



DAFTAR PUSTAKA

- Aydinyurt, H.S., Sancak, T., Taskin, C., Basbugan, Y., and Akinci, L., 2020, Effects of Injectable Platelet-Rich Fibrin in Experimental Periodontitis in Rats, *Odontology*, 1-11.
- Barczyk, M., Bolstad, A.I., and Gullberg, D., 2013, Role of Integrins in the Periodontal Ligament: Organizers and Facilitators, *Periodontol. 2000*, 63(1): 29-47.
- Bartold, P.M. and Van Dyke, T.E., 2013, A Host-Mediated Disruption of Microbial Homeostasis Unlearning Learned Concepts, *Periodontol. 2000*, 62: 203-217.
- Bascones, A., Gamonal, J., Gomez, M., Silva, A., and Gonzalez, M.A., 2004, New knowledge of the pathogenesis of periodontal disease, *Quintessence International*, 706-716.
- Bhavsar, A.K., Parwen, S., Varadhan K.B., and Prabhiji, M.L.V., 2018, Critical Issues in Periodontal Regeneration-A Review, *J Oral Health Dent*, 2: 204.
- Calasans-maia M.D., Melo, B.R., Alves, A.T.N.N., Resende, R.F., Louro, R.S., Satoretti, S.C., Granjeiro, J.M., and Alves, G.G., 2015. Cytocompatibility and Biocompatibility of nanostructure carbonated hydroxyapatite spheres for bone repair, *J Appl Oral Sci*, 23(6): 599-608.
- Camelia, N.M. dan Masulili, S.L.C., 2011, Platelet-rich Plasma sebagai Pendekatan Perawatan Periodontal Regeneratif, *MIKGI*, 119-126.
- Chandran, P. and Sivadas, A., 2013, Platelet-Rich Fibrin: Its Role in Periodontal Regeneration, *KSUJDS*, 5(2): 117-122.
- Cho, Y., Seol, Y., Lee, Y., Rhyu, I., Ryoo, H., and Ku, Y., 2017, An Overview of Biomaterials in Periodontology and Implant Dentistry, *Adv. Mater. Sci. Eng*, 1-7.
- Choukroun, J. and Ghanaati, S., 2017, Reduction of Relative Centrifugation Force Within Injectable Platelet-Rich-Fibrin (PRF) Concentrates Advances Patients' Own Inflammatory Cells, Platelets and Growth Factors: the First Introduction to the Low Speed Centrifugation Concept, *Eur J Trauma Emerg Surg*, 44(1): 87- 95.
- Cinar, O., Bolat, M.S., Erdem, S., Kaymaz, E., Demirkiran, E.D., Girgin, R., Bulut, E., Akduman, B., and Mungan, N.A., 2019, The effect of an



antifibrotic agent, pirfenidone, on penile erectile function in an experimental rat model of ischemic priapism, *Springer Nature*, 1-7.

Citterio, F., Gualini, G., Fierravanti, L., and Aimetti, M., 2020, Stem Cells and Periodontal Regeneration, *Plast Aesthet Res*, 7(41).

Coelho, N. M. and McCulloch, C. A., 2016, Contribution of collagen adhesion receptors to tissue fibrosis, *Cell Tissue Res*, 365: 521–538.

Compston, J., Skingle, L., and Dempster, D.W., 2018, Bone Histomorphometry, Vol.1, Elsevier Inc, Amsterdam.

Danastri, A.A., Suryono, and Murdiastuti, K., 2021, The Influence Between Injectable Platelet-Rich Fibrin and Platelet-Rich Plasma Towards Gingival Fibroblast Cell Proliferation, *Odonto Dental Journal*, 8(2): 25-31.

Deas, D.E., Moritz, A.J., Sagun Jr., R.S., Gruwell, S.F., and Powell, C.A., 2016, Scaling and Root Planing vs. Conservative Surgery in the Treatment of Chronic Periodontitis, *Periodontol. 2000*, 71: 128-139.

Dinyati, M. dan Adam, A.M., 2016, Kuretase Gingiva sebagai Perawatan Poket Periodontal, *Makassar Dent. J*, 5 (2): 58-64.

Dohle, E., El Bagdadi, K., Sader, R., Choukroun, J., Kirkpatrick, C.J., and Ghanaati, S., 2017, Platelet-rich Fibrin-based Matrices to Improve Angiogenesis in an In Vitro Co-culture Model for Bone Tissue Engineering, *J Tissue Eng Regen M*, 12(6): 1-13.

Egan, K. P., Brennan, T. A., and Pignolo, R. J., 2012, Bone histomorphometry using free and commonly available software, *Histopathology*, 61(6): 1168–1173.

Feigin, K. and Shope, B., 2019, Use of Platelet-Rich Plasma and Platelet-Rich Fibrin in Dentistry and Oral Surgery: Introduction and Review of the Literature, *J Vet Dent*, 36(2): 109-123.

Fujioka-Kobayashi, M., Schaller, B., De Almeida Barros Mourao, C.F., Zhang, Y., Sculean, A., and Miron, R.J., 2020, Biological Characterization of an Injectable Platelet-Rich Fibrin Mixture Consisting of Autologous Albumin Gel and Liquid Platelet-Rich Fibrin (Alb-PRF), *Platelets*, 1-8.

Gollapudi, M., Bajaj, P., and Oza, R.R., 2022, Injectable Platelet-Rich Fibrin - A Revolution in Periodontal Regeneration, *Cureus*, 14(8): e28647.

Grenier, D., Chen, H., Lagha, A.B., Fournier-Larente, J., and Morin, Marie-Pierre., 2015, Dual Action of Myricetin on Porphyromonas gingivalis and the



Inflammatory Response of Host Cells: A Promising Therapeutic Molecule for Periodontal Diseases, PLoS ONE, 10(6): e0131758.

Guarnieri, R., Belleggia, F., DeVillier, P., and Testarelli, L., 2018, Histologic and Histomorphometric Analysis of Bone Regeneration with Bovine Grafting Material after 24 Months of Healing. A Case Report., *J. Funct. Biomater.*, 9(48).

Han, J., Menicanin, D., Gronthos, S., and Bartold, P.M., 2014, Stem Cells, Tissue Engineering and Periodontal Regeneration, *Aust Dent J*, 59(Suppl 1): 117-130.

Harsas, N.A., Safira, D., Aldilavita, H., Yukiko, I., Alfarikhi, M.P., Saadi, M.T., Feria, Q., Kiranahayu, R., dan Muchlisya, S., 2021, Curettage Treatment on Stage III and IV Periodontitis Patients, *J. Indones. Dent. Association*, 4(1): 47-54.

Heitz-Mayfield, L.J.A. and Lang, N.P. 2013, Surgical and Nonsurgical Periodontal Therapy Learned and Unlearned Concepts, *Periodontology 2000*, 62: 218-231.

Hienz, S.A., Paliwal, S., and Ivanovski, S., 2015, Mechanism of Bone Resorption in Periodontitis, *J. Immunol. Res*, 1-10.

Huynh, N. Cong-Nhat., Everts, V., Leethanakul, C., Pavasant, P., and Ampornaramveth, R.S., 2016, Rinsing with Saline Promotes Human Gingival Fibroblast Wound Healing *In Vitro*, PLoS ONE, 11(7): e0159843.

Ishihara, J., Ishihara, A., Fukunaga, K., Sasaki, K., White, M.J.V., Briquez, P.S., and Hubbell, J.A., 2018, Laminin Heparin-Binding Peptides Bind to Several Growth Factors and Enhance Diabetic Wound Healing, *Nat Commun.*, 9(2163): 1-14.

Izol, B.S. and Uner, D.D., 2019, A New Approach for Root Surface Biomodification Using Injectable Platelet-Rich Fibrin (I-PRF), *Med Sci Monit*, 25(6): 4744-4750.

Jong, T., Bakker, A.D., Everts, V., and Smit, T.H., 2017, The intricate anatomy of the periodontal ligament and its development: Lessons for periodontal regeneration, *J Periodont Res*, 1-10.

Kato, H., Taguchi, Y., Tominaga, K., Umeda, M., and Tanaka, A., 2014, Porphyromonas gingivalis LPS inhibits osteoblastic differentiation and promotes pro-inflammatory cytokine production in human periodontal ligament stem cells, *Archs Oral Biol*, 59: 167–175.



