

DAFTAR PUSTAKA

- Adilah, Sylvia, M., dan Hamid T., 2010, Proses Fisiologi Pergerakan Gigi Ortodonti, *Ortho. Dent. J.*, 1(1): 8-13.
- Alawiyah, T., 2007, Komplikasi dan Risiko yang Berhubungan dengan Perawatan Ortodonti, *J. Ilmiah WIDYA*, 4(1): 256-61.
- Alfaqeeh, S.A., dan Anil, S., 2014, Gingival Crevicular Fluid Flow Rate and Alkaline Phosphatase Level as Potential Marker of Active Tooth Movement, *OHDM*, 13(2): 458-63.
- Anonim, 2017, Kandungan Kafein dalam Bubuk Cokelat Hershey's Natural Unsweetened, diunduh dari <https://www.caffeineinformer.com/caffeine-content/cocoa-powder>, (06/12/2017).
- Ardhana, W., 2013, Identifikasi Perawatan Ortodontik Spesialistik dan Umum, *Dent. J.*, 20(1): 1-8.
- Ariffin, S.H.Z., Yamamoto, Abidin, I.Z.Z., Wahab, R.M.A., dan Ariffin, Z.Z., 2011, Cellular and Molecular Changes in Orthodontic Tooth Movement, Review Article, *Sci. World J.*, 11: 1788-803.
- Baud'huin M., Solban, N., Cornwall-Brady, M., Sako, D., Kawamoto, Y., Liharska, K., Lath, D., Bouxsein, M.L., Underwood, K.W., Ucran, J., Kumar, R., Pobre, E., Grinberg, A., Seehra, J., Canalis, E., Pearsall, R.S., dan Croucher, P.I., 2012, A Soluble Bone Morphogenetic Protein Type IA Receptor Increases Bone Mass and Bone Strength, *Proc. Natl. Acad. Sci. USA*, 109(30): 12207-12.
- Berkovitz, B., Holland, G., dan Moxham, B., 2017, *Oral Anatomy Histology and Embryology* 5th ed., Elsevier, NY, h. 241.
- Berta, I.K., Arjana, A.A.G., Sudira, I.W., Merdana, I.M., Budiasa, I.K., dan Oka, I.B.M., 2010, Studi Patologi Kejadian Cysticercosis pada Tikus Putih, *J. Vet.*, 11(4): 232-7.
- Chaukse, A., Jain, S., Dubey, R., Chaukse, N., Kawadkae, A., dan Jain, G., 2012, Basic Orthodontic Knowledge for General Practitioners, *JOFR*, 2(3): 146-52.
- Combe, E.C., 1992, *Sari Dental Material* (terj.), Balai Pustaka, Jakarta, h. 270.
- Faccioni, F., Franceschetti, P., Cerpelloni, M., dan Fracasso, M.E., 2003, In Vivo Study on Metal Release from Fixed Orthodontic Appliances and DNA Damage in Oral Mucosa Cells, *Am. J. Orthod. Dentofac. Orthop.*, 124(6): 687-93.

- Federer, W., 2008, *Statistics and Society: Data Collection and Interpretation* 2th ed., Markel Deker, New York, h. 472.
- Fercec, J., Glisic, B., Scepan, I., dan Maravic, E., 2012, Dtermination of Stress and Forces on the Orthodontic System by Using Numerical Stimulation of the Finite Elements Method, *Acta Phys. Pol.*, 122(4): 659-65.
- Fracon, R. N., Teofilo, J. M., Satin, R. B., dan Lamano, T., 2008, Prostaglandind and Bone: Potential Risk and Benefits Related to the Use of Nonsteroidal Anti-Inflammatory Drugs in Clinical Dentistry, *J. Oral Sci.*, 50(3): 247-52.
- Franco, R., Onatibia-Astibia, A., dan Martinez-Pinilla, E., 2013, Health Benefits of Methylxanthines in Cacao and Chocolate, *Nutrients*, 5: 4159-73.
- Graber, L., Vanarsdall, R., dan Vig, K., 2011, *Orthodontics: Current Principles and Techniques* 5th ed., Elsevier, Philadelphia, h. 136.
- Grigodiaris, A.E., Kennedy, M., Bozec, A., Brunton, F., Stenbeck, G., Park, I.H., Wagner, E.F., dan Keller, G.M., 2010, Directed Differentiation of Hematopoietic Precursors and Functional Osteoclasts from Human ES and iPS Cells, *Blood*, 115(14): 2769-76.
- Hand, A. R. dan Frank, M. E., 2015, *Fundamentals of Oral Histology and Physiology*, Wiley, New Jersey, h. 130-32.
- Harada, S. dan Rodan, G.A., 2003, Control of Osteoblast Function and Regulation of Bone Mass, *Nature*, 423: 349-55.
- Haritha, K., Kalyani, L., dan Rao, A.L., 2014, Health Benefits of Dark Chocolate, *Adv. Drug Deliv. Rev.*, 1(4): 184-95.
- Heckman, M. A., Weil J., dan Gonzalez de Mejia, E., 2010, Caffeine (1, 3 , 7-trimethylxanthine) in Foods: A Comprehensive Review on Consumption, Functionality, Safety, and Regulatory Matters, *J. Food Sci.*, 75(3): 77-87.
- Henneman, S., Von den Hoff, J.W., dan Maltha, J.C., 2008, Mechanobiology of Tooth Movement, *Eur. J. Orthod.*, 30: 299-306.
- Herniyati, Narmada, I.B., dan Soetjipto, 2017, The Role of RANKL and OPG in Alveolar Bone Remodelling and Improvement of Orthodontic Tooth Movement Post Coffee Brew Administration, *JIDMR*, 10(1): 84-8.
- Hikmah, Nuzulul, 2015, Profil Osteoblas dan Osteoklas Tulang Alveolar pada Model Tikus Diabetes tahap Awal dengan Aplikasi Gaya Ortodonti yang Berbeda, *El-Hayah*, 5(2): 97-102.

- Hikmah, N., Dewi, A., dan Maulana, H., 2016, Rasio Osteoklas dan Osteoblas pada Tulang Alveolar Model Tikus Diabetes dengan Aplikasi Gaya Ortodonti, *J. Kedokteran Brawijaya*, 29(1): 54-8.
- Intan, Z.A., Shahrul, H.Z.A., Rohaya, M.A.W., Sahidan, S., dan Zaidah, Z.A., 2008, Osteoclast and Osteoblast Development of *Mus musculus* Haemopoietic Mononucleated Cells, *J. Biol. Sci.*, 8(3): 506-16.
- Jazaldi, F. dan Purbiati, M., 2008, Perawatan Kasus Diastema Multipel secara Multidisiplin (Laporan Kasus), *JDI*, 15(3): 212-25.
- Jonsson, T., Arnlaugsson, S., Karlsson, K.O., Ragnarsson, B., Arnarson, E.O., dan Magnusson, T.E., 2007, Orthodontic Treatment Experience and Prevalence of Malocclusion Traits in an Icelandic Adult Population, *Am. J. Orthod. Dentofac. Orthop.*, 129(4): 469-500.
- Kini, U. dan Nandeesh, B. N., 2012, Physiology of Bone Formation, Remodeling, and Metabolism, in I. Fogelman, (ed.): *Radionuclide and Hybrid Bone Imaging*, Springer, Berlin, 29-31.
- Kovalkovicova, N., Sutiakova, I., Pistl, J., dan Sutiak, V., 2009, Some Food Toxic for Pets, *Interdisc Toxicol*, 2(3): 169-76.
- Krishnan, V. dan Davidovitch, Z., 2006, Cellular, Molecular, and Tissue-Level Reactions to Orthodontic Force, *Am. J. Orthod. Dentofac. Orthop.*, 129(4): 469-500.
- Lacerda, S.A., Matuoka, R.I., Macedo, R.M., Petenusci, S.O., Campos, A.A., dan Brentegani, L.G., 2010, Bone Quality Associated with Daily Intake of Coffee: A Biomechanical, Radiographic, and Histometric Study, *Braz. Dent. J.*, 21(3): 199-204.
- Latif, R., 2013, Chocolate/Cocoa and Human Health: A Review, *J. Med.*, 71(2): 63-8.
- Laurence, B., Keith, P., Donald, B., dan Iain, B., 2008, *Goodman and Gildman's Manual of Pharmacology and Therapeutics*, McGraw-Hill, Boston, 46.
- Leary, S., dkk., 2013, *AVMA Guidelines for the Euthanasia of Animals*, American Veterinary Medical Association, Schaumburg, 27-30.
- Liu, S. H., Chen C., Yang R.S., Yen Y.P., Yang Y.T., dan Tsai C., 2011, Caffeine Enhances Osteoclast Differentiation from Bone Marrow Hematopoietic Cells and Reduces Bone Mineral Density in Growing Rats, *J. Orthop. Res.*, 29(6): 954-60.

- Liveina dan Artini, I.G.A., 2015, Pola Konsumsi dan Efek Samping Minuman Mengandung Kafein pada Mahasiswa Program Studi Pendidikan Dokter Fakultas Kedokteran Universitas Udayana, *E-Jurnal Medika Udayana*, 3(4): 414-26.
- Lynch, S.E., Genco, R.J., dan Marx, R.E., 1999, *Tissue Engineering: Applications in Maxillofacial Surgery and Periodontics*, Quintessence Publishing Co., Chicago, h. 83-9.
- Marshall, S., Chocolate: Indulgence or Medicine?, *Pharm. J.*, 278: 399-401.
- Masella, R.S. dan Meister, M., 2006, Current Concepts in the Biology of Orthodontics Tooth Movement, *Am. J. Orthod. Dentofac. Orthop.*, 129(4): 458-68.
- Mckim, W. A. dan Hancock, S., 2012, *Drugs and Behavior: An Introduction to Behavioral Pharmacology* 7th ed., Pearson Education, US, h. 211.
- Meitha dan Widurini, 2003, Pengaruh Daun Lidah Buaya terhadap Peradangan Jaringan Mukosa Rongga Mulut, *JKG UI*, 10(edisi khusus): 472-277.
- Mescher, A.L., 2016, *Junqueira's Basic Histology: Text and Atlas* 14th ed, McGraw Hill Education, United States, h. 138-40.
- Mitchell, D. C., Knight, A. C., Hockenberry, J., Teplansky, R., dan Hartman, T. J., 2014, Beverage Caffeine Intakes in the US, *FCT*, 63: 136-42.
- Moreau, J.F., Bacelar, P., Eduardo, S.E., dan da Silva, E., 2015, Bioactive Compounds in Different Cocoa (*Thebroma cacao*, L) Cultivaris during Fermentation, *Food Sci. Technol*, 35(2): 279-84.
- Muntiha, M., 2001, *Teknik Pembuatan Histopatologi dari Jaringan Hewan dengan Pewarnaan Hematoksilin dan Eosin (HE)*, Balai Penelitian Veteriner, Bogor, h. 156-68.
- Nanci, A, 2013, *Ten Cate's Oral Histology: Development, Structure, and Function* 8th ed., Elsevier, Missouri, h. 1-2.
- Nanda, R., 2012, *Esthetics and Biomechanics in Orthodontics*, Elsevier Saunders, Philadelphia, h. 98.
- Narmada, I. B. dan Syafei, A., 2008, The Role of Mechanical Force in Molecular and Cellular During Orthodontic Tooth Movement, *JDI*, 15(3): 226-31.
- Neve, A., Corrado, A., dan Cantatore, F.P., 2010, Osteoblast Physiology in Normal and Pathological Conditions, *Cell Tissue Res.*, 343(2): 289-302.

- Niinomi, M., Narushima, T., Nakai, M., 2015, *Advances in Metallic Biomaterials-Tissue, Materials, and Biologival Reaction*, Springer, Berlin.
- Ngatidjan, 1991, *Petunjuk Laboratorium: Metode Laboratorium dalam Toksikologi*, FK UGM, Yogyakarta, h. 94.
- Okamoto, M., Murai, J., Yoshikawa, H., dan Tsumaki, N., 2006, Bone Morphogenetic Proteins in Bone Stimulate Osteoclasts and Osteoblasts during Bone Development, *JBMR*, 21(7): 1022-33.
- Ong, E., McCallum, H., Griffin, M.P., dan Ho, C., 2010, Efficiency of Self-ligating vs Conventionally Ligated Brackets during Initial Alignment, *Am J Orthod Dentofacial Orthop*, 138(2): 1-7.
- Proffit, W.R., 2007, *Contemporary Orthodontics* 4th ed., Mosby Elsevier, St. Louis, h. 331-5.
- Raggat, L.J., dan Partridge, N.C., 2010, Cellular and Molecular Mechanisms of Bone Remodeling, *JBC*, 285(33): 25103-8.
- Ramayulis, R., Pramantara, I.D., dan Pangastuti, R., 2011, Asupan Vitamin, Mineral, Rasio Asupan Kalsium dan Fosfor, dan Hubungannya dengan Kepadatan Mineral Tulang Kalkaneus Wanita, *JGKI*, 7(3): 115-22.
- Ramos, D.F., Welmer, A.D., dan Hana, M., 1979, A Study of the Forces Produced by Various Preformed Uprighting Springs, *Am. J. Orthod.*, 76(6): 637-45
- Rapuri, P.B., Gallagher, J.C., Nawaz, Z., 2007, Caffeine Decreases Vitamin D Receptor Protein Expression and 1,25(OH)₂D₃ Stimulated Alkaline Phosphatase Activity in Human Osteoblast Cells, *J. Steroid Biochem. & Mol. Bio.*, 103: 368-71.
- Ridwan, E., 2013, Etika Pemanfaatan Hewan Percobaan dalam Penelitian Kesehatan, *J. Indon. Med. Assoc.*, 63(3): 112-6.
- Sabane, A., Patil, A., Swami, V., dan Nagarajan, P., 2016, Biology of Tooth Movement, *Br. J. Med. Res.*, 16(12): 1-10.
- Scanes, C., 2011, *Fundamentals of Animal Science*, Delmar Cengage Learning, New York, h. 99.
- Shirazi, M., Vaziri, H., Salari, B., Motahhari, P., Etemad-Moghadam, S., dan Dehpour, A.R., 2017, The Effect of Caffeine on Orthodontic Tooth Movement in Rats, *IJBMS*, 20(3): 260-4.
- Simbolon, I.S., Seniorita, A., dan Adam M., 2013, Persentase Spermatozoa Hidup pada Tikus Wistar dan *Sprague dawley*, *J. Med. Vet.*, 7(2). 79-83.

- Smith dan Mangkowidjojo, S., 1998, *Pemeliharaan, Pembiakan, dan Penggunaan Hewan Percobaan di Daerah Tropis* edisi 1, UI Press, Jakarta, h. 37-9.
- Santoso, H.B., 2006, Struktur Mikroskopis Kartilago Epifisialis Tibia Fetus Mencit (Mus musculus L.) dari Induk dengan Perlakuan Kafein, *Bek. Penel. Hayati*, 12: 69-74.
- Struck, M.B., Andrutis, K.A., Ramirez, H.E., dan Battles, A.H., 2011, Effect of a Short-term Fast on Ketamine-Xylazine Anesthesia in Rats, *JAALAS*, 50(3): 344-8.
- Sugiyono, 2012, *Statistika untuk Penelitian*, Alfabeta, Bandung, 122.
- Taddei, S.R.A., Moura, A.P., Andrade, I., Garlet, G.P., Garlet, T.P., Teixeira, M.M., dan Silva, T.A., 2012, Experimental Model of Tooth Movement in Mice: A Standardized Protocol for Studying Bone Remodeling Under Compression and Tensile Strains, *J. Biomech.*, 45: 2729-35.
- Tsuang, Y., Sun, J., Chen, L., Sun, S.C., dan Chen, S., 2006, Direct Effect of Caffeine on Osteoblastic Cells Metabolism: the Possible Causal Effect of Caffeine on the Formation of Osteoporosis, *J. Orthop. Surg. Res.*, 1(7).
- Wang, Y., Zhu, J., dan DeLuca, H.F., 2012, Where is the Vitamin D Receptor?, *Arch. Biochem. Biophys*, 523: 123-33.
- Wesensten, N.J., 2014, Legitimacy of Concerns about Caffeine and Energy Drink Consumption, *Nutrition Reviews*, 72(S1): 78-86.
- Wongdee, K. dan Charoenphandhu, N., 2011, Osteoporosis in Diabetes Mellitus: Possible Cellular and Molecular Mechanisms, *Worl J. Diabet.*, 2(3): 41-8.
- Yi, J., Yan, B., Li, M., Wang, Y., Zheng, W., Li, Y., dan Zhao, Z., 2016, Caffeine may Enhance Orthodontic Tooth Movement through Increasing Osteoclastogenesis Induced by Periodontal Ligament Cells under Compression, *Arch. Oral Biol.*, 64: 51-60.
- Yi, J., Zhang, L., Yan, B., Yang, L., Li, Y., dan Zhao, Z., 2012, Drinking Coffee may Help Accelerate Orthodontic Tooth Movement, *Dent. Hyphotheth.*, 3(2): 72-5.
- Zhang, X., Schwarz, E.M., Young, D.A., Puzas, J.E., Rosier, R.N., dan O'Keefe, R.J., 2002, Cyclooxygenase-2 Regulates Mesenchymal Cell Differentiation into the Osteoblast Lineage and is Critically Involved in Bone Repair, *J. Clin. Invest.*, 109(11): 1405-15.

Zhou, Y., Guan, X.X., Zhu, Z., Huang, Y.C., Hou, W.W., dan Yu, H.Y., 2010, Caffeine Inhibits the Viability and Osteogenic Differentiation of Rat Bone Marrow-Derived Mesenchymal Stromal Cells, *British J. Phar.*, 161: 1542-52.