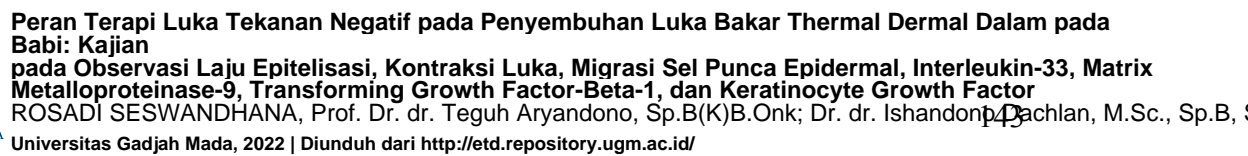


DAFTAR PUSTAKA

- Abdullahi, A., Nik, S.A., Jeschke, M.G. (2014). Animal models in burn research. *Cell. Mol. Life Sci.* DOI 10.1007/s00018-014-1612-5
- Ackerman, A. B., Böer, A., Bennin, B., & Gottlieb, G. J. (2005). An Algorithmic Method Based on Pattern Analysis: Embryologic, Histologic, and Anatomic Aspects: Elastic Fibers. In: *Histologic Diagnosis of Inflammatory Skin Diseases* 3rd Ed. Philadelphia: Lippincott Williams and Wilkins, USA.
- Adigbli, G., Alshomer, F., Maksimcuka, J., & Ghali, S. (2016). Principles of Plastic Surgery, Wound Healing, Skin Grafts and Flaps. In: Kalajaringan parut, D., Butler, P. E. M., Ghali, S. (Eds), *Textbook of Plastic and Reconstructive Surgery*, pp. 6-7. London: UCL Press, UK.
- Ahuja, R. B., Bhattacharya, S., Rai, A. (2009). Changing trends of an endemic trauma. *Burns*, 35(5): 650-656.
- American Burn Association. (2009). National Burn Repository, Version 5.0. www.ameriburn.org/2009NBRAnnualReport.pdf (Accessed on May 02, 2018).
- American Burn Association. (2017). Burn incidence and treatment in the US: 2007 Fact Sheet ameriburn.org (Accessed on December 14, 2017).
- Apelqvist, J., Armstrong, D. G., Augustin, M., Baharestani, M., Banwell, P., Paola, L. D., (2008). Vacuum assisted closure: recommendations for use A consensus document. *Principles of Best Practice*, 1-10. *Int Wound J.*, 5(Suppl 4): iii–NaN19.
- Armstrong, D. G., Boulton, A. J. M., & Bus, S. A. (2017). Diabetic foot ulcer and Their Recurrence. *N Engl J Med*, 376: 2367-2375.
- Arslan, K., Karahan O., Okus A., Unlu Y., Eryilmaz M. A., Ay S., (2012). Comparison of topical zinc oxide and *silver sulfadiazine* in burn wounds: an experimental study. *Ulus Travma Acil Cerrahi Derg*, 18(5): 376-383.
- Ayadi, A. E., Herndon, D. N., & Finnerty, C. C. (2018). Biomarkers in Burn Patient Care. In: Herndon, D. N. (Ed). *Total Burn Care* 5th Ed., pp. 232-235. Philadelphia: Saunders Elsevier, USA
- Badiavas, E. V., & Falanga, V. (2003). Treatment of chronic wounds with bone marrow-derived cells. *Arch Dermatol*. 139(4): 510-516

- Bainbridge, P. (2013). Wound healing and the role of fibroblasts. *J Wound Care*, 22(8): 407–412.
- Barret, J. P., Dziewulski, P., Ramzy, P. I., Wolf, S. E., Desai, M. H., & Herndon, D. N. (2000). Biobrane versus 1% *silver sulfadiazine* in second-degree pediatric burns. *Plast Reconstr Surg*, 105(1): 62-65.
- Bonfield, T. L., & Caplan, A.I. (2010) Adult Mesenchymal Stem Cells: An Innovative Therapeutic for Lung Diseases. *Discov Med*, 9(47): 337-345
- Brodie L Emergency Management of Severe Burns (EMSB). The Education Committee of The Australian and New Zealand Burn Association Limited. 17th edition Feb 2013
- Burd, A., Ahmed, K., Lam, S., Ayyappan T., Huang, L. (2007). Stem cell strategies in burns care. *Burns*, 33(3): 282-291.
- Burns, J. L., Mancoll, J. S., & Phillips, L. G. (2003). Impairments to wound healing. *Clin Plast Surg*, 30(1): 47-56.
- Carriere, V., Roussel, L., Ortega, N., Lacorre, D.A., Americh, L., Aguilar, L., Bouche, G., Girard, J.P., (2007). IL-33, the IL-1-like cytokine ligand for ST2 receptor, is a chromatin-associated nuclear factor in vivo. *Proc Natl Acad Sci USA*, 104(1): 282–287.
- Chan, R. K., Garfein, E., Gigante, P. R., Liu, P., Agha, R. A., Mulligan, R., (2007). Side population hematopoietic stem cells promote wound healing in diabetic mice. *Plast Reconstr Surg*, 120(2): 407-411.
- Chang, A. C., Dearman, B., & Greenwood, J. E. (2011). A Comparison of Wound Area Measurement Techniques: Visitrak Versus Photography. *Eplasty*, 11: 158-166.
- Chen, B., Kao, H. K., Dong, Z., Jiang, Z., & Guo, L. (2017). Complementary Effects of Negative-Pressure Wound Therapy and Pulsed Radiofrequency Energy on Cutaneous Wound Healing in Diabetic Mice. *Plast Reconstr Surg*, 139(1): 105-117.
- Chen, S., Takahara, M., Kido, M., Takeuchi, S., Uchi, H., Tu, Y., (2008). Increased expression of an epidermal stem cell marker, cytokeratin 19, in cutaneous squamous cell carcinoma. *Br J Dermatol*, 159(4): 952-955.
- Chung, K. (2020). Grabb and Smith's plastic surgery. Philadelphia: Wolters Kluwer.



