



## DAFTAR PUSTAKA

- Agrawal, M., and Agrawal, V., (2014) Platelet Rich Fibrin and its Applications in Dentistry – A Review Article. *NJMDSR*. 2(3):51-58.
- Amarasekara, D. S., Kim, S., and Rho, J., (2021) Regulation of Osteoblast Differentiation by Cytokine Networks. *Int J Mol Sci*. 22(2851):1-16.
- Ansarizadeh, M., Mashayekhan, S., and Saadatmand, M., (2019) Fabrication, modeling and optimization of lyophilized advanced platelet rich fibrin in combination with collagen-chitosan as a guided bone regeneration membrane. *Int J Biol Macromol*. 125(1):383-91.
- Ardhiyanto, H. B., (2011) Peran Hidroksiapatit sebagai Bone Graft dalam Proses Penyembuhan Tulang. *J.K.G Unej*. 8(2):118-21.
- Avila, G., Nevins, M., Nevins, N., and Rasperini, G., (2011) Platelet-Derived Growth Factor Applications in Periodontal Bone Regeneration. *Expert Opinion on Biological Therapy*. 11(3):375-85.
- 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*. 109(1):1-11.
- Blatt, S., Thiem, D. G. E., Kyyak, S., Pabst, A., Al-Nawas, B., and Kammerer, P. W., (2021) Possible Implications for Improved Osteogenesis? The Combination of Platelet-Rich Fibrin With Different Bone Substitute Materials. *Frontiers in Bioengineering and Biotechnology*. 9(1):1-12.
- Bonazza, V., Borsani, E., Buffoli, B., Castrezzati, S., Rezzani, R., and Rodella, L. F., (2016) How the different material and shape of the blood collection tube influences the Concentrated Growth Factors production. *MRT*. 79(12):1-6.
- Borie, E., Beltran, V., Orsi, I., and Fuentes, R., (2015) Platelet-rich fibrin application in dentistry: A literature review. *Int J Clin Exp Med*. 8(5):7922-7929.
- Cahaya, C., and Masulili, S. L. C., (2015) Perkembangan Terkini Membran *Guided Tissue Regeneration/Guided Bone Regeneration* sebagai Terapi Regenerasi Jaringan Periodontal. *Maj Ked Gi Ind*. 1(1):1-11.
- Clipet, F., Tricot, S., Alno, N., Massot, M., Solhi, H., Cathelineau, G., Perez, F., Mello, G. D., and Pellen-Mussi, P., (2012) In vitro effects of Choukron's platelet-rich fibrin conditioned medium on 3 different cell lines implicated in dental implantology. *Implant Dentistry*. 21(1):51-6.



- Crea, A., Littarru, C., Deli, G., Lajolo, C., (2014) Intrabony Defects, Open-Flap Debridement, and Decortication: A Randomized Clinical Trial. *J Periodontol.* 85(1):34-42.
- Dempster, D., Cauley, J., Bouxsein, M., and Cosman, F., (2021) *Marcus and Feldman's Osteoporosis*, 5<sup>th</sup> ed. Academic Press. pp. 219
- Dietrich, T., Ower, P., Tank, M., West, N. X., Walter, C., Needleman, I., Hughes, F. J., Wadia, R., Milward, M. R., Hodge, P. J., and Chapple, I. L. C., (2019) Periodontal diagnosis in the context of the 2017 classification system of periodontal diseases and conditions – implementation in clinical practice. *BDJ.* 226(1):16-22.
- Fernández-Medina, T., Vaquette, C., and Ivanovski, S., (2019) Systematic comparison of the effect of four clinical-grade platelet rich hemoderivatives on osteoblast behaviour. *Int J Mol Sci.* 20(24):1-19.
- Fujioka-Kobayashi, M., Schaller, B., Mourao, C. F. D. A. B., 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.* 32(1):74-81.
- Gassling, V., Hedderich, J., Acil, Y., Purcz, N., Wiltfang, J., and Douglas, T., (2013) Comparison of platelet rich fibrin and collagen as osteoblast-seeded scaffolds for bone tissue engineering applications. *Clinical Oral Implants Research.* 0(2011):1-9.
- Graves, D. T., Li, J., and Cochran, D. L., (2011) Inflammation and Uncoupling as Mechanisms of Periodontal Bone Loss. *J Dent Res.* 90(2): 143-153.
- Joshipura, V., Yadalam, U., Brahmavar, B., (2017) Aggressive periodontitis: A review. *J Int Clin Dent Res Organ.* 7(1):11-17.
- Kargarpour, Z., Nasirzade, J., Panahipour, L., Miron, R. J., and Gruber, R., (2020) Liquid Platelet-Rich Fibrin and Heat-Coagulated Albumin Gel: Bioassays for TGF-β Activity. *Materials.* 13(3466):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. *Archives of Oral Biology.* 59(2):167-175.
- Kementerian Kesehatan Republik Indonesia, (2019) *Laporan Nasional RISKESDAS 2018*. Jakarta: Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan. pp. 204.



Kim, J., Ha, Y., and Kang, N. H., (2017) Effects of Growth Factors from Platelet-Rich Fibrin on the Bone Regeneration. *Journal of Craniofacial Surgery*. 28(4):860-5.

Kinane, D. F., Stathopoulou, P. G., and Papapanou, P. N., (2017) Periodontal diseases. *Nat Rev Dis Primers*. 3(17038):1-15.

Kökdere, N. N., Baykul, T., and Findik, Y., (2015) The use of platelet-rich fibrin (PRF) and PRF-mixed particulated autogenous bone graft in the treatment of bone defects: An experimental and histomorphometrical study. *Dent Res J*. 12(5):418-424.

Kumar, V., Abbas, A. K., and Aster, J. C., (2018) *Robbins Basic Pathology*. 10<sup>th</sup> ed. Pennsylvania: Elsevier. pp. 24, 88, 797-8.

Kyyak, S., Blatt, S., Pabst, A., Thiem, D., Al-Nawas, B., and Kammerer, P. W., (2020) Combination of an allogenic and a xenogenic bone substitute material with injectable platelet-rich fibrin – A comparative in vitro study. *Journal of Biomaterial Sciences*. 0(0):1-14.

Kyyak, S., Blatt, S., Schiegnitz, E., Heimes, D., Staedt, H., Thiem, D. G. E., Sagheb, K., Al-Nawas, B., and Kammerer, P. W., (2021) Activation of Human Osteoblasts via Different Bovine Bone Substitute Materials With and Without Injectable Platelet Rich Fibrin. *Frontiers in Bioengineering and Biotechnology*. 9(1):1-11.

Lee, H. M., Shen, E. C., Shen, J. T., Fu, E., Chiu, H. C., and Hsia, Y. J., (2020) Tensile strength, growth factor content and proliferation activities for two platelet concentrates of platelet-rich fibrin and concentrated growth factor. *JDS*. 15(2):141-6.

Li, Q., Pan, S., Dangaria, S. J., Gopinathan, G., Kolokythas, A., Chu, S., Geng, Y., Zhou, Y., and Luan, X., (2013) Platelet-Rich Fibrin Promotes Periodontal Regeneration and Enhances Alveolar Bone Augmentation. *Biomed Res Int*. 2013(1):1-14.

Li, Q., Reed, D. A., Min, L., Gopinathan, G., Li, S., Dangaria, S. J., Li, L., Geng, Y., Galang, M., Gajendrareddy, P., Zhou, Y., Luan, X., and Diekwisch, T. G. H., (2014) Lyophilized platelet-rich fibrin (PRF) promotes craniofacial bone regeneration through Runx2. *Int J Mol Sci*. 15(5):8509-25.

Li, X., Yang, H., Zhang, Z., Yan, Z., Lv, H., Zhang, Y., and Wu, B., (2018) Platelet-rich fibrin exudate promotes the proliferation and osteogenic differentiation of human periodontal ligament cells in vitro. *Mol Med Rep*. 18(5): 1-9.

Li, Y., Ling, J., and Jiang, Q., (2021) Inflammasomes in Alveolar Bone Loss. *Frontiers in Immunology*. 12(691013):1-28.



Liang, Z., Huang, D., Nong, W., Mo, J., Zhu, D., Wang, M., Chen, M., Wei, C., Li, H., (2021) Advanced-platelet-rich fibrin extract promotes adipogenic and osteogenic differentiation of human adipose-derived stem cells in a dose-dependent manner in vitro. *Tissue and Cell.* 71(2021):1-10.

Liu, Y., Sun, X., Yu, J., Liu, M., and Zhou, Y., (2019) Platelet-Rich Fibrin as a Bone Graft Material in Oral and Maxillofacial Bone Regeneration: Classification and Summary for Better Application. *Biomed Res Int.* 2019(9):1-16.

Mardiyantoro, F., Munika, K., Sutanti, V., Cahyati, M., and Pratiwi, A. R., (2018) *Penyembuhan Luka Rongga Mulut*. Malang: UB Press. pp. 58, 63.

Marlie, H., Apriantika, I., Rubianto, M., and Maduratna, E., (2019) A Combination Treatment of Antioxidants, Bone Graft and Platelet-rich Fibrin Increases the Number of Osteoblasts in the Post-tooth Extraction Socket of Wistar Rats. *Acta Medica Philippina.* 53(5):394-9.

Miron, R. and Choukroun, J., (2017) *Platelet Rich Fibrin in Regenerative Dentistry*. New Delhi: John Wiley & Sons Ltd. pp. 2, 5-8, 17-20, 24, 100, 131, 138, 149, 160, 170, 178, 224.

Miron, R., Chai, J., Zhang, P., Li, Y., Wang, Y., Mourao, C. F. D. A. B., Sculean, A., Kobayashi, M. A., and Zhang, Y., (2020) A novel method for harvesting concentrated platelet-rich fibrin (C-PRF) with a 10-fold increase in platelet and leukocyte yields. *Clin Oral Investig.* 24(8):2819-28.

Miron, R. J., Fujioka-Kobayashi M., Hernandez, M., Kandalam, U., Zhang, Y., Ghanaati, S., and Choukron, J., (2017) Injectable platelet rich fibrin (i-PRF): opportunities in regenerative dentistry?. *Clin Oral Investig.* 21(8):2619-27.

Mourao, C. F., Ribeiro, J., and Mourao, N. B., (2015) The Use of Platelet-Rich Fibrin Membrane (PRF) As Barrier for Bone Graft in Immediate Loading of Dental Implants: A Case Report. *EC Dent Sci.* 1(2015):440-444.

Muñoz-Carrillo, J. L., Hernández-Reyes, V. E., García-Huerta, O. E., Chávez-Ruvalcaba, F., Chávez-Ruvalcaba, M. I., Chávez-Ruvalcaba, K. M., Díaz-Alfaro, L., (2016) Pathogenesis of Periodontal Disease. Dalam: Manakil, J., *Periodontal Diseases A Clinician's Guide*. London: IntechOpen. p. 1.

Newman, M. G., Takei, H.H., Klokkevold, P. R., and Carranza, F. A., (2018) *Newman's Clinical Periodontology*. 13<sup>th</sup> ed. Missouri: Saunders. pp. 50-51, 203, 226, 53, 54, 57, 552, 610, 619, 758.

Nugraha, A., Narmada, I. B., Ernawati, D. S., Dinaryanti, A., Hendrianti, E., Ihsan, I. S., Riawan, W., and Rantam F. A., (2018) Osteogenic potential of gingival stromal progenitor cells cultured in platelet rich fibrin is predicted by core-



binding factor subunit- $\alpha$ 1/Sox9 expression ratio (*in vitro*). *F1000Research*. 7(1134):1-10.

Pacios, S., Xiao, W., Mattos, M., Lim, J., Tarapore, R. S., Alsdun, S., Yu, B., Wang, C., and Graves, D. T., (2015) Osteoblast Lineage Cells Play an Essential Role in Periodontal Bone Loss Through Activation of Nuclear Factor-Kappa B. *Sci Rep.* 5(16694):1-12.

Pandya, M., Saxon, M., Bozanich, J., Tillberg, C., Luan, X., and Diekwiisch (2021) The Glycoprotein/Cytokine Erythropoietin Promotes Rapid Alveolar Ridge Regeneration In Vivo by Promoting New Bone Extracellular Matrix Deposition in Conjunction with Coupled Angiogenesis/Osteogenesis. *Int J Mol Sci.* 22(2788):1-14.

Park, J., (2018) Clinical Application of Enamel Matrix Derivative for Periodontal Regeneration and Treatment of Peri-Implantitis. Dalam: Manakil, J., *Periodontology and Dental Implantology*. 2<sup>nd</sup> ed. London: IntechOpen. p. 198.

Ramachandra, V. K. and Narayanaswamy, S., (2012) Platelet rich fibrin: A new paradigm in periodontal regeneration. *Cell and Tissue Banking*. 14(3):1-15.

Sar, C., Akdeniz, S. S., Ozcircici, A. A., Helvacioglu, F., and Bacanlı, D., (2019) Histological evaluation of combined platelet-rich fibrin membrane and piezo-incision application in orthodontic tooth movement. *Int J Oral Maxillofac Surg.* 1(1):1-6.

Shah, R., Thomas, R., Gowda, T. M., Baron, T. K. A., Vemanaradhy, G. G., and Bhagat, S., (2021) *In Vitro* Evaluation of Osteoblast Response to the Effect of Injectable Platelet-rich Fibrin Coating on Titanium Disks. *JCDP*. 22(2):107-10.

Słotwińska, S. M., (2012) Cytokines and periodontitis. Part I: Interleukin-1 and interleukin-1 receptor antagonist. *Central-European Journal of Immunology*. 37(2):173-7.

Steller, D., Herbst, N., Pries, R., Juhl, D., and Hakim, S. G., (2019) Positive impact of Platelet-rich plasma and Platelet-rich fibrin on viability, migration and proliferation of osteoblasts and fibroblasts treated with zoledronic acid. *Sci Rep.* 9(2019):1-11.

Steller, D., Herbst, N., Pries, R., Juhl, D., Klinger, M., and Hakim, S. G., (2019) Impacts of platelet-rich fibrin and platelet-rich plasma on primary osteoblast adhesion onto titanium implants in a bisphosphonate *in vitro* model. *Journal of Oral Pathology and Medicine*. 48(10):943-50.



Susanto, A., Susanah, S., Pontjo, B., Satari, M. H., (2015) Membran Guided Tissue Regeneration untuk Regenerasi Periodontal. *dentika Dental Journal.* 18(3):300-304.

Suwondo, C. I., Herawati, D., Sudibyo, (2018) Effect of advanced platelet-rich fibrin applications on periodontal regeneration in infrabony pocket treatment. *MKGK.* 4(3):154-160.

Tachikake-Kuramoto, M., Suzuki, J., Wang, Y., Mitsuhashita, C., and Kozai, K., (2014) Lipopolysaccharide derived from Aggregatibacter actinomycetemcomitans inhibits differentiation of osteoblasts. *Pediatric Dental Journal.* 24(2):83-8.

Tanwar, J., Hungund, S. A., and Dodani, K., (2016) Nonsurgical periodontal therapy: A review. *J Oral Res Rev.* 8(1):39-44.

Terheyden, H., Stadlinger, B., Sans, M., Garbe, A. I., and Meyle, J., (2013) Inflammatory reaction – communication of cells. *Clinical Oral Implants Research.* 0(2013):1-9.

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(5153):1-12.

To, M., Su, C. Y., Hidaka, K., Okudera, T., and Matsuo, M., (2019) Effect of advanced platelet-rich fibrin on accelerating alveolar bone formation in dogs: histological and immunofluorescence evaluation. *Anatomical Science International.* 94(3):238-44.

Tonetti, M., Greenwell, H., and Kornman, K. S., (2018) Staging and grading of periodontitis : Framework and proposal of a new classification and case definition. *J Periodontol.* 89(1):159-172.

Wang, X., Choukron, J., Zhang, Y., 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.* 1(1):1-8.

Wang, Z., Feng, Z., Wu, G., Bai, S., Dong, Y., Chen, F., and Zhao, Y., (2016) The use of platelet-rich fibrin combined with periodontal ligament and jaw bone mesenchymal stem cell sheets for periodontal tissue engineering. *Sci Rep.* 6(28126):1-15.

Wang, Z., Weng, Y., Lu, S., Zong, C., Qiu, J., Liu, Y., Liu, B., (2014) Osteoblastic mesenchymal stem cell sheet combined with Choukron platelet-rich fibrin



induces bone formation at an ectopic site. *Journal of Biomedical Materials Research Part B: Applied Biomaterials.* 103(6):1204-1216.

Wijayanto, H. D., and Murdiastuti, K., (2015) Perawatan Bonegraft dengan Penambahan Platelet-Rich Plasma dan Kolagen pada Kerusakan Infraboni. *MKGK.* 1(1):9-13.

Wong, C., Yeh, Y., Chen, C., Manga, Y. B., Jheng, P., Lu, C., and Chuang, E., (2021) Effectiveness of treating segmental bone defects with a synergistic co-delivery approach with platelet-rich fibrin and tricalcium phosphate. *Mater Sci Eng C.* 129(2021):1-10.

Wong, P. C., Wang, C. Y., Jang, J. S. C., Lee, C. H., and Wu, J. L., (2021) Large-pore platelet-rich fibrin with a mg ring to allow mc3t3-e1 preosteoblast migration and improve osteogenic ability for bone defect. *Int J Mol Sci.* 22(8):1-15.

Wu, C. L., Lee, S. S., Tsai, C. H., Lu, K. H., Zhao, J. H., and Chang, Y. C., (2012) Platelet-rich fibrin increases cell attachment and proliferation and collagen-related protein expression of human osteoblasts. *Australian Dental Journal.* 57(2):207-212.

You, J., Kim, S., Oh, J., and Kim, J., (2019) Effects of Platelet-Derived Material (Platelet-Rich Fibrin) on Bone Regeneration. *Implant Dentistry.* 28(3):244-55.

Yu, M., Wang, L., Ba, P., Li, L., Sun, L., Duan, X., Yang, P., Yang, Q., and Sun, Q., (2017) Osteoblast Progenitors Enhance Osteogenic Differentiation of Periodontal Ligament Stem Cells. *J Periodontol.* 88(10):159-168.

Zheng, W., Wang, S., Wang, J., and Jin, F., (2015) Periodontitis promotes the proliferation and suppresses the differentiation potential of human periodontal ligament stem cells. *Int J Mol Med.* 36(4):915-22.

Zhou, C. C., Xu, R. S., Wu, Z. P., Zhang, Z. W., Yuan, Q., Zou, S. J., Xie, J., and Zhang, D. M., (2021) Osteogenesis, Osteoclastogenesis and their Crosstalk in Lipopolysaccharide-induced Periodontitis in Mice. *Chinese Journal of Dental Research.* 24(1):33-9.

Zhou, S., Sun, C., Huang, S., Wu, X., Zhao, Y., Pan, C., Wang, H., Liu, J., Li, Q., Kou, Y., (2018) Efficacy of Adjunctive Bioactive Materials in the Treatment of Periodontal Intrabony Defects: A Systematic Review and Meta-Analysis. *Biomed Res Int.* 1(1):1-15.