

## DAFTAR PUSTAKA

- Aslı Duran, Şirin Yaşar, Sema Aytekin, et al., 2018. Clinical and histopathological evaluation of the effects of platelet rich plasma, platelet poor plasma and topical serum physiologic treatment on wound healing caused by radiofrequency electrosurgery in rats. *Turkderm-Turk Arch Dermatol Venereology* 2018;52:44-50
- Akhundov, K. et al. (2012). 'Development of a cost-effective method for platelet-rich plasma (prp) preparation for topical wound healing', *Annals of Burns and Fire Disasters*, 25(4), pp. 207–213.
- Ariyando, I. et al. 2012. Comparison between TGF- $\beta$  expression in the healing of tendon Achilles rupture with and without Bone Marrow Mesenchymal Stem Cell in rabbit. *Orthopedic Media Journal Volume 1 No.1*; Surabaya, Indonesia
- Baglioni, S., Frascalci, M., Squecco, R., Lombardi, A., Cantini, G., Angeli, R., Luconi, M. (2009). Characterization of human adult stem-cell populations isolated from visceral and subcutaneous adipose tissue. *The FASEB Journal*, 23(10), 3494–3505. doi:10.1096/fj.08-126946
- Bakacak, M., Bostancı, M. S., İnanc, F., Yaylali, A., Serin, S., Attar, R., Yıldırım, O. K. (2015). Protective Effect of Platelet Rich Plasma on Experimental Ischemia/Reperfusion Injury in Rat Ovary. *Gynecologic and Obstetric Investigation*, 81(3), 225–231. doi:10.1159/000440617
- Barret J, Herndon D., 2005. Principles and Practice of Burn Surgery. New York, USA. Marcel Dekker.
- Benson, A., W.A. Dickson, and D.E. Boyce, ABC of wound healing: burns. *British Medical Journal*, 2006. 332: p. 649-652.

- Borrione, P., Gianfrancesco, A. D., Pereira, M. T., & Pigozzi, F. (2010). Platelet-Rich Plasma in Muscle Healing. *American Journal of Physical Medicine & Rehabilitation*, 89(10), 854–861.
- Bourin P, Bunnell BA, Casteilla L, Dominici M, Katz AJ, March KL, Redl H, Rubin JP, Yoshimura K, Gimble JM. Stromal cells from the adipose tissue-derived stromal vascular fraction and culture expanded adipose tissue-derived stromal/stem cells: a joint statement of the International Federation for Adipose Therapeutics and Science (IFATS) and the International Society for Cellular Therapy (ISCT). *Cytotherapy*. 2013;15:641–8.
- Braund, R.; Hook, S.; Medlicott, N.J. The role of topical growth factors in chronic wounds. *Curr. Drug Deliv.* 2007, 4, 195–204.
- Brunicardi C, et al., 2015. Schwartz's Principle of Surgery, 10th edition. California, USA. McGraw-Hill.
- Cardoso, A. L. et al. (2016) 'Adipose tissue stromal vascular fraction in the treatment of full thickness burns in rats', *Acta Cirurgica Brasileira*, 31(9), pp. 578–585. doi: 10.1590/S0102-865020160090000002.
- Cerqueira, M. T., Pirraco, R. P. and Marques, A. P. (2016) 'Stem Cells in Skin Wound Healing: Are We There Yet?', *Advances in Wound Care*, 5(4), pp. 164–175. doi: 10.1089/wound.2014.0607.
- Cervelli V, et al. Tissue regeneration in loss of substance on the lower limbs through use of platelet-rich plasma, stem cells from adipose tissue, and hyaluronic acid. *Adv Skin Wound Care*. 2010; 23:262-72.)
- Chieregato K, Castegnaro S, Madeo D, Astori G, Pegoraro M, Rodeghiero F: Epidermal growth factor, basic fibroblast growth factor and platelet-derived growth factor-bb can substitute for fetal bovine serum and compete with

