

DAFTAR PUSTAKA

- Adamczyk, J., Chwałowska, M., Gębka, N., Stós, K., Jakubowicz, N., Gabryś-Kwolek, A., dan Rój, R., (2022) The role of flavonoids in the treatment of periodontal diseases-literature review. *Journal of Pre-Clinical & Clinical Research*. 16(4).
- Adawiyah, D. R., (2009) Pengaruh Kopigmentasi Pewarna Alami Antosianin dari Rosela (*Hibiscus sabdariffa* L.) dengan Rosmarinic Acid terhadap Stabilitas Warna pada Model Minuman Ringan. *Instutut Pertanian Bogor*. <http://repository.ipb.ac.id/handle/123456789/60339> (16/12/2023) (Abstr.).
- Bathla, S., (2011) *Periodontics Revisited*. 1st ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. pp. 43-295.
- Bathla, S., (2017) *Textbook of periodontics*. 1st ed. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. pp. 344-449
- Cahyani, E., Putra, A., dan Subchan, P., (2023) Potential Use of the Gel Extract of Butterfly Pea Flower as Topical Therapy to Prevent Photodamage by Downregulating TNF- α and Caspase-3 Expression Levels in UVB-Exposed Rats. *Makara Journal of Health Research*. 27(1): 10.
- Dahiya, P., Kamal, R., Gupta, R., Bhardwaj, R., Chaudhary, K., dan Kaur, S., (2013) Reactive oxygen species in periodontitis. *Journal of Indian Society of Periodontology*. 17(4): 411.
- Deshmukh, J., Jawali, M., dan Kulkarni, V. K., (2011) Host modulation therapy – a promising new concept in treating periodontal diseases. *Int J Dent Clin*. 3.
- Gamage, G. C. V., Lim, Y. Y., dan Choo, W. S., (2021) Anthocyanins from *Clitoria ternatea* flower: Biosynthesis, extraction, stability, antioxidant activity, and applications. *Front. Plant Sci*. 12.
- Graves, D. T., dan Cochran, D., (2003) The contribution of interleukin-1 and tumor necrosis factor to periodontal tissue destruction. *Journal of Periodontology*. 74(3): 391–401.
- Gupta, D., Bhaskar, D. J., Gupta, R. K., Karim, B., Jain, A., Singh, R., dan Karim, W., (2014) A randomized controlled clinical trial of *Ocimum sanctum* and chlorhexidine mouthwash on dental plaque and gingival inflammation. *J Ayurveda Integr Med*. 5(2): 109.
- Handito, D., Basuki, E., Saloko, S., Dwikasari, L. G., dan Triani, E., (2022) Analisis komposisi bunga telang (*Clitoria ternatea*) sebagai antioksidan alami pada produk pangan. *Prosiding SAINTEK*. 4: 64–70.
- Hendrawati, H., Agustha, H. N., dan Sari, R., (2019) Topical application of snail mucin gel enhances the number of osteoblasts in periodontitis rat model. *Dent. J. (Majalah Kedokteran Gigi)*. 52(2): 61–65.
- Hutapea, C. M., Subchan, P., dan Putra, A., (2023) *Clitoria ternatea* Flower Extract-Based Gel Elevates TGF- β 1 Gene Expression and Collagen Density in UVB-