- Clark, R.A. (1993). Basics of cutaneous wound repair. *J Dermatol Surg Oncol*, 19(8): 693-706.
- Daly, T. J. (1990). The repair phase of wound healing-re-epithelialization and contraction. In: Kloth, L. C., McCulloch, I. M, Feedar, I. A. (Eds), London: FA Davis Company, UK.
- Diegelmann, R. F., & Evans, M. C. (2004). Wound healing: an overview of acute fibrotic and delayed healing. *Front Biosci*, 9: 283-289.
- Dumville, J. C., Munson, C., Christie, J. (2014). Negative pressure wound therapy for partial-thickness burns. *Cochrane Database Syst Rev*, (12).
- Elsous, A., Ouda, M., Mohsen, S., Al-Shaikh, M., Mokayad, S., Abo-Shaban, N., (2016). Epidemiology and outcomes of hospitalized burn patients in Gaza strip: a descriptive study. *Ethiop J Health Sci*, 26(1): 9-16.
- Eyden, B. (2008). The myofibroblast: phenotypic characterization as a prerequisite to understanding its functions in translational medicine. *J Cell Mol Med*, 12(1): 22-37.
- Falanga, V., Iwamoto, S., Chartier, M., Yufit, T., Butmarc, J., Kouttab, N., (2007). Autologous bone marrow-derived cultured mesenchymal stem cell delivered in a fibrin spray accelerate healing in murine and human cutaneous wounds. *Tissue Eng*, 13(6): 1299-1312
- Fischer, S., Wall, J., Pomahac, B., Riviello, R., & Halvorson, E. G. (2016). Extra-large negative pressure wound therapy dressings for burns – Initial experience with technique, fluid management, and outcomes. *Burns*, 42(2): 457-465.
- Forjuoh, N. (2006). Burns in low and middle-income countries: a review of available literature on descriptive epidemiology, risk factor, treatment, and prevention. *Burns*, 32: 529-537.
- Forsberg, J. A., Potter, B. K., Polfer E. M., Safford S. D., Elster, E. A. (2014). Do inflammatory markers pretend heterotropic ossification and wound failure in combat wounds? *Clin Orthopaed Related Res*. 472(9): 2845-2854.
- Frear, C. C., Cuttle, L., McPhail, S. M., Chatfield, M. D., Kimble, R. M., & Griffin, B. R. (2020). Randomized clinical trial of negative pressure wound therapy as an adjunctive treatment for small-area thermal burns in children. *Br J Surg*, 107(13), 1741–1750.
- Gamelli, R. L., & He, L. K. (2003). Incisional wound healing. Model and analysis of wound breaking strength. *Methods Mol Med*, 78: 37-54.

