

DAFTAR PUSTAKA

1. [DEPKES RI] Departemen Kesehatan Republik Indonesia. Pedoman nasional pelayanan kedokteran tata laksana luka bakar. Jakarta: Depkes RI. 2019. p. 5–24.
2. Sminkey L. World report on child injury prevention. Inj Prev. 2008;14(1):69.
3. Kementerian Kesehatan Republik Indonesia. Laporan nasional riset kesehatan dasar. Kementerian Kesehatan RI. 2018. p. 249–64.
4. Doharmauli S. Diagnosa keperawatan pada pasien luka bakar. Web: OSF Preprints. 2019;3–4.
5. Jong W. Luka bakar. Buku ajar bedah. Edisi 2. Jakarta: EGC; Vol. 2. 2005. 113–120 p.
6. Setiawan R, Rohmani A, Kurniati ID, Ratnaningrum K, Basuki R, Prasetyo B. Luka bakar. Sistem muskuloskeletal. Semarang: Unimus Press; Buku ajar ilmu bedah. 2015. 25–29 p.
7. Jong W de, Sjamsuhidajat R. Buku ajar ilmu bedah sjamsuhidajat-de Jong. Edisi 3. Jakarta: Penerbit Buku Kedokteran EGC; 2017.
8. Reinke JM, Sorg H. Wound repair and regeneration. Eur Surg Res. 2012;49(1):35–43.
9. Takeo M, Lee W, Ito M. Wound healing and skin regeneration. 2015;1–12.
10. Oshima H, Rochat A, Kedzia C, Kobayashi K, Barrandon Y. Morphogenesis and renewal of hair follicles from adult multipotent stem cells. Cell. 2001;104(2):233–45.
11. David T, Woodley, MD. Distinct fibroblasts in the papillary and reticular dermis: Implications for wound healing. Dermatol Clin. 2017;35(1):95–100.
12. Potter A.P. PG. Buku ajar fundamental keperawatan. Edisi 4. EGC; Jakarta. 2005.
13. Kintoko K, Desmayanti A. The effectivity of ethanolic extract of binahong leaves (*anredra cordifolia* (tenore) steen) gel in the management of diabetic wound healing in aloxan-induced rat models. J Kedokt dan Kesehat Indones. 2016;7(5):227–36.
14. Anggraeni D, Airin CM, Raharjo S. The effectiveness of ethanol extract of binahong leaves on diabetic wound healing. J Kedokt Hewan - Indones J Vet Sci. 2017;11(4):146–52.
15. Singh M, Nuutila K, Collins KC, Huang A. Evolution of skin grafting for

- treatment of burns: Reverdin pinch grafting to Tanner mesh grafting and beyond. *Burns*. 2017;43(6):1149–54.
16. Fedik Abdul Rantam P. Stem cell 2: Mesenchymal, hematopoietik, dan model aplikasi. Surabaya: Airlangga University Press (AUP); 2014. 1–28 p.
 17. Sierra-Sánchez Á, Montero-Vilchez T, Quiñones-Vico MI, Sanchez-Diaz M, Arias-Santiago S. Current advanced therapies based on human mesenchymal stem cells for skin diseases. *Front Cell Dev Biol*. 2021;9.
 18. Li Z, Maitz P. Cell therapy for severe burn wound healing. *Burn trauma*. 2018;6:1–10.
 19. Luo G, Cheng W, He W, et al. Promotion of cutaneous wound healing by local application of mesenchymal stem cells derived from human umbilical cord blood. *Wound Repair Regen*. 2010;18(5):506–13.
 20. Liu ZJ, Zhuge Y, Velazquez OC. Trafficking and differentiation of mesenchymal stem cells. *J Cell Biochem*. 2009;106(6):984–91.
 21. Kareem NA, Aijaz A, Jeschke MG. Stem cell therapy for burns: Story so far. *Biol Targets Ther*. 2021;15:379–97.
 22. Weng T, Wu P, Zhang W, Zheng Y, Li Q, Jin R, et al. Regeneration of skin appendages and nerves: Current status and further challenges. *J Transl Med*. 2020;18(1):1–17.
 23. Stone R, Natesan S, Kowalczewski CJ, Mangum LH, Clay NE, Clohessy RM, et al. Advancements in regenerative strategies through the continuum of burn care. *Front Pharmacol*. 2018;9(JUL).
 24. Wu XJ, Zhu JW, Jing J, Xue D, Liu H, Zheng M, et al. VEGF165 modulates proliferation, adhesion, migration and differentiation of cultured human outer root sheath cells from central hair follicle epithelium through VEGFR-2 activation in vitro. *J Dermatol Sci*. 2014;73(2):152–60.
 25. Revilla G. Pengaruh bone marrow mesenchymal stem cells terhadap sekresi VEGF pada penyembuhan luka bakar tikus. *J Kesehat Andalas*. 2017;6(3):702.
 26. Stawiski MA. Patofisiologi konsep klinis proses-proses penyakit Edisi 6 Vol 2. Jakarta: EGC; 2006. 1416–1421 p.
 27. Sherwood L. Fisiologi manusia dari sel ke sistem. Edisi9. Jakarta: EGC; 2019. p. 517–9.
 28. Anthony L. M. Histologi dasar junqueira teks & atlas. Edisi 14. Jakarta: EGC; 2017. 423–445 p.

29. Kalangi SJR. Histofisiologi kulit. J Biomedik. 2014;5(3):12–20.
30. Eroschenko victor p. Atlas histologi difiore dengan korelasi fungsional. Edisi 12. Jakarta: EGC; 2015. 213–229 p.
31. Rihatmadja R. Ilmu penyakit kulit dan kelamin. Edisi 7.Jakarta: Fakultas Kedokteran Universitas Indonesia; 2019. p. 3–6.
32. Brüggen MC, Stingl G. Subcutaneous white adipose tissue: The deepest layer of the cutaneous immune barrier. JDDG - J Ger Soc Dermatology. 2020;18(11):1225–7.
33. Dorland. Kamus saku kedokteran dorland Ed.29. Singapura: Elsevier; 2014.
34. Kristanto EG, Kalangi SJR. Penentuan derajat luka dalam visum et repertum pada kasus luka bakar. J Biomedik. 2014;5(3).
35. David C. Sabiston, Jr. M. Buku ajar bedah bagian 1: luka bakar. Jakarta: EGC; 1995.
36. Robbins EV. Burn shock. crit care nurs clin north am. 1990. 299–307 p.
37. Pham TN, Cancio LC, Gibran NS. American burn association practice guidelines burn shock resuscitation. J Burn Care Res. 2008;29(1):257–66.
38. Nisancı M, Eski M, Sahin I, Ilgan S, Isik S. Saving the zone of stasis in burns with activated protein C: An experimental study in rats. Burns. 2010;36(3):397–402.
39. Tan JQ, Zhang HH, Lei ZJ, Ren P, Deng C, Li XY, et al. The roles of autophagy and apoptosis in burn wound progression in rats. Burns. 2013;39(8):1551–6.
40. Martin É, Silvain S. Pathophysiology of burns. Point Vet. 2018;49(384):32–5.
41. Tiwari VK. Burn wound: How it differs from other wounds. Indian J Plast Surg. 2012;45(2):364–73.
42. Kim S-G. Immunomodulation for maxillofacial reconstructive surgery. Maxillofac Plast Reconstr Surg. 2020;42(1).
43. Krzyszczuk P, Schloss R, Palmer A, Berthiaume F. The role of macrophages in acute and chronic wound healing and interventions to promote pro-wound healing phenotypes. Front Physiol. 2018;9(MAY):1–22.
44. Kim KW, Lee SJ, Kim JC. TNF- α upregulates HIF-1 α expression in pterygium fibroblasts and enhances their susceptibility to VEGF independent of hypoxia. Exp Eye Res. 2017;164:74–81.

45. Sorg H, Tilkorn DJ, Hager S, Hauser J, Mirastschijski U. Skin wound healing: an update on the current knowledge and concepts. *Eur Surg Res.* 2017;58(1–2):81–94.
46. Auger FA, Lacroix D, Germain L. Skin substitutes and wound healing. *Skin Pharmacol Physiol.* 2009;22(2):94–102.
47. Oryan A, Alemzadeh E, Moshiri A. Burn wound healing: Present concepts, treatment strategies and future directions. *J Wound Care.* 2017;26(1):5–19.
48. Pp A, Skp IAI, Kristiningrum E. Suplemen untuk rambut sehat. *2018;45(6):454–60.*
49. Ferrara N. Vascular endothelial growth factor: Basic science and clinical progress. *Endocr Rev.* 2004;25(4):581–611.
50. Marcovecchio ML, Lucantoni M, Chiarelli F. Role of chronic and acute hyperglycemia in the development of diabetes complications. *Diabetes Technol Ther.* 2011;13(3):389–94.
51. Dyah P. Diabetes melitus. Buku ajar ilmu penyakit dalam. Edisi 6, jilid 2. 2014. 2325 p.
52. Harahap AS, Herman RB, Yerizel E. Gambaran glukosa darah setelah latihan fisik pada tikus wistar diabetes melitus yang diinduksi aloksan. *J Kesehat Andalas.* 2015;4(1):23–9.
53. Prameswari OM, Widjanarko SB. Uji efek ekstrak air daun pandan wangi terhadap penurunan kadar glukosa darah dan histopatologi tikus diabetes melitus. *J Pangan dan Agroindustri.* 2014;2(2):16–27.
54. Harahap AS. Buku ajar patologi dasar Robbins. Edisi 10. Singapura: Elsevier; 2019.
55. Watkins D, Cooperstein SJ, Lazarow A. Effect of alloxan on permeability of pancreatic islet tissue in vitro. *Am J Physiol.* 2008;207:436–40.
56. Filipponi P, Gregorio F, Cristallini S, Ferrandina C, Nicoletti I, Santeusanio F. Selective impairment of pancreatic a cell suppression by glucose during acute alloxan-induced insulinopenia: In vitro study on isolated perfused rat pancreas. *Endocrinology.* 2008;119(1):408–15.
57. Soelistijo SA, Lindarto D, Decroli E, Permana H, Sucipto KW, Kusnadi Y, et al. Pedoman pengelolaan dan pencegahan diabetes melitus tipe 2 dewasa di Indonesia 2019. Perkumpulan Endokrinol Indones. 2019;
58. Loader J, Montero D, Lorenzen C, Watts R, Méziat C, Reboul C, et al. Acute hyperglycemia impairs vascular function in healthy and cardiometabolic

- diseased subjects: Systematic review and meta-analysis. *Arterioscler Thromb Vasc Biol.* 2015;35(9):2060–72.
59. Agung Putra MSM. Basic molecular stem cell. Vol. 1, Unissula Press. 2019. 53 p.
 60. Zhang XN, Ma ZJ, Wang Y, Sun B, Guo X, Pan CQ, et al. Angelica Dahurica ethanolic extract improves impaired wound healing by activating angiogenesis in diabetes. *PLoS One.* 2017;12(5):1–18.
 61. Metcalfe AD, Ferguson MWJ. Tissue engineering of replacement skin: The crossroads of biomaterials, wound healing, embryonic development, stem cells and regeneration. *J R Soc Interface.* 2007;4(14):413–7.
 62. Michurina T V, Ferraro F, et al. Mesenchymal and haematopoietic stem cells form a unique bone marrow niche. *2010;466.*
 63. Wu Y, Chen L, Scott PG, Tredget EE. Mesenchymal stem cells enhance wound healing through differentiation and angiogenesis. *Stem Cells.* 2007;25(10).
 64. Martinello T, Gomiero C, Perazzi A, Iacopetti I, Gemignani F, DeBenedictis GM, et al. Allogeneic mesenchymal stem cells improve the wound healing process of sheep skin. *BMC Vet Res.* 2018;14(1):1–9.
 65. Lee DE, Ayoub N, Agrawal DK. Mesenchymal stem cells and cutaneous wound healing: Novel methods to increase cell delivery and therapeutic efficacy. *Stem Cell Res Ther.* 2016;7(1):1–8.
 66. Chen L, Xing Q, Zhai Q, Tahtinen M, Zhou F, Chen L, et al. Pre-vascularization enhances therapeutic effects of human mesenchymal stem cell sheets in full thickness skin wound repair. *Theranostics.* 2017;7(1):117–31.
 67. World Health Organization. Research guidelines for evaluating the safety and efficacy of herbal medicines. manila: region al office for the western pacific. 1993. 31–41 p.
 68. Rinendyaputri R, Noviantari A. Produksi mesenchymal stem cell dari sumsum tulang belakang mencit. *J Biotek Medisiana Indones.* 2015;4(1):33–41.
 69. Shuid AN, Anwar MS, Yusof AA. The effects of carica papaya Linn. Latex on the healing of burn wounds in rats. *J Sains Kesihat Malaysia.* 2005;3(2):39–47.
 70. Huang S, Lu G, Wu Y, Jirigala E, Xu Y, Ma K, et al. Mesenchymal stem cells delivered in a microsphere-based engineered skin contribute to cutaneous wound healing and sweat gland repair. *J Dermatol Sci.* 2012;66(1):29–36.
 71. Peng LH, Mao ZY, Qi XT, Chen X, Li N, Tabata Y, et al. Transplantation of

- bone-marrow-derived mesenchymal and epidermal stem cells contribute to wound healing with different regenerative features. *Cell Tissue Res.* 2013;352(3):573–83.
72. Wan J, Xia L, Liang W, Liu Y, Cai Q. Transplantation of bone marrow-derived mesenchymal stem cells promotes delayed wound healing in diabetic rats. *J Diabetes Res.* 2013;2013.
 73. Xia Y, You XE, Chen H, Yan YJ, He YC, Ding SZ. Epidermal growth factor promotes mesenchymal stem cell-mediated wound healing and hair follicle regeneration. *Int J Clin Exp Pathol.* 2017;10(7):7390–400.
 74. Tian M, Qing C, Niu Y, Dong J, Cao X, Song F, et al. The relationship between Inflammation and impaired wound healing in a diabetic rat burn model. *J Burn Care Res.* 2016;37(2):115–24.
 75. Broughton G, Janis JE, Attinger CE. Wound healing: An overview. *Plast Reconstr Surg.* 2006;117(7 SUPPL.):1–32.
 76. Aryan A, Bayat M, Bonakdar S, Taheri S, Haghparast N, Bagheri M, et al. Human bone marrow mesenchymal stem cell conditioned medium promotes wound healing in deep second-degree burns in male Rats. *Cells Tissues Organs.* 2019;206(6):317–29.
 77. Sasaki M, Abe R, Fujita Y, Ando S, Inokuma D, Shimizu H. Mesenchymal Stem Cells Are Recruited into Wounded Skin and Contribute to Wound Repair by Transdifferentiation into Multiple Skin Cell Type. *J Immunol.* 2008;180(4):2581–7.
 78. Martin P. Wound healing - Aiming for perfect skin regeneration. *Science* (80-). 1997;276(5309):75–81.
 79. Zuo R, Liu M, Wang Y, Li J, Wang W, Wu J, et al. BM-MSC-derived exosomes alleviate radiation-induced bone loss by restoring the function o. *Stem Cell Res Ther.* 2019;10(1):1–13.
 80. Ji S, Zhu Z, Sun X, Fu X. Functional hair follicle regeneration : an updated review. *Signal Transduct Target Ther.* 2021;(June 2020):1–11.
 81. Panteleyev AA, Rosenbach T, Paus R, Christiano AM. The bulge is the source of cellular renewal in the sebaceous gland of mouse skin. *Arch Dermatol Res.* 2000;292(11):573–6.
 82. Xia Y, Chen J, Ding J, Zhang J, Chen H. IGF1- And BM-MSC-incorporating collagen-chitosan scaffolds promote wound healing and hair follicle regeneration. *Am J Transl Res.* 2020;12(10):6264–76.
 83. Eggleston RB. Equine wound management: Bandages, casts, and external

- support. *Vet Clin North Am - Equine Pract.* 2018;34(3):557–74.
84. Rittié L. Cellular mechanisms of skin repair in humans and other mammals. *J Cell Commun Signal.* 2016;10(2):103–20.
 85. Shpichka A, Butnaru D, Bezrukov EA, Sukhanov RB, Atala A, Burdakovskii V, et al. Skin tissue regeneration for burn injury. *Stem Cell Res Ther.* 2019;10(1):1–16.
 86. Rittié L, Farr EA, Orringer JS, Voorhees JJ, Fisher GJ. Reduced cell cohesiveness of outgrowths from eccrine sweat glands delays wound closure in elderly skin. *Aging Cell.* 2016;15(5):842–52.
 87. Babossalam S, Abdollahimajd F, Aghighi M, Mahdikia H, Dilmaghalian A, Toossi P, et al. The effect of nitrogen plasma on the skin and hair follicles: a possible promising future for the treatment of alopecia. *Arch Dermatol Res.* 2020;312(5):361–71.
 88. Motegi S ichiro, Ishikawa O. Mesenchymal stem cells: The roles and functions in cutaneous wound healing and tumor growth. *J Dermatol Sci.* 2017;86(2):83–9.