- human platelet-rich plasma in the ex vivo expansion of mesenchymal stromal cells derived from adipose tissue. *Cyotherapy* 2011, 13:933–943.
- Choi, J., Minn, K. W., & Chang, H. (2012). The Efficacy and Safety of Platelet-Rich Plasma and Adipose-Derived Stem Cells: An Update. *Archives of Plastic Surgery*, 39(6), 585. doi:10.5999/aps.2012.39.6.585
- Cohen IK, Degelman RF, Crossland MC. Wound healing and wound care. In: Schwartz SI, ed. *Principles of surgery*, 6 th ed. New York: McGraw-Hill, 1994
- Cohen IK, Degelman RF, Lindblad WJ, eds. *Wound healing: biochemical and clinical aspects*. Philadelphia: W.B. Saunders, 1992
- Comella, K., Silbert, R., & Parlo, M. (2017). Effects of the intradiscal implantation of stromal vascular fraction plus platelet rich plasma in patients with degenerative disc disease. *Journal of Translational Medicine*, 15(1).
- Darinskas, A., Paskevicius, M., Apanavicius, G., Vilkevicius, G., Labanauskas, L., Ichim, T. E., & Rimdeika, R. (2017). Stromal vascular fraction cells for the treatment of critical limb ischemia: a pilot study. *Journal of Translational Medicine*, 15(1). doi:10.1186/s12967-017-1243-3
- El-Sharkawy, H., Kantarci, A., Deady, J., Hasturk, H., Liu, H., Alshahat, M., & Van Dyke, T. E. (2007). Platelet-Rich Plasma: Growth Factors and Pro- and Anti-Inflammatory Properties. *Journal of Periodontology*, 78(4), 661–669.
- EMSB (Emergency Management of Severe Burns) Course Manual, 17th Edition, 2013. ANZBA Ltd.
- Eppley BL, Pietrzak WS, Blanton M. Platelet-rich plasma: a review of biology and applications in plastic surgery. *Plast Reconstr Surg* 2006;118:147e-159e
- Eyüboğlu, A. A. et al. (2018) 'The effect of adipose derived stromal vascular fraction on stasis zone in an experimental burn model', *Burns*. Elsevier Ltd and International Society of Burns Injuries, 44(2), pp. 386–396. doi:

10.1016/j.burns.2017.08.016.

Ferraro, G. A., Mizuno, H., & Pallua, N. (2016). Adipose Stem Cells: From Bench to Bedside. *Stem Cells International*, 2016, 1–2. doi:10.1155/2016/6484038

Friedenstein AJ, Piatetzky S II, Petrakova KV. Osteogenesis in transplants of bone marrow cells. *J Embryol Exp Morphol*. 1966; 16:381–90. [PubMed: 5336210]

Fotouhi, A. et al. (2018) ‘Platelet rich plasma, stromal vascular fraction and autologous conditioned serum in treatment of knee osteoarthritis’, *Biomedicine and Pharmacotherapy*. Elsevier, 104(April), pp. 652–660. doi: 10.1016/j.biopha.2018.05.019.

G. Pearson, F. Robinson, T. B. Gibson et al., “Mitogenactivated protein (MAP) kinase pathways: regulation andphysiological functions,” *Endocrine Reviews*, vol. 22, no. 2, pp.153–183, 2001.

Gentile, P., Scioli, M. G., Bielli, A., Orlandi, A., & Cervelli, V. (2016). Concise Review: The Use of Adipose-Derived Stromal Vascular Fraction Cells and Platelet Rich Plasma in Regenerative Plastic Surgery. *STEM CELLS*, 35(1), 117–134.

Gentile, P. et al. (2012) ‘A Comparative Translational Study: The Combined Use of Enhanced Stromal Vascular Fraction and Platelet-Rich Plasma Improves Fat Grafting Maintenance in Breast Reconstruction’, *STEM CELLS Translational Medicine*, 1(4), pp. 341–351. doi: 10.5966/sctm.2011-0065.

Ghieh, F., Jurjus, R., Ibrahim, A., Geagea, A. G., Daouk, H., El Baba, B., ... Jurjus, A. (2015). The Use of Stem Cells in Burn Wound Healing: A Review. *BioMed Research International*, 2015, 1–9. doi:10.1155/2015/684084

Gimble J, Guilak F. Adipose-derived adult stem cells: isolation, characterization, and differentiation potential. *Cytotherapy*. 2003; 5:362–9.

- Gimble JM, Katz AJ, Bunnell BA. Adipose-derived stem cells for regenerative medicine. *Circ Res*. 2007; 100:1249–60. [PubMed: 17495232]
- Guo HF, Ali RM, Hamid RA, Zaini AA, Khaza'ai H. A new model for studying deep partial-thickness burns in rats. *Int J Burns Trauma*. 2017;7(6):107–114. Published 2017 Oct 25.
- Halim D., Murti H. Sandra F., Boediono A., et al., 2010. Stem Cell: Dasar teori dan aplikasi klinis. Erlangga press. Jakarta. 1-136p
- Han J, Koh YJ, Moon HR, Ryoo HG, Cho CH, Kim I, Koh GY. Adipose tissue is an extramedullary reservoir for functional hematopoietic stem and progenitor cells. *Blood*. 2010;115:957–64.
- Harrison, D. A. (2012). The JAK/STAT Pathway. *Cold Spring Harbor Perspectives in Biology*, 4(3), a011205–a011205.
- Hausman GJ, Richardson RL. Adipose tissue angiogenesis. *J Anim Sci* 2004;82:925-34.
- Hayes, M., Curley, G., Ansari, B., & Laffey, J. G. (2012). Clinical review: Stem cell therapies for acute lung injury/acute respiratory distress syndrome - hope or hype? *Critical Care*, 16(2), 205. doi:10.1186/cc10570
- Hettiaratchy, S. and R. Papini, Initial management of a major burn: II--assessment and resuscitation. *BMJ*, 2004. 329(7457): p. 101-3.
- Hollenberg CH, Vost A. Regulation of DNA synthesis in fat cells and stromal elements from rat adipose tissue. *J Clin Invest*. 1969; 47:2485–98. [PubMed: 4304653]
- Horwitz EM, Le Blanc K, Dominici M, et al. Clarification of the nomenclature for MSC: The International Society for Cellular Therapy position statement. *Cytotherapy* 2005; 7:393-5.

- Josh F, et al., 2012. Accelerated and safe proliferation of human adipose-derived stem cells in medium supplemented with human serum. Tokyo, Japan. J Nippon Med (79): pp. 444-452. edition. Denver, USA. RC Press.
- K. Kolkova, V. Novitskaya, N. Pedersen, V. Berezin, and E. Bock, "Neural cell adhesion molecule-stimulated neurite outgrowth depends on activation of protein kinase C and the Ras-mitogen-activated protein kinase pathway," *Journal of Neuroscience*, vol. 20, no. 6, pp. 2238–2246, 2000.
- Karagergou, E., Dionyssopoulos, A., Karayannopoulou, M., Psalla, D., Theodoridis, A., Demiri, E., & Koliakos, G. (2018). Adipose-derived stromal vascular fraction aids epithelialisation and angiogenesis in an animal model. *Journal of Wound Care*, 27(10), 637–644.
- Karina et al. (2019) 'Combination of the stromal vascular fraction and platelet-rich plasma accelerates the wound healing process: Pre-clinical study in a Sprague-Dawley rat model', *Stem Cell Investigation*, 6(July), pp. 1–8. doi: 10.21037/sci.2019.06.08.
- Kevy S, Jacobson M, Benoit P. The biology of platelet concentrate as prepared by the Harvest Technologies SmartPReP System. Proceedings of the 3rd Annual Meeting of Techvest Conference on Tissue Repair, Replacement, and Regeneration; 2001 Oct 23; New York, USA
- Kim Yeol, et al., 2014. Effects of Platelet-Rich Plasma, Adipose-Derived Stem Cells and Stromal Vascular Fraction on the Survival of Human Transplanted Adipose Tissue. Seoul, Republic of Korea. J Korean Med Science (29): pp. 193-200.
- Kiritsy, C.P.; Lynch, A.B.; Lynch, S.E. Role of growth factors in cutaneous wound healing: A review. Crit. Rev.Oral Biol. Med. 1993, 4, 729–760.
- Lawrence, W.T. Physiology of the acute wound. Clin. Plast. Surg. 1998, 25, 321–340.

Leong M., Phillips LG., Wound Healing: Chapter 7 (2016)  
<https://thoracickey.com/wound-healing/>

Liang, Z. J. et al. (2018) 'Precise Intradermal Injection of Nanofat-Derived Stromal Cells Combined with Platelet-Rich Fibrin Improves the Efficacy of Facial Skin Rejuvenation', *Cellular Physiology and Biochemistry*, 47(1), pp. 316–329. doi: 10.1159/000489809.

Li H, Liu D, Yu Y, Wu T: Experimental research of the promotion effect of autogeneic PRP on osteogenic differentiation of human adipose-derived stem cells in vitro. *Zhongguo Xiu Fu Chong Jian Wai Ke Za Zhi* 2009, 23:732–736

Liu, T. et al. (2019) 'One-step approach for full-thickness skin defect reconstruction in rats using minced split-thickness skin grafts with Pelnac overlay', *Burns & Trauma. Burns & Trauma*, 7, pp. 1–13. doi: 10.1186/s41038-019-0157-0.

Liu, Z. et al. (2019) 'Synergistic Effects of Human Platelet-Rich Plasma Combined with Adipose-Derived Stem Cells on Healing in a Mouse Pressure Injury Model', *Stem Cells International*, 2019. doi: 10.1155/2019/3091619.

McLeod, A. S., & Mansbridge, J. N. (2015). The Innate Immune System in Acute and Chronic Wounds. *Advances in Wound Care*, 5(2), 65–78.

Martins, R. P., Hartmann, D. D., de Moraes, J. P., Soares, F. A. A., & Puntel, G. O. (2016). Platelet-rich plasma reduces the oxidative damage determined by a skeletal muscle contusion in rats. *Platelets*, 27(8), 784–790.

Moenadjat Y, dkk., 2011. Luka Bakar: Masalah dan Tatalaksana, edisi 4. Jakarta, Indonesia. Balai Penerbit FKUI.

Moss LS. Treatment of the burn patient in primary care. *Adv Skin Wound Care*, 2010.23(11): 517–24;quiz 525–6.

- Nauta A, et al., 2012. Adipose-derived Stromal Cells Overexpressing Vascular Endothelial Growth Factor Accelerate Mouse Excisional Wound Healing. California, USA. The American Society of Gene & Cell Therapy. 10.1038/mt.2012.234.
- Nikolidakis, D., & Jansen, J. A. (2008). The Biology of Platelet-Rich Plasma and Its Application in Oral Surgery: Literature Review. *Tissue Engineering Part B: Reviews*, 14(3), 249–258. doi:10.1089/ten.teb.2008.0062.
- Ozcelik, U. et al. (2016) 'Effect of topical platelet-rich plasma on burn healing after partial-thickness burn injury', *Medical Science Monitor*, 22, pp. 1903–1909. doi: 10.12659/MSM.895395.
- Pakyari, M. et al. (2013) 'Critical Role of Transforming Growth Factor Beta in Different Phases of Wound Healing', *Advances in Wound Care*, 2(5), pp. 215–224. doi: 10.1089/wound.2012.0406.
- Paolo Borrione, MD Alessia Di Gianfrancesco, PharmD Maria Teresa Pereira, MD Fabio Pigozzi, M. (2010) 'Platelet-Rich Plasma in Muscle', *am j phys med rehabil*, 89(10), pp. 854–861. doi: 10.1097/PHM.0b013e3181f1c1c7.
- Park, J., Hwang, S., & Yoon, I.-S. (2017). Advanced Growth Factor Delivery Systems in Wound Management and Skin Regeneration. *Molecules*, 22(8), 1259.
- Penn, J. W., Grobbelaar, A. O. and Rolfe, K. J. (2012) 'The role of the TGF- $\beta$  family in wound healing, burns and scarring: a review.', *International journal of burns and trauma*, 2(1), pp. 18–28. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/22928164> Ahttp://www.ncbi.nlm.nih.gov/articlerender.fcgi?artid=PMC3415964.
- Pietro, Gentile; Maria, Giovanna Scioli; Alessandra, Bielli; Augusto, Orlandi; Valerio,C. (2017) 'The use of Adipose-derived Stromal Vascular Fraction Cells and Platelet Rich Plasma in Re- generative Plastic Surgery', *Stem*

- cells (Dayton, Ohio)*, 29(9), pp. 1338–1348. doi: 10.1002/stem.
- Plichta, J. K., & Radek, K. A. (2012). Sugar-Coating Wound Repair. *Journal of Burn Care & Research*, 33(3), 299–310. doi:10.1097/bcr.0b013e318240540a
- Rah, D. K., Min, H. J., Kim, Y. W., & Cheon, Y. W. (2017). Effect of Platelet-Rich Plasma on Ischemia-Reperfusion Injury in a Skin Flap Mouse Model. *International Journal of Medical Sciences*, 14(9), 829–839.
- Raposio E, et al., 2016. Adipose-derived Stem Cells Added to Platelet-Rich Plasma for Chronic Skin Ulcer Therapy. Parma, Italy. *Wound Research Journal* Vol. 28: pp.434-442.
- Rigotti G, Marchi A., 2009. Adipose-derived Mesenchymal Stem Cells: Past, Present and Future. Verona, Italy. *Aesthetic Plastic Surgery Journal* (33): pp. 271–273.
- Rosadi, I. et al. (2019) 'In vitro study of cartilage tissue engineering using human adipose-derived stem cells induced by platelet-rich plasma and cultured on silk fibroin scaffold', *Stem Cell Research and Therapy*. *Stem Cell Research & Therapy*, 10(1), pp. 1–15. doi: 10.1186/s13287-019-1443-2.
- Rumalia VK, Borah GL: Cytokine, growth factor and plastic surgery. *Plast Reconstr Surg* 108:719-733, 2001;
- Satoshi, Tajima; Morikuni, Tobita; Hakan, Orbay; Hiko, Hyakusoku; Hiroshi, M. (2014) 'Direct and indirect effects on bone regeneration of a combination of adipose-derived stem cells and platelet-rich plasma', *Tissue Engineering Part A*, 21(5–6), pp. 895–905.
- Schaffer, C.J.; Nanney, L.B. Cell biology of wound healing. *Int. Rev. Cytol.* 1996, 169, 151–181.
- Schwartz SI (ed): Principles of surgery, ed 7, Newyork, 1999, McGraw-Hill, p269;

Sethi A, Kaur T, Malhotra S K, Gambhir M L. Moisturizers: The slippery road.  
Indian J Dermatol 2016;61:279-87

Seyhan, N. et al. (2015) 'The Effect of Combined Use of Platelet-Rich Plasma and Adipose-Derived Stem Cells on Fat Graft Survival', *Annals of Plastic Surgery*, 74(5), pp. 615–620. doi: 10.1097/SAP.0000000000000480.

Singh, V. K., Saini, A., Kalsan, M., Kumar, N., & Chandra, R. (2016). Describing the Stem Cell Potency: The Various Methods of Functional Assessment and In silico Diagnostics. *Frontiers in Cell and Developmental Biology*, 4.

Smith, O. J., Jell, G. and Mosahebi, A. (2019) 'The use of fat grafting and platelet-rich plasma for wound healing: A review of the current evidence', *International Wound Journal*, 16(1), pp. 275–285. doi: 10.1111/iwj.13029.

Sjamsuhidajat, de Jong., 2016. Buku Ajar Ilmu Bedah, Sistem Organ dan Tindak Bedahnya. edisi 4 Vol. 2. Jakarta, Indonesia. EGC.

Stessuk, T., Puzzi, M. B., Chaim, E. A., Alves, P. C. M., de Paula, E. V., Forte, A., Ribeiro-Paes, J. T. (2016). Platelet-rich plasma (PRP) and adipose-derived mesenchymal stem cells: stimulatory effects on proliferation and migration of fibroblasts and keratinocytes in vitro. *Archives of Dermatological Research*, 308(7), 511–520.

Tajima, S., Tobita, M., Orbay, H., Hyakusoku, H., & Mizuno, H. (2015). Direct and Indirect Effects of a Combination of Adipose-Derived Stem Cells and Platelet-Rich Plasma on Bone Regeneration. *Tissue Engineering Part A*, 21(5-6), 895–905. doi:10.1089/ten.tea.2014.0336.

Tantuway V, et al., Autologous grafting of non manipulated freshly isolated-adipose tissue derived stromal vascular fraction in single surgical sitting for treatment of knee osteoarthritis. *Int J Res Orthop.* 2017 Jan;3(1):107-115

Tavares Pereira, D. dos S., Lima-Ribeiro, M. H. M., de Pontes-Filho, N. T., Carneiro-Leão, A. M. dos A., & Correia, M. T. dos S. (2012). Development

