

DAFTAR PUSTAKA

1. Weston GK, Chang MW. Disorders of Hyperpigmentation. In: Bologna JL, Schaffer JV, Cerroni L, editors. Dermatology. 5th ed. USA; 2024. p. 1125–54.
2. Liu W, Chen Q, Xia Y. New Mechanistic Insights of Melasma. *Clin Cosmet Investig Dermatol*. 2023;16:429–42.
3. Rodrigues M, Pandya AG. Hypermelanoses. In: Kang S, Amagai M, Bruckner AL, Enk AH, Margolis DJ, McMichael AJ, et al., editors. *Fitzpatrick's Dermatology*, 9e. New York, NY: McGraw-Hill Education; 2019.
4. Yasnova N, Siratit SP, Rahmayunita G, Kekalih A. Efektivitas Krim Asam Traneksamat 3% Dibandingkan Krim Hidrokuinon 4% Sebagai Tata Laksana Melasma Pada Pasien Dengan Tipe Kulit Iii-V: Uji Klinis Acak Terkontrol Tersamar Ganda. Jakarta: Universitas Indonesia; 2023.
5. Artzi O, Horovitz T, Bar-Ilan E, Shehadeh W, Koren A, Zusmanovitch L, et al. The pathogenesis of melasma and implications for treatment. *J Cosmet Dermatol*. 2021;20(12):3432–45.
6. Espósito ACC, Cassiano DP, da Silva CN, Lima PB, Dias JAF, Hassun K, et al. Update on Melasma-Part I: Pathogenesis. *Dermatol Ther*. 2022;12(5):1967–88.
7. Cassiano DP, Espósito ACC, da Silva CN, Lima PB, Dias JAF, Hassun K, et al. Update on Melasma-Part II: Treatment. *Dermatol Ther*. 2022;12(5):1989–2012.
8. Mahajan VK, Patil A, Blicharz L, Kassir M, Konnikov N, Gold MH, et al. Medical therapies for melasma. *J Cosmet Dermatol*. 2022;21(8):3707–28.
9. Jo JY, Chae SJ, Ryu HJ. Update on Melasma Treatments. *Ann Dermatol*. 2024;36(3):125–34.
10. McKesey J, Tovar-Garza A, Pandya AG. Melasma Treatment: An Evidence-Based Review. *Am J Clin Dermatol*. 2020;21(2):173–225.
11. Neagu N, Conforti C, Agozzino M, Marangi GF, Morariu SH, Pellacani G, et al. Melasma treatment: a systematic review. *J Dermatolog Treat*. 2022;33(3):1816–37.
12. Zhou S, Yotsumoto H, Tian Y, Sakamoto K. α -Mangostin suppressed melanogenesis in B16F10 murine melanoma cells through GSK3 β and ERK signaling pathway. *Biochem Biophys Rep*. 2021;26:100949.
13. Widowati W, Ginting CN, Lister INE, Girsang E, Amalia A, Wibowo SHB, et al. Anti-aging effects of mangosteen peel extract and its phytochemical compounds: Antioxidant activity, enzyme inhibition and molecular docking simulation. *Trop Life Sci Res*. 2020;31(3):127–44.
14. Zhou S, Yotsumoto H, Tian Y, Sakamoto K. α -Mangostin suppressed melanogenesis in B16F10 murine melanoma cells through GSK3 β and ERK signaling pathway. *Biochem Biophys Rep*. 2021;26:100949.

15. Chairunisa U, Rustini, Nastiti CMRR, Riswanto FDO, Benson HAE, Lucida H. A Promising Ultra-Small Unilamellar Carrier System for Enhanced Skin Delivery of α -Mangostin as an Anti-Age-Spot Serum. *Pharmaceutics*. 2022;14(12):2741.
16. Fitria L, Gunawan ICP. Analisis Kulit Marmut sebagai Model Hewan dalam Penelitian Dermatologi dan Kedokteran Estetika. *Berkala Ilmiah Biologi*. 2024;15(2):64–74.
17. Choi SY, Kim YC. Whitening Effect of Black Tea Water Extract on Brown Guinea Pig Skin. *Toxicol Res*. 2011;27(3):153–60.
18. Konger RL, Derr-Yellin E, Hojati D, Lutz C, Sundberg JP. Comparison of the acute ultraviolet photoresponse in congenic albino hairless C57BL/6J mice relative to outbred SKH1 hairless mice. *Exp Dermatol*. 2016;25(9):688–93.
19. Chen Y, Vellaichamy G, Schneider S, Kong W, Liu Z. Exposure factors in the occurrence and development of melasma (Review). *Exp Ther Med*. 2024;27(4):219.
20. Sharma AN, Kincaid CM, Mesinkovska NA. The Burden of Melasma: Race, Ethnicity, and Comorbidities. *J Drugs Dermatol*. 2024;23(8):691–3.
21. Basukala M, Jha A, Shrestha R, Poudel S. Effect of Melasma on Quality of Life in Patient with Melasma Using DLQI (Dermatology Life Quality Index): A Cross Sectional Study. *JKISTMC JULY*. 2022;4:24-9.
22. Majid I, Aleem S. Melasma: Update on Epidemiology, Clinical Presentation, Assessment, and Scoring. *J Skin Stem Cell*. 2022;8(4):1-8.
23. Devi AK, Utomo B, Indramaya DM, Listiawan MY, Sawitri, Murtiastutik D, et al. Profile of melasma patients in dermatology and venerology outpatient clinic Dr. Soetomo General Academic Hospital, Surabaya, Indonesia. *Bali Med J*. 2022;11(1):166–73.
24. Oktaviana M, Yenny SW, Raflis Y. Profil Indikator Prognosis Buruk Pada Pasien Melasma Periode Januari 2015-Desember 2017 Di Poliklinik Kulit Dan Kelamin RS Dr. M. Djamil Padang. *Media Dermato-Venereol Indones*. 2019;46(4):175-9.
25. Farina Salim Y, Wydya Yenny S, Lestari S. Insidens Melasma di Poliklinik Kulit dan Kelamin RSUP Dr. M. Djamil Padang tahun 2012-2015. *J Kesehat Andalas*. 2018;7(1):71–3.
26. Espósito ACC, Cassiano DP, da Silva CN, Lima PB, Dias JAF, Hassun K, et al. Update on Melasma—Part I: Pathogenesis. *Dermatol Ther*. 2022;12(5):1967–88.
27. Direktorat Florikultura D, Hortikultura J, Pertanian K. *Buku Lapang Budidaya Manggis*. 2021.
28. Nazre M, Newman MF, Pennington RT, Middleton DJ. Taxonomic revision of *garcinia* section *garcinia* (*Clusiaceae*). *Phytotaxa*. 2018;373(1):1–52.

29. Yoshimura M, Ninomiya K, Tagashira Y, Maejima K, Yoshida T, Amakura Y. Polyphenolic Constituents of the Pericarp of Mangosteen (*Garcinia mangostana L.*). *J Agric Food Chem.* 2015;63(35):7670–4.
30. Tousian Shandiz H, Razavi BM, Hosseinzadeh H. Review of *Garcinia mangostana L.* and its Xanthones in Metabolic Syndrome and Related Complications. *Phytother Res.* 2017;31(8):1173–82.
31. Yang R, Li P, Li N, Zhang Q, Bai X, Wang L, et al. Xanthones from the Pericarp of *Garcinia mangostana*. *Molecules.* 2017;22(5):683.
32. Muzykiewicz A, Zielonka-Brzezicka J, Siemak J, Klimowicz A. Antioxidant activity and polyphenol content in extracts from various parts of fresh and frozen mangosteen. *Acta Sci Pol Technol Aliment.* 2020;19(3):261–70.
33. Setyawati LU, Nurhidayah W, Khairul Ikram NK, Mohd Fuad WE, Muchtaridi M. General toxicity studies of alpha mangostin from *Garcinia mangostana*: A systematic review. *Heliyon.* 2023;9(5):e16045.
34. Ovalle-Magallanes B, Eugenio-Pérez D, Pedraza-Chaverri J. Medicinal properties of mangosteen (*Garcinia mangostana L.*): A comprehensive update. *Food Chem Toxicol.* 2017;109:102–22.
35. Alam M, Rashid S, Fatima K, Adnan M, Shafie A, Akhtar MS, et al. Biochemical features and therapeutic potential of α -Mangostin: Mechanism of action, medicinal values, and health benefits. *Biomed Pharmacother.* 2023;163:114710.
36. Xie Y, Gong C, Xia Y, Zhou Y, Ye T, Mei T, et al. α -Mangostin Suppresses Melanoma Growth, Migration, and Invasion and Potentiates the Anti-tumor Effect of Chemotherapy. *Int J Med Sci.* 2023;20(9):1220–34.
37. Hassan W, Zulkifli R, Basar N, Ahmad F, Yunus M. Antioxidant and tyrosinase inhibition activities of α -mangostin and *Garcinia mangostana Linn.* pericarp extracts. *J Appl Pharm Sci.* 2015;37–40.
38. Dita AA. Pengaruh ekstrak kulit manggis (*Garcinia mangostana L.*) Terpurifikasi terhadap karakteristik nanoemulsi dan uji aktivitas inhibitor tirosinase. Padang: Universitas Andalas; 2020.
39. Yenny SW, Lestari W. Sebuah studi yang membandingkan penggunaan asam kojic 4% dengan krim mulberry untuk pengobatan melasma. *J Kedokt Syiah Kuala.* 2022;22(2):1412–1026.
40. Dian Amelia Abdi, Nasrum Massi, Khairuddin Djawad, