DAFTAR PUSTAKA

Ajwani, H., Shetty, S., Gopalakrishnan, D., Kathariya, R., Kulloli, A., Dolas, R. S., & Pradeep, A. R., (2015) Comparative evaluation of platelet-rich fibrin biomaterial and open flap debridement in the treatment of two and three wall intrabony defects. *JIOH*. 7(4): 32–37.

Ansarizadeh, M., Mashayekhan, S., dan 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*. 15(125): 383-391.

Ali, S., Bakry, S. A., dan Abd-Elhakam, H., (2015) Platelet-rich fbrin in maxillary sinus augmentation: a systematic review. *J Oral Implantol*. 41(6):746–753.

Arora, S., Kotwal1, U., Dogra, M., dan Doda, V., (2017) Growth Factor Variation in Two Types of Autologous Platelet Biomaterials: PRP Versus PRF. *Indian J Hematol Blood Transfus*. 33(2):288-292.

Bandeira, F., Costa, A. G., Filho, M. A. S., Pimentel, L., Lima, L., dan Bilezikian, J. P., (2014) Bone markers and osteoporosis therapy. *Arq Bras Endocrinol Metabol*. 58(5): 504-513.

Bartold, P. M., (2018) Lifestyle and periodontitis: The emergence of personalized periodontics. *Periodontol 2000*. 78:7–11.

Bailey, S., Karsenty, G., Gundberg, C., dan Vashishth, D., (2017) Osteocalcin and osteopontin influence bone morphology and mechanical properties. *Ann N Y Acad Sci*. 1409(1): 79–84.

Bjelošević, M., Pobirk, A. Z., Planinšek, O., dan Grabnar, P. A., (2020) Excipients in freeze-dried biopharmaceuticals: Contributions toward formulation stability and lyophilisation cycle optimization. *Int J Pharm*. 576 (119029): 1-12.

Butreddy, A., Janga, K, Y., Ajjarapu, S., Sarabu, S., dan Dudhipala, N., (2021) Instability of therapeutic proteins-An overview of stresses, stabilization mechanisms and analytical techniques involved in lyophilized proteins. *Int. J. Biol. Macromol*. 167: 309–325.

Canellas, J. V. D. S., Medeiros, P. J. D., Figueredo, C. M. D. S., Fischer, R. D., Ritto, F. G., (2019) Platelet-rich fibrin in oral surgical procedures: a systematic review and meta-analysis. *Int J Oral Maxillofac Surg*. 48(3): 395-414.

Castro, A. B., Meschi, N., Temmerman, A., Pinto, N., Lambrechts, P., Teughels, W., dan Quirynen, M., (2017) Regenerative potential of leucocyte- and platelet-rich

fibrin. Part B: sinus foor elevation, alveolar ridge preservation and implant therapy. A systematic review. *J Clin Periodontol*. 44(2): 25–234, 2017.

Chandran, P. dan Sivadas, A., (2014) Platelet-rich fibrin: Its role in periodontal regeneration. *SJDR*. 5: 117-122.

Chen, G., Xu, H., Yao, Y., Xu, T., Yuan, M., Zhang, X., Zhengbing., Wu, M., (2017) BMP Signaling in the Development and Regeneration of Cranium Bones and Maintenance of Calvarial Stem Cells. *Front Cell Dev Biol*. 8(135): 1-9.

Damsaz, M., Castagnoli, C. Z., Eshghpour, M., Alamdari, D. H., Alamdari, A. H., Noujeim, Z. E. F., dan Haidar, Z. S., (2020) Evidence-Based Clinical Efficacy of Leukocyte and Platelet-Rich Fibrin in Maxillary Sinus Floor Lift, Graft and Surgical Augmentation Procedures. *Front Surg*. 7: 537138.

Diomede, F., Marconi 1, G. D., Fonticoli, L., Pizzicanella, J., Merciaro, I., Bramanti, P., Mazzon, E., dan Trubiani, O., (2020) Functional Relationship between Osteogenesis and Angiogenesis in Tissue Regeneration. *Int J Mol Sci*. 21(9):3242.

Fan, Y., Perez, K., dan Dym, H., (2020) Clinical Uses of Platelet-Rich Fibrin in Oral and Maxillofacial Surgery. *Dent Clin North Am*. 64(2):291–303.

Fouda, A. A. H., (2020) The Impact of The Alveolar Bone Sites on Early Implant Failure: A Systematic Review with Meta-Analysis. *J Korean Assoc Oral Maxillofac Surg*. 46:162-173.

Goel, A., Windsor, L. J., Gregory, R. L., Blanchard, S. B., dan Hamada, Y., (2020) Effects of platelet-rich fibrin on human gingival and periodontal ligament fibroblast proliferation from chronic periodontitis versus periodontally healthy subjects. *Clin Exp Dent Res*. 1: 1–7.

Hong, S., Chen, W., dan Jiang, B., (2018) A Comparative Evaluation of Concentrated Growth Factor and Platelet-rich Fibrin on the Proliferation, Migration, and Differentiation of Human Stem Cells of the Apical Papilla. *J Endod*. 44(6): 977-983.

Johnston, W., Rosier, B.T., Artacho, A., Paterson, M., Piela, K., Delaney, C., Brown, J. L., Ramage, G., Mira, A., dan Culshaw, S., (2021) Mechanical bioflm disruption causes microbial and immunological shifts in periodontitis patients. *Sci Rep*. 11(9796): 1-13.

Ratanji, K. D., Derrick, J. P., Dearman, R.J., dan Kimber, I., (2014) Immunogenicity of therapeutic proteins: influence of aggregation. *J. Immunotoxicol*. 11: 99–109.

Rodrigues, A. M., Caetano-Lopes, J., Vale, A. C., Vidal, B., Lopes, A., Polido-Pereira, I. A. J., Sepriano, A., Perpétuo, I. P., Monteiro, J., Vaz, M, F., Fonseca, E. J., Canhão, H., (2014) Low osteocalcin/collagen type I bone gene expression ratio is associated with hip fragility fractures. *Bone*. 51(6): 981-9.

Kaku M., Akiba, Y., Akiyama, K., Akita, D., dan Nishimura, M., (2015) Cell-based bone regeneration for alveolar ridge augmentation – Cell source, endogenous cell recruitment and immunomodulatory function. *J Prosthodont Res.* 59(2): 96-112.

Kardos, D., Hornyák, I., Simon, M., Hinsenkamp, A., Marschall, B., Várdai, R., Menyhárd, A. K., Pinke, B., Mészáros, L., Kuten, O., Nehrer, S., dan Lacza, Z., 2018. Biological and Mechanical Properties of Platelet-Rich Fibrin Membranes after Thermal Manipulation and Preparation in a Single-Syringe Closed System. *Int. J. Mol. Sci*. 3433: 1-14.

Kapse, S., Surana, S., Satish, M., Hussain, S. E., Vyas, S., dan Thakur, D., (2019) Autologous platelet-rich fibrin: can it secure a better healing?. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 127(1): 8-18.

Kim, S., Kim, J., Mani, G., Yoon, M., Hwang, M. P., Wang, Y., Kang, B. J., dan Kim, K., (2018) Enhanced Skull Bone Regeneration by Sustained Release of BMP-2 in Interpenetrating Composite Hydrogels. *Biomacromolecules*. 19(11): 4239-4249.

Kruger, T. E., Millera, A. H., Godwin, A. K., dan Wang, J., (2014) Bone Sialoprotein and Osteopontin in Bone Metastasis of Osteotropic Cancers. *Crit Rev Oncol Hematol*. 89(2): 330–341.

Kurniawati, A., Saputr, D. R., Sari, D. Y., Amanitha, I. C., Masruroh, S. N., dan Hariyati., (2020) Cowhide Gelatin Nanoparticles and Titanium-Prepared Platelet-Rich Fibrin Potential In Periodontitis Healing Process. *ODJ*. 7(1): 73-81.

Komori, T., (2020) Molecular Mechanism of Runx2-Dependent Bone Development. *Mol Cells*. 43(2):168-175.

Larsson, L., Decker, A. M., Nibali, L., Pilipchuk, S. P., Berglundh, T., dan Giannobile, W. V., (2016) Regenerative Medicine for Periodontal and Peri-implant Diseases. *J Dent Res*. 95(3):255-66.

Li, Q., Reed, D. A.,Min, L., Gopinathan, G., Li, S., Dangaria, S. J., Li, L., Geng, Y., Galang, M. T., Gajendrareddy, P., Zhou, Y., Luan, X., dan Diekwisch, T, G, H., (2014) Lyophilized Platelet-Rich Fibrin (PRF) Promotes Craniofacial Bone Regeneration through Runx2. *Int J Mol Sci*. 15: 8509-8525.

Liu, R., Yan, M., Chen, S., Huang, W., Wu, D., dan Chen, J., (2019) Effectiveness of Platelet-Rich Fibrin as an Adjunctive Material to Bone Graft in Maxillary Sinus Augmentation: A Meta-Analysis of Randomized Controlled Trails. *Biomed Res Int.* 4:1-10.

Liu, Y., Sun, X., Yu, J., Wang, J., Zhai, P., Chen, S., Liu, M., dan 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.* 3295756: 1-16.

Liu, Z., Jin, H., Xie, Qi., Jiang, Z., Guo, S., Li, Y., dan Zhang, B., (2019) Controlled Release Strategies for the Combination of Fresh and Lyophilized Platelet-Rich Fibrin on Bone Tissue Regeneration. *Biomed Res Int*. 4923767. 1-10.

Makhdom, A. M., dan Hamdy, R. C., (2013) The role of growth factors on acceleration of bone regeneration during distraction osteogenesis. *Tissue Eng Part B Rev*. 19(5):442-453

Maulidah, Hasbullah, I. D., dan Panjaitan, F. U. A., (2018) Biocompability Test of Haruan Fish *(Channa striata)* Bone Hydroxyapatite to Fibroblast Cell as Periodontal Pocket Therapy. *Dentino Jurnal Kedokteran Gigi*. 3(2): 150 – 155.

Miron, R. J., Mealey, B. L., dan Wang, H. L., (2017) *Platelet Rich Fibrin in Regenerative Dentistry: Biological Background and Clinical Indications*. Edisi 1. John Wiley & Sons. New York. pp. 131.

Miron, R. J., Zucchelli, G., Pikos, M. A., Salama, M., Lee, S., Guillemette, V., Fujioka-Kobayashi, M., Bishara, M., Zhang, Y., Wang, H. L., Chandad, F., Nacopoulos, C., Simonpieri, A., Aalam, A. A., Felice, P., Sammartino, G., Ghanaati, S., Hernandez, M. A., & Choukroun, J., (2017) Use of platelet-rich fibrin in regenerative dentistry: a systematic review. *Clin Oral Investig*. 21(6): 1913–1927.

Moussa, N., Fan, Y., dan Dym, H., (2021) Maxillofacial Bone Grafting Materials. *Dent Clin North Am*. 65(1): 167-195.

Ngah, N. A., Ratnayake, J., Cooper, P. R., Dias, G. J., Tong, D. C., Noor, S. N. F. M., dan Hussaini, H. M., (2021) Potential of Lyophilized Platelet Concentrates for Craniofacial Tissue Regenerative Therapies. *Molecules*. 26(517): 1-12.

Nie, J., Zhang, S., Wu, P., Liu, Y., dan Su, Y., (2020) Electrospinning With Lyophilized Platelet-Rich Fibrin Has the Potential to Enhance the Proliferation and Osteogenesis of MC3T3-E1 Cells. *Front Bioeng Biotechnol*. 1(8): 595579.

Nilsson, H., Berglund, J. S., dan Renvert, S., (2019) Longitudinal Evaluation of Periodontitis and Tooth Loss Among Older Adults. *J Clin Periodontol*. 46(10):1041-1049.

Pan, J., Xu, Q., Hou, J., Wu, Y., Liu, Y., Li, R., Pan, Y., dan Zhang, D., (2019) Effect of platelet-rich fibrin on alveolar ridge preservation. *J Am Dent Assoc*. 150(9): 766-778.

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

Slots, J., (2017) Periodontitis: facts, fallacies and the future. *Periodontol 2000*. 75: 7-23.

Slots, J., (2019) Focal infection of periodontal origin. *Periodontol 2000*. 79:233-235.

Strauss, F. J., Nasirzade, J., Kargarpoor, Z., Stähli, A., dan Gruber, R., (2020) Effect of platelet-rich fibrin on cell proliferation, migration, differentiation, inflammation, and osteoclastogenesis: a systematic review of in vitro studies. *Clin Oral Investig*. 24: 569–584.

Tamara, A., Oktiani, B. W., Taufiqurrahman, I., (2019) Pengaruh Ekstrak Flavonoid Propolis Kelulut *(G.thoracica)* terhadap Jumlah Sel Netrofil Pada Periodontitis (Studi In Vivo Pada Tikus Wistar *(Rattus norvegicus)* Jantan). *Dentin (Jur. Ked. Gigi)*. 3(1): 10-16.

Tsukasaki, M., (2020) RANKL and osteoimmunology in periodontitis. *J Bone Miner Metab*. 39(1):82-90.

Wang, Z., Han, L., Sun, T., Wang, W., Li, X., dan Wu, B., (2019) Preparation and effect of lyophilized platelet-rich fibrin on the osteogenic potential of bone marrow mesenchymal stem cells in vitro and in vivo. *Heliyon*. 5: 1-11.

Wijaksana, I. K. E., (2019) Periodontal Chart dan Periodontal Risk Assessment Sebagai Bahan Evaluasi dan Edukasi Pasien dengan Penyakit Periodontal. *JKG*. 6:19-25.

Woo, H. N., Cho, Y. J., Tarafder, S., dan Lee, C. H., (2021) The recent advances in scaffolds for integrated periodontal regeneration. *Bioact Mater*. 6: 3328–3342.

Wolkers, W. F. dan Oldenhof, H., (2021) *Cryopreservation and Freeze-Drying Protocol*. Edisi 4. Springer Science+Business Media. New York. pp. 683-701.

Xiang, X., Shi, P., Zhang, P., Shen, J., dan Kang, J., (2019) Impact of platelet-rich fibrin on mandibular third molar surgery recovery: a systematic review and meta-analysis. *BMC Oral Health*. 19(163): 1-10.

Xu, F., Zou, D., Dai, T., Xu, H. Y., An, R., Liu, Y., dan Liu, B., (2018) Efects of incorporation of granule-lyophilised platelet-rich fibrin into polyvinyl alcohol hydrogel on wound healing. *Scientific Reports*. 8: 14042.

Zhang, J., Qi, X., Luo, X., Li., Wang, H., dan Li, T., (2016) Clinical and immunohistochemical performance of lyophilized platelet-rich fibrin (Ly-PRF) on tissue regeneration. *Clin Implant Dent Relat Res*. 12473: 1–12.

Zheng, L., Wang, L., Qin, J., Sun, X., Yang, T., Ni, Y., dan Zhou, Y., (2015) New Biodegradable Implant Material Containing Hydrogel with Growth Factors of Lyophilized PRF in Combination with an nHA/PLGA Scaffold. *Journal of Hard Tissue Biology*. 24(1): 54-60.