

DAFTAR PUSTAKA

- Ali, S.G., Mulay, S., 2015, Pulpitis: A review, *IOSR J.Dent.Medicap.Sci.*, 14(8):92-97.
- Akhlaghi, N., Khademi, A., 2015, Outcomes of vital pulp therapy in permanent teeth with different medicaments based on review of the literature, *Dent.Res.J.*, 12(5):15-406-417.
- Apriani, L., Iskandar, G.M., dan Said, M., 2012, Pengaruh Variansi Konsentrasi NaOH terhadap Nilai Derajat Diasitelasi pada Pembuatan Chitosan dari Cangkang Kepiting, *Jurnal Teknik Kimia*, 18(1): 35-40.
- Bergenholtz, G., Axelsson, S., Davidson, T. Frisk, F. , Hakeberg, M., Kvist, T., Norlund, A., Patersson, A., Portenier, I., Sandberg, H., Tranceus, S., Mejare, 2013, I. Treatment of pulps in teeth affected by deep caries – A systematic review of the literature, *Singapore Dent. J.*, 1,1-12.
- Bjørndal, L., 2002, Dentin and pulp reactions to caries and operative treatment: biological variables affecting treatment outcome Non-cavitated caries pathology and clinical implications. *Endo.Topics*, 2(12):10–23.
- Cavalcanti, B.N., Rode, S.M., França, C.M., Marques, M.M., 2011 Pulp capping materials exert an effect on the secretion of IL-1 β and IL-8 by migrating human neutrophils, *Brazillia Oral Res.*, 25(1):13-18.
- Coulthard, P., Horner, K., Sloan, P., Theaker, E.D., 2003, *Master Dentistry: Oral and Maxillofacial Surgery, Oral and Maxillofacial Surgery Radiology, Pathology, and Oral Medicine*, Elsevier Science Limited, United Kingdom, h.305-409.
- Dewi, A.S., Fawzya, Y. N., 2006, Studi pendahuluan: Penggunaan berulang larutan natrium hidroksida dalam pembuatan kitosan. *Prosiding Seminar Nasional Himpunan Kimia Indonesia*. (1):154-161.
- Chou, T.C., Fu, E., Shen, E.C., 2003, Chitosan inhibits prostaglandin E2 formation and cyclooxygenase-2 induction in ipopolysaccharidetreated RAW 264.7 Macrophages, *Biochem. Biophys. Res. Commun.*, 308(2):403-407.
- Cormack, D. H. 2001. Essential histology. *Lippincott Williams & Wilkins*. America, h.151.
- Cox, C.F., Suzuki, S., 1994, Re-evaluating pulp protection: calcium hydroxide liners vs. cohesive hybridization, *J.Am.Dent.Assoc.*, 125, 823–31.
- Cox, C.F., Subay, R.K., Ostro E, Suzuki S, Suzuki SH, 1996, Tunnel defects in dentin bridge: their formation following direct pulp capping, *Oper Dent.*, 21, 4–11.

- Cruz, M.C., Murphy, T., Morris, M., Cummins, E., Kerry, J.P., 2013, Antimicrobial activity of chitosan, organic acids, and nano-sized solubilisates for potential use in smart antimicrobially-active packaging for potential food applications, *Food Contr.*, 34(1):393-397.
- Cupertino, R.R., Fabri F.V., Veltrini, V.C., Hidalgo, M.M., Bruschi, M.L., Oliveira, R.M., 2016, Histological evaluation of the rat dental pulp after indirect capping with sildenafil or L-NAME incorporated into a bioadhesive thermoresponsive system, *Acta.Sci.Health.Sci.*, 38(1):95-101.
- Da Silveira, R.C., Andrade, L.N., de Oliveira, R.R.B., de Sousa, D.P., 2014, A Review on Anti-Inflammatory Activity of Phenylpropanoids Found in Essential Oils, *Molecules*, 19: 1459-1480.
- Douglass, A.B., Douglass, J.M., 2003, Common Dental Emergencies, *Am.Fam.Physician*, 67(3):511-516.
- Enggardipta, R.A., 2016, Ekspresi Siklooksigenase-2 dan jumlah sel inflamasi setelah pemberian eugenol pada pulpitis ireversibel, *Tesis*, Fakultas Kedokteran Gigi Universitas Gajah Masa, Yogyakarta, h.30.
- Falster, C.A., Auraujo, F.B., Straffon, L.H., Nör, J.E., 2002, Indirect pulp treatment: in vivo outcomes of an adhesive resin system vs calcium hydroxide for protection of the dentin-pulp complex, *Pediatr.Dent.*, 24(3):241-248.
- Friedman, A.J., Phan, J., Schairer, D.O., Champer, J, Qin M., Pirouz, A., Blecher-Paz, K., Oren, A., Liu, P.T., Modlin, R.L., Kim, J., 2013, Antimicrobial and Anti-Inflammatory Activity of Chitosan-Alginate Nanoparticles: A Targeted Therapy for Cutaneous Pathogens, *J.Invest.Dermatol.*, 133(1):1231-1239.
- Gaikwad, B.V., Koli, J.M., Sharangdher, S.T., Patange, S.B., 2015, Physicochemical and functional properties of chitosan extracted from crab (*Scylla serrata*) by different chemical processing sequence, *Int.J.Sci.and.Appl.Res.*, 104(1):203-209.
- Gartner, L.P., Hiatt J.L., 2003, *Color Textbook of Histology*, Saunders Elsevier, Philadelphia, h. 117, 124, 231. 27.
- Gehrig, S.J., Wilmann, D.E., 2008, *Foundation of Periodontics for The Dental Hygienist*, Wolter Kluwer, Illinois, h.41-70.
- Goldberg, M., Njeh, A., Uzunoglu, E., 2015, *Is Pulp Inflammation a Prerequisite for Pulp healing and Regeneration?*, Hindawi Publ.Corp, United States, Vol 1(1):1-11.
- Gomathysankar, S., Halim, A. S., dan Yaacob, N. S., 2014, Proliferation of

Keratinocytes Induced by Adipose Derived Stem Cells on a Chitosan Scaffold and its Role in Wound Healing, a Review, *Arch.Plast.Surg.*, 41 (5): 452-457.

Grossman, J., 1995, Ilmu Edodontik Dalam Praktek, Penerbit Buku Kedokteran EGC, Jakarta, h.299.

Haniastuti, T., 2008, Potential role of odontoblasts in the innate immune response of dental pulp, *Dent.J.*, 41 (3):142-146.

Hargreaves, Kenneth M., Harold E. Goodis, Seltzer, S., 2002, *Seltzer and Bender's dental pulp*, Quintessence Pub. Co, Chicago, h.84.

Hamre, H.J., Mittag, I., Glockmann, A., Kiene, H., Troger, W., 2011, Pulpa Dentis D30 for acute *Reversible* Pulpitis:A Prospective Cohort Study in Routine Dental Practice, *Alternatice Therapies*, *Altern.Ther.*, 17(1):16-21.

Hilton, T.J., 2009, Keys to Clinical Success with pulp Capping:A Review of the Literature, *Oper.Dent.*, 34(5):615-625.

Ingle, J.I., Bakland, L.K., 2002, *Endodontics*, BC Decker, Ontario, h.25–55.

Jain, N., Gupta, A., Meena, N., 2013, An Insight into Neurophysiology of Pulpal Pain: Facts and Hypothese, *Korean J.Pain*, 26(4):347-355.

Johns, D.G., Webb, R.C., 2016, TNF- α -induced endothelium-independent vasodilation: a role for phospholipase A₂-dependent ceramide signaling, *Am.Phys.Soc.*, 20(1):102-109.

Junqueira, L.C., Carneiro J., 2003, Basic Histology, 10th ed, The Mc Graw-Hill Companies, United States, h. 99, 101, 103, 238.

Kaida, K., Yamashita, H., Toda, K., and Hayashi, Y., 2013, Effect of Glucosamine on Tooth Pulpal Nociceptive Responses in the Rat, *J.Dent.Sci.*, 8(1): 69-74.

Kaida, K., Yamashita, H., Toda, K., and Hayashi, Y., 2014, Suppressive Effects of D-Glucosamine on the 5-HT Sensitive Nociceptive Units in the Rat Tooth Pulpal Nerve, *Bio.Med.Res.Int.*, 5(1):133-138.

Kidd, E.A., Smith., B.G., Watson, T.F., 2003, Pickard's *Manual of Operative Dentistry*, Eighth edition, Oxford University Ress, England, h. 10,18.

Komariah, A., 2011, Efektivitas Antibakteri Nano Chitosan terhadap Pertumbuhan *Staphylococcus aureus* (in vitro), *Seminar Nasional I Pendidikan Biologi FKIP UNS*. 20(1):103-112.

Kusumaningsih, T., Masykur, A., dan Arief, U., 2004, Pembuatan Kitosan dari Kitin Cangkang Bekicot (*Achatina fulica*), *Biofarmasi*, 2(2): 64-68.

- Lesbani, A., Yusuf, S., Melviana, M., 2011, Karakterisasi Kitin dan Kitosan dari Cangkang Kepiting Bakau (*Scylla Serrata*), *Jurnal penelitian Sains*, 14(3):32-36.
- Li, G.L., Lin, J.J., Wang, Z.L., Cai, W.K., Wang, P.N., Jia, Q., Zhang, A.S., Wu, G.Y., Zhu, G.X., Ni, L.X., 2015, Melatonin attenuates inflammation of acute pulpitis subjected to dental pulp injury, *Am.J.Transl.Res.*, 7(1):66-78.
- Lin, J., Cai, W., Kuang, R., Zhang, Z., Yang, Y.X., Sun, C., Li, Z., Kuang, F., 2015, Toll-like receptor 4 signaling in neurons of trigeminal ganglion contributes to nociception induced by acute pulpitis in rats, *Sci.Rep.*, 1(5):1-14.
- Martino, A.D., Sittinerm M., Risbud, M.V., 2005, Chitosan: A versatile biopolymer for orthopaedic tissue-engineering, *Biomaterials*, 26(1):5983-5990.
- Mooduto, L., 2012, *Respons Imun Pada Inflamasi Jaringan Pulpa*, Revka Petra Media, Surabaya, h.9-12.
- Muzzarelli, R.A., 2009, Chitins and Chitosans for the repair of wounded skin, nerve, cartilage, and bone, *Carbohydr.Polym.*, 76(1):167-182.
- Okamoto, Y., Shibasaki, K., Minami, S., Matsushashi, A., Tanioka, S., Shigemasa, Y., 1995, Evaluation of chitin and chitosan in open wound healing in dogs. *J.Vet.Med.Sci.*, 57(1):851-854.
- Pashley, D.H., Tay, F.R., 2012, *Pulpodentin complex In Seltzer And Bender's Dental Pulp* 2nd Ed, Quintessence Pub Co. Inc., Germany, h. 47-65.
- Pereira, J.C., Segala, A. D., and Costa, C. A. S., 2000, Human pulpal response to direct pulp capping with an adhesive system, *Am.J.Dent.*, vol. 13, no. 3, h.139-147.
- Riede, U.M., Werner, M., 2004, *Color Atlas of Pathology*, Thieme, New York, h.194.
- Roeslan, B.O., 2002, *Imunologi Oral Kelainan di Dalam Rongga Mulut*, Fakultas Kedokteran Universitas Indonesia, Jakarta. h.203-214.
- Rukmini, 2009, Prospek dan Teknologi Pembesaran Kepiting Bakau (*Scylla spp.*), *Workshop Program Peningkatan Budaya kelautan dan Wawasan Maritim kepada Masyarakat*, Jakarta, h.248 -259.
- Samar, M.M., El-Kalyoubi, M.H., Khalaf, M.M., El-Razik, A., 2013, Physicochemical, functional, antioxidant and antibacterial properties of

- chitosan extracted from shrimp wastes by microwave technique. *Ann.Agric.Sci.*, 58(1):33-41.
- Sandra, E., 2004, *Kultur Jaringan Anggrek Skala Rumah Tangga*, Agromedia, Jakarta, h.26.
- Serhan, C. N., Ward, P. A., dan Gilroy, D. W., 2010, *Fundamentals of Inflammation*, Cambridge University Press, New York, h. 39-61.
- Shelley, C., 2011, Mud crab aquaculture, *Food Agric.Org.Uni.Nat.*, p1.20(1):3003-315.
- Suh, J.K., Matthew H.W., 2000, Application of chitosan-based polysaccharide biomaterials in cartilage tissue engineering: a review, *Biomaterials*, 21(24):2589–2598.
- Walton, R.E., Torabinejad, M., 2009, *Principles and practice of endodontics* 4th ed., Saunders Company, Philadelphia, h. 1,7,21, 28, 38-40, 49-56.
- Trisnawati, E., Andesti, D., Saleh, A., 2013, Pembuatan Kitosan dari Limbah Cangkang Kepiting sebagai Bahan Pengawet Buah Duku dengan Variasi Lama Pengawetan, *Jurnal Teknik Kimia*, 2(19):17-26.
- Trivedi, J. N., Vachhrajani, K.D., 2013, Taxonomic account of genus *Scylla* (de Haan, 1833) from Gujarat State, India with two new records of species, *Arthropods*, 2(4):159-171.
- Usman, A., Zia, K.M., Zuber, M., Tabasum, S., Rehman, S., 2016, Chitin and chitosan based polyurethanes: A review of recent advances and prospective biomedical applications, *Int.J.Bio.Macro.*, 86(1):630-645.
- Walton, R.E., Torabinejab, M., 2008, *Prinsip & Praktik Ilmu Endodonsia*, Ed ke-3, EGC, Jakarta, h.33, 36-8, 332, 413-4, 589-90.
- Widodo, T., 2005, Respons imun humoral pada pulpitis, *Majalah Kedokteran Gigi*, 38(2):56-74.
- Whicher, J., dan Evans, S. W., 2012, *Biochemistry of Inflammation*, Springer, Manchester, h.96-98.
- Yoon, H.J., dkk, 2007, Chitosan oligosaccharides (COS) Inhibits LPS Induced inflammatory effect in RAW 264.7 Macrophage Cells, *Biochem.Biophys.Res.Comm.*, No. 358. 954-959.
- Yu, C., Abbott P.V., 2007, An overview of the dental pulp: its functions and responses to injury. *Aust.Dent.J.*, 52(1):4–16.