

## DAFTAR PUSTAKA

- Allen, L. V., 2002, The Art science, and Technology of Pharmaceutical Compounding, 304,309,310, American Pharmaceutical Association, Washington D. C.
- Alshehabat, M., Wael H ., Zuhair B.I., Safwan, A.R and Mahmoud, A.A. 2022. Wound healing in iunocompromised dogs: A comparison between the healing effects of moist exposed burn ointment and honey. *Vet. World.Veterinary World. 13(12). pp. 2793–2797.*
- Ansel, HC., Allen, LV., Popovich, NG,. 2012. *Pharmaceutical Compounding, Second Edition. 301.* American Pharmaceutical Association : Washington, D.C
- Arikumalasari, J., I GNA, D., & NPAD, W. (2013). Optimasi HPMC Sebagai *Gelling agent* Dalam Formula Gel Ekstrak Kulit Buah Manggis (*Garcinia mangostana L.*). *Jurnal Farmasi Udayana, 2(3).*
- Aryan, A., Mohaad, B., Shahin, B., Soudabeh T., Newsha, H., Mohaad, B., Abbas, P., and Mohaad A.A., 2018. Human bone marrow mesenchymal stem cell conditioned medium promotes wound healing in deep second-degree burns in male rats. *Cells Tissue, pp. 317–329.*
- Atala, A., and Robert, L. 2013. Handbook of stem cells. Handbook of Stem Cells. *Elsevier Inc., 1–2.*
- Balk, S.J. 2011. Council On Environmental, Health; Section On, Dermatology. Ultraviolet Radiation: A Hazard To Children And Adolescents. *Pediatrics, 127(3), pp. 791–817.*
- Barrientos, S., Olivera, S., Michael, SG., Harold, B., Marjana, TM,. 2008. Growth Factors and Cytokines in Wound Healing. *J Wound Repair and Regenerat. 16:5 85-601*
- Berry R, Christopheher D.C., Martin, T.G., Elise, J., Laura, C., Metthew, S.R,. 2014. Imaging of adipose tissue. In: *Methods in Enzymology.* Academic Press Inc.

- Bhattarai, E., Yaser, A., Nishant, A., Jingjun, Z., 2020. Stem Cells And Their Potential Applications In Dermatology. *Journal of Stem Cells Research, Development & Therapy.*, 6(4)(4), pp. 1–6.
- Bounds, K., Jane, A.C.H., Matthew, M., Randall, M.J., and Abdul, N.H., 2021. The influence of a biofilm-dispersing wound gel on the wound healing process. *Int.Wound J.*, 19(3), pp. 553–572.
- Brunnicardi, F.C., 2010. Schwartz's Principles Of Surgery 9th Ed. New York: Mcgraw-Hill, Medical Pub. Division. in Chapter 8: Burn.
- Carville, K., 2012. Wound Care Manual 6 ed Revised and Expanded. Published by Silver Chain, Pharmaceutical Society of Australia Ltd.
- Citra, C.D., Nyi, M.S., 2015. Review artikel: Hidroksi propil Metil Selulosa dan Karbomer serta Sifat Fisikokimianya Sebagai Gelling Agent. *Farmaka.* 14:3.
- Cowin, AL., Hatzirodos, N., Holding, CA., Dunnaiski, V., Harries, RH., *et al.*, 2001. Effect of Healing on The Expression of Transforming Growth Factor Beta and Receptor in Chronic venous Leg Ulcers. *J.Invent Dermatol.* 117:1282-9
- Dennler, S., Goumans, MJ., Djike. 2002. Transforming Growth Factor Signal Transduction. *J of Leukocyte Bio.* 71: 731-740
- Dinh, T., Braunagel, S. and Rosenblum, B.I. 2015. Growth factors in wound healing: the present and the future. *Clinics in podiatric medicine and surgery.* 32(1), pp. 109–119.
- Du, H. and Taylor, H.S. 2010. Stem cells and reproduction. *Current opinion in obstetrics & gynecology.* 22(3). 235.
- Du, H., and Taylor, H.S., 2009. Stem cells and female reproduction. *Reprod Sci.* 16(2), pp. 126–139.
- Fahimi S, Mohaad, A., Seyed, A.M., Homa, H., Amir, H.A., and Mohaad A.R., 2015. Wound healing activity of a traditionally used poly herbal product in a burn wound model in rats. *Iran Red Crescent Med J.* 17(9).

