

## Daftar Pustaka

1. Bolton Saghdaoui L, Lampridou S, Racaru S, Davies AH, Wells M. Healthcare interventions to aid patient self-management of lower limb wounds: A systematic scoping review. *Int Wound J.* 2023 Apr 21;20(4):1304–15.
2. Cullen B, Gefen A. The biological and physiological impact of the performance of wound dressings. *Int Wound J.* 2023 Apr 15;20(4):1292–303.
3. Gonzalez AC de O, Costa TF, Andrade Z de A, Medrado ARAP. Wound healing - A literature review. *An Bras Dermatol.* 2016 Oct;91(5):614–20.
4. Baron JM, Glatz M, Proksch E. Optimal Support of Wound Healing: New Insights. *Dermatology.* 2020;236(6):593–600.
5. Uchiyama T, Li X, Fujita - Nakajima K, Teranaka A, Liu Y, Bhawal UK, et al. Differential Inflammatory Responses in the Healing of Oral Mucosa and Skin Wounds. *International Journal of Oral-Medical Sciences.* 2021 Jun 30;20(1):19–23.
6. Cañedo-Dorantes L, Cañedo-Ayala M. Skin Acute Wound Healing: A Comprehensive Review. *Int J Inflam.* 2019 Jun 2;2019:1–15.
7. Sen CK. Human Wounds and Its Burden: An Updated Compendium of Estimates. *Adv Wound Care (New Rochelle).* 2019 Feb;8(2):39–48.
8. Cheng B, Jiang Y, Fu X, Hao D, Liu H, Liu Y, et al. Epidemiological characteristics and clinical analyses of chronic cutaneous wounds of inpatients in China: Prevention and control. *Wound Repair and Regeneration.* 2020 Sep 25;28(5):623–30.
9. Riset Kesehatan Dasar (Riskesdas). Badan Penelitian dan Pengembangan Kesehatan Kementerian RI tahun 2018. [Internet]. 2018. Available from: [https://kesmas.kemkes.go.id/assets/upload/dir\\_519d41d8cd98f00/files/Hasil-riskesdas-2018\\_1274.pdf](https://kesmas.kemkes.go.id/assets/upload/dir_519d41d8cd98f00/files/Hasil-riskesdas-2018_1274.pdf)
10. Nuutila K, Eriksson E. Moist Wound Healing with Commonly Available Dressings. *Adv Wound Care (New Rochelle).* 2021 Dec 1;10(12):685–98.
11. Sen CK. Human Wound and Its Burden: Updated 2020 Compendium of Estimates. *Adv Wound Care (New Rochelle).* 2021 May 1;10(5):281–92.
12. McElvain K, Klister J, Ebbin A, Gopalakrishnan S, Dabagh M. Impact of Wound Dressing on Mechanotransduction within Tissues of Chronic Wounds. *Biomedicines.* 2022 Nov 30;10(12):3080.
13. Lo ZJ, Lim X, Eng D, Car J, Hong Q, Yong E, et al. Clinical and economic burden of wound care in the tropics: a 5-year institutional population health review. *Int Wound J.* 2020 Jun 9;17(3):790–803.

14. Liu J, Shen H. Clinical efficacy of chitosan-based hydrocolloid dressing in the treatment of chronic refractory wounds. *Int Wound J.* 2022 Dec 7;19(8):2012–8.
15. Egribel M, Sirekbasan S, Çakan H, Polat E. Exploring the Effects of *Lucilia sericata* Larvae on Biofilm-forming Bacteria in Wounds. *Dicle Tıp Dergisi.* 2022 Dec 19;49(4):565–70.
16. Janke TM, Kozon V, Valiukeviciene S, Rackauskaite L, Reich A, Stępień K, et al. Validation of the Wound-Qo-17 and the Wound-QoL-14 in a European sample of 305 patients with chronic wounds. *Int Wound J.* 2024 Mar 4;21(3).
17. Santosa SB, Putro BN, Utomo RM. Perbedaan Efektivitas Analgetik antara Kombinasi Ketoprofen Suppositoria-Paracetamol Oral dan Meperidin Intravena Pascaoperasi Laparaskopi. *Jurnal Anestesi Perioperatif.* 2022 Aug;10(2):78–85.
