

DAFTAR PUSTAKA

- Abed, Soumya El, Saad Koraichi Ibensouda, Hassan Latrache, Fatima Hamadi. 2012. *Scanning Electron Microscopy (SEM) and Environmental SEM : Suitable Tools for Study of Adhesion Stage and Biofilm Formation*. Vol 35, March, pp.717-725.
- Agnihotri, S.A., Mallikarjuna, N.N., and Aminabhavi, T.M. 2004. *Recent advances on chitosan-based micro- and nanoparticles in drug delivery*. Journal of Controlled Release, 100:5-28.
- Aranaz I, Mengibar M, Harris R, Panos I, Miralles B, Acosta N, et al. *Functional Characterization of Chitin and Chitosan*. Curr Chem Biol 2009;3:203-30.
- Badan Litbang Kesehatan. *Riset Kesehatan Dasar. Departemen Kesehatan Republik Indonesia*. 2007.
- Byung-Do Chun, Sung-Won Kim, Sung-Tak Lee, Tae-Hoon Kim, Jung-Han Lee, Gyoo-Cheon Kim, Yong-Deok Kim, Uk-Kyu Kim. 2011. *Interaction Between Odontoblast and Bio-Calcium Phosphate Cement Reinforced with Chitosan*. J Korea: School of Dentistry, Pusan National University, 415-20.
- Caramelo, Carlos, Enrique Martinez-Ansemil. 2010. *Morphological investigations of microdrile oligochaetes (Annelida, Clitellata) using scanning electron microscopy*. University of A Coruna
- Chen F, Shi Z, Neoh KG, Kang ET. 2009. *Antioxidant and antibacterial activities of eugenol and carvacrol-grafted chitosan nanoparticles*. Biotechnol Bioeng;104:30–9.
- Chen MC, Mi FL, Liao ZX, Hsiao CW, Sonaje K, Chung MF, Hsu LW, Sung HW. 2013. *Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules*. Adv Drug Deliv Rev;65:865–79.
- Cohen S. Diagnostic procedures. In: Cohen S, Burns RC. 2000. *Pathway of the pulp*. 3rd ed. London: CV Mosby Co; p. 5–35.
- Dammaschke, T. 2010. *Rat molar teeth as a study model for direct pulp capping research in dentistry*. J Operative Dentistry Germany vol 44 no 1;1-6.
- Dahlan, M. Sopiudin. 2004. *Statistika untuk Kedokteran dan Kesehatan (CD Tutorial Interaktif : Seri Evidence Based Medicine 1 edisi 3)*.
- David E. Witherspoon. Joel C. Small. Gary Z. Harris. 2006. *Mineral Trioxide Aggregate Pulpotomies: A Case Series Outcomes Assessment*. J American Dental Association vol 137.
- Eduardo Galia Reston, Costa, Carlos Alberto de Souza. 2008. *Scanning Electron Microscopy Evaluation of The Hard Tissue Barrier After Pulp Capping with*

Calcium Hydroxide, Mineral Trioxide Aggregate (MTA) or ProRoot MTA. Brazil:Lutheran University of Brazil.

Effendi, M. C. 2012. *Nanopartikel mineral trioksida meningkatkan proliferasi dan diferensiasi sel punca pulpa gigi serta maturasi sel ke arah odontoblas.* Jakarta:Universitas Indonesia.

Estina. 2010. *Jenis dan Ciri-Ciri Tikus Laboratorium Disertai Gambar* (online). (<http://dokterternak.wordpress.com/2010/11/05/jenis-dan-ciri-ciri-tikus-laboratorium-disertai-gambar/>, diakses 21 januari 2015)

Fang Li, Xin Liu, Shouliang Zhao, Hong Wu, Hockin H.K.Xu. 2013. *Porous Chitosan Bilayer Membrane Containing TGF-B1 Loaded Microspheres for Pulp Capping and Reparative Dentin Formation in A Dog Model.* J China:School of Stomatology, Fourth Military and Medical University, 172-181.

Fitzgerald M. 1985. *Pulp Capping of Dental Pulp Mechanically Exposed to Oral Microflora.* 156-168

Ford, T. R Pitt. 1993. *Restorasi Gigi.* Jakarta: EGC.

Gonzales, 2001. *Direct Pulp Capping with adhesive resins and composite criteria of selection and modification of the technique.* J Priory Medical, Salamanca, Spain.

Harty, F.J. and R. Ogston. 1993. *Kamus Kedokteran Gigi.* Jakarta : EGC

Haskell EW, Stanley HR, Chellemi J, Stringfellow H. 1978. *Direct pulp capping treatment: a long-term follow-up.* JADA;97:607-12.

Holister, Paul., Weener, Jan W., et al. 2003. *Nanoparticles.* Cientifica. (online) (www.cientifica.com, diakses 29 Desember 2014).

Horst et al. 2009. *TGF- β 1 Inhibits TLR-mediated Odontoblas Responses to Oral Bacteria.* JDR vol. 88 no. 4 333-338.

Jain PK, Lee KS, El-Sayed IH, et al. *Calculated absorption and scattering properties of gold nanoparticles of different size, shape, and composition: applications in biological imaging and biomedicine.* J Phys Chem B. 2006a; 110:7238–7248.

Jong Eun Lee, Seoung Eun Kim, Ick Chan Kwon, Hyun Jeong Ahn, Hyunchul Cho, Sang-Hoon Lee, Hee Joong Kim, Sang Cheol Seong, Myung Chul Lee. 2004. *Effects of a Chitosan Scaffold Containing TGF- β 1 Encapsulated Chitosan Microspheres on In Vitro Chondrocyte Culture.* J Seoul, Biomedical Research Center Korea:28(9):829-839.

- Kikuchi H., Suzuki K., Sakai N., Yamada S. *Odontoblasts Induced from Mesenchymal Cells of Murine Dental Papillae in Three Dimensional Cell Culture*. Cell Tissue Res 2004;317(2):173-85.
- Kusumawati, D. 2004. *Bersahabat dengan Hewan Coba*. Yogyakarta:UGM Press.
- Lippincott Williams & Wilkins. 2008. Atlas Histologi diFiore; dengan Korelasi Fungsional ed 11. Jakarta: EGC.
- Machida Y, Nagai T, Abe M, Sannan T. 1986. *Use of chitosan and hydroxyl propyl chitosan in drug formulations to effect sustained release*. Drug Dis Deliv;1:119-30.
- Massa LF., Ramachandran A., George A., Arana-Chavez VE. *Developmental Appearance of Dentin Matrix Protein 1 during The Early Dentinogenesis in Rat Molars as Identified by High Resolution Immunocytochemistry*. Histochem Cell Biol 2005;123(3-4):197-205.
- Matsuo T, Nakanishi T, Shimizu H, Ebisu S. 1996. *A clinical study of direct pulp capping applied to carious-exposed pulps*. J Endod;22:551-6.
- Mjor IA, Tronstad L. 1972. *Capping of The Inflamed Pulp*. Oral Surgery, Oral Medicine, Oral Pathology 477-485
- Mohanraj VJ, Y Chen. 2006. *Nanoparticles*. Tropical Journal of Pharmaceutical Research;Nigeria : Faculty of Pharmacy, University of Benin.
- Moretti ABS, Sakai VT, Oliveira TM, Fornetti APC, Santos CF, Machado MAAM, Abdo RCC. *The effectiveness of mineral trioxide aggregate, calcium hydroxide and formocresol for pulpotomies in primary teeth*. Int J Endod 2008;41:547-55.
- Murray et al. 2002. *Hierarchy of Variabels correlated to odontoblas-like cell numbers following pulp capping*. Journal of Dentistry Vol 30, Issues 7–8, September–November, pages 297–304.
- Murray. 2002. *Analysis Of Pulpal Reactions To restorative Procedures materials. Pulp capping, and Future Therapies*. Crobm Vol.13 No. 6509-520
- Muzzarelli RAA, Biagini G, Bellardini M, Simonelli L, Castaldini C, Fratto G. 1993. *Osteoconduction exerted by methylpyrrolidinone chitosan used in dental surgery*. Biomaterials;14(1):39-43.
- Muzzarelli RAA. 1989. *Amphoteric derivatives of chitosan and their biological significance*. In: Skjak-Brak G, Anthonsen T, Sandford P, editors. Chitin and chitosan. New York: Elsevier; p. 87-99.
- Nakanishi T. Et al. *Bacterial Irritation and Pulpa Response in Pulpitis*. Shikoku Dent Research 2002;14(2):255-63.

- Nur Rahmansyah. 2014. [online]. *Chitosan, Mengungkap Keajaiban Serat Cangkang Kepiting*. (<http://www.poskosehat.com/chitosan-mengungkap-keajaiban-serat-cangkang-kepiting/> diakses 24 Maret 2015).
- Oktaviana, A. 2009. *Teknologi Penginderaan Mikroskopi*. Universitas Sebelas Maret: Surakarta.
- Peniche H, Peniche C. 2011. *Chitosan nanoparticles: a contribution to nanomedicine*. *Polymer Int*;60:883–9.
- Qi L, Xu Z. 2006. *In vivo antitumor activity of chitosan nanoparticles*. *Bioorg Med Chem Lett*;16:4243–5.
- Rybachuk AV., Checkman, Ivan S., Nevesna. 2009. *Nanotechnology and Nanoparticles in Dentistry*. Bohomolets Medical University. (online) (www.nbu.gov.ua, diakses 29 Desember 2014).
- Sabir A, Tabbu CR, Agustiono P, Sosroseno W. *Histological analysis of rat dental pulp tissue capped with propolis*. *J Oral Sci*. 2005;47:135-8.
- Sarkar NK., Caicedo R., Ritwik P., Moiseyeva R., Kawashima I. *Physicochemical Basis of The Biologic Properties of Mineral Trioxide Aggregate*. *J Endod* 2005;31(2):97-100.
- Schroder U & Granath LE. 1972. *Scanning Electron Microscopy of Hard Tissue Barrier Following Experimental Pulpotomy of Intact Human Teeth and Capping with Calcium Hydroxide*. *Odontologisk Revy* 211-220.
- Smith, AJ. 2003. *Vitality of the dentin-pulp complex in health and disease: growth factors as key mediators*. *Journal of Dental Education* vol. 67 no. 6678-689, Juni.
- Smith, J.B., Mangkoewidjojo. 1988. *Pemeliharaan, Pembiakan dan Penggunaan Hewan Percobaan di Daerah Tropis*. Penerbit UI, Jakarta 1-18
- Stanley HR. 1998. *Criteria for standardizing and increasing credibility of direct pulp capping studies*. *Am J Dent*;11(Spec Iss): S17–34.
- Steffen R.V., Waes H. *Understanding Mineral Trioxide Aggregate/Portland-Cement: A Review of Literature and Background Factors*. *European Archives of Paed Dent* 2009;10(2):93-7.
- Supranto, J. 2000. *Statistik Teori dan Aplikasi, edisi ke-6*. Jakarta: Erlangga.
- Takashi Komabayashi. Qiang Zhu. 2010. *Innovative endodontic therapy for anti-inflammatory direct pulp capping of permanent teeth with a mature apex*. *J Oral Surg Endod* 109(5);75-81.
- Tarigan, R. 2006. *Perawatan pulpa gigi (endodonti)*. Jakarta: EGC

- Torabinejad, M, Walton, RE. *Endodontics: Principles and Practice. 4th Edition*. Elsevier Health Sciences. March 2008.
- Torneck DC., Torabinejad M. Biologi Jaringan Pulpa Gigi dan Jaringan Periradikuler. Dalam:Walton RE., Torabinejad M (Eds). *Prinsip dan Praktik Ilmu Endodonsia 3rd*. Terj. Sumawinata N. Jakarta:EGC 2008:12-38.
- Trimurni Abidin. 2007. *Inovasi Perawatan Konservasi Gigi Melalui Teknologi Tissue Engineering*. Universitas Sumatra Utara.
- Tronstad, L. 2008. *Clinical Endodontics : A Textbook*.
- Tsunemori Matsunaga, Yanagiguchi, Kajiro., Yamada, Shizuka., Ohara, Naoko., Ikeda Takeshi., Hayashi, Yoshihiko. 2005. *Chitosan Monomer Promotes Tissue Regeneration on Dental Pulp Wounds*. Japan:Nagasaki University School Biomedical Sciences 852-8588.
- University of Minnesota Board of Regents. 2009. *Guidelines for The Use of Anesthetics, Analgesics and Tranquilizers in Laboratory Animals*.
- University of Minnesota Board of Regents. 2009. *Euthanasia Guidelines*.
- Vanderlip S. 2003. *The Guinea Pig Handbook*. Barron's Educational Series Inc., U.S.
- Wang, D. Chen, F. 2010. A Patent Survey. *Novel Technologies for The Prevention and Treatment of Dental Caries*; 20: 681-694.
- Webster TJ, Pareta RA, Taylor E. *Increased Osteoblast Density in The Presence of Novel Calcium Phosphate Coated Magnetic Nanoparticles*. *Nanotechnology*. 2008;19(26):265101.
- Widodo T. 2003. *Klasifikasi radang pulpa dan indikasi perawatannya. dentofasial*. *Jurnal Kedokteran Gigi*; Edisi Khusus (1): 256–60.
- Widodo T. 2005. *Respons imun humoral pada pulpitis (Humoral immune response on pulpitis)*. *Maj. Ked. Gigi. (Dent. J.)*, Vol. 38. No. 2: 49–51.
- Wilson W, Kannangara K, Smith G, Simmons M, Raguse B. *Nanotechnology. Basic science and emerging technologies*. University of New South Wales Press 2004;26-255.