

## DAFTAR PUSTAKA

- Abarantes, P. M. D. S. dan Africa, C. W. J., (2019) Measuring *Streptococcus mutans*, *Streptococcus sanguinis*, and *Candida albicans* biofilm formation using a real-time impedance-based system. *Journal of Microbiological Methods*. 169 (2020): 1-5.
- Abebe, M.G., (2021) Oral Biofilm and Its Impact on Oral Health, Psychological and Social Interaction. *International Journal of Oral and Dental Health*. 7(1): 1-11.
- Alves, L.A., Salvatierra, G.C., Freistas, V.A., Hofling, J.F., Bastos, D.C., Araujo, T.L.S., dan Mattos-Graner, R.O., (2022) Diversity in Phenotypes Associated With Host Persistence and Systemic Virulence in *Streptococcus sanguinis* Strains. *Frontiers in Microbiology*. 13(875581): 1-16.
- Amaliah, R., Larnani, S., dan Wahyudi, I.V., (2012) Inhibition effect of cashew stem bark extract (*Anacardium Occidentale* L.) on biofilm formation of *Streptococcus sanguinis*. *Majalah Kedokteran Gigi*. 4(45): 212-216.
- Amankwah, S., Abdella, K., dan Kassa, T., (2021) Bacterial Biofilm Destruction: A Focused Review On The Recent Use of Phage-Based Strategies With Other Antibiofilm Agents. *Nanotechnology, Science, and Applications*. 14: 161-177.
- Asmoro, I.F., Rizka, Y., dan Teguh, P.B., (2015) Daya Hambat Ekstrak Rumput Laut Spesies *Eucheuma Cottonii* Terhadap Pertumbuhan Bakteri Mixed Periodontopatogen. *Denta Jurnal Kedokteran Gigi*. 9(1): 30-36.
- Azzahra, F. dan Hayati, M., (2018) Uji Aktivitas Ekstrak Daun Pegagan (*Centella asiatica* (L.). Urb) terhadap Pertumbuhan *Streptococcus mutans*. *Jurnal B-Dent*. 5(1): 9-19.
- Bathla, S., (2017) *Textbook of Periodontics*. 1<sup>st</sup> ed. London: Jaypee Brothers. pp. 81, 83-84.
- Besan, E.J., Rahmawati, I., Saptarini, O., (2023) Antibiofilm Activity of Butterfly Pea Flower (*Clitoria ternatea* L.) Extract and Fractions against *Staphylococcus aureus*. *Pharmaceutical Journal of Indonesia*. 20(1): 1-11.
- Brookes, Z.L.S., Bescos, R., Belfield, L.A., Ali, K., Roberts, A., (2020) Current Uses of Chlorhexidine for Management of Oral Disease: a Narrative Review. *Journal of Dentistry*. 103497: 1-9.
- Carniello, V., Peterson, B.W., Mei, H.C., dan Busscher, H.J., (2018) Physico-Chemistry from Initial Bacterial Adhesion to Surface-Programmed Biofilm Growth. *Advances in Colloid and Interface Science*. 261: 1-14.
- Chen, X., Daliri, B.M., Kim, N., Kim, J.R., Yoo, D., dan Oh, D.H., (2020) Microbial Etiology and Prevention of Dental Caries: Exploiting Natural Products to Inhibit Cariogenic Biofilms. *Pathogens*. 9(569): 1-15.

- Deus, F.P. dan Ouanounou, A., (2022) Chlorhexidine in Dentistry: Pharmacology, Uses, and Adverse Effects. *International Dental Journal*. 7(2): 269-277.
- Fatimah, S., Prasetyaningsih, Y., dan Astuti, R.W., (2022) Efektifitas Antibakteri Ekstrak Daun Pegagan (*Centella Asiatica*) Terhadap Pertumbuhan Bakteri *Staphylococcus aureus*. *Lumbung Farmasi*. 3(1): 61-68.
- Gosh C., Bhowmik, J., Ghosh, R., Das, M.C., Sandhu, P., Kumari, M., Acharjee, S., Daware, A.V., Akhter, Y., Banerjee, B., De, U.C., dan Bhattacharjee, S., (2020) The Anti-biofilm Potential of Triterpenoids Isolated from *Sarchochlamys pulcherrima* (Roxb.) Gauc. *Microbial Pathogenesis*. 139:103901.
- Hamzah, H., Pratiwi, S. U. T. dan Hertiani, (2018) Efficacy of Thymol and Eugenol Against Polymicrobial Biofilm, *Indonesian Journal of Pharmacy*. 29(4): 214-221.
- Hamzah, H., Hertiani, T., Pratiwi, S. U. T. and Titik, (2019) The Inhibition Activity of Tannin on the Formation of Mono-Species and Polymicrobial Biofilm *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Candida albicans*, *Traditional Medical Journal*. 24(2): 110-118.
- Haniastuti, T., (2016) Penurunan Hidrofobisitas Permukaan Sel Bakteri Plak Gigi Setelah Dipapar Rebusan Daun Sirih Merah Konsentrasi 10%. *Dentika Dental Journal*. 19(1): 38-41.
- Herrayawan., Khaerunnisa, R., dan Fajri, F.N., (2021) Antibacterial Effectiveness Test Of Mint Leaf Extract (*Mentha piperita* L.) In Inhibiting *Streptococcus sanguinis* Growth. *Journal of Health and Dental Sciences*. 1(1): 50-60.
- Hutomo, S., Susilowati, H., Agustina D., dan Asmara, W., (2018) Analysis of anti-*Streptococcus sanguinis* IgY ability to inhibit *Streptococcus sanguinis* adherence. *Dental Journal*. 51(1): 33-36.
- ITIS (Integrated Taxonomic Information System). 2012. Taxonomy Hierarchy: *Streptococcus sanguinis* White and Niven. [https://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=966473#null](https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=966473#null), pada tanggal 11/02/2023.
- ITIS (Integrated Taxonomic Information System). 2011. Taxonomy Hierarchy: *Centella Asiatica* (L.) Urb. [https://www.itis.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=29612#null](https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=29612#null), pada tanggal 14/02/2023.
- Jain, N., Varma, B.R., Kumar, S.J., Kumaran, P., dan Xavier, A.M., (2023) Antimicrobial activity of chlorhexidine on *Candida albicans* and *Streptococcus mutans* isolated in children with early childhood caries – An in vitro study. *Journal of Applied Pharmaceutical Science*. 13(2): 113-116.
- James, P., Worthington, H.V., Parnell, C., Harding, M., Lamont, T., Cheung, A., Whelton, H., Riley, P., (2017) Chlorhexidine Mouthrinse as an Adjunctive Treatment for Gingival Health. *Cochrane Database of Systematic Reviews*. Issue 3.

- Karpinski, T.M. dan Szkaradkiewicz, A.K., (2015) Chlorhexidine-pharmacobiological activity and application. *European Review for Medical and Pharmacological Sciences*. 19(1): 1321-1326.
- Kemenkes RI. (2018) *Laporan Nasional Riset Kesehatan Dasar (Riskesdas) Indonesia tahun 2018*, Riset Kesehatan Dasar 2018. Jakarta: Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan. hal. 195, 204.
- Khurana, A., Ghupta, N., Gill, J.S., Verma, S., Batra, R., (2021) Disclosing Agents: Disclose the Presence of Plaque. *International Educational Scientific Research Journal*. 7(3): 39-44.
- Kining, E., Falah, S., dan Nurhidayat, N., (2016) The In Vitro Antibiofilm Activity of Water Leaf Extract of Papaya (*Carica papaya* L.) against *Pseudomonas aeruginosa*. *Current Biochemistry*. 2(3): 150-163.
- Lauten, A., Martinovic, M., Kursawe, L., Kikhney J., Affeld, K., Kertzcher, U., Falk, V., dan Moter, A., (2021) Bacterial biofilms in infective endocarditis: an in vitro model to investigate emerging technologies of antimicrobial cardiovascular device coatings. *Clinical Research in Cardiology*. 110(3): 323-331.
- Marlina, I., Tetuko A., Septiani, A., Mellania, C., Hasan, S.A., (2022) Uji Aktivitas Antibakteri Ekstrak Daun Pegagan (*Centella asiatica* L.) Terhadap Bakteri Patogen. *Jurnal Ilmu Kesehatan*. 1(2): 55-63.
- Marsh, P.D., Lewis, M.A.O., Rogers, H., William, D.W., dan Wilson, M., (2016) *Marsh & Martin's Oral Microbiology*. 6<sup>th</sup> ed. New York: Elsevier. pp. 85.
- Mathew, M., Joyshree, C., Ratan, V.J., Kartheeks, V., Thirumalai, S., dan Banothu, M.N., (2022) Anti-plaque efficacy of Hi-Ora mouthrinse and 0.12% chlorhexidine gluconate in patients with chronic gingivitis: A case-control study. *Journal of Oral and Maxillofacial Pathology*. 26(1): 38-43.
- Nasution, M., Simatupang, Y., Dennis, D., (2020) Effectiveness of Star Fruit Leaf Extract on the Growth of *Streptococcus Sanguinis*: An In Vitro Study. *World Journal of Dentistry*. 11(3) : 196-200.
- Nobbs, A., dan Kreth, J., (2019) Genetics of sanguinis-Group Streptococci in Health and Disease. *Microbiology Spectrum*. 1(7): 1-6.
- Nola, F., Putri, G.K., Malik, L.H., dan Andriani, N., (2021) Isolasi Senyawa Metabolit Sekunder Steroid dan Terpenoid dari 5 Tanaman. *Syntax Idea*. 3(7): 1612-1619.
- Pertiwi, F.C., Firdaus, I.W.A.K., dan Erlita, I., (2019) Comparison Of Inhibitory Activity Of Kelakai Leaf Extract And 0.2% Chlorhexidine Gluconate Against *Streptococcus sanguinis* ATCC 10556. *Dentino*. 4(2): 145-150.
- Pinto, R.M., Soares, F.A., Reis, S., Nunes, C., dan Dijck, P.V., (2020) Innovative Strategies Toward the Disassembly of the EPS Matrix in Bacterial Biofilms. *Frontiers in Microbiology*. 11(952): 1-20

- Purbowati, R., (2016) Hubungan Biofilm Dengan Infeksi : Implikasi Pada Kesehatan Masyarakat Dan Strategi Mengontrolnya. *Jurnal Ilmiah Kedokteran*. 5(1): 1-14.
- Rabin, N., Zheng, Y., Opoku-Temeng, C., Du, Y., Bonsu, E., dan Sintim, H.O., (2015) Biofilm Formation Mechanisms and Targets for Developing Antibiofilm Agents. *Future Medicinal Chemistry*. 7(4): 493-512.
- Rosyada, A.G., Prihastuti, C.C., Sari, D.N.I., Setiawati, Ichsyani, M., Laksitasari, A., Andini, R.F., dan Kurniawan, A.A., (2023) Aktivitas antibiofilm ekstrak etanol kulit bawang merah (*Allium cepa* L.) dalam menghambat pembentukan biofilm *Staphylococcus aureus* ATCC 25923: penelitian eksperimental laboratoris. *Jurnal Kedokteran Gigi Universitas Padjajaran*. 35(1): 33-40.
- Samaranayake, L., (2018) *Essential Microbiology for Dentistry*. 5<sup>th</sup> Ed. New York: Elsevier. pp. 49, 275-276.
- Sapara, T. U., Waworuntu, O. dan Juliatri, (2016) Efektivitas Antibakteri Ekstrak Daun Pacar Air (*Impatiens balsamina* L.) terhadap Pertumbuhan *Porphyromonas gingivalis*. *Pharmakon*. 5(4): 10-17.
- Sari, T.A.P., (2020) Potential Anti-Tuberculosis Activity of Gotu Kola Leaf Extract (*Centella Asiatica* L. Urban) in Inhibiting the Growth of Mycobacterium Tuberculosis. *Jurnal Ilmiah Kesehatan Sandi Husada*. 12(2): 878-888.
- Shafiei, Z., Rahim, Z. H. A., Philip, K., Thurairajah, N., & Yaacob, H., (2020) Potentian effects of Psidium sp., Mangifera sp., Mentha sp. and its mixture (PEM) in reducing bacterial populations in biofilms, adherence, and acid production of *S. Sanguinis* and *S. mutans*. *Archives of Oral Biology*. 109(2020):1-15.
- Sieberi, B.M., Omwenga, G.I., Wambua, R.K., Samoei, J.C., dan Ngugi, M.P., (2020) Screening of the Dichloromethane: Methanolic Extract of *Centella asiatica* for Antibacterial Activities against *Salmonella typhi*, *Escherichia coli*, *Shigella sonnei*, *Bacillus subtilis*, and *Staphylococcus aureus*. *The Scientific World Journal*. 1(1): 1-8.
- Sionov, R.V., dan Steinberg, D., (2022) Targeting the Holy Triangle of Quorum Sensing, Biofilm Formation, and Antibiotic Resistance in Pathogenic Bacteria. *Microorganisms*. 10(1239): 1-116.
- Tandelilin, R.T.C., dan Saini, R., (2018) *Dental Plaque: a Biofilm*. Yogyakarta: PT Kanisius. pp 63-65.
- Tandelilin, R.T.C., Widita, E., Agustina, D., dan Saini, R., (2018) The Effect of Oral Probiotic Consumption on the Caries Risk Factors among High-Risk Caries Population. *Journal of International Oral Health*. 10(3): 132-137.
- Utami, D. T., Pratiwi, S. U. T., Haniastuti, T. dan Hertiani, (2021) Eugenol and Thymol as Potential Inhibitors For Polymicrobial Oral Biofilm : An In Vitro Study. *Journal of International Oral Health*. 13(1): 45-52.

- Vasudevan, R., (2017) Dental plaques: microbial community of the oral cavity. *Journal of Microbiology and Experimentation*. 4(1): 1-12.
- Vestby, L.K., Gronseth, T., Simm, R., dan Nesse, L.L., (2020) Bacterial Biofilm and its Role in the Pathogenesis of Disease. *Antibiotics*. 9(59): 1-29.
- Villa, K., Viktorova, J., Plutnar, J., Ruml, T., Hoang, L., Pumera, M., (2020) Chemical Microrobots as Self-Propelled Microbrushes against Dental Biofilm. *Cell Reports Physical Science*, 100181:1-12.
- Wronska, N., Szlaur, M., Zawadzka, K., dan Lisowska, K., (2022) The Synergistic Effect of Triterpenoids and Flavonoids—New Approaches for Treating Bacterial Infections?. *Molecules*. 27(847): 1-11.
- Xiao, J., Hara, H.T., Kim, D., Zero, D.T., Koo, H., dan Hwang G., (2017) Biofilm three-dimensional architecture influences in situ pH distribution pattern on the human enamel surface. *International Journal of Oral Science*. 9(2) : 74-79.
- Xuedong, Z., (2016) *Dental Caries Principles and Management*. 1<sup>st</sup> ed. New York: Springer. pp. 30.
- Yekti, R. dan Turnip, D. H., (2022) Tingkat Pengetahuan Kesehatan Gigi Terhadap Kejadian Karies Gigi pada Mahasiswa Fakultas Kedokteran Universitas Kristen Indonesia Angkatan 2019. *Edumatsains*. 6(2): 293-302.
- Zahara, K., Bibi, Y., dan Tabassum, S., (2014) Clinical and therapeutic benefits of *Centella asiatica*. *Pure and Applied Biology*. 3(4): 152-159.
- Zhu, B., Macleod, L. C., Kitten, T., Xu, P., (2018) *Streptococcus sanguinis* Biofilm Formation & Interaction with Oral Pathogens. *Future Microbiology*. 13(8): 915- 932.
- Zulkarnain, Muthiadin, C., Nur, F., dan Sijid, S.A., (2021) Potensi Kandungan Senyawa Ekstraksi Daun Patikan Kebo (*Euphorbia Hirta* L.) Sebagai Kandidat Antibiotik Alami. *Jurnal Teknosains*. 15(2): 190-196.