- Ghie, F., Jurjus, R., Ibrahim, A., Geagea, A. G., Daouk, H., Baba, B. E., (2015). The Use of Stem Cells in Burn Wound Healing: A Review. *BioMed Research International*, 1: 1-9.
- Glass, G. E., Murphy, G. R. F. dan Nanchahal, J. (2017) 'Does negative-pressure wound therapy influence subjacent bacterial growth? A systematic review', *J Plast Reconstr Aesthet Surg*, pp. 1028–1037
- Glesinger, R., Cohen, A.D., Berezovsky, A.B., Krieger, Y., & Rosenberg, L. (2004). A Randomized Controlled Trial of *Silver sulfadiazine*, Biafine, and Saline-soaked Gauze in the Treatment of Superficial Partial-thickness Burn Wounds in Pigs. *Acad Emerg Med*, Vol. 11(4): 339-342
- Gonzalez A.D., Costa, T.F., Andrade, Z.A., and Medrado, A.R.A.P. (2016). Wound healing - A literature review. *An Bras Dermatol*, Vol 91(5):614-20
- Gopalakrishnan, R., Rajendran, S., Ravikumar, N. P. G., & Ravikumar, S. G. (2016). The role of quantitative bacteriology on burn wound management. *Int Surg J*, 3(2): 595-602.
- Gurtner, G. C., Werner, S., Barrandon, Y., & Longaker, M.T. (2008). Wound Repair Regeneration. *Nat*, 453: 314–321.
- Hansbrough, J. F., Achauer, B., Dawson, J., Himel, H., Luterman, A., Slater, H., (1995). Wound healing in partial-thickness burn wounds treated with collagenase ointment versus silver sulfadiazine cream. *J Burn Care Rehabil*, 16(3 Pt 1):241-7.
- Hawkins, H. K., & Finnerty, C. C. (2012). Chapter 46–Pathophysiology of the burn scar. In: Herndon, D. N. (Ed). *Total Burn Care 3rd Ed.*, pp. 506-516. Philadelphia: Saunders Elsevier, USA.
- Hawsworth, J. S., Stojadinovic, A., Gage, F. A., Tadaki, D. K., Perdue, P. W., Forsber, J. (2009). Inflammatory biomarkers in combat wound healing. *Ann Surg*, 250 (6): 1002-1007.
- He, R., Yin, H., Yuan, B., Liu, T., Luo, L., Huang, P., Dai, L., dan Zeng, K. (2017). IL-33 Improves Wound Healing Through Enhanced M2 Macrophage Polarization in Diabetic Mice. *Mol Immunol*. 42-49.
- Hermans, M. H. (2007). Silver-containing dressings and the need for evidence. *Adv Skin Wound Care*, 20(3): 166-173.
- Herndon, D. (2017). Total Burn Care E-Book. Philadelphia: Elsevier.

- Hettiatatchy, S., & Dziwulski, P. (2004). ABC of burns Patophysiology and types of burns. *BMJ*, 328: 1427-1429.
- Honnegowda, T.M., Udupa, E.G.P., Rao, P., Kumar, P. and Singh, R. (2016). Superficial burn wound healing with intermittent negative pressure wound therapy under limited access and conventional dressings. *World J Plast Surg*, 5(3): 265-273.
- Huang, C., Orgill, D. P., & Leavit, T. (2014). Effect of negative pressure wound therapy on wound healing. *Curr Probl Surg*, 51: 301-331.
- Hunt, T. K., Hopf, H., Hussain, Z. (2000). Physiology of wound healing. *Adv Skin Wound Care*, 13(2 Suppl): 6-11.
- Ilyas, M. N., Adzim, M. K. R., Simbak, N. B., & Atif, A. B. (2017). Sample Size Calculation for Animal Studies Using Degree of Freedom (E); an Easy and Statistically Defined Approach for Metabolomics and Genetic Research. *Curr Trends Biomedical Eng & Biosci*, 10(2).
- Indonesian Ministry of Health. (2014). Report of National Basic Health Research (RISKESDAS) 2014. Jakarta: Indonesia.
- ISBI Practice Guidelines Committee. (2016). ISBI Practice Guidelines for Burn Care. *Burns*, 42: 953-1021
- ISBI Practice Guidelines Committee. (2018). ISBI Practice Guidelines for Burn Care, Part 2. *Burns*, 44: 1617-1706
- Ito, M., Liu, Y., Yang, Z., Nguyen, J., Liang, F., Morris, R. J. (2005). Stem cells in the hair follicle bulge contribute to wound repair but not to homeostasis of the epidermis. *Nat Med*, 11(12): 1351-1354.
- Itoh, T., Kawabe, M., Nagase, T., Endo, K., Miyoshi, M., & Miyahara, K. (2016). Body surface area measurement in laboratory miniature pigs using a computed tomography scanner. *J. Toxicol. Sci*, 41(5): 637-644.
- Jiang, Y., Jahagirdar, B. N., Reinhardt, R.L., Shwartz, R. E., Keene, C. D., Ortiz-Gonzales, X. R., (2002). Pluripotency of mesenchymal stem cell derived from adult marrow. *Nature*, 418: 41-49.
- Kantak, N. A., Mistry, R., Varon, D. E., & Halvorson, E. G. (2017). Negative Pressure Wound Therapy for Burns. *Clin Plastic Surg*, 44(3): 671-677.
- Komi-Kuramochi, A., Kawano, M., Oda, Y., Asada, M., Suzuki, M., Oki, J., & Imamura, T. (2005). Expression of fibroblast growth factors and their receptors

during full-thickness skin wound healing in young and aged mice. *J Endocrinol*, 186(2), 273-289.

