UNIVERSITAS GADJAH MADA
EFEKTIVITAS DAYA ANTIBAKTERI MEMBRAN KLORHEKSIDIN-GELATIN-KARBONAT APATIT TERHADAP BAKTERI PERIODONTOPATIK Fusobacterium nucleatum
NORMA YUNIAR, Dr. drg. Ahmad Syaify, Sp.Perio(K); drg. Osa Amila Hafiyyah, M.DSc., Sp.Perio
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Armitage, G. C. dan Robertson, P. B., (2009) The Biology, Prevention, Diagnosis and Treatment of Periodontal Diseases. *J. Am. Dent. Assoc*. 140:36S-43S.

Aronson, J. K., (2006) *Meyler's Side Effects of Drugs The International Encyclopedia of Adverse Drug Reactions and Interactions*. 15th ed. Philadelphia: Elsevier Science. pp 714-719.

Balouiri, M., Sadiki, M. dan Ibnsouda, S. K., (2016) Methods for in vitro evaluating antimicrobial activity: A review. *J. Pharm. Anal*. 6(2): 71–79.

Barralet, J., Best, S. dan Bonfield, W. (1997) Carbonate substitution in precipitated hydroxyapatite : An investigation into the effects of reaction temperature and bicarbonate ion concentration. *J. Biomed. Mater. Res*. 41(1998): 79–86.

Bennett, K. W. dan Eley, A. (1993) Fusobacteria: New taxonomy and related diseases. *J. Med. Microbiol*. 39:246–254.

Bogdanovska, L., Sali, S., Popovska, M., Muratovska, I., Dimitrovska, A., dan Petkovska, R. (2014) Therapeutic effects of local drug delivery systems-PerioChip® in the treatment of periodontal disease. *Macedonian pharmaceutical bulletin*. 60(1):3-8.

Bolstad, A. I., Jensen, H. B. dan Bakken, V. (1996) Taxonomy, biology, and periodontal aspects of Fusobacterium nucleatum. *Clin. Microbiol. Rev*. 9(1):55–71.

Chang, M. C., Ko, C. C. dan Douglas, W. H. (2003) Preparation of hydroxyapatite-gelatin nanocomposite. *Biomaterials*. 24(17):2853-2862.

Curcio, M., Altimari, I., Gianfranco, U., Cirillo, G., Vittorio, O., Puoci, F., Picci, N., dan Iemma, F. (2013) Biodegradable gelatin-based nanospheres as pH-responsive drug delivery systems. *J. Nanopart. Res*. 15(1581):1-11.

Daniel, W. W. (2009) *Biostatistics: A Foundation for Analysis in the Health Sciences*. 9th ed. New Jersey: John Wiley & Sons, Inc. pp 189-191.

Doron, L., Coppenhagen-Glazer, S., Ibrahim, Y., Eini, A., Naor, R., Rosen, G., dan Bachrach, G. (2014) Identification and characterization of fusolisin, the Fusobacterium nucleatum autotransporter serine protease. *PLoS ONE*. 9(10):1-13.

Fardini, Y., Wang, X., Témoin, S., Nithianantham, S., Lee, D., Shoham, M., dan Han, Y.W. (2011) Fusobacterium nucleatum adhesin FadA binds vascular endothelial cadherin and alters endothelial integrity. *Mol. Microbiol*. 82(6):1468-1480.

Friess, W. (1998) Collagen – biomaterial for drug delivery. *Eur. J. Pharm. Biopharm*. 45(2):113–136.

UNIVERSITAS GADJAH MADA
EFEKTIVITAS DAYA ANTIBAKTERI MEMBRAN KLORHEKSIDIN-GELATIN-KARBONAT APATIT TERHADAP BAKTERI PERIODONTOPATIK Fusobacterium nucleatum
NORMA YUNIAR, Dr. drg. Ahmad Syaify, Sp.Perio(K); drg. Osa Amila Hafiyyah, M.DSc., Sp.Perio
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Gendron, E., Grenier, D., Sorsa, T., Mayrand, D. (1999) Inhibition of the Activities of Matrix Metalloproteinases 2, 8, and 9 by Chlorhexidine. *Clin. Diagn. Lab. Immunol*. 6(3):437-439.

Gilbert, P. dan Moore, L. E. (2005) Cationic antiseptics: Diversity of action under a common epithet. *J. Appl. Microbiol*. 99(4):703-715.

Gursoy, U. K., Könönen, E. dan Uitto, V. J. (2008) Stimulation of epithelial cell matrix metalloproteinase secretion by fusobacteria. *Oral. Microbiol. Immunol*. 3(17):432-434.

Han, Y. W. (2015) Fusobacterium nucleatum: a commensal turned pathogen. *Curr. Opin. Microbiol*. 141–147.

Harvey, R. A., Cornelissen, C. N. dan Fisher, B. D. (2013) Lippincott's Illustrated Reviews: Microbiology. *J. Chem. Inf. Model*. 53(9):1689-1699.

Jain, R., Jhinger, N. dan Kapoor, D. (2015) Comparison of Periochip (chlorhexidine gluconate 2.5 mg) and Arestin (Minocycline hydrochloride 1 mg) in the management of chronic periodontitis. *Indian J. Dent*. 6(1),1-22.

Katzung, B., Masters, S. dan Trevor, A. (2012) Basic & clinical pharmacology. 12th ed. New York: McGraw-Hill Lange. pp 894-895.

Kumar, A. J., Reddy, B. V. R. dan Chava, V. K. (2014) Effect of chlorhexidine chip in the treatment of chronic periodontitis. *J. Nat. Sci. Biol. Med*. 5(2):268-272.

Landi, E., Celotti, G., Logroscino, G., dan Tampieri, A. (2003) Carbonated hydroxyapatite as bone substitute. *J. Eur. Ceram*. 23(15): 2931–2937.

Leboffe, M. J. dan Pierce, B. E. (2010) *Microbiology: Laboratory Theory and Application*. 3rd ed. Englewood: Morton Publishing Company. pp 25-28, 268-271.

Mandlik, C. V. dan Jha, L. C. A. (2007) Periochip : Drug Review. *MJAFI*. 63:368-369.

Mohammad, N. F., Othman, R. dan Yee-yeoh, F. (2014) Nanoporous Hydroxyapatite Preparation Methods for Drug Delivery Applications. *Rev. Adv. Mater. Sci*. 38(2014):138-147.

Mohammed, N., Ayad, E., Navarro, D., Costa, A. M., dan Henrique, M. (2017) Chlorhexidine Adsorption in Hydroxyapatite and Alginate Microspheres by Extrusion in Zinc and Calcium Chloride. *Key Eng. Mater*. 720: 25–30.

Murugan, R., Ramakrishna, S. dan Panduranga Rao, K. (2006) Nanoporous hydroxy-carbonate apatite scaffold made of natural bone. *Mater*. 60(23): 2844–2847.

Nair, S. C. dan Anoop, K. R. (2012) Intraperiodontal pocket: An ideal route for local antimicrobial drug delivery. *J. Adv. Pharm. Technol. Res*. 3(1):9-15.

UNIVERSITAS GADJAH MADA
EFEKTIVITAS DAYA ANTIBAKTERI MEMBRAN KLORHEKSIDIN-GELATIN-KARBONAT APATIT TERHADAP BAKTERI PERIODONTOPATIK Fusobacterium nucleatum
NORMA YUNIAR, Dr. drg. Ahmad Syaify, Sp.Perio(K); drg. Osa Amila Hafiyyah, M.DSc., Sp.Perio
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Narbat, M. K., Orang, F., Hashtjin, M.S., Goudarzi, A. (2006) Fabrication of porous hydroxyapatite-gelatin composite scaffolds for bone tissue engineering. *Iran. Biomed. J*. 10(4):215–223.

Newman, M. G., Takei, H. H. dan Klokkevold, P. R. (2015) *Carranza's Clinical Periodontology*. 12th ed. Missouri: Elsevier Saunders. pp 50-51, 449-450.

Patini, R., Staderini, E., Lajolo, C., Lopetuso, L., Mohammed, H. (2018) Relationship between oral microbiota and periodontal disease : a systematic review. *Eur. Rev. Med. Pharmacol. Sci*. 22:5775–5788.

Popova, C., Dosseva-Panova, V. dan Panov, V. (2013) Microbiology of periodontal diseases. A review. *Biotechnol. Biotechnol. Equip*. 27(3):3754–3759.

Puri, K., Dodwad, V., Bhat, K., Puri, N. (2019) Effect of controlled-release PeriochipTM on clinical and microbiological parameters in patients of chronic periodontitis. *J. Indian. Soc. Periodontol*. 17(5):605–611.

Ryan, M. E. (2005) Nonsurgical approaches for the treatment of periodontal diseases. *Dent. Clin. North. Am*. 49(2005):611–636.

Sanpo, N. dan Tharajak, J. (2017) Antimicrobial Property of Hydroxyapatite Derivative Nanoparticles. *Appl Mech Mater*. 866: 81–84.

Shepherd, J. H., Shepherd, D. V dan Best, S. M. (2012) Substituted hydroxyapatites for bone repair. *J. Mater. Sci: Mater. Med*. (2012)23:2335–2347.

Signat, B., Roques, C., Poulet, P., Duffaut, D. (2011) Role of Fusobacterium nucleatum in periodontal health and disease. *Curr. Issues Mol. Biol*. 13(2):25–36.

Siqueira Jr, J. F. dan Lopes, H. P. (1999) Mechanisms of antimicrobial activity of calcium hydroxide : a critical review. *Int. Endod. J*. 32:361–369.

Sivakumar, M. dan Rao, K. P. (2002) Preparation, characterization and in vitro release of gentamicin from coralline hydroxyapatite-gelatin composite microspheres. *Biomaterials*. 23:3175–3181.

Soskolne, W. A., Chajek, T., Flashner, M., Landau, I., Stabholtz, A., Kolatch, B., dan Lerner, E. I. (1998) An in vivo Study of the chlorhexidine release profile of the PerioChip TM in the gingivai crevicular fluid, plasnnaand urine. *J. Clin. Periodontol*. 25:1017–1021.

Souza, C. A. S. de., Colombo, A. P. V., Souto, R. M., Silva-Boghossian, C. M., Granjeiro, J. M., Alves, G. G., Rossi, A. M., dan Rocha-Leão, M. H. M. (2011) Adsorption of chlorhexidine on synthetic hydroxyapatite and in vitro biological activity. *Colloids Surf. B Biointerfaces*. 87(2):310–318.

Stanley, A., Wilson, M. dan Newman, H. N. (1989) The in vitro effects of chlorhexidine on subgingival plaque bacteria. *J. Clin. Periodontol*. 16(4):259–264.

UNIVERSITAS
GADJAH MADA
EFEKTIVITAS DAYA ANTIBAKTERI MEMBRAN KLORHEKSIDIN-GELATIN-KARBONAT APATIT TERHADAP BAKTERI PERIODONTOPATIK Fusobacterium nucleatum
NORMA YUNIAR, Dr. drg. Ahmad Syaify, Sp.Perio(K); drg. Osa Amila Hafiyyah, M.DSc., Sp.Perio
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Tabary, N., Chai, F., Blanchemain, N., Neut, C., Pauchet, L., Bertini, S., Delcourt-Debruyne, E., Hildebrand, H. F., dan Martel, B. (2014) A chlorhexidine-loaded biodegradable cellulosic device for periodontal pockets treatment. *Acta Biomater*. 10(1):318–329.

Tada, S., Chowdhury, E. H., Cho, C. S., dan Akaike, T. (2010) pH-sensitive carbonate apatite as an intracellular protein transporter. *Biomaterials*. 31(6): 1453–1459.

Tanwar, J., Hungund, S. A. dan Dodani, K. (2003) Nonsurgical periodontal therapy: A Review. *J. Oral Res. Rev*. 8:39-44.

Tonetti, M. S., Jepsen, S. dan Jin, L. (2017) Impact of the global burden of periodontal diseases on health, nutrition and wellbeing of mankind : A call for global action. *J. Indian Soc. Periodontol*. 44:456–462.

Tortora, G. J., Funke, B. R. dan Case, C. L. (2010) *Microbiology: An Introduction*. 10th ed. San Fransisco: Pearson Education Inc. pp 195-197.

Villagrana, A. N. dan Francisco, G. (2012) Antimicrobial or Subantimicrobial Antibiotic Therapy as an Adjunct to the Nonsurgical Periodontal Treatment : A Meta-Analysis. *ISRN*. 1-11.