- of Animal Model for Studying Deep Second-Degree Thermal Burns. *Journal of Biomedicine and Biotechnology*, 2012, 1–7.
- Thorne, et al., 2007. *Grabb and Smith Plastic Surgery*, 6th edition. New York, USA. Lippincot Williams and Wilkins.
- Tohidnezhad, M., Varoga, D., Wruck, C.J., et al., 2011. Platelet-released growth factors can accelerate tenocyte proliferation and activate the anti-oxidant response element. *Histochemistry and Cell Biology* 135(5):453-460.
- Vaghardoost, R., Ghavami, Y. and Sobouti, B. (2019) 'The Effect of *Mentha Pulegium* on Healing of Burn Wound Injuries in Rat', *World Journal of Plastic Surgery*, 8(1), pp. 43–50. doi: 10.29252/wjps.8.1.43.
- Van Pham, P., Bui, K. H.-T., Ngo, D., Vu, N., Truong, N., Phan, N. L.-C., Phan, N. (2013). Activated platelet-rich plasma improves adipose-derived stem cell transplantation efficiency in injured articular cartilage. *Stem Cell Research & Therapy*, 4(4), 91.
- Werner S. Keratinocyte growth factor: a unique player in epithelial repair processes. *Cytokine Growth Factor Rev* 2: 153–165, 1998.
- Werner, S., & Grose, R. (2003). Regulation of Wound Healing by Growth Factors and Cytokines. *Physiological Reviews*, 83(3), 835–870.
- Widjajakusumah, Tanzil A., 2014. Guyton and Hall Buku Ajar Fisiologi Kedokteran, edisi 12. Singapore. Elsevier.
- Widowati W., Widyanto RM., 2013. Sel punca sebagai transformasi alternatif terapi. *Zenit Vol. 2. No: 1. 1-5p*
- Williams N, et al., 2013. *Bailey and Love's Short Practice of Surgery*, 26th
- Witte MB, Barbul A: General principles of wound healing. *Surg Clin North Am* 77:509–528, 1997.

Xu, Xin., Zheng L., Yuan Q., et all. (2018). Transforming Growth Factor- $\beta$  in stem cells and tissue homeostasis. PubMed Central Journal. 6: 2.

Zhang YS, He JH, Xiao GY, Li QM: Effect of platelet-rich plasma on the proliferation and adipogenic differentiation of human adipose-derived stem cells in vitro. Nan Fang Yi Ke Da Xue Xue Bao 2011, 31:525–528.

Zhang, X. G. et al. (2019). 'The Wound Healing Effect of Callicarpa nudiflora in Scalded Rats', *Evidence-based Complementary and Alternative Medicine*, 2019. doi: 10.1155/2019/1860680.

Ziegler, T. R., Pierce, G. F., & Herndon, D. N. (Eds.). (1997). Growth Factors and Wound Healing. doi:10.1007/978-1-4612-1876-0

Zuk PA, Zhu M, Ashjian P, De Ugarte DA, Huang JI, Mizuno H, et al. Human adipose tissue is a source of multi-potent stem cells. Mol Biol Cell. 2002; 13:4279–95. [PubMed: 12475952]

## LAMPIRAN



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN  
KOMITE ETIK PENELITIAN KESEHATAN  
RSPTN UNIVERSITAS HASANUDDIN  
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR  
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu  
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.  
Contact Person: dr. Agussalim Bukhari.,MMed.,PhD.,Sp.GK. TELP. 081241850858, 0411 5780103. Fax : 0411-581431



### **REKOMENDASI PERSETUJUAN ETIK**

Nomor : 64/UN4.6.4.5.31/ PP36/ 2020

Tanggal: 22 Januari 2020

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

|  |   |  |                           |
|--|---|--|---------------------------|
| No Protokol                                      | UH19121109  | No Sponsor   |                           |
| Peneliti Utama                                   | <b>dr. Francisca</b>  | Sponsor  |                           |
| Judul Peneliti                                   | Efek Penambahan Platelet-Rich Plasma (PRP) Dan Stromal Vascular Fraction (SVFs) Terhadap Kadar Serum Transforming Growth Factor-β (TGF-β) Pada Penyembuhan Luka Bakar Deep Dermal Tikus Albino Galur Wistar |  |                           |
| No Versi Protokol                                | <b>1</b>  | Tanggal Versi  | <b>16 Desember 2019</b>   |
| No Versi PSP                                     |   | Tanggal Versi  |                           |
| Tempat Penelitian                                | <b>Laboratorium Hewan FKUH, RSUH Laboratorium PA Cerekang Makassar</b>  | HUM-RC dan   |                           |
| Jenis Review                                     | <input type="checkbox"/> Exempted<br><input checked="" type="checkbox"/> Expedited<br><input type="checkbox"/> Fullboard Tanggal  | Masa Berlaku<br><b>22 Januari 2020</b><br>sampai<br><b>22 Januari 2021</b> | Frekuensi review lanjutan |
| Ketua Komisi Etik Penelitian Kesehatan FKUH      | Nama<br><b>Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)</b>   | Tanda tangani<br>  |                           |
| Sekretaris Komisi Etik Penelitian Kesehatan FKUH | Nama<br><b>dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)</b>  | Tanda tangan<br>   |                           |

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Lapor SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan