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DAFTAR PUSTAKA

Adams, C.P. 1991. *Desain, Konstruksi dan Kegunaan Pesawat Ortodonti Lepasan*. Jakarta: Widya Medika. Hal. 70-75.

Aparna, Madhu S., dan Yadav, S. 2008. Biofilms: Microbes and Disease. *The BJID and Contexto Publishing*. 12 (6): 526-530.

Arancibia, R., Maturana, C., Silva, D., Tobar, N., Tapia, C., Salazar, J.C., Martinez, J., Smith, P.C. 2013. Effects of Chitosan Particles in Periodontal Pathogens and Gingival Fibroblasts. *J. Dent. Res*. 92(8):740-745.

Balagopal, S., dan Arjunkumar, R. 2013. Chlorhexidine: the gold standard antiplaque agent. *Journal of Pharmaceutical Sciences and Research*. 5(12):270-274.

Barlett, J.D., dan Jaanus, S.D. 1989. *Clinical Ocular Pharmacology.* United States: Elsevier. Hal. 239.

Brusca, M.I., Chara, O., Sterin-Borda, L., Rosa, A. C. 2007. Influence od Difference Orthodontic Brackets on Adherence of Microorganisms In Vitro. *The Angle Orthod*. 77 (2): 331-336.

Carvalho, M.M.S.G., Stamford, T.C.M., Santos, E.P., Tenorio, P., Sampaio, F. 2011. Chitosan as an Oral Antimicrobial Agent. *A Mendez-Vilaz Formatex*. 542-550.

Chen, C. Y. and Chung, Y. C. 2012. Antibacterial Effect of Water Soluble Chitosan on Representative Dental Pathogen Streptococcus mutans and Lactobacilli brevis. *J Oral Science*. Vol. 20 (6):620-627.

Combe, E.C. 1992. *Notes on Dental Material Ed. 6*. Edinburg: Churchill Livingstone. Hal. 26–161.

David dan Munadziroh, E. 2005. Perubahan warna lempeng resin akrilik yang direndam dalamlarutan desinfektan sodium hipoklorit dan klorheksidin. *Maj. Ked. Gigi. (Dent. J.)*. 38(1): 36–40.

Dutta, P., Dutta, J., and Tripathi, V., 2004, Chitin and chitosan: Chemistry, properties, and applications. *Journal of Scientific & Industrial Research.* 63:20-31.

UNIVERSITAS GADJAH MADA
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Ellepola, A.N.B., Joseph, B.J., Khan, Z.U. 2012. Effects of Subtherapeutic Concentrations of Chlorhexidine Gluconate on Germ Tube Formation of Oral Candida. *J. Med. Princ. Pract*. 21:120-124.

Foster, T.D. 1997. *Buku Ajar Ortodonti*, Ed. 3. Jakarta: EGC. Hal. 213.

Goy, R.C., Britto, D. D., and Assis, A. B. G. 2009. A Review of the Antimicrobial Activity of Chitosan. *POLIMEROS*. 19(3):241-247.

Gupta, P., Gautam, P., Rai, N., and Kumar, N. 2012. An Emerging Hope to Combat Candida albicans: Plant Based Therapeutics. *Biotechnol Int*. 5(3):85-114.

Hibino, K. 2009. The Effects of Orthodontic Appliances on Candida in the Human Mouth. *J. Paediatr. Dent*. 19(5):301.

Holt, D. M., Watts, J. D., Beeson, T. J., Kirkpatrick, T. C., Rutledge, R. E. 2007. The Anti-microbial Effect Against *Enterococcus faecalis* and the Compressive Strength of Two Types of Mineral Trioxide Aggregate Mixed With Sterile Water or 2% Chlorhexidine Liquid. *Journal of Endodontics*. 33(7):844-847.

Huitle, C. A. M., Fernandes, N. S., Lopez, M. C., and Quiroz, M. A. 2010. Determination of Trace Metals by Differential Pulse Voltammetry at Chitosan Modified Electrodes. *Port. Electrochim. Acta*. 28:39-49.

Ing, L.Y., Zin, N. M., Sarwar, A., and Katas, H. 2012. Antifungal Activity of Chitosan Nanoparticles Correlation with Their Physical Properties. *Int J Biomater*. 10:1-9.

Ismiyati, T. 2006. Pengaruh Perendaman Klorheksidin sebagai Bahan Pembersih terhadap Kekuatan Transversa Basis Gigi Tiruan Lengkap Resin Akrilik dengan Soft Liner. *Maj. Ked. Gi*. 13(2):146-149.

Jabur, S.F. 2008. Influence of Removable Orthodontic Appliance on Oral Microbiological Status. *Fac. Med. Baghdad*. 50(2):199-202.

Javed, U., Hakim, S. T., and Nadeem, S. G. 2013. Cell Wall Mannoproteins Isolation from C. albicans by Introduction and Simple Method: Rapid and Reliable Method Diagnosis. *Am. J. Res. Com*. 1(8):140-147.

Kohli, A. 2010. *Textbook of Orthodontics*. Elsevier. Haryana. India. Hal. 170.

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Komariah, R.S. 2012. Kolonisasi Candida dalam Rongga Mulut. *Majalah Kedokteran FK UKI*. Vol XXXVIII No.1. 39-47.

Larson, E. 2013. Monitoring Hand Hygiene. *American Journal of Infection Control*. 41(2): 43-45.

Lee, S.P., Lee S.J., Lim B.S., Ahn S.J. 2009. Surface Characteristics of Orthodontic Materials and Their Effects on Adhesion of Mutans Streptococci. *Angle Orthod*. 79:353-60.

Lessa, F.C.R., Enoki, C., Ito, I.Y., Faria, G., Matsumoto, M.A.N., Nelson-Filho, P. 2007. In-vivo evaluation of the bacterial contamination and desinfection of acrylic baseplates of removable orthodontic appliances. *AJO-DO*. 131 (6): 705.e11-705.e.17.

Limam, Z., Selmi, S., Sadok, S., and El-abed, A. 2011. Extraction and Characterization of Chitin and Chitosan from Crustacean by Products: Biological and Physicochemical Properties. *Afr J Biotechnol*. 10(4):640-647.

Mahardika, R., Ismah, N., Purwanegara, M. K. 2015. Efektivitas Perendaman Alat Ortodonti Lepas dengan Bahan Pembersih Gigi Tiruan terhadap Perubahan pH Saliva pada Pasien di RSGM-P FKG UI. *FKG UI*. 1-16.

Maulani, C. 2005. *Kiat Merawat Gigi Anak Panduan Orang Tua dalam Merawat dan Menjaga Kesehatan Gigi bagi Anak-anaknya*. Jakarta: PT Eleks Media Komputindo. Hal. 41

McDonnell, G., Russel, A.D. 1999. Antiseptics and Desinfectants: Activity, Action, and Resistance. *Clin. Microb. Rev*. 12(1):147-179.

Mohamed, N. A. and Fahmi, M. M. 2012. Synthesis and Antimicrobial Activity of Some Novel Cross-Linked Chitosan Hydrogels. *Int. J. Mol. Sci*. 13:11194-11209.

Moreira, L.V.G., Macedo, A.G.O., Cunha, A.F., dkk. 2016. Microbial contamination of Orthodontic Appliances Made of Acrylic Resin. *African Journal of Microbiology Research*. 10(27): 1051-1055.

Muggiano, F., Quaranta, A., Previati, M. 2014. Candida albicans: Colonization, role and effects of this opportunistic pathogen on orthodontic appliances. *Webmedcentral articles*. 1-8.

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Murray, J.J., Nunn, J.H., Steele, J.G. 2003. *Prevention of Oral Disease, Ed. 4.* Oxford: Oxford University Press. Hal. 138.

Patricia, D., Douglas, M., Anderson, Jefferson, K., Michelle, A. 2003. *Dorland's Pocket Medical Dictionary, Ed.27.* Pennsylvania: Elsevier. Hal. 143.

Pena, A., Sanchez, N. S., and Calahorra, M., 2013, Effects of Chitosan on C. albicans: Conditions for Its Antifungal Activity. *BioMed Res Int*. 1-15.

Pereira-Cenci, T., Delbelcury, A. A., Crielaard, W., and Tencate, J. M. 2008.Development of Candida-Associated Denture Stomatitis: New Insight. *J. Appl. Oral. Sci*. 16(2):86-94.

Phulari, B.S. 2011. *Orthodontics: Principles and Practice*. Jaypee Brothers medical Publishers. New Delhi. Hal. 17.

Rahardjo, P. 2009. *Ortodonti Dasar*. Surabaya: Pusat Penerbitan dan Percetakan Unair (AUP). Hal. 2-3, 128-134.

Ramos, V. M., Rodriguez, N. M., Rodriguez, M. S., Heras, A., and Agullo, E. 2003. Modified Chitosan Carrying Phosphonic and Alkyl Groups. *Carbohyd. Polym*. 51(4):425–429.

Rassameemasmaung, S., Srikulsathean, A., Amornchat, C., Hirunrat, K., Rojananpnathu, P., Gritsanapan, W. 2007. Effects of herbal mouthwash containing the pericarp extract of Garcinia mangostana L on halitosis, plaque and papillary bleeding index. *Journal of the International Academy of Periodontology*. 9(1):19-25.

Rinaudo, M. 2006. Chitin and Chitosan: Properties and Application. *Progress in Polymer Science*. 31(7):603-632.

Ronsani, M.M., Mores, R.A.U., Meira, T.M., Trinidade G.A.M., Guariza, F.O., Tanaka, O.M., Ribeiro, R.E.A. 2011. Virulence modulation of Candida albicans biofilms by metal ions commonly released from orthodontic devices. *Microb Pathog*. 51(6):421-5.

Ryan, K. J. dan Ray, C. G. 2010. *Medical Microbiology Ed. 5*. New York: McGraw Hill. Hal. 725.

Saleem, I. A. 2016. The Effect of Upper Removable Orthodontic Appliances on Oral Candidal Mucosal Carriage. *J. Bagh. College Dentistry*. 28(3):137-141.

Perbandingan Efektivitas Ekstrak Chitosan 2% dan Chlorhexidine 2% terhadap Candida albicans pada
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Universitas Gadjah Mada, 2017 | Diunduh dari http://etd.repository.ugm.ac.id/

Sardi, J.C.O., Scorzoni, L., Benardi, T., Fusco-Almeida, A.M., dan Giannini, M.J.S.M. 2013. Candida Species: Current Epidemiology, Pathogenicity, Biofilm Formation, Natural Antifungal Products and New Therapeutic Options. *J. Med. Microbiol*. 62:1-15.

Serra, G., Morais, L.S., Elias, C.N. 2013. Surface morphology changes of acrylic resins during finishing and polishing phases. *Dental Press J.Orthod*. 8(6):1-5.

Sharma, D., dan Pathak, A.K. 2013. Biofilm Associated Microorganisms on Removable Oral Orthodontic Appliances in Children in the Mixed Dentition. *The Journal of clinical pediatric dentistry*. 37(3):335-340.

Shenoi, P.R., Morey, E.S., Makade, C.S., Gunwal, M.K., Khode, R.T., Wanmali, S.S. 2016. In vitro evaluation of the antimicrobial efficacy of chitosan and other endodontic irrigants against Enterococcus faecalis. *Gen. Dent*. 64(5):60-3.

Singh. G. 2008. *Textbook of Orthodontics, ed 2*. New Delhi: Jaypee. Hal. 420-444.

Subramani, K., Ahmed, W., Hartsfield, J.K. 2013. *Nanobiomaterials in Clinical Dentistry.* Elsevier. Hal. 203-206.

Suci, A.P., Tyler, J.B. 2002. Action of Chlorhexidine Digluconate against Yeast and Filamentous Forms in an Early-Stage Candida albicans Biofilm. *Antimicrobial Agents and Chemotherapy Article*. 1-5.

Tan, H., Ma, R., Lin, C., Liu, Z., and Tang, T. 2013. Quaternized Chitosan as an Antimicriobial Agent: Antimicrobial Activity, Mechanism of Action and Biomedical Applications in Orthopedics. *Int. J. Mol. Sci*. 14:1854-1869.

Tjay, T.H., Raharja, K. 2007. *Obat-obat Penting*. Jakarta: PT. Elex Media Komputindo. Hal. 58.

Vianna, M. E., Gomes, B. P. F. A. 2009. Efficacy of sodium hypochlorite combined with chlorhexidine against Enterococcus faecalis in vitro. *Elsevier*. 107(4):588-598.

Williams, D., dan Lewis, M. 2011. Pathogenesis and Treatment of Oral Candidiasis. *Journal of Oral Microbiology.* 3(10): 1-8.

Williams, J.K., Cook, I., Thom. 1998. *Alat-alat Ortodonti Cekat : Prinsip dan Praktik* (terj). Jakarta: EGC. Hal. 16-20.

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Yi, H., Wu, L.Q., Bentley, W.E., Ghodssi, R., Rubloff, G.W., Culver, J.N., and Payne, G.F. 2005. Biofabrication with Chitosan. *Biomacromolecules*. 6(6):2881-2894.

Zhou, X., Li, Y. 2015. *Atlas of Oral Microbiology: From Healthy Microflora to Disease, ed. 1*. Chengdu: Academic Press. Hal. 106-109.