- Faler, BJ., Macsata, RA., Puer, D., Mishra., L., Sidawy, AN., 2006. Transforming Growth Factor-B and Wound Healing. Perspectives in Vascular Surgery and Endovascular Therapy. 18(1): 55-62
- Forjuoh, S.N., 2006. Burns in low and middle-income countries: a review of available literature on descriptive epidemiology, risk factors, treatment, and prevention. Burns. 32(37), 592.
- Halim, D., Harry, M., Ferry, S., Arief, B., Tono, D., Boenjamin, S., 2010. Stem Cell: Dasar Teori dan Aplikasi Klinis. Jakarta: Erlangga.
- Hardwicke J, Thomas, H., Robert, S., Naiem, M., 2012. Chemical Burns and Historical Comparison And Review Of The Literature. Burns : Journal Of The International Society For Burn Injuries. 38(3), pp. 383–387.
- Harper C.A, Petrie E. M, 2003. Plastics Materials and Proseses : A Concise Encyclopedia. New York : Wiley
- Hartono, B. 2016. Sel Punca : Karakteristik, Potensi dan Aplikasinya. J. Kedokteran Meditek, 22(60), pp. 72–75.
- Hoeck, D.J., Brian, B., Antonina, V.K., Noelyn, M.K., Felipe, S.M., Bruno, A., et al., 2017. Stem cell plasticity enables hair regeneration following Lgr5+ cell loss. Nature Cell Biology. 19(6), pp. 666-676.
- Huichao, W., Shouying, D., Yang, L., Ying, L., & Di, W. (2014). The application of biomedical polymer material hydroxy propyl methyl cellulose (HPMC) in pharmaceutical preparations. *Journal of Chemical and Pharmaceutical Research*, 6(5), 155-160.
- Imantika, E.2014. Peran Sel Punca (Stem Cells) dalam Mengatasi Masalah Infertilitas pada Wanita. Jurnal Medula. 2(02).
- Jude, EB., Blakytny, R., Bulmer, J., Boulton, AJ., Ferguson, MW., 2002. Transforming Growth Factor-Beta 1,2 and 3 and Reseptor I ang II in Diabetic Food Ulcer. J of Diabet Met. 19 : 440-7

- Kearns, R.D., Charles, C.B., James, H.H., Preston, B.R., Bruce, A.C., 2013. Thermal Burn Care: A Review Of Best Practices. What Should Prehospital Providers Do For These Patients. *Ems World*, 42(1), pp. 43–51.
- Kementerian Kesehatan Republik. 2018. Laporan Nasional Riset Kesehatan Dasar.
- Kershaw, E.E., and Jeffrey, S.F., 2014. Adipose Tissue as an Endocrine Organ. In: *Cellular Endocrinology in Health and Disease*. Elsevier Inc.
- Khalisha, A., Riris, L., Puspitasari., Karina, F.M., Imam, R., dan Iis, R. 2018. Profil Mesenchymal Stem Cell (MSC) Pasien Klinik Hayandra Pada Media Kultur Bersuplemen Menggunakan Flow Cytometry. *Jurnal Al-Azhar Indonesia Seri Sains dan Teknologi*. 4(4), pp. 195–202.
- Kibbe, A. H., 2004 *Handbook of Pharmaceutical Exipients*, Third Edition, 18-19, 462-469, 629-631, Pharmaceutikal Press, London.
- Kim, W.S., Park, B.S., and Jong, H.S. 2009. The wound-healing and antioxidant effects of adipose-derived stem cells. *Expert Opinion on Biological Therapy*, 9(7), pp. 879–887.
- Kim, W.S., Park, B.S., Jong, H.S., et al. 2007. Wound healing effect of adipose-derived stemcells: a critical role of secretory factors on human dermal fibroblasts. *Journal of Dermatological Science*, 48(1), pp. 15–24.
- Kirby, T.S., Stuart, J.M., Allison, J.C., Louise, E.S., 2015. Stem cells for cutaneous wound healing. *BioMed Res Internat*.
- Kowalski, M.T., Caroline, B.R., 2008. *Textbook Of Basic Nursing (9th Ed.)*. Philadelphia: Lippincott Williams & Wilkins.
- Kumar, S., Peng F.W., David, J.L., 2004. What Is New In Wound Healing. *Turk J Med Sci*, 34, pp. 147–160.
- Kwon, S.H., Bhang, S.H., Jang, H.K., Rhim, T. and Kim, B.S., 2015. Conditioned medium of adipose-derived stromal cell culture in three-dimensional bioreactors for enhanced wound healing. *Journal of surgical research*, 194(1).



- Lachman, L., Lieberman, kaning, JK., 1994. Teori dan Praktik Farmasi Industri, Edisi 3, Ahli Bahasa oleh S.Suyami, Penerbit Universitas Indonesia: Jakarta
- Lanza, R., Helen, B., John, G., Brigid, H., Douglas, M., Malcolm, M., et al., 2013. Handbook of Stem Cells, Two-Volume Set: Volume 1 Embryonic Stem Cells; Volume 2-Adult & Fetal Stem Cells. Elsevier.
- Lee, J.H., Park, C.H., Chun, K.H. and Hong, S.S. 2015. Effect of adipose-derived stem cell-conditioned medium on the proliferation and migration of B16 melanoma cells. *Oncology letters*, 10(2), pp. 730–736.
- Lee, D.E., Nagi, A., Devendra, K.A., 2016. Mesenchymal stem cells and cutaneous wound healing: Novel methods to increase cell delivery and therapeutic efficacy. *Stem Cell Res Ther.*, 7, p. 37.
- Maleki, M., Farideh, G., Mohaad, R.B., Mehri, E., and Elham, G., 2014. Comparison of Mesenchymal Stem Cell Markers in Multiple Human Adult Stem Cells. *International Journal of Stem Cell*. 7(2), pp. 118–126.
- Marlina, M., Rahmadian, R., Sudji, I.R., Handayana, V., Safitri, M., Elida, N., et al. 2021. Synovial Membrane Mesenchymal Stem Cell [SM-MSC] Induced IGF-1 Promote Growth Factor Release in Conditioned Medium SM-MSC. *IOP Conference Series: Earth and Environmental Science.*, 741(1), pp. 1–6.
- Marx, John. 2010. Chapter 144: Radiation Injurie. *Rosen's Emergency Medicine : Concepts And Clinical Practice (7th Ed.)*. Philadelphia: Mosby/Elsevier.
- Mathen, C., Mrunal, G.S., Raghubansh, G., Wilfrid, D., and Shilpa, G.K., 2021. Evaluation of potential application of Wharton's jelly-derived human mesenchymal stromal cells and its conditioned media for dermal regeneration using rat wound healing model. *Cells Tiss. Org*, 210(1), pp. 31–44.
- Mehrvarz, S., Ali, E., Hedayat, S., Mohaad, H.B., Sima, F., Shahram, M., et al. 2017. Effects of topical tamoxifen on wound healing of burned skin in rats. *Arch Plast Surg.*, 44(5), pp. 378–83.

- Meiliana, A., Nurrani, M.D., and Andi, W., 2019. Mesenchymal stem cell secretome: Cell-free therapeutic strategy in regenerative medicine. *Indones. Biomed. J.*, 11(2), pp. 113–124.
- Menteri Kesehatan. 2018. Peraturan Menteri Kesehatan Republik Indonesia Nomor 32 Tahun 2018.
- Miana, V.V., and Ello, A.P.G., 2018. Adipose tissue stem cells in regenerative medicine. *Ecancermedicalsecience*, 12.
- Mingyao, W., Xinxuan, X., Xiongxin, L., Jie, T., and Huiqi, X., 2021. Mesenchymal stem cell-based therapy for burn wound healing. *Burns & Trauma*, 9.
- Mitry R., R, Hughes R., D (eds.). 2012. *Introduction to Cell Culture. Human Cell Culture Protocols, Methods in Molecular Biology.*; 806
- Moenadjat, Y., 2003. *Luka Bakar Pengetahuan Klinis Praktis, Ed 2*, Jakarta: Balai Penerbit Fakultas Kedokteran Universitas Indonesia.
- Noverina, R., Wahyu, W., Wireni, A., Dedy, K., Ervi, A., Dian, R.L., et al. 2019. Growth Factors Profile in Conditioned Medium Human Adipose Tissue-Derived Mesenchymal Stem Cells (CM-hATMSCs). *Clinical Nutrition Experimental.*, 24, pp. 34–44.
- Ovington, LG., 1999. Dressing and Adjunctive Therapies: AHCPR Guidelines Revisited. *Ostomy Wound Manage* ; 45 (1a suppl) 94s-106s; Quiz 107s-108s
- Owen, S.C., 2006, Sorbitol, in: Rowe, R.C., Sheskey, P.J., and Owen, S.C., *Handbook of Pharmaceutical Excipients. Fifth edition*, 718-721, Pharmaceutical Press, London Chicago.
- Owczarczyk-Saczonek, A., Anna, W., Waldemar, P., Wojciech, M., and Joanna, W., 2017. The use of adipose-derived stem cells in selected skin diseases (Vitiligo, Alopecia, and Nonhealing Wounds). *Stem cells international*.

- Park, B.S., Kyoung, A.J., Jong, H.S., Jeong, S.P., Yong, H.K., Kea, J.K., Won, S.K. 2008. Adipose-derived stem cells and their secretory factors as a promising therapy for skin aging. *Dermatologic Surgery*, 34(10), pp. 1323–1326.
- Pawitan, J.A., 2014. Prospect of stem cell-conditioned medium in regenerative medicine. *Biomed. Res. Int.* [Preprint].
- Peck M, and Melissa, A.P., 2013. The correlation between burn mortality rates from fire and flame and economic status of countries. *Burns*, 39(6), pp. 1054–9.
- Putri, W.E., Anang, E., Fedik, A.R., Cita, R.S.P., 2021. Mesenchymal Stem Cells-Conditioned Medium (Secretome) in Skin Aging: A Systematic Review. *International Journal of Pharmaceutical Research.*, 13(2), pp. 613–35.
- Rahmi, N.R., 2017. Pembuatan Film Balutan Primer Yang Mengandung Kolagen Kulit Ikan Gabus (*Channa Striata*) Dan Pengaruh Film Terhadap Penyembuhan Luka Bakar.
- Reinke, J.M. and Sorg, H. 2012. Wound repair and regeneration. *Eur. Surg. Res.*, 49(1), pp. 35–43.
- Song, S.H., Mi, O.L., Ji, S.L., et al. 2012. Genetic modification of human adipose-derived stem cells for promoting wound healing. *Journal of Dermatological Science*, 66(2), pp. 98–107.
- Safitri, E., and Mas`ud, H., 2019. Comparison of biotechnological culture of hypoxia-conditioned rat mesenchymal stem cells with conventional in vitro culture of normoxia-conditioned rat mesenchymal stem cells for testicular failure therapy with low libido in rats. *Vet. World*, 12(6), pp. 916–924.
- Salsabila, H.N. 2022. Uji Kandungan Faktor Pertumbuhan Epidermal growth Factor (EGF) dan Fibroblast Growth Factor (FGF) Dalam Sediaan Krim Sekretom Sel Punca Mesenkimal. [SKRIPSI]
- Santi. 2018. Peranan sel Punca dalam Penyembuhan Luka. *Continuing Professional Development*.

- Schultz, G.S., Gary, S., Vincent, F., Elizabeth, A., Caroline, D., et al. 2003. Wound Bed Preparation: A Systemic Approach To Wound Management. *Wound Repair And Regeneration*, 11, pp. 1–28.
- Shah, Revis, D., Herrick, S., et al., 1999. Role of Elevated Plasma Transforming Growth Factor-Beta1 Levels in Wound Healing. *AM.J.Pathol.*154.1115-1124
- Sugiyati, R., Iskandarsyah, Joshita, D., 2015. Formulasi dan uji penetrasi in vitro sediaan gel transfersom mengandung kofein sebagai antiselulit. *J Ilmu Kefarmasian Indones.*, 13(2), pp. 131–6.
- Syamsuhidayat, R. 1997. *Buku Ajar Ilmu Bedah, Edisi Revisi*. Penerbit Buku Kedokteran EGC. Jakarta.
- Tarcisia, T., Lia, D., Radiana D.A., Yefta, M., and Jeanne, P.A., 2017. Adipose-derived stem cell-conditioned medium effect on proliferation phase of wound healing in Sprague dawley rat. *Med. J. Indones.*, 26(4), pp. 239–245.
- Teixeira, F., Antonio, J.S., 2020. Mesenchymal Stem Cells Secretome: Current Trends and Future Challenges. *Neural Regeneration Research.*, 15(1), pp. 75-77.
- The American Burn Association. 2019. National Burn Repository.
- Thiagarajan P.S, and Reizes, O., 2016. Adipose Tissue-Derived Stem Cells in Regenerative Medicine and Impact on Cancer. In: *Cancer Stem Cells: Targeting the Roots of Cancer, Seeds of Metastasis, and Sources of Therapy Resistance*. Elsevier Inc.p. 411-438.
- Tiara, M., Hosea, J.E., Novel, K., 2013. Formulasi gel ekstrak daun sasaladahan (*Peperomia pellucida* (L.) H.B.K) dan uji efektivitasnya terhadap luka bakar pada kelinci (*Oryctolagus cuniculus*). 2013, 2(2), pp. 49–56.
- Tintinalli, J.E., John, O.M., Donald, M.Y., et al. 2010. *Emergency Medicine: A Comprehensive Study Guide (Emergency Medicine (Tintinalli))*. New York: Mcgraw-Hill Companies., pp. 1374–1386.



- Tsiloulis T, and Matthew, J.W., 2015. Exercise and the Regulation of Adipose Tissue Metabolism. In: Progress in Molecular Biology and Translational Science. Elsevier B.V.
- Valluru, M., Carolyn, A.S., Malcolm, W.R., Nicola, J.B. 2011. Transforming Growth Factor- $\beta$  and Endoglin Signaling Orchestrate Wound Healing. *Front Physiol*; 2, p. 89.
- Varderidou, M.S. and Magdalena, J.L., 2020. Mesenchymal stromal/stem cell-derived extracellular vesicles in tissue repair: Challenges and opportunities *Theranostics*, 10(13), pp. 5979-5997.
- Vizoso, F.J., Eiro, N., Cid, S., Jose, S. and Roman, P.F., 2017. Mesenchymal stem cell secretome: Toward cell-free therapeutic strategies in regenerative medicine. *Int. J. Mol. Sci*, 18(9), pp. 1–24.
- Walter, M.N.M., Wright, K.T., Fuller, H.R., MacNeil, S., and Johnson, W.E.B., 2010. Mesenchymal stem cell-conditioned medium accelerates skin wound healing: An in vitro study of fibroblast and keratinocyte scratch assays. *Exp. Cell Res.*, 316(7), pp. 1271–1281.
- Werner, S., Grose, R., 2003. Regulation of Wound Healing by Growth Factors and Cytokines. *American Physiological Society*. 83: 835-870
- World Health Organization. 2018. Epidemiology of Burn injuries
- Yang, L., Chan, T., Demare, J., Iwashina, T., Ghahary, A., Scott, PG., Tredget, E., 2001. Healing of Burn Wounds in Transgenic Mice Overexpressing Transforming Growth Factor-B1 in the Epidermis. *American Journal of Pathology*. 6:159
- Yolanda, M.M., Alvarez, V.M., Ferrero, G.A., Perez, B.M., Perez, L.S., Escudero, D., et al. 2014. Adult stem cell therapy in chronic wound healing. *J Stem Cell Res Ther.*, pp. 1–4.
- Zhong, S., Xufeng, H., Yuexia, L., and Xiangxin, L., 2019. Conditioned medium enhances osteogenic differentiation of induced pluripotent stem cell-derived mesenchymal stem cells. *Tissue Eng. Regen. Med.*, 16(2), pp. 141–150.

Zhou, B.R., Yang, X., Shi, L.G., Yan, X., Ying, W., Fen, Z., et al. 2013. The effect of conditioned media of adipose-derived stem cells on wound healing after ablative fractional carbon dioxide laser resurfacing. *BioMed Research Inter.*

