

## DAFTAR PUSTAKA

- Aguirre, D.B., 2017, *Ultrasound Advances in food processing and preservation*, Elsevier, London, 316.
- Agustina, R., Pertiwi, A. D., Atikah, N., 2019, Efektifitas Salep Daun Sirih Hijau (*Piper Betle* L.) terhadap luka sayat Mencit (*MusMusculus*). *PTM*, 3(1): 8-16.
- Ain, N.J., Diyana, A., Hazirah, N., Fathiah, N., Fairu, A., Teoh, S.L., Anum, Y., 2018, The Effect of *Piper betle* on Wound Healing in Male Sprague Dawley Rats, *Med & Health*, 13(1): 165-174.
- Alam, B., Akter, F., Parvin, N., Pia, R. S., Akter, S., Chowdhury, J., Jahan, K.S.E., Haque, E., 2013, Antioxidant, analgesic and anti-inflammatory activities of the methanolic extract of *Piper betle* leaves. *AJP*, 3(2): 112-125.
- Ali, A., Lim, X.Y., Wahida, P.F., 2018, The fundamental study of antimicrobial activity of *Piper betle* extract in commercial toothpastes. *J. Herbal Medicine*, 14: 29-34.
- Almasyhuri, Sundari, D., 2018, Uji Aktivitas Antiseptik Ekstrak Etanol Daun Sirih (*Piper betle* Linn.) dalam Obat Kumur terhadap *Staphylococcus aureus* secara in Vitro, *JKI*, 9(1): 10-18.
- American Dental Association, 2022, Dental Unit Waterlines Key Points, <https://www.ada.org/resources/research/science-and-researchinstitute/oral-health-topics/dental-unit-waterlines>, diakses pada 1 Mei 2022 pukul 15.23
- Andriani, I., Chairunnisa, F.A., 2012, Efektivitas Antara *Scaling Root Planing* (SRP) dengan dan Tanpa Pemberian Ciprofloxacin Per Oral Pada Penderita Periodontitis, *IDJ*, 1(2): 81-88.
- Anuradha, B.R., Bai, Y.D., Sailaja, S., Sudhakar, J., Priyanka, M., Deepika, V., 2015, Evaluation of anti-inflammatory effects of curcumin gel as an adjunct to scaling and root planing: a clinical study, *JIOH*, 7(7): 90-93.
- Atiya, A., Sinha, B.N., Lal, U.R., 2020, The new ether derivative of phenylpropanoid and bioactivity was investigated from the leaves of *Piper betle* L. *Natural Product Research*, 34(5): 638-645.
- Bare, Y., Kuki, A.D., Rophi, A.H., Krisnamurti, G.C., Lorenza, M R.W.G., Sari, D.R.T., 2019, Prediksi Asam Kuinat sebagai Anti-inflamasi terhadap COX-2 secara Virtual. *Biota*, 4(3): 124-129.
- Bowen, D.M., Pieren, J.A., 2020, *Darby and Walsh Dental Hygiene: Theory and Practice* 5<sup>th</sup> edition, Elsevier, Canada, 460-470.
- Bramanti, I., Purwono, S., 2013, The acceleration of garlic (*Allium sativum* L) ethanolic extract on gingival wound healing process in Wistar rats, *J Med Sci*, 45(2): 51-60.

- Brand, H. S., Ligtenberg, A.J., Veerman, E.C., 2014, Saliva and wound healing, *Monogr Oral Sci. Basel*, 24: 52-60.
- Budhiraja, M., Zafar, S., Akhter, S., Alrobaian, M., Rashid, M. A., Barkat, M., Ahmad, F. J., 2022, Mupirocin-Loaded Chitosan Microspheres Embedded in Piper betle Extract Containing Collagen Scaffold Accelerate Wound Healing Activity. *AAPS PharmSciTech*, 23(3): 1-14.
- Carolia, N., Noventi, W. (2016). Potensi ekstrak daun sirih hijau (*Piper Betle* L.) sebagai alternatif terapi Acne vulgaris, *Majority*, 5(1): 140-145.
- Chattopadhyay, K., 2018, Mechanism of Action and Phytochemicals of Some Potential Analgesic Agents from Indian Natural Product: A Review, *IJPSI*, 7(4):1-5.
- Cekici, A., Kantarci, A., Hasturk, H., Van Dyke, T.E., 2014, Inflammatory and immune pathways in the pathogenesis of periodontal disease, *Periodontology 2000*, 64(1): 57-80.
- Cope, G., Cope, A., 2011, Gingivitis: symptoms, causes and treatment. *Dental Nursing*, 7(8): 436-439.
- Cosyn, J., Miremadi, S.R., Sabzevar, M.M. De Bruyn, H., 2013, Clinical effects of an essential oil solution used as a coolant during ultrasonic root debridement, *Int J Dent Hygiene*, 11(1): 62-68.
- Damanik, S., Silalahi, J., 2011, Kebutuhan Perawatan Penyakit Periodontal Dan Perilaku Pemeliharaan Gigi Pada Masyarakat Di Kecamatan Pangururan Samosir. *Dentika*, 16(2): 154-154.
- Darmawan, A., Yusuf, S., Tahir, T., Syahriyani, S., 2021, Betel Leaf Extract Efficacy on Wound Healing: A Systematic review. *STRADA*, 10(1): 526-536.
- De, S., Manna, A., Kundu, S., De Sarkar, S., Chatterjee, U., Sen, T., Chatterjee, M., 2017, Allylpyrocatechol attenuates collagen-induced arthritis via attenuation of oxidative stress secondary to modulation of the MAPK, JAK/STAT, and Nrf2/HO-1 pathways. *J Pharmacol Ex Ther*, 360(2): 249-259.
- Deas, D. E., Moritz, A. J., Sagun Jr, R. S., Gruwell, S. F., Powell, C. A., 2016, Scaling and root planing vs. conservative surgery in the treatment of chronic periodontitis, *Periodontology 2000*, 71(1): 128-139.
- Deriaty, T., Nasution, I., Yusuf, M., 2018, Nickel ion release from stainless steel brackets in chlorhexidine and Piper betle Linn mouthwash. *Dent J.*, 51(1): 5-9.
- Deshpande, S. N., Kadam, D. G., 2013, GCMS analysis and antibacterial activity of Piper betle (Linn) leaves against *Streptococcus mutans*. *Asian J Pharm Clin Res*, 6(5): 99-101.

- Dewi, P.S., 2018, Efektivitas ekstrak lidah buaya terhadap jumlah sel fibroblast pada proses penyembuhan luka insisi marmut, *Intisari Sains Medis*, 9(3): 51-54.
- Dewi, S. R. P., Fatonah, A., 2019, The effect of betel quid extract on wound healing process in male wistar rats (*Rattus norvegicus* L.). *AJAS*, 7(6):788-797.
- Diah, Widodorini, T., Nugraheni, N. E., 2018, Perbedaan Angka Kejadian Gingivitis antara Usia Pra-Pubertas dan Pubertas di Kota Malang, *E-Prodenta*, 2(1): 108–115.
- Do Vale, H.F., Casarin, R.C.V., Taiete, T., Ambrosano, G.M.B., Ruiz, K.G.S., Nociti, F.H., Sallum, E.A., Casati, M.Z., 2016, Full-mouth ultrasonic debridement associated with povidone iodine rinsing in GAgP treatment: A randomised clinical trial. *Clin Oral Invest.*, 20(1):141-150.
- Dwianggraini, R., Pujiastuti, P., Ermawati, T., 2013, Perbedaan Efektivitas Antibakteri Antara Ekstrak Daun Sirih Merah (*Piper crocatum*) Dan Ekstrak Daun Sirih Hijau (*Piper Betle* L.) Terhadap *Porphyromonas gingivalis*, *Stomatognatic*, 10(1): 1-5.
- Dwivedi, V., Tripathi, S., 2014, Review study on potential activity of Piper betle. *J Pharmacogn Phytochem*, 3(4): 93-98.
- Fatmawati, S., Shimizu, K., 2019, Anti-oxidant and aldose reductase inhibitory activity of Piper betle extracts: biological activity of Piper betle extracts. *Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences*, 56(3): 75-82.
- Fannani, M. Z., Nugroho, T., 2014, Pengaruh Salep Ekstrak Etanol Daun Sirih (*Piper betle*) terhadap Penyembuhan Luka Iris pada Tikus Putih Jantan (*Rattus norvegicus*). *JKKI*, 6(1): 20-27.
- Fitri, H., Fajrin, F. N., Kasuma, N., Suharti, N., 2019, Efek Pemberian Zink Pasca Scaling Root Planing Terhadap Kadar MMP-8 Saliva pada Pasien Gingivitis. *B-Dent.*, 6(2): 132-141.
- Fu, S.L., Kintawati, S. Tjahajawati, S., 2014, The difference of salivary pH before and after toothbrushing with toothpaste containing Betel leaf (*Piper Betle*). *Padjadjaran Journal of Dentistry*, 26(3): 203-206.
- George, M.D., Donley, T.G., Preshaw, P.M., 2014, *Ultrasonic Periodontal Debridement*, Wiley and sons Inc., United Kingdom, 103-105.
- Ghazali, N.A., Elmy, A., Yuen, L.C., Sani, N.Z., Das, S., Suhaimi, F., Thent, Z.C., 2016, Piper betel leaves induces wound healing activity via proliferation of fibroblasts and reducing 11 $\beta$  hydroxysteroid dehydrogenase-1 expression in diabetic rat, *Journal of Ayurveda and Integrative Medicine*, 7(4): 198-208.
- Hasan, A., Palmer, R.M., 2014. A clinical guide to periodontology: Pathology of periodontal disease, *BDJ*, 216(8): 457-461.

- Hasim, H., Arifin, Y.Y., Andrianto, D., Faridah, D.N., 2019, Ekstrak Etanol Daun Belimbing Wuluh (*Averrhoa bilimbi*) sebagai Antioksidan dan Antiinflamasi. *Jurnal Aplikasi Teknologi Pangan*, 8(3): 86-93.
- Haslan, H., Suhaimi, F.H., Thent, Z.C., Das, S., 2015, The underlying mechanism of action for various medicinal properties of Piper betle (betel). *Clin Ter*, 166(5): 208-214.
- Hoque, M.M., Rattila, S., Shishir, M.A., Bari, M.L., Inatsu, Y., Kawamoto, S., 2011, Antibacterial activity of ethanol extract of betel leaf (*Piper Betle* L.) against some food borne pathogens. *Bangladesh J Microbiol*, 28(2): 58-63.
- Ibiyemi, O., Taiwo, J.O., Oke, G.A., 2012, Improvised source of water coolant for ultrasonic scaler: an appropriate technology in underserved communities. *RRH*, 12(4): 1-7.
- iM3 Inc, 2008, *Dental System Operating Manual im3 elite*, iM3 Pty Ltd, Australia, 7.
- Jawade, R., Bhandari, V., Ugale, G., Taru, S., Khaparde, S., Kulkarni, A., Ardale, M., Shraddha, M., 2016, Comparative evaluation of two different ultrasonic liquid coolants on dental aerosols, *JCDR*, 10(7): 53–57.
- Johnson, I.G., Jones, R.J., Gallagher, J.E., Wade, W.G., Al-Yaseen, W., Robertson, M., McGregor, S., Sukriti, K.C., Harris, R., 2021, Dental periodontal procedures: a systematic review of contamination (splatter, droplets and aerosol) in relation to COVID-19. *BDJ open*, 7(1): 1-7.
- Kamath, D.G., Nayak, S.U., 2014, Detection, removal and prevention of calculus: Literature Review. *Saudi Dental Journal*, 26(1): 7-13.
- Kementrian Kesehatan Republik Indonesia, 2018, *Laporan Nasional Riskesdas 2018*, Jakarta, Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan, 204 dan 211.
- Kessler, S., Lasserre, J., Toma, S., 2021, Evaluation of multiple subgingival irrigations with 10% povidone-iodine after scaling and root planing: A randomized clinical trial. *Quintessence Int*, 52: 496-504.
- Kinane, D.F.; Mombelli, A., 2011, Modern Approaches to Non-Surgical Biofilm Management. *Front Oral Biol*, 15: 99–116.
- Kinane, D.F., Stathopoulou, P.G., Papapanou, P.N., 2017, Periodontal diseases, *Nature Reviews Disease Primers*, 3(1):1-14.
- Krishna, U., Nayak, R.P., Chaitra, S.R. Evaluation of antianxiety properties of Piper Betle L. leaf extracts on swiss albino mice, *IJJP*, 7(4): 256-261.
- Kurnia, D., Hutabarat, G. S., Windaryanti, D., Herlina, T., Herdiyati, Y., Satari, M.H., 2020, Potential Allylpyrocatechol Derivatives as Antibacterial Agent Against Oral Pathogen of *S. sanguinis* ATCC 10,556 and as Inhibitor of MurA Enzymes: in vitro and in silico Study. *Drug Design, Development and Therapy*, 14, 2977-2985.

- Kurniawan, D., 2019, Efek Antibakteri Kombinasi Ekstrak Metanolik atau Dekokta Daun Sirsak (*Annona muricata* L) dengan Amoksisilin Pada Bakteri *Staphylococcus aureus* atau *Escherichia coli* secara In Vitro, *Jurnal Bio Komplementer Medicine*, 6(3): 262-271.
- Lien, L. T., Tho, N. T., Ha, D. M., Hang, P. L., Nghia, P. T., Thang, N. D., 2015, Influence of phytochemicals in piper betle linn leaf extract on wound healing. *Burns & Trauma*, 3(23): 1-8.
- Lutfioğlu, M., Aydoğdu, A., Atabay, V.E., Sakallioğlu, E.E., Avci, B., 2017, Gingival crevicular fluid oxidative stress level in patients with periodontal disease and hyperlipidemia, *Braz. Oral Res.*, 31(110): 1-10.
- Madhumita, M., Guha, P., Nag, A., 2020, Bio-actives of betel leaf (*Piper betle* L.): A comprehensive review on extraction, isolation, characterization, and biological activity. *Phytotherapy Research*, 34(10): 2609-2627.
- Mardiyantoro, F., Munika, K., Sutanti, V., Cahyati, M., Pratiwi, A.R., 2018, *Penyembuhan Luka Rongga Mulut*, UB Press, Malang, 5-11.
- Murugesan, S., Ravichandran, D., Lakshmanan, D. K., Ravichandran, G., Arumugam, V., Raju, K., Thilagar, S., 2020, Evaluation of anti rheumatic activity of *Piper Betle* L.(Betelvine) extract using in silico, in vitro and in vivo a roaches. *Bioorganic Chemistry*, 103: 1-12.
- Mustaqimah, D. N., Hannisa, M., 2018, Discoloration Of Tooth Enamel due to Betel Leaf Extract (*Piper betle* Linn). *Dentika*, 21(1): 10-14.
- Nayaka, N.M.D.M.W., Sasadara, M.M.V., Sanjaya, D.A., Yuda, P.E.S.K., Dewi, N.L.K.A.A., Cahyaningsih, E., Hartati, R., 2021, *Piper betle* (L): Recent review of antibacterial and antifungal properties, safety profiles, and commercial applications, *Molecules*, 26(8): 1-21.
- Newman G. M., Takei, H. H., Klokkevold, P. R., Carranza, F. A., 2013, *Carranza's Clinical Periodontology*, 12<sup>th</sup> Ed., Elsevier Saunders, Missouri, 1039, 1041, 1542.
- Nguyen, L.T.T., Nguyen, T.T., Nguyen, H.N., Bui, Q.T.P., 2020, Simultaneous determination of active compounds in *Piper betle* Linn. leaf extract and effect of extracting solvents on bioactivity. *Engineering Reports*, 2(10): 1-8
- Okonogi, S., Phumat, P., Khongkhunthian, S., Suttiat, K., Chaijareenont, P., 2021, Denture-soaking solution containing piper betle extract-loaded polymeric micelles; inhibition of candida albicans, clinical study, and effects on denture base resin. *Antibiotics*, 10(4): 1-15.
- Oktanauli, P., Andiani, R. M., 2016, Effect of *Piper Betle* L. Leaves Extract In The Formation of Dental Plaque: Literature Review. *Dentisphere*, 17-24
- Owu, N. M., Jayanti, M., 2020, Uji Efektivitas Penghambatan Dari Ekstrak Daun Sirih (*Piper Betle* L.) Terhadap Bakteri *Streptococcus mutans*. *Jurnal Biomedik: JBM*, 12(3): 145-152.



- Palumpun, E.F., Wiraguna, A.A., Pangkahila, W., 2017, Pemberian ekstrak daun sirih (*Piper betle*) secara topikal meningkatkan ketebalan epidermis, jumlah fibroblas, dan jumlah kolagen dalam proses penyembuhan luka pada tikus jantan galur Wistar (*Rattus norvegicus*). *eBiomedik*, 5(1): 1-7.
- Pambayun, R., Putri, R., Santoso, B., Widowati, T.W., Dewi, S.R.P., 2019, Anti-Inflammatory Effect Of Betel Quid On Mucosal Wound Of Male Wistar (*Rattus Novergicus*) Rats, *Int J A Pharm*, 11(4): 79-83.
- Pardeshi, P., Jadhav, V., Shetty, P., Yadav, S., Hajare, A., Chouhan, S., Author, J.T., 2018, Comparative evaluation of pomegranate juice and chlorhexidine gluconate as ultrasonic coolants on dental aerosol: a randomized control clinical and microbial trial, *IJSR*, 10(12): 75965-75970.
- Phumat, P., Khongkhunthian, S., Wanachantararak, P., Okonogi, S., 2020, Comparative inhibitory effects of 4-allylpyrocatechol isolated from *Piper betle* on *Streptococcus intermedius*, *Streptococcus mutans*, and *Candida albicans*. *Archives of oral biology*, 113: 1-10.
- Poojary, B., Shettar, L., Trivedi, D.J., Bhat, K.G., Setty, S., Thakur, S.L., 2018, *Piper Betle* L. as anti-inflammatory Agent, *IJRSFP*, 9(6): 27432-27436.
- Pradhan, D., Suri, K. A., Pradhan, D. K., Biswasroy, P., 2013, Golden heart of the nature: *Piper Betle* L. *Journal of Pharmacognosy and Phytochemistry*, 1(6): 147-167.
- Pramana, K.A., Darsono, L., Evacuasiany, E., Slamet, S., Ekstrak Daun Sirih Hijau (*Piper Betle* L.) dalam Mempercepat Penyembuhan Luka, *GMHC*, 2(2): 49-54.
- Pranata, N., 2019, Dental Calculus as The Unique Calcified Oral Ecosystem A Review Article, *Oceana Biomedicina Journal*, 2(2): 52-65.
- Prasetya, R.C., Purwanti, N., Haniastuti, T., 2014, Infiltrasi Neutrofil pada Tikus dengan Periodontitis setelah Pemberian Ekstrak Etanolik Kulit Manggis, *Maj Ked Gi*, 21(1): 33-38.
- Rahim, Z.H.A. Thuraiajah, N., 2011, Scanning electron microscopic study of *Piper Betle* L. leaves extract effect against *Streptococcus mutans* ATCC 25175, *J A l Oral Sci.*, 19(2): 137-146.
- Rao, J.J., 2017, *BDS 4<sup>th</sup> Year 2<sup>nd</sup> Edition*, Elsevier, New Delhi, 951-952.
- Reddy, S., 2011, *Essentials of Clinical Periodontology and Periodontics*, Jaypee Brothers Medical Publishers, New Delhi, 283.
- Rintu, D., Shinjini, M., Kaustab, M., Pramathadhip, P., Umesh, P.S., Banerjee, E.R., 2015, Anti-oxidant and anti-inflammatory activities of different varieties of *Piper* leaf extracts (*Piper Betle* L.), *Nutr. Food Sci*, 5(5): 1-15.
- Rusminah, N., Rusyanti, Y., Susanto, A., Rini, T. C., 2020, The Effect of Green Betle Leaf Gel (*Piper Betle* Leaf) to Total Antioxidant Capacity (TAC)

Level after Scaling and Root Planing (SRP) Treatment, *Key Engineering Materials*, 829: 220-225.

- Sahrmann, P., Manz, A., Attin, T., Zbinden, R., Schmidlin, P. R., 2015, Effect of a lication of a PVP-iodine solution before and during subgingival ultrasonic instrumentation on post-treatment bacteraemia: a randomized single-centre placebo-controlled clinical trial. *J ClinPeriodontol*, 42(7): 632-639.
- Saini, S., Nanda, S., Dhiman, A., 2018, Mechanistic A roach to the Pharmacological Status of a Phenolic Biomarker: Hydroxychavicol, *ASPS*, 2(12): 27-34.
- Sammartino, G., Tia, M., Tete, S., Perillo, L., Trosino, O., 2012, Adverse reaction to irrigation with povidone-iodine after deep-impacted, lower third molar extraction. *J biological regul homeost agents*, 26(1): 145-149.
- Sartika, D., Sinrang, W., Yulianty, R., Sakinah, S., 2020, Efektifitas Pemberian Salep Ekstrak Daun Sirih (*Piper betle* Linn.) Terhadap Epitelisasi Pada Tikus Wistar Dengan Model Perlukaan Akut, *Jurnal Penelitian Kesehatan Suara Forikes*, 11: 121-125.
- Seneviratne, C.J., Zhang, C.F., Samaranayake, L.P., 2011, Dental plaque biofilm in oral health and disease, *Chin J Dent Res.*, 14(2): 87-94.
- Sethi, K.S., Marnajiwala, A., Mahale, S., Raut, C.P., Karde, P., 2019, Comparative evaluation of the chlorhexidine and cinnamon extract as ultrasonic coolant for reduction of bacterial load in dental aerosols, *J Indian Soc Periodontol*, 23(3): 226-233.
- Setiari, N. M. N., Ristiati, N. P., Warpala, I. S., 2019, Aktivitas Antifungi Kombinasi Ekstrak Daun Sirih (*Piper betle*) dan Ekstrak Kulit Buah Jeruk (*Citrus reticulata*) Untuk Menghambat Pertumbuhan *Candida Albicans*, *Jurnal Pendidikan Biologi Undiksha*, 6(2): 72-82.
- Shah, S. K., Garg, G., Jhade, D., Patel, N., 2016, *Piper betle*: phytochemical, pharmacological and nutritional value in health management. *Int J Pharm Sci Rev Res*, 38(2): 181-9.
- Shetty SK, Sharath K, Shenoy S, Sreekumar C, Shetty RN, Biju T., 2013, Compare the Efficacy of Two Commercially Available Mouthrinses in reducing Viable Bacterial Count in Dental Aerosol produced during Ultrasonic Scaling when used as a Preprocedural Rinse. *J Contemp Dent Pract*, 14(5): 848-851.
- Sinulingga, S., Subandrate, S., Kesumaputri, B.A., Anggraini, G., 2017, Hemostatic effect of ethanol extract of *Piper betle*, Linn leaves to male mice. *Molecules*, 12(1): 23-29.
- Sukkarwalla, A., Ali, S.M., Lundberg, P., Tanwir, F., 2013, Efficacy of miswak on oral pathogens, *DRJ*, 10(3): 314-320.
- Sundaram, G., Theagarajan, R., Murthy, G. D., Kanimozhi, G., 2021, Effect of

piper extract mouthwash as postprocedural rinse on levels of *Porphyromonas gingivalis* in periodontitis patients, *J Ind soc Periodontol*, 25(5): 418-421.

- Syahidah, A., Saad, C.R., Hassan, M.D., Rukayadi, Y., Noraizian, M.H., Kamarudin, M.S., 2017, Phytochemical Analysis, Identification and Quantification of Antibacterial Active Compounds in Betel Leaves, *Piper betle* Metanolic Extract, *Pak. J. Biol. Sci.*, 20(2): 70-81.
- Tan, Y.P., Chan, E.W.C., 2014, Antioxidant, antityrosinase and antibacterial properties of fresh and processed leaves of *Anacardium occidentale* and *Piper betle*. *Food Bioscience*, 6: 17-23.
- Teanpaisan, R., Kawsud, P., Pahumunto, N., Puripattanavong, J., 2017. Screening for antibacterial and antibiofilm activity in Thai medicinal plant extracts against oral microorganisms. *JTCM*, 7(2): 172-177.
- Tedjasulaksana, R., Nahak, M. M., dan Larasati, R., 2017, Effectivity of betel leaf (*Piper Betle* L.) gel extract in shortening bleeding time after deciduous tooth extraction, *Bali Med J*, 6(1): 31-33.
- Thị, C. H. C., Nguyễn, H. Đ., Lê Hoàng, D. M., 2021, Influence of *Piper betle* L. extract on umbilical cord cells in vitro and potential treating cutaneous wound. *Heliyon*, 7(3): 1-8.
- Tumer, H., Berberoglu, A., Caygur, A., Yilmaz, H.G., 2019, Clinical Evaluation of Chlorhexidine and Essential Oils' Adjunctive Effects in Subgingival Ultrasonic Instrumentation on Periodontal Parameters and Halitosis. *JEOBP*, 22(1): 169-175.
- Varshitha, A., Jacob, C. A., Danalakshmi, J., 2020, Dimensional analysis of furcal entrances in extracted permanent maxillary molars, *IJSDR* 5(1): 178-183.
- Velden, V.D., Koster, U.T.J., Feilzer, A.J., Timmerman, M.F., Van der Weijden, G.A., 2015, In vitro evaluation of temperature changes in the root canal induced by ultrasonic scalers. *Int J Dent Hygiene*, 13(2): 132-137.
- Vyas, N., Pecheva, E., Dehghani, H., Sammons, R.L., Wang, Q.X., Leinen, D.M., Walmsley, A.D., 2016. High speed imaging of cavitation around dental ultrasonic scaler tips. *PloS one*, 11(3): 1-12.
- Wang, Y., Zeng, J., Yuan, Q., Luan, Q., 2021, Efficacy of (–)-epigallocatechin gallate delivered by a new-type scaler tip during scaling and root planing on chronic periodontitis: a split-mouth, randomized clinical trial, *BMC oral health*, 21(1): 1-10.
- Widiyastuti, Y., Haryanti, S., Subositi, D., 2016, Karakterisasi Morfologi dan Kandungan Minyak Atsiri Beberapa Jenis Sirih (*Piper sp.*), *Proceeding of Mulawarman Pharmaceuticals Conferences*, 3: 474-481.



- Yilmaz, H.G., Bayindir, H., 2012, Clinical evaluation of chlorhexidine and essential oils for adjunctive effects in ultrasonic instrumentation of furcation involvements: a randomized controlled clinical trial, *Int J Dent Hygiene*, 10(2): 113-117.
- Zar'ah, N.A., Syachruddin, S., Kusmiyati, K., 2021, The Effect of Green Betel Leaves (*Piper Betle* L.) Extract on Wounding Healing in Mice (*Mus musculus* L.), *Jurnal Biologi Tropis*, 21(1): 103-111.
- Zarandi, A., Poor, Y.M., Mehr, A.K., 2016, Comparing Effectiveness of Two Scaling Methods: Hand and Ultrasonic Instruments in Patients with Periodontitis Disease *IJDSR*, 4(4): 76-78.