornia Crassipes*) from aqueous dye solutions. *International Journal Of Environmental Sciences*, 1(7), pp.1702-1717.
- Nayak, A., Bhat, K., Shivanaikar, S., Pushpa, P., Kugaji, M., and Kumbar, V. 2018. Detection of red complex organisms in chronic periodontitis by multiplex polymerase chain reaction. *Journal of Advanced Clinical & Research Insights*, 5(5), pp. 139–144.

- Nazir, M. A. 2017. Prevalence of periodontal disease, its association with systemic diseases and prevention. *Int J Health Sci (Qassim)*, 11(2), pp. 72-80.
- Newman, M., Takei, H., Klokkevold, P. and Carranza, F., 2018. *Newman And Carranza's Clinical Periodontology*. 13<sup>th</sup> ed. Philadelphia: Elsevier. Pp. 182, 228, 244, 258, 346-351, 437, 693-698, 1202, 2186.
- Notohartojo, I. T. and Sihombing, M. 2015. Faktor Risiko Pada Penyakit Jaringan Periodontal Gigi Di Indonesia (RISKESDAS 2013). *Buletin Penelitian Sistem Kesehatan*.
- Novaryatiin, S. and Ardhany, S., 2020. Potential Anti-acne: Bawang Dayak (Eleutherine bulbosa (Mill. Urb.) from Central Kalimantan-Indonesia. *Pharmacogn J.*, 12(1), pp.1656-1661.
- Othman, L., Sleiman, A. and Roula, A., 2019. Antimicrobial Activity of Polyphenols and Alkaloids in Middle Eastern Plants. *Front. Microbiol.*, 10(911), p.10.
- Oyebode, O., Kandala, N., Chilton, P.J., and Lilford, R.J. 2016. Use of traditional medicine in middle-income countries: A WHO-SAGE study. *Health Policy and Plan*, 31(8), pp. 984-991.
- Panche, A. N., Diwan, A. D. and Chandra, S. R. 2016. Flavonoids: An overview. *J Nutr Sci*, 5, e47.
- Pandya, D. J., Manohar, B., Mathur, L. K., and Rajesh, S. 2016. Comparative evaluation of two subgingival irrigating solutions in the management of periodontal disease: A clinicomicrobial study. *Journal of Indian Society of Periodontology*, 20(6), pp. 597-602.
- Pfaller, M., Messer, S. and Coffmann, S., 1995. Comparison of visual and

- spectrophotometric methods of MIC endpoint determinations by using broth microdilution methods to test five antifungal agents, including the new triazole D0870. *Journal of clinical microbiology*, 33(5), pp. 1094-1097.
- Rakotoarisoa, T., Waeber, P., Richter, T., and Mantilla-Contreras, J. 2015. Water hyacinth (*Eichhornia crassipes*), any opportunities for the Alaotra wetlands and livelihoods?. *Madagascar Conservation & Development*, 10(3), p. 128.
- Sari, F. P., and Sari, S. M. 2011. Ekstraksi Zat Aktif Antimikroba dari Tanaman Yodium (*Jatropha multifida Linn*) sebagai Bahan Baku Alternatif Antibiotik Alami. *Techincal Report Universitas Diponegoro*, p.6.
- Shaikh, H. F. M., Patil, S.H., Pangam, T.S., and Rathod, K.V. 2018. Polymicrobial Synergy and Dysbiosis: An overview. *J Indian Soc of Periodontol*, 22(2), pp. 101-106.
- Sieniawska, E. 2015. Activities of tannins-From in Vitro studies to clinical trials. *Nat Prod Commun*, 10(11), pp. 1877–1884.
- Tagousop, C. N., Tamokou, J. D., Kengne, I. C., Ngokam, D., and Voutquenne-Nazabadioko, L. 2018. Antimicrobial activities of saponins from *Melanthera elliptica* and their synergistic effects with antibiotics against pathogenic phenotypes. *Chem Cent J*, Springer International Publishing, 12(1), pp. 1–9.
- Thawabteh, A., Juma, S., Bader, M., Karaman, D., Scrano, L., Bufo, S. and Karaman, R., 2019. The Biological Activity of Natural Alkaloids against Herbivores, Cancerous Cells and Pathogens. *Toxins*, 11(11), p. 656.
- Turgeon, M., 2016. *Linné & Ringsrud's Clinical Laboratory Science*. 7th ed. China: Elsevier, p.513.

- Tulika, T. and Mala, A. 2014. Pharmaceutical Potential of Aquatic Plant Pistia stratiotes (L.) and Eichhornia crassipes. *Journal of Plant Sciences*, 3(1-1), p. 10.
- Tulika, T., Puneet, P. and Mala, A. 2017. Qualitative Phytochemical Analysis and Antioxidant Activity of Methonolic Extract of Eichhornia crassipes (Mart.) Solms and Pistia. *International Journal of Pharmacognosy and Phytochemical Research*, 9(5), pp. 632–636.
- Villamagna, A. M. and Murphy, B. R. 2010. Ecological and socio-economic impacts of invasive water hyacinth (Eichhornia crassipes): A review. *Freshwater Biology*, 55(2), pp. 282–298.
- Wali, S. 2019. Efficiency of common water hyacinth (Eichhornia crassipes) in controlling growth of fungal and bacterial clinical strains. *Pure and Applied Biology*, 8(4), pp. 2178–2186.
- Wang, S., Yao, J., Zhou, B., Yang, J., Chaudry, M., Wang, M., Xiao, F., Li, Y. and Yin, W., 2017. Bacteriostatic Effect of Quercetin as an Antibiotic Alternative In Vivo and Its Antibacterial Mechanism In Vitro. *Journal of Food Protection*, 81(1), pp.68-78.
- Wang, T., Li, Q. and Bi, K. 2018. Bioactive flavonoids in medicinal plants: Structure, activity and biological fate. *Asian Journal of Pharmaceutical Sciences*. Elsevier B.V., 13(1), pp. 12–23.
- Yan, S. and Guo, J., 2017. *Water Hyacinth*. 1<sup>st</sup> ed. Boca Raton: CRC press, Taylor & Francis group. Pp. 16-19, 21.