Kopp, J., Wang, G. Y., Kulmburg, P., Schultze-Mosgau, S., Huan, J. N., Ying, K., (2004). Accelerated Wound Healing by in Vivo Application of Keratinocytes Overexpressing KGF. *Mol Ther*, 10(1): 86-96.

Kowalske, K.J. (2011). Burn Wound Care. *Phys Med Rehabil Clin N Am*, 22: 213–227

Krejner, A., Litwiniuk, M., Grzela, T. (2016). Matrix metalloproteinases in the wound microenvironment: therapeutic perspectives. *Chronic wound care manag. res.*, Vol: 3, 29–39

Kroeze, K.L., Pronk, J., Kirtschig, G., Boer, E.W., Middelkoop, E., Scheper, R.J., & Gibbs, S. (2012). Chapter 4: Comparison of cytokine, chemokine and growth factor profiles in burn wounds, chronic wounds and surgical excision wounds. <https://research.vumc.nl/files/254965/chapter%204.pdf>

Kumar, V., Abbas, A. K., & Fausto, N. (2009). Robbins & Cotran Pathologic Basis of Disease, 8th Edition. Philadelphia: Saunders Elsevier, USA.

Kwan, P., Desmouliere, A., & Tredget, E. E. (2012). Chapter 45—Molecular and cellular basis of hypertrophic scarring. In: Herndon, D. N. (Ed), *Total burn care* 3rd Ed, pp: 495-505.e5. Philadelphia: Saunders Elsevier, USA.

Ladak, A., & Tredget, E. E. (2009). Pathophysiology and management of the burn scar. *Clin Plast Surg*, 36(4): 661-674.

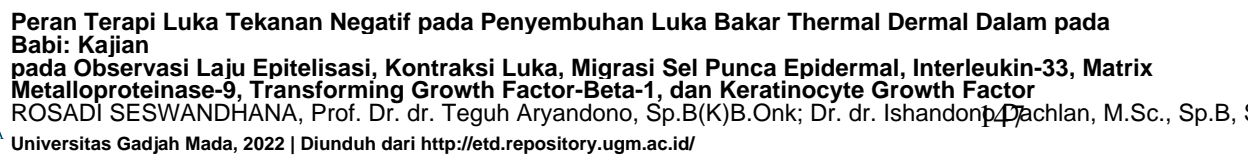
Lari, A. R., Panjeshahin, M. R., Talei, A. R., Rossignol, A. M., & Alaghenbandan, R. (2002). Epidemiology of childhood burn injuries in Fars Province. *Iran J Burn Care Rehabil*, 23(1): 39-45.

Levy, V., Lindon, C., Zheng, Y., Harfe, B. D., & Morgan, B. A. (2007). Epidermal stem cells arise from the hair follicle after wounding. *FASEB J*, 21(7): 1358-1366.

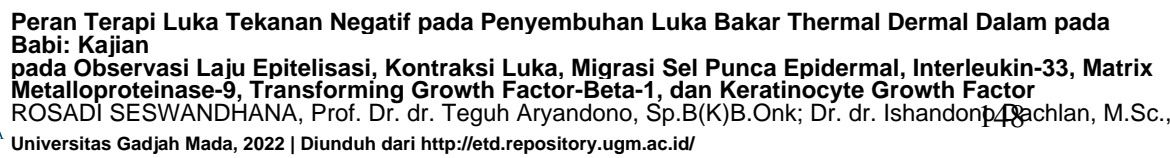
Li, B., & Wang, J. H. C. (2011). Fibroblasts and myofibroblasts in wound healing: Force generation and measurement. *J Tissue Viability*, 20(4): 108–120.

Li, Y., Zhang, J., Yue, J., Gou, X., & Wu, X. (2017). Epidermal Stem Cells in Skin Wound Healing. *Adv Wound Care*, 6(9): 297–307.

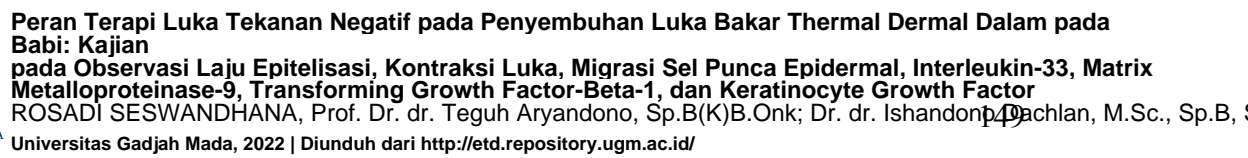
Liu, P., Ke, C., Shu, B., Li, W., Tong, Z., Wang, X., Zhang, Z., Zou, S. (2017). Fuya shangkou liaofa dui laonian tangniaobing kuiyang chuang mian biaopi



- ganxibao zengzhi de yingxiang (Effect of negative pressure wound therapy on proliferation of epidermal stem cell in elderly diabetic ulcer wounds). *Zhonghua Sunshang Yu Xiufu Zazhi Dianziban*, 432-436.
- Lu, F., Ogawa, R., Nguyen, D.T., Chen, B., Guo, D., Helm, D.L., (2011). Micro deformation of three-dimensional cultured fibroblasts induces gene expression and morphological changes. *Ann. Plast. Surg.* 66, 296–300.
- Maghsoudi, H., Monshizadeh, S., & Mesgari, M. (2011). A Comparative Study of the Burn Wound Healing Properties of Saline-Soaked Dressing and *Silver sulfadiazine* in Rats. *Indian J Surg*, 73(1):24–27.
- Mahandaru, D., & Seswandhana, R., (2012). The Simplest Modified Vacuum Assisted Closure to Treat Chronic Wound: Serial Case Report. *JPR*, 1(2): 117-122
- Malmsjö, M., Gustafsson, L., Lindstedt, S., Gesslein, B., & Ingemansson, R. (2012). The Effects of Variable, Intermitten, and Continuous Negative Pressure Wound Therapy, Using Foam or Gauze, on Wound Contraction, Granulation Tissue Formation, and Ingrowth into the Wound Filler. *ePlasty*, 11: 42-54.
- Malmsjö, M., Ingemansson, R., Martin, R., & Huddleston, E. (2009). Negative-pressure wound therapy using gauze or open-cell polyurethane foam: Similar early effects on pressure transduction and tissue contraction in an experimental porcine wound model. *Wound Rep Reg*, 17: 200-205.
- Mansilla, E., Marin, G. H., Drago, H., Sturla, F., Salas, E., Gardiner, C., (2006). Bloodstream cells phenotypically identical to human mesenchymal bone marrow stem cells circulate in large amounts under the influence of acute large skin damage: new evidence for the use in regenerative medicine. *Transplant Proc*, 38(3): 967-969.
- Marchant-Forde, J. N., & Herskin, M. S. (2018). Pig as Laboratory Animals. In : Spinka, M. (Ed). *Advances in Pig Welfare*, pp. 445-475. Duxford: Elsevier, UK.
- Mashreky, S. R., Rahman, A., Chowdhury, S. M., Giashuddin, S., Svanstrom, L., Linnan, M. (2008). Epidemiology of childhood burn: yield of largest community-based injury survey in Bangladesh. *Burns*, 34(6): 856-862.
- McGrath, J. A., Eady, R. A. J., Pope, F. M. (2004). Anatomy and Organization of Human Skin. In Burns, T., Breathnach, S., Cox, N., Griffiths, C. (Eds), *Rook's Textbook of Dermatology* 7th Ed., p. 4190. New Jersey: Blackwell Publishing, USA.



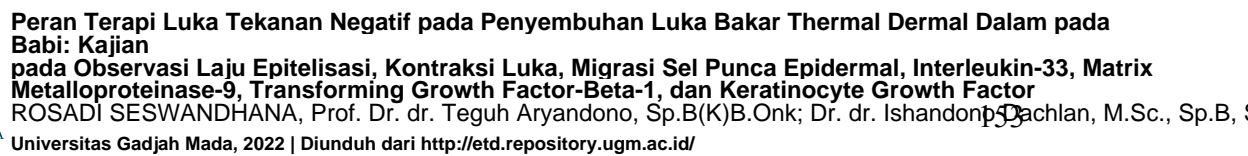
- Millar, N. L., O'Donnell, C., McInnes, I. B., dan Brint, E. (2017). Wounds That Heal and Wounds That Don't – the Role of the IL-33/ST2 Pathway in Tissue Repair and Tumorigenesis. *Semin Cell Dev Biol*, 61, pp. 41-50.
- Mirchandani, A. S., Salmond, R. J., dan Liew, F. Y. (2012). Interleukin-33 and the Function of Innate Lymphoid Cells. *Trends in Immunology*. Vol 33. P. 389-393.
- Mock, C., Peck, M., Peden, M., Krug, E., Ahuja, R., Albertyn, H., (2008). A WHO plan for burn prevention and care. Geneva : World Health Organization.
- Morikawa, M., Derynck, R., Miyazono, K. (2016). TGF- β and the TGF- β Family: Context-Dependent Roles in Cell and Tissue Physiology. *Cold Spring Harb Perspect Biol*, 8:a021873.
- Morykwas, M. J., Faler, B. J., Pearce, D. J., & Argenta, L. C. (2001). Effects of Varying Levels of Subatmospheric Pressure on the Rate of Granulation Tissue Formation in Experimental Wounds in Swine. *Ann Plast Surg*, 47(5): 547-551.
- Morykwas, M. J., Argenta, L. C., Shelton-Brown, E. I., & McGuirt, W. (1997). Vacuum-Assisted Closure: A New Wound Method for Wound Control and Treatment: Animal Studies and Basic Foundation. *Ann Plast Surg*, 38(6): 553-562.
- Motlik, J., Klima, J., Dvorankova, B., & Smetana Jr., K. (2007). Porcine epidermal stem cells as a biomedical model for wound healing and normal/malignant epithelial cell propagation. *Theriogenology*, 67: 105–111.
- Moues, C. M., Vos, M. C., Van Den Bemd G. C. M., Stunen, T., & Hovius, S. E. R. (2004). Bacterial load in relation to vacuum-assisted closure wound therapy: A prospective randomized trial. *Wound Rep Reg*, 12: 11-17.
- Mullen, A. C., & Wrana, J. L. (2017). TGF- β Family Signaling in Embryonic and Somatic Stem Cell Renewal and Differentiation. *Cold Spring Harb Perspect Biol*, 9(7): 1-45.
- Murray, C. J., Lopez, A. D., World Health Organization, World Bank & Harvard School of Public Health. (1996). The Global Burden of disease: a comprehensive assessment of mortality and disability from diseases, injuries, and risk factors in 1990 and projected to 2020: summary / edited by Christopher J. L. Murray, Alan D. Lopez. Geneva: World Health Organization. <http://www.who.int/iris/handle/10665/41864>



- Nakagawa, H., Akita, S., Fukui, M., Fuji, T., Akino, K. (2005). Human mesenchymal stem cells successfully improve skin-substitute wound healing. *Br J Dermatol*, 153(1): 29-36.
- Nolff, M. C., Albert, R., Wohlsein, P., Baumgartner, W., Reese, S., & Meyer-Lindenberg, A. (2018). Histomorphometric evaluation of MMP-9 and CD31 expression during healing under Negative Pressure Wound Therapy in dogs. *Schweiz Arch Tierheilkd*, 160(9): 525-532
- Ojeh, N., Pastar, I., Tomic-Canic, M., & Stojadinovic, O. (2015). Stem Cells in Skin Regeneration, Wound Healing, and Their Clinical Applications. *Int. J. Mol. Sci*, 16: 25476-25501.
- Ono, I. (2002). The effects of basic fibroblast growth factor (bFGF) on the breaking strength of acute incisional wounds. *J Dermatol Sci*, 29(2): 104-113.
- Orgill, D. P. (2009). Excision and skin grafting of thermal burns. *N Engl J Med*, 360: 893-901.
- Pakyari, M., Farrokhi, A., Maharlooee, M. K., & Ghahary, A. (2013). Critical Role of Transforming Growth Factor Beta in Different Phases of Wound Healing. *Adv Wound Care*, 2(5): 215-224.
- Park, K.S., Park, D.H. (2018). The Effect of Korean Red Ginseng on Full-Thickness Skin Wound Healing in Rats. *J Ginseng Res*. 43: 226-235.
- Peck, M. D., Jeschke, M. G., & Collins, A. K. (2017). Epidemiology of burns injuries globally. www.uptodate.com (Accessed on December 2017).
- Peck, M. D., Kruger, G. E., Van der Merwe, A. E., Godakumbra, W., & Ahuja, R.B. (2008). Burns and fires from non-electric domestic appliances in low and middle-income countries Part I. The scope of the problem. *Burns*, 34: 303-311.
- Peck, M., & Pressman, M. A. (2013). The correlation between burn mortality rates from fire and flame and economic status of countries. *Burns*, 39(6): 1054-1059.
- Perdanakusuma, D.S. 2006. Penanganan luka pada luka bakar. In Noer, M.S. (eds). Penanganan luka bakar. Airlangga University Press. Surabaya. p: 83, 89
- Pham, T. N., Girban, N.S., Heimbach, D. M. (2007). Evaluation of the burn wound: Management decisions. In: Herndon, D. (Ed), *Total Burn Care* 4th Ed., p. 119. Philadelphia: Saunders Elsevier, USA.
- Pitt, K. A., dan Stanley, B. (2014). Negative Pressure Wound Therapy: Experience in 45 Dogs. *Vet Surg*, 43(4): 380-387.