- Induced Collagen Loss Rat Skin. *Jurnal Kedokteran Brawijaya*. 148–153.
- Ionel, A., Lucaciu, O., Moga, M., Buhatel, D., Ilea, A., Tabaran, F., Catoi, C., Berce, C., Toader, S., dan Campian, R. S., (2015) Periodontal disease induced in Wistar rats-experimental study. *Hum and Veter Med*: 7(2): 90–95.
- Jain, P., Ved, A., Dubey, R., Singh, N., Parihar, A. S., dan Maytrejee, R., (2020) Comparative evaluation of serum tumor necrosis factor α in health and chronic periodontitis: A case–control study. *Contem Clin Dent*. 11(4): 342.
- Jelantik, N. P. A. C. R., dan Cahyaningsih, E., (2022) Antioxidant Potential of Telang Flower (*Clitoria ternatea* L.) As an Inhibitor of Hyperpigmentation Ultraviolet Exposure. *Potensi Antioksidan Bunga Telang (Clitoria ternatea L.) Sebagai Penghambat Hiperpigmentasi Akibat Paparan Sinar Ultraviolet*. *Jurnal Ilmiah Farmasi*. 18(1): 45–54.
- Karim, N., dan Asghar, S., (2021) Clinical efficacy of 1% Metformin gel and systemic Doxycyline in Chronic Periodontitis. *J of Liaquat Univ of Medical dan Health Scien*. 20(3): 204–208.
- Karina, V. M., Lastianny, S. P., dan Meiliyanawaty, R., (2021) Differences in effectiveness of Ocimum-Sanctum 4% Gel and 25% Metronidazole gel Post Scaling Root Planing in Chronic Periodontitis. *ODONTO: Dental Journal*. 8(1): 141–146.
- Kazuma, K., Noda, N., dan Suzuki, M., (2003) Flavonoid composition related to petal color in different lines of *Clitoria ternatea*. *Phytochemistry*. 64(6): 1133–1139.
- Kemntrian Kesehatan, (2019) Laporan Nasional RISKESDAS 2018. Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan. 181-220.
- Kim, S. H., dan Choi, K. C. (2013) Anti-cancer effect and underlying mechanism (s) of kaempferol, a phytoestrogen, on the regulation of apoptosis in diverse cancer cell models. *Toxicological research*. 29: 229-234.
- Kozłowska, A., dan Dzierżanowski, T., (2021) Targeting inflammation by anthocyanins as the novel therapeutic potential for chronic diseases: An update. *Molecules*. 26(14): 4380.
- Kuswandani, S. O., Masulili, S. L. C., Soedarsono, N., dan Kemal, Y., (2014) Academic stress influences periodontal health condition and interleukin-1 beta level. *J Dent Indones*. 21(1): 4.
- Kuswandari, F., Sinaga, E., Nurbaiti, N., dan Husni, A., (2022) Analysis of Total Phenols, Total Flavonoids and Anthocyanin Levels in Blue Pea Flowers (*Clitoria ternatea* L) *Journal of Tropical Biodiversity*. 2(3): 152–159.
- Kurniawidjaja, L. M., Lestari, F., Tejamaya, M., dan Ramdhan, D. H., (2021) *Konsep Dasar Toksikologi Industri*. Depok: Fakultas Kesehatan Masyarakat Universitas Indonesia, Februari 2021. pp. 179.
- Layal, K., (2016) Peran Nrf2 Dalam Patogenesis Stres Oksidatif dan Inflamasi pada

- Penyakit Ginjal Kronik. Syifa'MEDIKA: Jurnal Kedokteran Dan Kesehatan, 7(1), 16–24.
- Lusiantari, R., Pramaningtyas, M. D., Nurmasitoh, T., Pattimura, R. H., & Dewanti, A., (2018) Shortening tends to increase aortic foam cell count and wall thickness in male Wistar rats. *Universa Medicina*. 37(1): 13-18.
- Maity, N., Nema, N. K., Sarkar, B. K., dan Mukherjee, P. K., (2012) Standardized *Clitoria ternatea* leaf extract as hyaluronidase, elastase and matrix-metalloproteinase-1 inhibitor. *Indian j of Pharm*. 44(5): 584.
- Mani, A., Saini, R., dan Saini, S. R., (2017) Efficacy of oral probiotics as an adjunct to scaling and root planing in nonsurgical treatment outcome of generalized chronic periodontitis patients: A clinico-microbiological study. *Int J Exp Dent Sci*. 6(1): 6–13.
- Manicone, A. M., dan McGuire, J. K. (2008) Matrix metalloproteinases as modulators of inflammation. *Seminars in Cell dan Developmental Biology*. 19(1): 34–41.
- Marpaung, A. M., (2020) Tinjauan manfaat bunga telang (*Clitoria ternatea l.*) bagi kesehatan manusia. *J of Functnl Food and Nutr*. 63–85.
- Ma'ruf, N. Q., Hotmian, E., Tania, A. D., Antasionasti, I., Fatimawali, dan Tallei, T. E., (2022) In silico analysis of the interactions of *Clitoria ternatea* (L.) bioactive compounds against multiple immunomodulatory receptors. *AIP Conference Proceedings*. 2638(1): 070006.
- Matsuda, S., Movila, A., Suzuki, M., Kajiya, M., Wisitrasameewong, W., Kayal, R., Hirshfeld, J., Al-Dharrab, A., Savitri, I. J., dan Mira, A., (2016) A novel method of sampling gingival crevicular fluid from a mouse model of periodontitis. *J Immunol Methods*. 438: 21–25.
- Mei, F., Xie, M., Huang, X., Long, Y., Lu, X., Wang, X., dan Chen, L., (2020) *Porphyromonas gingivalis* and its systemic impact: Current status. *Pathogens*. 9(11): 944.
- Mirza, M., Karim, N., Kadri, W.B. dan Asghar, S., (2021) Clinical Efficacy of 1% Metformin gel and Systemic Doxycyline in Chronic Periodontitis: A Randomized Clinical Trial. *Journal of Liaquat University of Medical & Health Sciences*. 20(3).
- Muhammad Ezzudin, R., dan Rabeta, M. S., (2018) A potential of telang tree (*Clitoria ternatea*) in human health. *Food Research*. 2(5): 415–420.
- Nair, V., Bang, W. Y., Schreckinger, E., Andarwulan, N., dan Cisneros-Zevallos, L., (2015) Protective role of ternatin anthocyanins and quercetin glycosides from butterfly pea (*Clitoria ternatea* Leguminosae) blue flower petals against lipopolysaccharide (LPS)-induced inflammation in macrophage cells. *J of Agri and Food Chem*, 63(28): 6355–6365.
- Newman, M. G., Takei, H., Klokkevold, P. R., dan Carranza, F. A., (2019) *Newman and Carranza's Clinical periodontology*. 13th ed. Philadelphia: Elsevier Health

Sciences. pp. 62-155.

- Nugraha, A. P., Rahmadhani, D., Puspitaningrum, M. S., Rizqianti, Y., Kharisma, V. D., dan Ernawati, D. S., (2021) Molecular docking of anthocyanins and ternatin in *Clitoria ternatea* as coronavirus disease oral manifestation therapy. *J of Advan Pharmacl Tech dan Research*. 12(4): 362.
- Nuryati, (2017) *Bahan Ajar Rekam Medis dan Informasi Kesehatan Farmakologi*. Kementrian Kesehatan Republik Indonesia. pp.1-307.
- Oguis, G. K., Gilding, E. K., Jackson, M. A., dan Craik, D. J., (2019) Butterfly pea (*Clitoria ternatea*), a cyclotide-bearing plant with applications in agriculture and medicine. *Front. Plant Sci*. 10, 645.
- Olekshij, P., (2021) Characteristics of cytokine status in the pathogenesis of experimental periodontitis and immobilization stress. *Journal of Education, Health and Sport*. 11(8): 504-509.
- Oz, H. S., dan Puleo, D. A., (2011) Animal models for periodontal disease. *J of Biomed and Biotech*.
- Rahayu, Y. C., Dharmayanti, A. W. S., Putri, Y. E., dan Irmawati, A., (2020) The analysis of proanthocyanidins cacao peel extract (*Theobroma cacao* L.) potential on the expression of tnf- α and cox-2 on periodontitis rat. *International Journal of Pharmaceutical Research*. 12(4).
- Rajendran, P., Rengarajan, T., Nandakumar, N., Palaniswami, R., Nishigaki, Y. and Nishigaki, I., (2014) Kaempferol, a potential cytostatic and cure for inflammatory disorders. *European journal of medicinal chemistry*. pp.103-112.
- Ramalingam, D. K., dan Peeran, S., (2021) *Essentials of Periodontics and Oral Implantology*. Tamil Nadu: Saranraj JPS Publication. pp. 2-19.
- Reddy S., (2011) *Essentials Of Clinical Periodontology And Periodontics*. 3rd ed. India: Jaypee Brothers Co. pp. 266-289.
- Rifqi, M., (2021) Ekstraksi Antosianin Pada Bunga Telang (*Clitoria Ternatea* L.): Sebuah Ulasan. *Pasundan Food Technology Journal*. 8(2): 45–50.
- Sadeghi, R., Semyari, H., Mirzaei, A., Sheikhnezhad, H., Shanei, F., dan Zohri, Z., (2017) The Effects of Diode Laser as an Adjunct to Scaling and Root Planing on Treatment of Chronic Periodontitis: A Review of the literature. *J of Research in Dent and Maxillof Scien*. 2(2): 8–15.
- Struillou, X., Boutigny, H., Soueidan, A., dan Layrolle, P., (2010) Experimental animal models in periodontology: a review. *The Open Dent j*. 4: 37.
- Suarna, I. W., dan Wijaya, I. M. S., (2021) Butterfly pea (*Clitoria ternatea* L.: Fabaceae) and its morphological variations in Bali. *Journal of Tropical Biodiversity and Biotechnology*. 6(2): 63013.
- Subchan, P., Putri, R. S., Magdalena, C., dan Hidayah, N., (2022) Ekstrak Bunga Telang (*Clitoria ternatea* L.) Menghambat Peningkatan Ekspresi Gen MMP-

1 pada Kulit Tikus Wistar yang Terpapar Sinar Ultraviolet B. JMHS: J of Midw and Heal Scien of Sultan Agung. 1(2): 13–21.

Thahir, H., Irawaty Djais, A., Nasir, M., Rahayu Feblina, A., Annisa, A., Etriyani, N., dan Achmad, H., (2022) Virgin coconut oil as a new concept for periodontal tissue regeneration via expressions of TNF- α and TGF- β 1. *International Journal of Biomaterials*.

Tjandra, A., Murdiastuti, K., Soesilowati, A. S. K., dan Yuniawati, F. (2022) The difference in scaling root-planing results between addition of photodynamic therapy and application of metronidazole gel of 25% in chronic periodontitis treatment. *Dent. J. (Majalah Kedokteran Gigi)* 7(3): 125.

Widyarman, A. S., Sumadi, S., dan Agustin, T. P., (2018) Antibiofilm effect of *Clitoria ternatea* flower juice on *Porphyromonas gingivalis* in vitro. *J of Ina Dent Assoc.* 1(1).

Wulandari, P., (2015) Terapi Modulasi Host: Sebagai Salah Satu Terapi Periodontal. *Prosiding Profil XI.* 348–354.

Yin, L., Li, X., dan Hou, J., (2022) Macrophages in periodontitis: A dynamic shift between tissue destruction and repair. *Japanese Dental Science Review.* 58: 336-347.

Zhang, X., Zhu, X., dan Sun, W. (2021) Association between tumor necrosis factor- α (G-308A) polymorphism and chronic periodontitis, aggressive periodontitis, and peri-implantitis: a meta-analysis. *Journal of Evidence Based Dental Practice.* 21(3): 101528.

Zhang, J. M., dan An, J., (2007) Cytokines, inflammation and pain. *International anesthesiology clinics.* 45(2), 27.