



## DAFTAR PUSTAKA

- Abtahi M, Shafaee H, Saghravania N, Peel S, Giddon D, Sohrabi K. 2014. Effect of corticosteroids on orthodontic tooth movement in a rabbit model. *J Clin Pediatr Dent.* 38(3): 285–9.
- Aguiar MCS, Perinetti G, Capelli J. 2017. The Gingival Crevicular Fluid as a Source of Biomarkers to Enhance Efficiency of Orthodontic and Functional Treatment of Growing Patients. *Biomed Res Int.* 7 pages.
- Alhasyimi AA, Pudyani PS, Asmara W. 2018. Effect of carbonated hydroxyapatite incorporated advanced platelet rich fibrin intrasulcular injection on the alkaline phosphatase level during orthodontic relapse. AIP Conf Proc. 1933: 030006.
- Alikhani M, Chou MY, Khoo E, Alansari S, Kwal R, Elfersi T, Almansour A, Sangsuwon C, Al Jearah M, Nervina JM, Teixeira CC. 2018. Age-dependent biologic response to orthodontic forces. *Am J Orthod Dentofacial Orthop.* 153(5):632–644.
- Andriamanalijaona R, Benateau H, Barre PE, Boumediene K, Labbe D, Compere JF, Pujol JP. 2006. Effect of interleukin-1b on transforming growth factor-beta and bone morphogenetic protein-2 expression in human periodontal ligament and alveolar bone cells in culture: modulation by avocado and soybean unsaponifiables. *J Periodontol.* 77(7):1156-66.
- Ariffin S.H.Z., Yamamoto Z., Abidin I.Z.Z., Wahab R.M.A., Ariffin Z.Z. 2011. Cellular and Molecular Changes in Orthodontic Tooth Movement. *The Sci World J.* 11: 1788–803.
- Boskey AL, Coleman R. 2010. Aging and bone. *J Dent Res.* 89(12): 1333–48.
- Brahmantiyo B, Raharjo YC. 2005. Pengembangan Pembibitan Kelinci di Pedesaan dalam Menunjang Potensi dan Prospek Agribisnis kelinci. *Prosiding Lokakarya Nasional Potensi dan Peluang Pengembangan Usaha Agribisnis Kelinci.* Bogor.
- Brandi ML: Natural and synthetic isoflavones in the prevention and treatment of chronic diseases. *Calcif Tissue Int.* 1997; 61 (Suppl 1):S5–S8.
- Cardoso JR, Modadori RG, Bianchini E, Bão, SN. 2007. Effects of chronic exposure to soy meal containing diet or soy derived isoflavones supplement



on semen production and reproductive system of male rabbits. *Anim. Reprod. Sci.* 97(3-4): 237-45.

Compston J: Age-related changes in bone remodelling and structure in men: histomorphometric studies. *J Osteoporos.* 2011; 108324.

Demontiero O, Vidal C, Duque G. 2012. Aging and bone loss: new insights for the clinician. *Ther Adv Musculoskel Dis.* 4(2): 61–76.

Dole NS, Mazur CM, Acevedo C, Lopez JP, Monteiro DA, Fowler TW. 2017. Osteocyte-intrinsic TGF- $\beta$  signaling regulates bone quality through perilacunar/canalicular remodeling. *Cell Rep.* 21(9): 2585–96.

Erlebacher A, Filvaroff E.H, Ye JQ, Derynck R: Osteoblastic responses to TGF- $\beta$ 1 during bone remodeling. *Mol Biol Cell.* 1998; 9:1903-1918.

Feng X, McDonald JM. 2011. Disorders of Bone Remodeling. *Annu Rev Pathol.* 6(2): 121–45.

Franzen, T.F., Brudvik, P., Vandevska-Radunovic, V., 2013, Periodontal tissue reaction during orthodontic relapse in rat molars, *Eur J Orthod.* 35(2):152–9.

Gambacciani M, Levancini M. 2014. Hormone replacement therapy and the prevention of postmenopausal osteoporosis. *Prz Menopauzalny.* 13(4): 213–20.

Hess RA, Cooke PS. 2018. Estrogen in the male: a historical perspective. *Biology of Reproduction.* 99(1): 27–44.

Holesh JE, Bass AN, Lord M. 2020. Physiology, Ovulation. *NCBI Bookshelf.* StatPearls Publishing.

Hughes DE, Dai A, Tiffee JC, Li HH, Mundy GR, Boyce BF. 1996. Estrogen promotes apoptosis of murine osteoclasts mediated by TGF-beta. *Nat Med.* 2(10): 1132–6.

Hughes F.J., Turner W., Belibasakis G., Gianluca M. 2006. Effects of growth factors and cytokines on osteoblast differentiation. *Period 2000.* 41:48–72.

Janssens K, Dijke PT, Janssens S, Hul WV. 2005. Transforming Growth Factor- $\beta$ 1 to the Bone. *Endocrine Reviews.* 26(6):743-74.



