



Daftar Pustaka

- Abhary, M. and Al-Hazmi, A.-A., 2016, Antibacterial activity of Miswak (*Salvadora persica* L.) extracts on oral hygiene, *J.Taibah Univ. Sci.*, 10(4):513–520.
- Adzakiyah, T., Lipoeto, I., Kasuma, N., 2015, Pengaruh Berkumur dengan Larutan Ekstrak Siwak (*Salvadora persica*) Terhadap pH Saliva Rongga Mulut, *Jurnal Sains Farmasi & Klinis*, 2(1), 74-77.
- Aguirre, D.B., 2017, *Ultrasound Advances in food processing and preservation*, Elsevier, London, 316.
- Albabtain, R. Ibrahim, L. Bhangra, S. Rosengren, A. Gustafsson, A., 2018, Chemical effects of chewing sticks made of *Salvadora persica*. *Int J Dent Hygiene*, 1–6.
- Al-harthi, L. S. Cullinan ,M.P. Leichter,J.W.Thomson,W.M., 2013, Periodontitis among adult populations in the Arab World Periodontitis among adult populations in the Arab World.
- American Dental Association, 2022, Dental Unit Waterlines Key Points, https://www.ada.org/resources/practice/legal-and-regulatory/04_dental-unit-water-lines, diakses pada 15 September 2022 pukul 12.30
- Aumeeruddy, M. Z. Zengin G. Mahomoodally, M. F., 2018, A review of traditional and modern uses of *Salvadora persica* L. (Miswak): Toothbrush tree of Prophet Muhammad. *J. Etnofarmakol*, 213 :409–444
- Anonim, (2014) *Periodontal Scaling and Root Planing Policy*, United States: American Dental Association, 1.
- Bathla, S., 2017, *Textbook of Periodontics*, 1st ed., New Delhi: Jaypee The Health Sciences Publisher, 3-4, 12.
- Bostancı, N., dan Belibasakis, G, 2018, *Pathogenesis of periodontal diseases*, Springer, Cham, 5.
- Bowen, D.M., dan Pieren, J.A., 2020, Darby and Walsh Dental Hygiene: Theory and Practice 5th edition, Elsevier, Canada, 321, 460-470.
- Chairunnisa, S., Wartini, N. M., Suhendra, L., (2019) Pengaruh Suhu dan Waktu Maserasi terhadap Karakteristik Ekstrak Daun Bidara (*Ziziphus mauritiana* L.) sebagai Sumber Saponin, *JRMA*, 7(4):551-560.
- Cushnie, T. P. T., Cushnie, B., Lamb, A. J., 2014, Alkaloids: An overview of their antibacterial, antibiotic-enhancing and antivirulence activities, *Int. J. Antimicrob. Agents*, 44(1):377-386.
- Cope, G. and Cope, A., 2013, Gingivitis: symptoms, causes and treatment, *Dental Nursing*, 7(8):436–439.



- Cosyn, J. and Bruyn, H. De, 2012, Clinical effects of an essential oil solution used as a coolant during ultrasonic root debridement, *Int J Dent Hygiene*, 11(1):1–7.
- Cosyn, J., Miremadi, S.R., Sabzevar, M.M. and 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.
- Diah, D., Widodorini, T. and Nugraheni, N. E., 2018, Perbedaan Angka Kejadian Gingivitis Antara Usia Pra-Pubertas Dan Pubertas Di Kota Malang, *E-Prodenta Journal of Dentistry*, 2(1):108–115.
- Djais, A. I. and Tope, V. Y., 2017, Effectiveness of siwak *Salvadora Persica* extract to Aggregatibacter Actinomycetemcomitans as one of pathogenic bacteria causing periodontal disease, *JDMFS*, 2(1):35.
- Do Vale, H.F., Casarin, R.C.V., Taiete, T., Ambrosano, G.M.B., Ruiz, K.G.S., Nociti, F.H., Sallum, E.A. and 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.
- Farhadian, N., Bidgoli, M., Jafari, F., Mahmoudzadeh, M., Yaghobi, M., Miresmaeli, A., 2015, Comparison of Electric Toothbrush, Persica and Chlorhexidine Mouthwashes on Reduction of Gingival Enlargement in Orthodontic Patients: A Randomised Clinical Trial, 13(4): 301-305.
- Farag, M., Abdel-Mageed, W. M., El Gamal, A. A., Basudan, O. A, 2021, *Salvadora persica* L.: Toothbrush tree with health benefits and industrial applications – An updated evidence-based review, *SPJ*, 29: 751-763
- Fitri, H., Fajrin, F. N., Kasuma, N., and Suharti, N., 2019, Efek Pemberian Zink pasca Scaling Root Planing terhadap Kadar MMP-8 Saliva pada Pasien Gingivitis, *B-Dent*, 6(2):132–141.
- George, M.D., Donley, T.G., dan Preshaw, P.M., 2014, *Ultrasonic Periodontal Debridement*, Wiley and sons Inc., United Kingdom, 103-105.
- Gibbs, S., Roffel, S., Meyer, M., Gasser, A., 2019, Biology of soft tissue repair: gingival epithelium in wound healing and attachment to the tooth and abutment surface, *Eur Cells Mater*, 14(38): 63-78.
- Gupta, A., Verma, S., Kushwaha, P., Srivata, S., Rawat, A. K. S., (2015) Phytochemical and antioxidant studies of *Salvadora persica* L. Stem & Twig, *J. Pharm. Educ. Res*, 49(1):71–75.
- Gupta, G., Mitra, D., Ashok, K. P., Gupta, A., Soni, S., Ahmed, S., Arya, S., (2014) Efficacy of Preprocedural Mouth Rinsing in Reducing Aerosol Contamination Produced by Ultrasonic Scaler: A Pilot Study, *J. Periodontol*, 85(4):562–568.
- Gonzales, A. C. O., Andeade, Z. A., 2016, Wound healing - A literature review, *An Bras Dermatol*, 91(5):614-620.



- Halib, N., Nuairy, N. B., Ramli, H., Ahmad, I., Othman, N. K., Salleh, S. M., Bakarudin, S. B., 2017, Preliminary assessment of *Salvadora oersica* whitening effects on extracted stained teeth. *J.Appl. Farmasi. Sains*, 7 (12):121–125
- Haque, M. M. and Alsareii, S. A., 2015, A review of the therapeutic effects of using miswak (*Salvadora Persica*) on oral health, *Saudi Med J*, 36(5):530–543.
- Ibrahim, A. Y., El-Gengaihi, S., Motawea, H. M., Sleem, A. M., 2011, Anti-Inflammatory Activity of *Salvadora persica* L. against Carrageenan Induced Paw Oedema in Rat Relevant to Inflammatory Cytokines, *Not. Sci. Biol*, 3(4):22–28.
- Jawade, R., Bhandari, V., Ugale, G., Taru, S., Khaparde, S., Kulkarni, A., Ardale, M., Marde, S., 2016, Comparative Evaluation of Two Different Ultrasonic Liquid Coolants on Dental Aerosols, *J. Clin. Diagnostic Res*, 10(7):53-57.
- Ji, S., Choi, Y. S., & Choi, Y. (2015). Bacterial invasion and persistence: critical events in the pathogenesis of periodontitis, *J Periodontal Res*, 50(5):570–585.
- Johnson, I.G., Jones, R.J., Gallagher, J.E., Wade, W.G., Al-Yaseen, W., Robertson, M., McGregor, S., Sukriti, K.C., and 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. and Nayak, S.U., 2014, Detection, removal and prevention of calculus: Literature Review. *Saudi Dental Journal*, 26(1): 7-13.
- Kementerian Kesehatan RI, 2018, *Laporan Nasional RISKESDAS 2018*, Jakarta: Kemenkes, 204.
- 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.
- Khan, M., Alkathlan, H. Z., Khan, S. T., 2020, Antibiotic and Antibiofilm Activities of *Salvadora persica* L. Essential Oils against *Strestococcus mutans*: A Dentailed Comparative Study with Chlorhexidine Digluconate. *Pathogens*, 9:66
- Kodir, A. I. A., Herawati, D., and Murdiastuti, K., 2014, Perbedaan Efektivitas antara Pemberian Secara Sistemik Ciprofloksasin dan Amoksisilin setelah Scaling & Root Planning pada Periodontitis Kronis Penderita Hipertensi, *JKG*, 5(4):323-328.
- Korompot, F., Siagian, K. V. and Pangemanan, Damajanty H. C.Khoman, J., 2019, Efektivitas Tindakan Skeling terhadap Perawatan Gingivitis di Rumah, *e-GIGI*, 7(2):64.
- Kumar, V., Abbas, A. K., Aster, J. C., (2014) *Robbin and Cotran Pathologic Basis of Disease*, 9th Ed., Canada, Elsevier Saunders, 50,51, 103-105, 728



- Kumar, D. and Sharma, P. K., 2020, Traditional Use, Phytochemicals and Pharmacological Activity of *Salvadora persica*: A Review, *Current Nutrition & Food Science*, 16: 1-10
- 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.
- Lang, N. P., Schatzle, M. A., and Loe, H., 2009, Gingivitis as a risk factor in periodontal disease, *J. Clin. Periodontol*, 36(10):3-8.
- Majzer, E. B., Hrncic, M. K., Skerget, M., Knez, Z., and Bren, U., 2016, Polyphenols: Extraction Methods, Antioxidative Action, Bioavailability and Anticarcinogenic Effects, *Molecules*, 21(901):1-38.
- Magista, M., Nuryanti, A. and Wahyudi, I. A., 2014, Pengaruh Lama Perendaman dan Jenis Minuman Beralkohol Bir dan Tuak terhadap Kekerasan Email Gigi Manusia (In Vitro), *MKGI*, 21(1):47.
- Manaf, H. A. A., Retnowati, W., Indrawati, R., (2018) Antibacterial Effect of Siwak (*Salvadora persica*) Againts *Pseudomonas aeruginosa*, *SJPM*, 3(10):365-368.
- Marusin, S., Chairul., 2012, Efek Ekstrak Air dan Alkohol pada Siwak (*Salvadora persica L.*) terhadap peningkatan Aktivitas dan Kapasitas Fagositosis Sel Makrofag, *MPK*, 22(1):38-44.
- Newman G. M., Takei, H. H., Klokkevold, P. R., Carranza, F. A., 2015, *Carraznza's Clinical Periodontology*, 12th Ed., Missouri, Elsevier Saunders, 11, 21-22, 1039, 1041, 1542.
- Niazi, F., Naseem, M., Khurshid, Z., Zafar, M. S., dan Almas, K., 2016, Role of *Salvadora persica* chewing stick (miswak): A natural toothbrush for holistic oral health, *Eur J Dent*, 10(2):301–308.
- Nofikasari, I., Rufaida, A., Aqmarina, C. D., Failasofia, Fauzia, A. R., and Handajani, J., 2016, Efek aplikasi topikal gel ekstrak pandan wangi terhadap penyembuhan luka gingiva, *MKGI*, 2(2):53–59.
- Nordin, A., Saim, A. B., Ramli, R., Hamid, A. A., Nasri, N. W. M., and Idrus, R. B. H., 2020, Miswak and Oral Health: An Evidence-Based Review, *Saudi J. Biol. Sci*, 27(7):1801-1810.
- Novitasari, A. E., Putri, D. Z., 2016, Isolasi dan Identifikasi Saponin pada Ekstrak Daun Mahkota Dewa dengan Ekstraksi Maserasi, *JSI*, 6(12):10-14.
- Nur, R. M., Krismariono, A. and Rubianto, M., 2017, Keparahan Gingivitis pada Pasien Poli Gigi Puskesmas Sawahan Surabaya Tahun 2016 Menggunakan Gingival Index (GI) Gingivitis Severity of Patients at Dental Clinic



Puskesmas Sawahan Keparahan Gingivitis pada Pasien Poli Gigi Puskesmas Sawahan Surabaya. Surabaya: Laporan Penelitian Fakultas Kedokteran Gigi, 15-16.

Nuryanti, A., Soesatyo, M, HNE., Agustina, D., and Sunarintyas, S., 2015, The effects of ultrasonic scaling duration and replication on caspase-3 expression of Sprague Dawley rat's pulp cells, *MKG*, 48(1):48-52.

Pandey, A. and Tripathi, S., 2014, Concept of standardization, extraction and pre phytochemical screening strategies for herbal drug, *J. Pharmacogn. Phytochem*, 2(5):115–119.

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.

Perry., Beemsterboer., Essex., 2015, *Periodontology for dental hygienist* 14 th ed, elsevier, missouri, 110.

Rao, J.J., 2017, Quick Review Series for *BDS 4th Year 2nd Edition*, Elsevier, New Delhi, 951-952.

Rezaei, S., Rezaei, K., Mahboubi, M., Jarahzadeh, M. H., Momeni, E., Bagherinasab, M., Targhi, M. G., Memarzadeh, M. R., 2016, Comparison the efficacy of herbal mouthwash with chlorhexidine on gingival index of intubated patients in Intensive Care Unit. *J Indian Soc Periodontol*, 20:404-8.

Safiaghdam, H., Oveissi, V., Bahramoltani, R., Farzaei, M. H., Rahimi, R., 2018, Medicinal plants for gingivitis: a review of clinical trials. *Iran J Basic Med Sci*, 21:978-991.

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.

Sammartino, G., Tia, M., Tete, S., Perillo, L. and 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.

Sethi, K. S., Mamajiwala, A., Mahale, S., Raut, C. P., and Karde, P., 2019, Comparative Evaluation of the Klorheksidin and Cinnamon Extract as Ultrasonic Coolant for Reduction of Bacterial Load in Dental Aerosols, *J Indian Soc Periodontol*, 23(3):226–233.

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.

Smith, P. C., Ceceres, M., Martinez, C., Oyarzun, A., Martinez, J., 2015, Gingival Wound Healing, *J dent Res.*, 94(3): 395-402.

Sofrata, A., Santangelo, E. M., Azeem, M., Karlson, A. K. B., Gustafsson, A., and Putsep, K., 2011, Benzyl isothiocyanate, a major component from the roots of *Salvadora persica* is highly active against Gram-Negative bacteria, *PLoS ONE*, 6(8):1-10.

Sukkarwalla, A., Ali, S. M., Lundberg, P., Tanwir, F., 2013, Efficacy of miswak on oral pathogens, *J. Dent. Res.*, 10(3):314–31420.

Tatke, P., 2018, Antioxidant, Antimicrobial And Wound Healing Activity Of *Salvadora persica* Twig Extracts, *JCM AH*, 7(4):4–9.

Tjipitoningsih, U. G., 2016, Enlargement gingival treatment on teeth 11 and 21 : a case report, *JDMFS*, 1(3):196–200.

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. *JEOPP*, 22(1): 169-175.

Varma, S. R., Sherif, H., Serafi, A., Fanas, S. A., Desai, V., Abuhileh, E., 2018, The Antiplaque Efficacy of Two Herbal-Based Toothpastes: A Clinical Intervention, *J. Int. Soc Prev Community Dent*, 8(1).

Varshitha, A., Jacob, C. A., & Danalakshmi, J., 2020, Dimensional analysis of furcal entrances in extracted permanent maxillary molars, *IJS DR* 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., Leppinen, D, M., and 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. and 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.

Walmsley, A. D., 2015, Annual of the Ultrasonic Industry Association, UIA Symposium 2014 Ultrasonics in dentistry, *Physics Procedia*, 66:201-207

Wali, N. B., Afifi, I. K., Balata J. F. and Badr, N. A., 2019, Effect of an Experimental Mouthwash Extracted from Miswak (*Salvadora persica*) on Cariogenic Bacteria and Dental Plaque Formation, *Int. J. Curr. Res*,



10(1):70-75.

- 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.
- Yong, X., Chen, Y., Tao, R., Zeng, Q., Liu, Z., Jiang, L., Ye, L., and Lin, X., 2014, Periodontopathogens and human b-defensin-2 expression in gingival crevicular fluid from patients with periodontal disease in Guangxi, China, *J. Periodont*, 50(3):403-410.
- 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.
- Zhang, Q. W., Lin, L. G. and Ye, W. C., 2018, Techniques for extraction and isolation of natural products : a comprehensive review, *Chinese Medicine. BMC*, 20(1):1–26.