18. Kirsner RS, Margolis D, Masturzo A, Bakewell K. A real-world experience with the bioactive human split thickness skin allograft for venous leg ulcers. *Wound Repair and Regeneration.* 2020 Jul 19;28(4):547–52.
19. Psathas E, Egger B, Mayer D. Dehydrated human amnion/chorion membrane allograft with spongy layer to significantly improve the outcome of chronic non-healing wounds. *Int Wound J.* 2024 Jan 3;21(1).
20. Zuhayri H, Nikolaev V V., Knyazkova AI, Lepekhina TB, Krivova NA, Tuchin V V., et al. In Vivo Quantification of the Effectiveness of Topical Low-Dose Photodynamic Therapy in Wound Healing Using Two-Photon Microscopy. *Pharmaceutics.* 2022 Jan 26;14(2):287.
21. Lakmal K, Basnayake O, Hettiarachchi D. Systematic review on the rational use of amniotic membrane allografts in diabetic foot ulcer treatment. *BMC Surg.* 2021 Dec 15;21(1):87.
22. Ibrahim M, Ayyoubi HS, Alkhairi LA, Tabbaa H, Elkins I, Narvel R. Fish Skin Grafts Versus Alternative Wound Dressings in Wound Care: A Systematic Review of the Literature. *Cureus.* 2023 Mar 19;
23. Kolimi P, Narala S, Nyavanandi D, Youssef AAA, Dudhipala N. Innovative Treatment Strategies to Accelerate Wound Healing: Trajectory and Recent Advancements. *Cells.* 2022 Aug 6;11(15):2439.
24. Patrick M, Wan Mohd Zohdi WN, Abd Muid S, Omar E. Alpha-Mangostin (*Garcinia Mangostana* Linn.) And Its Potential Application In Mitigating Chronic Wound Healing. *Malaysian Applied Biology.* 2022 Jun 30;51(2):1–8.
25. Alesa Gyles D, Pereira Júnior AD, Diniz Castro L, Santa Brigida A, Nobre Lamarão ML, Ramos Barbosa WL, et al. Polyacrylamide-Metilcellulose Hydrogels Containing *Aloe barbadensis* Extract as Dressing for Treatment of Chronic Cutaneous Skin Lesions. *Polymers (Basel).* 2020 Mar 19;12(3):690.

26. Ling W, Florenly F, Lien A L, Purba DR. Effectiveness of Turmeric Ethanol Extract Cream Preparation (Curcuma Longa) in Speeding up Wound Healing in Male Wistar Rats. Budapest International Research in Exact Sciences (BirEx) Journal. 2021 Dec 20;4(1):10–21.
27. Liu Y qiu, Zhang D, Deng J, Liu Y, Li W, Nie X. Preparation and Safety Evaluation of Centella asiatica Total Glycosides Nitric Oxide Gel and Its Therapeutic Effect on Diabetic Cutaneous Ulcers. Evidence-Based Complementary and Alternative Medicine. 2022 Mar 25;2022:1–28.
28. Asni H, Manurung R, Bonella D. Aplikasi Pelarut Eutektik K<sub>2</sub>CO<sub>3</sub>-Gliserol pada Ekstraksi Pigmen Antosianin dari Kulit Manggis (*Garcinia mangostana* Linn.). Jurnal Teknik Kimia USU. 2020 Sep 12;9(2):64–9.
29. Septiana UL, Pramudita OP, Retfiliastuti I, Sholikhah LA. Analisis Potensi Senyawa Mangostin Dalam Ekstrak Kulit Manggis (*Garcinia mangostana* L.) Sebagai Agen Antiinflamasi. Jurnal Jendela Inovasi Daerah. 2023 Aug 31;6(2):72–86.
30. Sakpakdeejaroen I, Muanrit P, Panthong S, Ruangnoo S. Alpha Mangostin Loaded Transferrin Conjugated Lipid Polymer Hybrid Nanoparticles: Development and Characterization for Tumor Targeted Delivery. The Scientific World Journal. 2022 Aug 30;2022:1–10.
31. Dang TH, Kim JY, Kim HJ, Kim BJ, Kim WK, Nam JH. Alpha Mangostin: A Potent Inhibitor of TRPV3 and Pro-Inflammatory Cytokine Secretion in Keratinocytes. Int J Mol Sci. 2023 Aug 18;24(16):12930.
32. Sekretariat Jendral. Outlook Manggis 2020. ISSN: 1907-1507. 2020.
33. Badan Pusat Statistik (BPS). Produksi Manggis Terbesar di Indonesia pada 2022. DataIndonesia.id. 2023.
34. Shafy GM, Mohammed A, Jassim N, Mohammed MT. Study Of Phytochemical, Antioxidant And Anti-Inflammatory Of Mangosteen (*G. Mangostana*) And Its Ability To Wound Healing. Vol. 19. 2019.
35. Wulandari PAC, Ilmi ZN, Husen SA, Winarni D, Alamsjah MA, Awang K, et al. Wound Healing and Antioxidant Evaluations of Alginate from *Sargassum ilicifolium* and Mangosteen Rind Combination Extracts on Diabetic Mice Model. Applied Sciences. 2021 May 19;11(10):4651.
36. Gondokesumo ME. *Garcinia Mangostana* Extract Enhances Skin Epithelialization in Rat Induced Burn Injury. Pak Vet J. 2019 Jul 1;39(03):365–70.
37. Sombolayuk HB, Djawad K, Wahab S, Miskad UA, Alam G, Pattellongi I. Effectivity of topical mangosteen pericarp extract cream on wound healing in Swiss albino mice. Journal of Biological Research - Bollettino della Società Italiana di Biologia Sperimentale. 2019 Aug 2;92(2).
38. Mariyana H, Nazyiah N. Analisis Intervensi Keperawatan dengan Penggunaan Aquacel Ag dan Zinc Cream pada Fase Proliferasi Ulkus Dekubitus pada Pasien Tn.K Dan Tn.M dengan Diagnosa Ca Paru di Rs

- Siloam Semanggi Jakarta Selatan. Jurnal Kreativitas Pengabdian Kepada Masyarakat (PKM). 2023 Mar 1;6(3):1011–26.
39. Abdullazadeh M, Shafiee S. To compare the effect of sea buckthorn and silver sulfadiazine dressing on period of wound healing in patients with second-degree burns: A randomized triple blind clinical trial. *Wound Repair and Regeneration*. 2021 Sep;29(5):732–40.
  40. Guo HF, Mohd Ali R, Abd Hamid R, Chang SK, Rahman MH, Zainal Z, et al. Epidermal Growth Factor and Tocotrienol Rich Fraction Cream Formulation Accelerates Burn Healing Process Based on Its Gene Expression Pattern in Deep Partial-Thickness Burn Wound Model. *Int J Low Extrem Wounds*. 2022 Dec 26;21(4):544–54.
  41. Belitskin D, Pant SM, Munne P, Suleymanova I, Belitskina K, Hongisto H, et al. Hepsin regulates TGF $\beta$  signaling via fibronectin proteolysis. *EMBO Rep.* 2021 Nov 4;22(11).
  42. Schwörer S, Berisa M, Violante S, Qin W, Zhu J, Hendrickson RC, et al. Proline biosynthesis is a vent for TGF $\beta$ -induced mitochondrial redox stress. *EMBO J.* 2020 Apr 15;39(8).
  43. Takahashi K, Akatsu Y, Podyma-Inoue KA, Matsumoto T, Takahashi H, Yoshimatsu Y, et al. Targeting all transforming growth factor- $\beta$  isoforms with an Fc chimeric receptor impairs tumor growth and angiogenesis of oral squamous cell cancer. *Journal of Biological Chemistry*. 2020 Sep;295(36):12559–72.
  44. Kuang L, Zhang C, Li B, Deng H, Chen R, Li G. Human Keratinocyte-Derived Exosomal MALAT1 Promotes Diabetic Wound Healing by Upregulating MFGE8 via microRNA-1914-3p. *Int J Nanomedicine*. 2023 Feb;Volume 18:949–70.
  45. Cheng L, Lei X, Yang Z, Kong Y, Xu P, Peng S, et al. Histatin 1 enhanced the speed and quality of wound healing through regulating the behaviour of fibroblast. *Cell Prolif.* 2021 Aug 13;54(8).
  46. Savari R, Shafiee M, Galehdari H, Kesmati M. Expression of VEGF and TGF- $\beta$  Genes in Skin Wound Healing Process Induced Using Phenytoin in Male Rats. *Jundishapur Journal of Health Sciences*. 2019 Jan 27;In Press(In Press).
  47. Lin JY, Lo KY, Sun YS. A microfluidics based wound healing assay for studying the effects of shear stresses, wound widths, and chemicals on the wound-healing process. *Sci Rep.* 2019 Dec 27;9(1):20016.
  48. hari R, Winarsih S, Ajeng R. D. Potensi Ekstrak Etanol Kulit Buah Pisang (*Musa Acuminata Colla*) Sebagai Obat Luka Bakar Terhadap Tikus Galur Wistar Penderita Diabetes. *JURNAL ILMIAH FARMASI AKADEMI FARMASI JEMBER*. 2022 Dec 20;23–7.
  49. Gareda Airlangga BGA, Fadhila N, Nur Chasanah S. Pengaruh Ekstrak Morinda Citrifolia L. Terhadap Penyembuhan Luka Insisi Penelitian

- Ditinjau Dari Kolagen Pada Tikus Jantan Galur Wistar. *Medicomplementary Journal*. 2021 Dec 31;1(1):1–6.
50. Pollini M, Paladini F. Bioinspired Materials for Wound Healing Application: The Potential of Silk Fibroin. *Materials*. 2020 Jul 29;13(15):3361.
  51. Kumar U, J B J. Segmentation Of Wound By K-Means Clustering And Automatic Prediction Of Healing Time. *ECS Trans*. 2022 Apr 24;107(1):20371–6.
  52. Yu F, Cai JC, Zhu LQ, Sheikhi M, Zeng YH, Guo W, et al. Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. *ACS Appl Mater Interfaces*. 2020 Jun 10;12(23):26258–66.
  53. Raziyeva K, Kim Y, Zharkinbekov Z, Kassymbek K, Jimi S, Saparov A. Immunology of Acute and Chronic Wound Healing. *Biomolecules*. 2021 May 8;11(5):700.
  54. Steiner CA, Karaca Z, Moore BJ, Imshaug MC, Pickens G. Surgeries in Hospital-Based Ambulatory Surgery and Hospital Inpatient Settings, 2014. 2018.
  55. Gupta P, Singh HS, Shukla VK, Nath G, Bhartiya SK. Bacteriophage Therapy of Chronic Nonhealing Wound: Clinical Study. *Int J Low Extrem Wounds*. 2019 Jun 13;18(2):171–5.
  56. Tyavambiza C, Meyer M, Meyer S. Cellular and Molecular Events of Wound Healing and the Potential of Silver Based Nanoformulations as Wound Healing Agents. *Bioengineering*. 2022 Nov 19;9(11):712.
  57. Jameel F, Khan I, Malick TS, Qazi R, Zaidi MB, Salim A, et al. Single dose human perinatal stem cells accelerate healing of cold-induced rat burn wound. *Cell Biochem Funct*. 2024 Apr 12;42(3).
  58. Foncerrada G, Capek KD, Zapata-Sirvent RL. The State of the Art on Burn Wound Healing [Internet]. 2017. Available from: <https://www.researchgate.net/publication/330760953>
  59. Tejiram S, Kavalukas SL, Shupp JW, Barbul A. Wound healing. In: *Wound Healing Biomaterials*. Elsevier; 2016. p. 3–39.
  60. Nguyen TT, Mobashery S, Chang M. Roles of Matrix Metalloproteinases in Cutaneous Wound Healing. In: *Wound Healing - New insights into Ancient Challenges*. InTech; 2016.
  61. Abazari M, Ghaffari A, Rashidzadeh H, Badeleh SM, Maleki Y. A Systematic Review on Classification, Identification, and Healing Process of Burn Wound Healing. *Int J Low Extrem Wounds*. 2022 Mar 11;21(1):18–30.
  62. Aljuanid MA, Qaid HR, Lashari DM, Ridwan RD, Budi HS, Alkadasi BA, et al. Nano-emulsion of mangosteen rind extract in a mucoadhesive patch

- for periodontitis regenerative treatment: An in vivo study. *J Taibah Univ Med Sci.* 2022 Oct;17(5):910–20.
63. Aizat WM, Jamil IN, Ahmad-Hashim FH, Noor NM. Recent updates on metabolite composition and medicinal benefits of mangosteen plant. *PeerJ.* 2019 Jan 31;7:e6324.
  64. Abate M, Pagano C, Masullo M, Citro M, Pisanti S, Piacente S, et al. Mangostanin, a Xanthone Derived from *Garcinia mangostana* Fruit, Exerts Protective and Reparative Effects on Oxidative Damage in Human Keratinocytes. *Pharmaceuticals.* 2022 Jan 11;15(1):84.
  65. Febrina D, Milanda T. Pharmacological activity *garcinia mangostana linn* : a review Pharmacological Activity. 2018; Available from: <https://www.researchgate.net/publication/326402947>
  66. Muchtaridi M, Wijaya CA. Anticancer Potential Of A-Mangostin. *Asian Journal of Pharmaceutical and Clinical Research.* 2017 Dec 1;10(12):440.
  67. Rohman A, Arifah FH, Irnawati I, Alam G, Muchtaridi M, Rafi M. A review on phytochemical constituents, role on metabolic diseases, and toxicological assessments of underutilized part of *Garcinia mangostana* L. fruit. *J Appl Pharm Sci.* 2018;127–46.
  68. Peraturan Menteri Kesehatan Republik Indonesia Nomor 6 Tahun 2016 Tentang Formularium Obat Herbal Asli Indonesia.
  69. Mursyidin DH, Maulana FN. Keragaman dan Kekerabatan Genetik *Garcinia* Berdasarkan Kandungan Senyawa Bioaktif dan Aktivitas Biologisnya: Kajian In Silico. *Ber Biol.* 2020 Dec 17;19(3A).
  70. Solikhati A, Rahmawati RP, Kurnia SD. Analisis Mutu Fisik Granul Ekstrak Kulit Manggis Dengan Metode Granulasi. *Indonesia Jurnal Farmasi.* 2022 Jan 12;7(1):1.
  71. Mierza V SIIM. Studi Literatur : Standarisasi Senyawa Alfa Mangostin. *PharmaCine Journal of Pharmacy, Medical and Health Science [Internet].* 2022 Sep 20;3(2). Available from: <https://jurnal.unsika.ac.id/>
  72. Rubiyanti R, Susilawati Y, Muchtaridi M, Kunci K, buah manggis K, mangostana GL, et al. Potensi Ekonomi Dan Manfaat Kandungan Alfa-Mangostin Serta Gartanin Dalam Kulit Buah Manggis (*Garcinia Mangostana* Linn) Economic And Benefits Potential Alfa-Mangostin Gartanin In Rind Mangosteen (*Garcinia Mangostana* Linn). 2017.
  73. Iryani YD, Astuti IY, Diniatik D. Optimasi Formula Sediaan Losion Tabir Surya dari Ekstrak Etanol Terpurifikasi Kulit Buah Manggis (*Garcinia mangostana* L) Dengan Metode Simplex Lattice Design. *Jurnal Sains Farmasi & Klinis.* 2021 Aug 6;8(2):145.
  74. Solikhati A, Rahmawati RP, Kurnia SD. Analisis Mutu Fisik Granul Ekstrak Kulit Manggis Dengan Metode Granulasi. *Indonesia Jurnal Farmasi.* 2022 Jan 12;7(1):1.

75. Ira A KSIDMD. Mangosteen Skin (*Gracina mangostana* L) as Stem Cell Growth Factor. *Journal of International Dental and Medical Research.* 2018 Nov 8;11(3).
76. Yazarlu O, Iranshahi M, Kashani HRK, Reshadat S, Habtemariam S, Iranshahy M, et al. Perspective on the application of medicinal plants and natural products in wound healing: A mechanistic review. *Pharmacol Res.* 2021 Dec;174:105841.
77. Morguette AEB, Bartolomeu-Gonçalves G, Andriani GM, Bertoncini GES, de Castro IM, de Almeida Spoladori LF, et al. The Antibacterial and Wound Healing Properties of Natural Products: A Review on Plant Species with Therapeutic Potential against *Staphylococcus aureus* Wound Infections. *Plants.* 2023 May 29;12(11):2147.
78. Meridian Bioscience. SensiFAST™ cDNA Synthesis Kit [Internet]. Available from: [www.bioline.com/](http://www.bioline.com/)
79. GENEzol™ Reagent. GENEzol™ Reagent For research use only [Internet]. Available from: [www.geneaid.com](http://www.geneaid.com)
80. Dira D, Yanuarista Y, Afrianti R. Uji Aktivitas Ekstrak Pericarp Kulit Buah Manggis Terpurifikasi Dalam Penyembuhan Luka Eksisi. *Talenta Conference Series: Tropical Medicine (TM).* 2018 Dec 20;1(3):134–8.
81. Nguyen PhuongTM, Nguyen MinhTH, Quach L, Nguyen PhuongTM, Nguyen L, Quyen D. Antibiofilm activity of alpha-mangostin loaded nanoparticles against *Streptococcus mutans*. *Asian Pac J Trop Biomed.* 2020;10(7):325.
82. Sasikala Chinnappan, Venkatalakshmi Ranganathan, Jithendra Panneerselvam, Barani Karikalan, Thivashini vasanthan, Wong Shienrun. Evaluation of wound healing activity of alpha mangostin ointment in rats. *International Journal of Research in Pharmaceutical Sciences.* 2020 Dec 21;11(SPL4):1080–7.
83. Sani KQ, Paulina P, Insyira PK. The Study Utilization of Mangosteen (*Garcinia mangostana* L.) Peel Extract as a Gel-Based Burn Wound Plaster. *Equilibrium Journal of Chemical Engineering.* 2023 Oct 15;7(2):147.
84. Malaha N, Sartika D, Pannywi R, Zaenal Z, Zakiah V. EFEKTIFITAS SEDIAAN BIOSPRAY REVOLUTIK TERHADAP EKSPRESI SITOKIN TRANSFORMING GROWTH FACTOR – B (TGF – B) DALAM PROSES PENYEMBUHAN LUKA. *SAINTEKES: Jurnal Sains, Teknologi Dan Kesehatan.* 2023 Apr 28;2(2):178–85.
85. Xi Loh EY, Fauzi MB, Ng MH, Ng PY, Ng SF, Ariffin H, et al. Cellular and Molecular Interaction of Human Dermal Fibroblasts with Bacterial Nanocellulose Composite Hydrogel for Tissue Regeneration. *ACS Appl Mater Interfaces.* 2018 Nov 21;10(46):39532–43.
86. Bronisz-Budzyńska I, Chwaleńia K, Mucha O, Podkalicka P, Karolina-Bukowska-Strakova, Józkowicz A, et al. miR-146a deficiency does not

- aggravate muscular dystrophy in mdx mice. *Skelet Muscle.* 2019 Dec 14;9(1):22.
87. Komprda T, Sládek Z, Vícenová M, Simonová J, Franke G, Lipový B, et al. Effect of Polymeric Nanoparticles with Entrapped Fish Oil or Mupirocin on Skin Wound Healing Using a Porcine Model. *Int J Mol Sci.* 2022 Jul 11;23(14):7663.
88. Khalaf AA, Hassanen EI, Zaki AR, Tohamy AF, Ibrahim MA. Histopathological, immunohistochemical, and molecular studies for determination of wound age and vitality in rats. *Int Wound J.* 2019 Dec 25;16(6):1416–25.