Kato, A., Miyaji, H., Ishizuka, R., Tokunaga, K., Inoue, K., Kosen, Y., Yokoyama, H., Sugaya, T., Tanaka, S., Sakagami, R., and Kawanami, M., 2015, Combination of Root Surface Modification with BMP-2 and Collagen Hydrogel Scaffold Implantation for Periodontal Healing in Beagle Dogs, *Open Dent. J.*, 9: 52-59.

Khan, M.H.I., Eka, S.A., and Iqbal, M.A., 2017, Management of Chronic Gingivitis with Localized Periodontitis by Nonsurgical (Phase I) Periodontal Therapy-A Case Report, *UpDCJ*, 7(2): 33-37.

Kinane D.F., Stathopoulou P.G., and Papapanou P.N., 2017, Periodontal diseases, *Nat Rev Dis Prim*, 3: 1-14.

Kodir, A.I.A., Herawati, D., dan Kwartarini, M., 2014, Perbedaan Efektivitas antara Pemberian secara Sistemik Ciprofloxacin dan Amoksisilin Setelah Scaling & Root Planing pada Periodontitis Kronis Penderita Hipertensi. *Maj Ked Gi Ind*, 5(4): 323-328.

Kornsuthisopon, C., Pirarat, N., Osathanon, T., and Kalpravidh, C., 2020, Autologous Platelet-Rich Fibrin Stimulates Canine Periodontal Regeneration, *Sci. Rep.*, 10(1850): 1-14.

Liang, Y., Luan, X., and Liu, X., 2020, Recent Advances in Periodontal Regeneration: A Biomaterial Perspective, *Bioact Mater*, 5(2): 297-308.

Lindhe, J. and Lang, N.P., 2015, Clinical Periodontology and Implant Dentistry Sixth Edition, Wiley Blackwell, United States.

Mallikarjunappa, A.S., George, S., Aghanashini, S., Bhat, D., Mundinamane, D.B., and Nadiger, S., 2021, Collagen-The Skeleton of the Periodontium: A Review, *J Sci Dent*, 11(1): 31-36.

Manning, P.J., Ringler, D.H., and Newcomer, C.E., 1994, *The Biology of The Laboratory Rabbit 2nd Ed.*, Academic Press, New York, hal. 2, 52, 73, 119-124.

Manoranjan, S.J., Faizuddin, M., Hemalatha, M., and Ranganath, V., 2012, The Effect of Platelet Derived Growth Factor-AB on Periodontal Ligament Fibroblast: An In Vitro Study, *J Indian Soc Periodontol*, 16(1): 49-53.

Mathew-Steiner, S.S., Roy, S., and Sen, C.K., 2021, Collagen in Wound Healing, *Bioengineering*, 8(63): 1-15.

Menicanin, D., Hynes, K., Han, J., Gronthos, S., and Bartold, P.M., 2015, Cementum and Periodontal Ligament Regeneration, *Adv Exp Med Biol*, 881: 207-236.



- Miron, R.J., Fujioka-Kobayashi, M., Hernandez, M., Kandalam, U., Zhang, Y., Ghanaati, S., and Choukroun, J., 2017, Injectable Platelet-Rich Fibrin (i-PRF): Opportunities in Regenerative Dentistry?, *Clin Oral Invest*, 21(8): 2619-2627.
- Mulawarmanti, D., Andriani, D., Damaiyanti, D.W., Khoirunnisa, F.P., and Juliatin, A.N., 2019, The effects of shark liver oil on fibroblasts and collagen density in the periodontal ligaments of Wistar rats induced with Porphyromonas gingivalis, *DJMKG*, 52(4): 209–214.
- Munoz-Carrillo, J.L., Hernandez-Reyes, V.E., Garcia-Huerta, O.E., Chavez-Ruvalcaba, F., Chavez-Ruvalcaba, M.I., Chavez-Ruvalcaba, K.M., and Diaz-Alfaro, L., 2019, Pathogenesis of Periodontal Disease, *InTech Open*, 1-14.
- Mysak, J., Podzimek, S., Sommerova, P., Lyuya-Mi Y., Bartova J., Janatova T., Prochazkova, J., and Duskova, J., 2014, Porphyromonas gingivalis: Major periodontopathic pathogen overview, *J Immunol Res*, 476068.
- Nath, S., Pulikkotil, S.J., Dharmarajan, L., Arunachalam, M., and Jing, K.T., 2020, Effect of locally delivered doxycycline as an adjunct to scaling and root planing in the treatment of periodontitis in smokers: A systematic review of randomized controlled trials with meta-analysis and trial sequential analysis, *Dent Res J*, 17(4): 235-243.
- Nayak, B.S., Kanhai, J., Milne, D.M., Pereira, L.P., and Swanston, W.H., 2011, Experimental evaluation of ethanolic extract of carapa guianensis L. leaf for its wound healing activity using three wound models, *Evidence-based Complement Altern Med*, 1–6.
- Newman, M.G., Takei, H.H., Klokkevold, P.R., and Carranza, F.A., 2019, *Newman and Carranza's Clinical Periodontology Thirteenth Edition*, Elsevier, Philadelphia, 209-210, 213-214.
- Oz, H.S. and Puleo, D.A., 2011, Animal Models for Periodontal Disease, *Biomed. biotechnol*, 754857: 1-8.
- Ozsagir, Z.B., Saglam, E., Yilmaz, B.S., Choukroun, J., and Tunali, M., 2020, Injectable Platelet-Rich Fibrin and Microneedling for Gingival Augmentation in Thin Periodontal Phenotype: A Randomized Controlled Clinical Trial, *J Clin Periodontol*, 47: 489-499.
- Polimeni, G., Xiropaidis, A.V., and Wiktorin, U.M.E., 2006, Biology and principles of periodontal wound healing/regeneration, *Periodontol 2000*. 41: 30-47.



Resende R.F.B., Sartoretto S.C., Uzeda M.J., Alves A.T.N., Calasan-maia J.A., Rossi A.M., Granjeiro J.M., and Calasans-Maia M.D., 2019, Randomized Controlled Clinical trial of nanostructured Carbonated Hydroxyapatite for alveolar bone repair, *Materials*, 12: 3645.

Schneider-Barthold, C., Baganz, S., Wilhelm, M., Scheper, T., and Pepelanova, I., 2016, Hydrogels based on collagen and fibrin-frontiers and applications, *Bionanomaterials*, 17(1-2): 3-12.

Shah, R., Triveni, M.G., Thomas, R., and Mehta, D.S., 2017, An Update on the Protocols and Biologic Actions of Platelet Rich Fibrin in Dentistry, *Eur J Prosthodont Restor Dent*, 25(2): 64-72.

Sharma, S.K., Mudgal, S.K., Thakur, K., and Gaur, R., 2020, How to calculate sample size for observational and experimental nursing research studies?, *Natl J Physiol Pharm Pharmacol*, 10(1): 1-8.

Shewale, A., Gattani, D., Bhasin, M.T., Bhatia, N., and Agarwal, A., 2016, Adjunctive Role of Supra- and Subgingival Irrigation in Periodontal Therapy, *IJPDSR*, 7(3): 152-159.

Silva, R.J., Saso, G.R.S., Cerri, E.S., Simoes M.J., and Cerri P.G., 2015, Biology of The Bone Tissue : Structur, Function, and Factor That Influence Bone Cells, *Biomed Res Int*, 17.

Smith, P.C., Martinez, C., Martinez, J., and McCulloch, C.A., 2019, Role of Fibroblasts Populations in Periodontal Wound Healing and Tissue Remodeling, *Front. Physiol.*, 10(270): 1-39.

Soeprapto, A., 2016, Pedoman dan Tatalaksana Praktik Kedokteran Gigi, STPI Bina Insan Mulia, Yogyakarta, 174-175.

Stubinger, S. and Dard, M., 2013, The Rabbit as Experimental Model for Research in Implant Dentistry and Related Tissue Regeneration, *J Invest Surg*, 26: 266–282.

Suryono, S., Wulandari, F.R., Andini, H., Widjaja, J., Nugraheni, T.D., 2020, Methodology in Wistar rats periodontitis induction: A modified ligation technique with injection of bacteria, *Int J Oral Health Sci*, 10(1): 36-40.

Suvik, A. and Effendy, A.W.M., 2012, The Use of Modified Masson's Trichrome Staining in Collagen Evaluation in Wound Healing Study, *MJVR*, 3(1): 39-47.



Takei, H.H., Carranza, F.A., and Shin, K., 2015, Gingival Surgical Techniques, in Newman, M.G., Takei, H.H., Klokkevold, P.R., and Carranza, F.A., *Carranza's Clinical Periodontology 12th*, Elsevier, Philadelphia.

Thanasrisuebwong, P., Surarit, R., Bencharit, S., and Ruangsawasdi, N., 2019, Influence of Fractionation Methods on Physical and Biological Properties of Injectable Platelet-Rich Fibrin: An Exploratory Study, *Int J Mol Sci*, 20(7): 1-10.

Thanasrisuebwong, P., Kiattavorncharoen, S., Surarit, R., Phruksaniyom, C., and Ruangsawasdi, N., 2020, Red and Yellow Injectable Platelet-Rich Fibrin Demonstrated Differential Effects on Periodontal Ligament Stem Cell Proliferation, Migration, and Osteogenic Differentiation, *Int. J. Mol. Sci*, 21(14): 5153-5165.

Varela, H.A., Souza, J.C.M., Nascimento, R.M., Araujo Jr, R.F., Vasconcelos, R.C., Cavalcante, R.S., Guedes, P.M., and Araujo, A.A., 2019, Injectable Platelet Rich Fibrin: Cell Content, Morphological, and Protein Characterization, *Clin Oral Investig*, 23(3): 1309-1318.

Varghese, J., Rajagopal, A., and Shanmugasundaram, S., 2022, Role of Biomaterials Used for Periodontal Tissue Regeneration—A Concise Evidence-Based Review. *Polymers*, 14(3038): 1-19.

Vuckovic, M., Nikolic, N., Milasin, J., Dordevic, V., Milinkovic, I., Asotic, J., Jezdic, Z., Jankovic, S., and Aleksic, Z., 2020, The effect of injectable platelet-rich fibrin use in the initial treatment of chronic periodontitis, *Srp Arh Celok Lek*, 148(5-6): 280-285.

Wang, X., Zhang, Y., Choukroun, J., Ghanaati, S., and Miron, R.J., 2017, Behavior of Gingival Fibroblasts on Titanium Implant Surfaces in Combination with either Injectable-PRF or PRP, *Int. J. Mol. Sci.*, 18(331): 1-15.

Wang, X., Zhang, Y., Choukroun, J., Ghanaati, S., and Miron, R.J., 2017, Effects of an Injectable Platelet-Rich Fibrin on Osteoblast Behavior and Bone Tissue Formation in Comparison to Platelet-Rich Plasma, *Platelets*, 29(1): 48-55.

Wend, S., Kubesch, A., Orlowska, A., Al-Maawi, S., Zender, N., Dias, A., Miron, R.J., Sader, R., Booms, P., Kirkpatrick, C.J., Choukroun, J., and Ghanaati, S., 2017, Reduction of the Relative Centrifugal Force Influences Cell Number and Growth Factor Release Within Injectable PRF-Based Matrices, *J Mater Sci Mater M*, 28(188): 1-11.



Witjaksono, W., Abusamah, R., and Kannan, T.P., 2006, Clinical evaluation in periodontitis patient after curettage, *Dent J*, 39(3): 102-106.

Zang, Zhi-Yong., Huang, Ai-Wen., Fan, J.J., Wei, K., Jin, D., Chen, B., Li, D., Bi, L., Wang, J., and Pei, G., 2013, The Potential Use of Allogeneic Platelet-Rich Plasma for Large Bone Defect Treatment: Immunogenicity and Defect Healing Efficacy, *Cell Transplant.*, 22:175-187.

Zheng, S., Zhang, X., Zhao, Q., Chai, J., and Zhang, Y., 2020, Liquid platelet-rich fibrin promotes the regenerative potential of human periodontal ligament cells, *Oral Dis.*, 26(8): 1755-1763.