- Plikus, M. V., Guerrero-Juarez, C. F., Ito, M., Li, Y. R., Dedhia, P. H., Zheng, Y., (2017). Regeneration of fat cells from myofibroblasts during wound healing. *Science*. 355: 748-752.
- Poon, V. K. M., & Burd, A. (2004). In vitro cytotoxicity of silver: implication for clinical wound care. *Burns*, 30: 140-147.
- Quan, T. E., Cowper, S., Wu, S.P., Bockenstedt, L. K., & Bucala, R. (2004). Circulating fibrocytes: collagen-secreting cells of the peripheral blood. *Int J Biochem Cell Biol*, 36(4): 598-606.
- Rahmanian-Schwarz, A., Willkomm, L., Gonser, P., Hirt, B., & Schaller, H. (2012). A novel option in negative pressure wound therapy (NPWT) for chronic and acute wound care. *Burns*, 38(4): 573-577.
- Ramirez, H., Patel, S. B., & Pastar, I. (2014). The Role of TGF β Signaling in Wound Epithelialization. *Adv Wound Care*, 3(7), 482-491.
- Rangel-Huerta, E., & Maldonado, E. (2017). Transit-Amplifying Cells in the Fast Lane from Stem Cells towards Differentiation. *Stem Cells International*, 1: 1-10
- Rantan, F. A., Ferdiansyah, & Purwadi. (2014). Stem Cell: Mesenchymal, Hematopoietik, Dan Model Aplikasi Edisi Kedua. *Airlangga University Press (AUP)*, ISBN 978-602-7924-69-7.
- Rasulov, M. F., Vasilchenkov, A.V., Onishchenko, N.A., Krashennnikov, M. E., Kravchenko, V. I, (2005). First experience of the use bone marrow mesenchymal stem cells for the treatment of a patient with deep skin burns. *Bull Exp Biol Med*; Jan 13.
- Resadita, R., Purnomo, E., dan Seswandhana, M.R. (2021). Efek Terapi Tekanan Negatif Terhadap Penutupan Luka dan Angka Kuman pada Model Babi Yorkshire Dengan Luka Bakar Dermal Dalam [Thesis, Universitas Gadjah Mada]
- Reiss, M.J., Han, Y.P., Garcia, E., Goldberg, M., Hong, Y.K., Garner, W.L. (2010). Matrikx Metalloproteinase-9 Delays Wound Healing in a Murine Wound Model. National Institutes of Health. *Surgery*, 147(2): 295
- Rice, P. L., Orgill, D. P., Jeschke, M. G., & Collins, K. A. (2017). Classification of burn injury. www.uptodate.com (Accessed on December 2017).

- Rorison, P., Thomlinson, A., Hassan, Z., Roberts, S. A., Ferguson, M. W., Shah, M., (2010). Longitudinal changes in plasma transforming growth factor beta-1 and post-burn scarring in children. *Burns*, 36(1): 89-96.
- Rose, L. F., & Chan, R. K. (2017). The Burn Wound Microenvironment. *Adve Wound Care*, 5(3): 106-118.
- Rozario, T., & Desimone, D. W. (2010). The extracellular matrix in development and morphogenesis: a dynamic view. *Dev Biol*, 341(1): 126-140
- Sander, A. L., Henrich, D., Muth, C. M., Marzi, I., Barker, J. H., & Frank J. M. (2009). In vivo effect of hyperbaric oxygen on wound angiogenesis and epithelialization. *Wound Repair Regen*, 17(2): 179-184.
- Seaton, M., Hocking A., Gibran, N. S. (2015). Porcine Models of Cutaneous Wound Healing. *ILAR Journal*, 56(1): 127-138.
- Seswandhana, M. R., Anzhari, S., Dachlan, I., Wirohadidjojo, Y. W., Aryandono, T. (2020). A case series of negative pressure wound therapy as a promising treatment in patients with burn injury. *Int J Surg Case Rep*, 69: 64–67
- Seswandhana R., Anzhari S., Ghozali A., Dachlan I., Wirohadidjojo Y.W., Aryandono T. (2021). A modified method to create a porcine deep dermal burn model. *Ann Burns Fire Disasters*, 34(2): 187–191
- Sheu, S. H., Wang, W. L., Fu, Y. T., Lin, S. C., Lei, Y. C., Liao, J. H., (2014). The pig as an experimental model for mid-dermal burns research. *Burns*, 40: 1679-1688.
- Simonetti, O., Lucarini, G., Cirioni, O., Zizzi, A., Orlando, F., Provinciali, M., (2013). Delayed wound healing in aged skin rat models after thermal injury is associated with an increased MMP-9, K6, an CD 44 expression. *Burns*, 39(4): 776-787.
- Sponheim, J., Pollheimer, J., Olsen, T., Balogh, J., Hammarström, C., Loos, T., Kasprzycka, M., Sørensen, D. R., Nilsen, H. R., Kuchler, A. M., Vatn, M. H., & Haraldsen, G. (2010). Inflammatory bowel disease-associated interleukin-33 is preferentially expressed in ulceration-associated myofibroblasts. *Am J Pathol.*, 177(6), 2804–2815.
- Stenn, K. S., & Depalma, L. (1996). Re-epithelialization. In: Clark, R. A. (Ed), *The molecular and cellular biology of wound repair* 2nd Ed., pp. 321-335. New York: Plenum Press.



