

DAFTAR PUSTAKA

- Adha, N., Ervina, I., dan Agusnar, H., (2017) The effectiveness of metronidazole gel based chitosan inhibits the growth of bacteria *Aggregatibacter actinomycetemcomitans*, *Porphyromonas gingivalis*, *Fusobacterium nucleatum* (In vitro). *IJADS 2017*. 3(2): 30-37.
- Agdelia, G., Dewi, A. H., dan Wahyudi, I. A., (2013) Pengaruh Pemberian Gel Kitosan 3% terhadap Kekuatan Tarik Kulit Tikus dalam Proses Penyembuhan Luka Pasca Insisi (Kajian in vivo). *Proceeding Book: The International Symposium on Oral and Dental Sciences*. pp 124-128
- Astuti, D. P., Husni, P., dan Hartono, K., (2017) Formulasi dan Uji Stabilitas Fisik Sediaan Gel Antiseptik Tangan Minyak Atsiri Bunga Lavender (*Lavandula angustifolia* Miller). *Farmaka*. 15(1): 176-184.
- Balouiri, M., Sadiki, M., dan Ibsouda, S. K., (2016) Methods for in vitro evaluating antimicrobial activity: A review. *JPA*. 6(2): 71-79.
- Bastiaens, L., Soetemans, L., D'Hondt, E., dan Elst, K., (2020) *Sources of Chitin and Chitosan and their Isolation*. Dalam van den Broek L. A. M. dan Boeriu C. G., *Chitin and Chitosan: Properties and Applications*. West Sussex: John Wiley & Sons. pp. 1-9.
- Bathla, S., (2011) *Periodontic revisited*. New Delhi: Jaypee Brothers Medical Publishers. pp. 60-61.
- Belibasakis, G. N., Maula, T., Bao, K., Lindholm, M., Bostanci, N., Oscarsson, J., Ihalin, R., dan Johansson, A., (2019) Virulence and pathogenicity properties of *Aggregatibacter actinomycetemcomitans*. *Pathogens*. 8(4): 222.
- Berman, J. J., (2012). *Taxonomic guide to infectious diseases: understanding the biologic classes of pathogenic organisms*. London: Academic Press. pp. 43.
- Bouziane, A., Hamdoun, R., Abouqal, R., dan Ennibi, O., (2020) Global prevalence of aggressive periodontitis: A systematic review and meta-analysis. *JCPE*. 47(4): 406-428.
- Butarbutar, E., (2018) Uji Aktivitas Antibakteri Kitosan Berbahan Baku Cangkang Rajungan (*Portunus pelagicus*) terhadap Bakteri *Staphylococcus aureus* dan *Escherichia coli*. Medan: Skripsi Fakultas Matematika dan Ilmu Pengetahuan Alam. pp 38.

- Cai, B., Zhong, T., Chen, P., Fu, J., Jin, Y., Liu, Y., Huang, R. dan Tan, L., (2018) Preparation, characterization and *in vitro* release study of drug-loaded sodium carboxy-methylcellulose/chitosan composite sponge. *PloS one*. 13(10).
- Caton, J. G., Armitage, G., Berglundh, T., Chapple, L. L.C., Jepsen, S., Kornman, K. S., Mealey, B. L., Papapanou, P. N., Sanz, M., Tonetti, M. S., (2018) A New Classification Scheme for Periodontal and Peri-implant Diseases and Conditions – Introduction and Key Changes from The 1999 Classification. *JPER*. 45(45): 51–58.
- Chilton, P. M., Embry, C. A., dan Mitchell, T. C., (2012) Effects of differences in lipid A structure on TLR4 pro-inflammatory signaling and inflammasome activation. *Frontiers in immunology*. 3(154): 7-14.
- Costa, E. M., Silva, S., Pina, C., Tavaría, F. K., dan Pintado, M. M., (2012) Evaluation and insights into chitosan antimicrobial activity against anaerobic oral pathogens. *Anaerobe*. 18(3): 305-309.
- Dali, S., Safitri, N. R. D., dan Fawwaz, M., (2016) Isolasi kitosan dari limbah cangkang kepiting bakau (*Scylla serrata*) dan aplikasinya terhadap penyerapan trigliserida. *As-Syifaa Jurnal Farmasi*. 8(2): 20-27.
- Desniar, S. I., dan Purnama, Y. I., (2016) Penapi-san dan produksi antibakteri *Lactobacillus plantarum* NS (9) yang diisolasi dari bekasam ikan nila atin. *JPHPI*. 19(2): 132-139.
- Elmitra, (2017) *Dasar-dasar Farmasetika dan Sediaan Semi Solid*. Yogyakarta: Penerbit Deepublish. pp. 162, 181-182.
- Farhana, A. dan Khan, Y. S., (2020). *Biochemistry, Lipopolysaccharide*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK554414/> (11/18/2020).
- Fine, D. H., Armitage, G. C., Genco, R. J., Griffen, A. L., dan Diehl, S. R., (2019) Unique Etiologic, Demographic, and Pathologic Characteristics of Localized Aggressive Periodontitis Support Classification as a Distinct Subcategory of Periodontitis. *JADA*. 150(11): 922-931.
- Fine, D. H., Patil, A. G., dan Velusamy, S. K., (2019) *Aggregatibacter actinomycetemcomitans* (Aa) under the radar: Myths and Misunderstandings of Aa and its Role in Aggressive Periodontitis. *Front Immunol*. 10: 728.
- Gholizadeh, P., Pormohammad, A., Eslami, H., Shokouhi, B., Fakhrzadeh, V., dan Kafil, H. S., (2017) Oral pathogenesis of *Aggregatibacter actinomycetemcomitans*. *Microbial pathogenesis*. 113: 303-311.

- Goy, R. C., Morais, S. T., dan Assis, O. B., (2016) Evaluation of the antimicrobial activity of chitosan and its quaternized derivative on *E. coli* and *S. aureus* growth. *Rev Bras Farmacogn.* 26(1): 122-127.
- Grossman, T. H., (2016) Tetracycline antibiotics and resistance. *CSH Press.* 6(4): a025387.
- Haryati, S. D., Darmawati, S., dan Wilson, W., (2017) Perbandingan efek ekstrak buah alpukat (*Persea mericana Mill*) terhadap pertumbuhan bakteri *Pseudomonas aeruginosa* dengan metode disk dan sumuran. *Proceeding Seminar Nasional Publikasi Hasil-Hasil Penelitian dan Pengabdian Masyarakat.* pp 348-352.
- Jensen, A. B., Haubek, D., Claesson, R., Johansson, A., dan Nørskov-Lauritsen, N., (2019) Comprehensive antimicrobial susceptibility testing of a large collection of clinical strains of *Aggregatibacter actinomycetemcomitans* does not identify resistance to amoxicillin. *JCPE.* 46(8): 846-854.
- Jepsen, K. dan Jepsen, S., (2016) Antibiotics/antimicrobials: systemic and local administration in the therapy of mild to moderately advanced periodontitis. *Periodontology 2000.* 71(1): 82-112.
- Junior, J. C. V., Ribeaux, D. R., Alves da Silva, C. A., Campos-Takaki, D., dan Maria, G., (2016) Physicochemical and antibacterial properties of chitosan extracted from waste shrimp shells. *Intl J Microbiol.* 1-7.
- Kapoor, A., Malhotra, R., Grover, V., & Grover, D., (2012) Systemic antibiotic therapy in periodontics. *DRJ.* 9(5): 505-515.
- Kementerian Kesehatan Republik Indonesia, (2018) Laporan Nasional RISKESDAS. Jakarta. 207.
- Kinane D. F., Berglundh, T., dan Lindhe, J., (2015) Pathogenesis of periodontitis. Dalam: Lang, N. P. dan Lindhe, J., *Clinical periodontology and implant dentistry.* 6th ed. West Sussex: Wiley Blackwell. pp. 285.
- Kravanja, G., Primožič, M., Knez, Ž., dan Leitgeb, M., (2019) Chitosan-based (Nano) materials for novel biomedical applications. *Molecules.* 24(10): 1-23.
- Kusmiyati, K. dan Agustini, N. W. S., (2007) Antibacterial activity assay from *Porphyridium cruentum* microalgae. *Biodiversitas.* 8(1): 48-53.
- Loekito, L. I., Wedarti, Y. R., dan Pangabdian, F., (2018) Daya Antibakteri Kitosan Kepiting Rajungan (*Portunus Pelagicus*) Terhadap Biofilm *Porphyromonas Gingivalis*. *Jurnal DENTA.* 12(2): 82.

- McPherson, R. A., dan Pincus, M. R., (2011) *Henry's clinical diagnosis and management by laboratory methods*. 22nd ed. Philadelphia: Elsevier Health Sciences. pp. 1104-1119.
- Mejía, E. H., Contreras, H., Delgado, E., dan Quintana, G., (2019) Effect of Experimental Parameters on the Formation of Hydrogels by Polyelectrolyte Complexation of Carboxymethylcellulose, Carboxymethyl Starch, and Alginic Acid with Chitosan. *IJCE*. 1-13.
- Mombelli, A., (2015) Antibiotics in periodontal therapy. Dalam: Lang, N. P. dan Lindhe, J., *Clinical periodontology and implant dentistry*. 6th ed. West Sussex: Wiley Blackwell. pp. 885-888.
- Mooduto, L., Wahjuningrum, D.A., Prita, A., dan Lunardhi, C. G., (2019) Antibacterial effect of chitosan from squid pens against *Porphyromonas gingivalis* bacteria. *IJM*. 11(2): 177.
- Mudaningrat, A., Ramdan K., Salsabila, M., dan Aisyah, S., (2020) Kerupuk lemi *Portunus pelagicus* sebagai solusi pengelolaan limbah rajungan di wilayah Cirebon. *Prosiding Seminar Nasional V 2019*. pp. 35-42.
- Mythireyi, D. dan Krishnababa, M. G., (2012) *Aggregatibacter Actinomycetemcomitans*, an Aggressive Oral Bacteria - A Review. *IJHSR*. 2(5): 105-117.
- Naderloo, R., (2017) *Atlas of crabs of the Persian Gulf*. Cham: Springer. pp 199.
- Newman, M. G., Takei, H. H., Klokkenvold, P. R., dan Carranza, F. A., (2012) *Carranza's Clinical Periodontology*. 12th ed. Missouri: Elsevier Saunders. pp 43, 484, 170-171.
- Nurmala, N. A., Susatyo, E. B., dan Mahatmanti, F. W., (2018) Sintesis Kitosan dari Cangkang Rajungan Terkomposit Lilin Lebah dan Aplikasinya sebagai Edible Coating pada Buah Stroberi. *Indo. J. Chem. Sci*. 7(3): 278-284.
- Pradnyani, I. G. A. S., (2017) Tetrasiklin HCL gel 0, 7% meningkatkan jumlah sel fibroblas dan mempertebal ligamen periodontal pada sulkus gingiva tikus yang mengalami periodontitis. *Intisari Sains Medis 2017*. 8(1): 14-18.
- Prakasam, A., Elavarasu, S. S., dan Natarajan, R. K., (2012) Antibiotics in the management of aggressive periodontitis. *J Pharm Bioallied Sci*. 4(2): 252-255.
- Pratama, S. M., Barqly, G. J., Widyastuti, R., Wardani, R. N., Sielma, D. F., dan Al Munawir, A. M., (2015) Pengaruh Lama Perendaman terhadap Absorpsi Tetrasiklin pada Adsorben Limbah Sisik Ikan Gurami (*Osphronemus Gouramy*). *Maj Ked. Gi Ind*. 1(2): 161-166

- Pratiwi, R., (2014) Manfaat kitin dan kitosan bagi kehidupan manusia. *Oseana*. 39(1): 35-43.
- Rahmawati, N., Sudjarwo, E. dan Widodo, E., (2014) Uji aktivitas antibakteri ekstrak herbal terhadap bakteri *Escherichia coli*. *JHIP*. 24(3): 24-31.
- Reddy, S., (2018) *Essentials of Clinical Periodontology & Periodontics*. 5th ed. New Delhi: JP Medical Ltd. pp 137-138, 261-262.
- Rollando, S., (2019) *Senyawa Antibakteri dari Fungi Endofit*. Malang: Seribu Bintang. pp 24-27.
- Salasa, A. M., (2019) Penentuan Nilai MIC (*Minimum Inhibitory Concentration*) dan MKC (*Minimum Killing Concentration*) Ekstrak Daun Kecombrang (*Etilingera elatior*) terhadap *Candida albicans* Penyebab Keputihan. *Media Farmasi*. 15(1): 30-35.
- Samaranayake, L., (2012) *Essential Microbiology for Dentistry*. 4th ed. Edinburgh: Elsevier. pp 142.
- Santoso, D. dan Raksun, A., (2016) Karakteristik Bioekologi Rajungan (*Portunus Pelagicus*) di Perairan Dusun Ujung Lombok Timur. *Jurnal Biologi Tropis*. 16(2): 94-105.
- Sartika, I. D., Alamsjah, M. A., dan Sugijanto, N. E. N., (2016) Isolasi dan Karakterisasi Kitosan dari Cangkang Rajungan (*Portunus pelagicus*). *Jurnal Biosains Pascasarjana*. 18(2): 1-15.
- Setiawati, E. M., (2008) The effectiveness of 0.5–0.7% tetracycline gel to reduced subgingival plaque bacteria. *Dental Journal*. 41(3): 114-117.
- Setiawati E. M., (2010) Gel Tetrasiklin sebagai bahan antimikroba local untuk terapi periodontitis. P00201000343.
- Simazaki, D., Hirose, M., Hashimoto, H., Yamanaka, S., Takamura, M., Watanabe, J., dan Akiba, M., (2018) Occurrence and fate of endotoxin activity at drinking water purification plants and healthcare facilities in Japan. *Water Research*. 145: 1-11.
- Socransky, S. S. dan Haffajee, A. D., (2015) Periodontal Infections. Dalam: Lang, N. P. dan Lindhe, J., *Clinical periodontology and implant dentistry*. 6th ed. West Sussex: Wiley Blackwell. pp. 216.
- Srinath, S., (2015) Management of Periodontal Disease with Doxycycline: An Update. *IJPCR*. 7(4): 252-255.

- Supriyantini, E., Yulianto, B., Ridlo, A., Sedjati, S., dan Nainggolan, A. C., (2018) Pemanfaatan Chitosan dari Limbah Cangkang Rajungan (*Portunus pelagicus*) sebagai Adsorben Logam Timbal (Pb). *Jurnal Kelautan Tropis*. 21(1): 23-28.
- Susanto, C., Ervina, I., dan Agusnar, H., (2017) In vitro evaluation of antimicrobial effectiveness chitosan based tetracycline gel on some pathogenic periodontal bacteria. *Int. J. Appl. Dent. Sci.* 3(2): 71-6.
- Teughels, W., Dhondt, R., Dekeyser, C., dan Quirynen, M., (2014) Treatment of aggressive periodontitis. *Periodontology 2000*. 65(1): 107-133.
- Thomy, Z., dan Harnelly, E. (2018) *Buku Ajar Dasar-Dasar Biologi Sel dan Molekuler: Buku untuk mahasiswa*. Banda Aceh: Syiah Kuala University Press. pp 132.
- Tonetti, M. S. dan Mombelli, A., (2015) Aggressive periodontitis. Dalam: Lang, N. P. dan Lindhe, J., *Clinical periodontology and implant dentistry*. 6th ed. West Sussex: Wiley Blackwell. pp. 391-402.
- Yu, M., Han, Y., Li, J., dan Wang, L., (2017) One-step synthesis of sodium carboxymethyl cellulose-derived carbon aerogel/nickel oxide composites for energy storage. *Chemical Engineering Journal*. 324: 287-295.
- Yu, N. dan Van Dyke, T. E., (2020) Periodontitis: a Host-Mediated Disruption of Microbial Homeostasis. *Curr Oral Health Rep.* (7): 3–11.