- Jilge B. 1991. The rabbit: a diurnal or a nocturnal animal?. *J Exp Anim Sci.* 34(5-6): 170-83.
- Karsdal MA, Fjording MS, Foged NT, Delaisse' JM, Lochter A. 2001. Transforming Growth Factor- $\beta$  induced Osteoblast Elongation Regulates Osteoclastic Bone Resorption through a p38 Mitogen-activated Protein Kinase- and Matrix Metalloproteinase-dependent Pathway. *J. Biol. Chem.* 276(42): 39350.
- Kasagi S, Chen W. 2013. TGF-beta1 on osteoimmunology and the bone component cells. *Cell and Bioscience.* 3(4): 1-7.
- Khosla S, Oursler MJ, Monroe DG. 2012. Estrogen and the Skeleton. *Trends Endocrinol Metab.* 23(11): 576–81.
- Kim Y. 2017. Study on the perception of orthodontic treatment according to age: A questionnaire survey. *Korean J Orthod.* 47(4): 215-21.
- Krishnan V, Davidovitch Z. 2006. Cellular, molecular, and tissue-level reactions to orthodontic force. *Am J Orthod Dentofacial Orthop.* 129(4): 1-32.
- Krishnan V, Davidovitch Z. 2015. Biological Mechanisms of Tooth Movement. *John Wiley and Sons, Ltd., United Kingdom.* p. 73.
- Kuligowski M, Pawłowska K, Kuligowska IJ, dan Nowak J. 2016. Isoflavone composition, polyphenols content and antioxidative activity of soybean seeds during tempeh fermentation. *J of Food.* 15(1):27-33.
- Li Y., Jacox L.A., Little S.H., Chang Ko C. 2018. Orthodontic tooth movement: The biology and clinical implications. *Kaohsiung Journal of Medical Sciences.* 34: 207-214.
- Lopes J.C., Canhão H., Fonseca J.E. 2007. Osteoblasts and bone formation. *Acta Reum Port.* 32: 103-10
- Ma DF, Qin LQ, Wang PY, Katoh R. 2008. Soy Isoflavon Intake Inhibits Bone Resorption and Stimulates Bone Formation in Menopausal Women: meta-analysis of randomized controlled trials. *Eur J Clin Nutr.* 62(2): 155–61.
- Melguizo-Rodríguez L, Manzano-Moreno FJ, Illescas-Montes R. 2019. Bone Protective Effect of Extra-Virgin Olive Oil Phenolic Compounds by Modulating Osteoblast Gene Expression. *Nutrients.*; 11(8): 1722.



- Ming LG, Chen KM, Xian CJ. 2013. Functions and action mechanisms of flavonoids genistein and icariin in regulating bone remodeling. *J Cellular Physiology*. 228(3): 513-21.
- Ott SM. 2008. Reproductive Hormones and Skeletal Health in Young Women. *J Clin Endocrinol Metab*. 93(4): 1175–1177.
- Popat VB, Calis KA, Nelson LM. 2009. Bone Mineral Density in Estrogen-Deficient Young Women. *J Clin Endocrinol Metab*. 94(7): 2277-83.
- Proffit, W.R., Fields, H.W., Sarver D.M. 2012. *Contemporary Orthodontics*, 5<sup>th</sup> ed., Mosby Elsevier, St. Louis. pp.286-87, 607.
- Razi H, Birkhold A.I, Weinkamer R, Duda GN, Willie BM, Checa S: Aging leads to a dysregulation in mechanically driven bone formation and resorption. *J bone min res*. 2015; 30 (10):1864–1873.
- Rutkovskiy A., Stensløkken K.O., Vaage I.J. 2016. Osteoblast differentiation at a glance. *Med Sci Monit Basic Res*. 22: 95-106
- Siddiqui J.A. dan Partridge N.C. 2016. Physiological Bone Remodeling: Systemic Regulation and Growth Factor Involvement. *Physiology*. 31: 233–245.
- Schepdael A, Sloten JV, Geris L: A mechanobiological model of orthodontic tooth movement. *Biomech Model Mechanobiol*. 2013; 12:249–265.
- Subbarao K.C., Nattuthurai G.S., Sundararajan S.K., Sujith I, Joseph J, Syedshah Y.P. 2019. Gingival Crevicular Fluid: An Overview. *J Pharm Bioallied Sci*. 11 (Suppl 2): S135 – S139.
- Sugimoto E, Yamaguchi M: Anabolic effect of genistein in osteoblastic MC3T3-E1 cells. *Int J Mol Med*. 2000; 5: 515–520.
- Suparwitri S, Pudiyani PS, Haryana SM, Agustina D. 2016. Effects of soy isoflavone genistein on orthodontic tooth movement in guinea pigs. *Dent J (Maj Ked Gigi)*. 49(3): 168–74.
- Suparwitri S, Rosyida NF, Alhasyimi AA. 2019. Wheat seeds can delay orthodontic tooth movement by blocking osteoclastogenesis in rats. *Clin Cosmet Investig Dent*. 11(1): 243–9.
- Susilo SG, Amtha R, Roeslan BO, Kusnoto J. 2014. The differences of orthodontic



tooth movement on menstrual and ovulation cycle. *Dent. J (Maj. Ked. Gigi)*. 47(4): 177-180

Sutirsno S, Sulistyorini C, Manungkalit EM, Winarsih L, Noorhamdani N, Winarsih S. 2017. The effect of genistein on TGF-b signal, dysregulation of apoptosis, cyclooxygenase-2 pathway, and NF- $\kappa$ B pathway in mice peritoneum of endometriosis model. *Middle East Fertility Society Journal*. 22: 295–9.

Vitale DC, Piazza C, Melilli B, Drago F, Salomone S. Isoflavones: estrogenic activity, biological effect and bioavailability. *Eur J Drug Metab Pharmacokinet*. 2013; 38(1):15-25.

Yamaguchi M. Nutritional factors and bone homeostasis. 2012. Synergistic effect with zinc and genistein in osteogenesis. *Mol Cell Bioche*. 366(1-2): 201-21.

Yousef MI, Ibrahim K, Esmail AM, Baghdadi HH. 2004. Antioxidant activities and lipid lowering effects of isoflavone in male rabbits. *Food and Chemical Toxicology*. 42(9): 1497-503.