- Wang, X. J., Hang, G., Owens, P., Siddiqui, Y., Li, A. G. (2006). Role of TGFβ-Mediated Inflammation in Cutaneous Wound Healing. *J Invest Dermatol Symp Proc*, 11: 112-115.
- Wardhana, A., Basuki, A., Prameswara, A. D. H., Rizkita, D. N., Andarie, A. A., & Canintika, A. F. (2017). The epidemiology of burns in Indonesia's national referral burn center from 2013 to 2015. *Burns Open*, 1: 67-73.
- Webster, J., Scuffham, P., Stankiewicz, M., & Chaboyer, W. P. (2014). Negative pressure wound therapy for skin grafts and surgical wounds healing by primary intention (Review). *Cochrane Database of Systematic Reviews*, 10: 1-65.
- WHO. (2012). WHO biennial report 2010/2011: violence, injury and disability: 20. Geneva: Swiss.
- WHO. (2014). WHO Health Estimates 2014 Summary Tables: Deaths and Global Burden of Disease. Geneva: Swiss.
- Wipff, P. J., Rifkin, D. B., Meister, J. J., & Hinz, B. (2007). Myofibroblast contraction activates latent TGF-beta1 from the extracellular matrix. *J Cell Biol*, 179(6): 1311–1323.
- Wosgrau, A. C. C., Jeremias, T. S., Leonardi, D. F., Pereima, M. J., Giunta, G. D., & Trentin, A. G. (2015). Comparative Experimental Study of Wound Healing in Mice: Pelnac versus Integra. *Plos One*, 10(3): 1-10
- Wu, Y., Chen, L., Scott, P. G., & Tredget, E. E. (2007). Mesenchymal stem cell enhance wound healing through differentiation and angiogenesis. *Stem Cells*, 25(10): 2648-2659.
- Wysocki, A. B., Staiano-Coico, L., & Grinnell, F. (1993). Wound fluid from chronic leg ulcers contains elevated levels of metalloproteinases MMP-2 and MMP-9. *J Invest Dermatol.*, 101(1), 64–68.
- Xu, Y., Hong, Y., Xu, M., Ma, K., Fu, X., Zhang, M., and Wang, G. (2016). Role of Keratinocyte Growth Factor in the Differentiation of Sweat Gland-Like Cells From Human Umbilical Cord-Derived Mesenchymal Stem Cells. *Stem Cells Transl. Med.*, Vol 5:106–116
- Yagami, A., Orihara, K., Morita, H., Futamura, K., Hashimoto, N., Matsumoto, K., Saito, H., dan Matsuda, A. (2010). IL-33 Mediates Inflammatory Responses in Human Lung Tissue Cells. *J Immunol.* 5743-5749.
- Yamaguchi, R., Takami, Y., Yamaguchi, Y., & Shimazaki, S. (2007). Bone marrow-derived myofibroblasts recruited to the upper dermis appear beneath

regenerating epidermis after deep dermal burn injury. *Wound Repair Regen*, 15(1): 87-93.

Yang, L., Scott, P. G., Dodd, C., Medina, A., Jiao, H., Shankowsky, H. A., (2005). Identification of fibrocytes in postburn hypertrophic scar. *Wound Repair Regen*, 13(4): 398-404.

Yang, R. H., Qi, S. H., Shu, B., Ruan, S. B., Lin, Z. P., Lin, Y., (2016). Epidermal stem cells (ESCs) accelerate diabetic wound healing via the Notch signalling pathway. *Biosci Rep*, 36(4): 1-7.

Yang, S. L., Zhu, L. Y., Han, R., Sun, L. L., & Dou, J. T. (2017). Effect of Negative Pressure Wound Therapy on Cellular Fibronectin and Transforming Growth Factor- β 1 Expression in Diabetic Foot Wounds. *Foot Ankle Int*, 38(8), 893–900.

Yin, H., Li, X., Hu, S., Liu, T., Yuan, B., Gu, H. (2013). IL-33 accelerates cutaneous wound healing involved in upregulation of alternatively activated macrophages. *Mol Immunol*, 56(4): 347-353.

Yu, G., Li, Y., Ye, L., Wang, X., Zhang, J., Dong, Z., Jiang, D. (2017). Exogenous Peripheral Blood Mononuclear Cells Affect the Healing Process of Deep-Degree Burns. *Mol Med Rep*, 16: 8110—8122.

Zhou, X., Li, G., Wang, D., Sun, X., & Li, X. (2018). Cytokeratin expression in epidermal stem cell in skin adnexal tumors. *Oncol Lett*, 17(1): 927-932.

Zhu, J., Yu, A., Qi, B., Li, Z., & Hu, X. (2014). Effects of Negative Pressure Wound Therapy on Mesenchymal Stem Cells Proliferation and Osteogenic Differentiation in a Fibrin Matrix. *Plos One*, 9(9): 1-9.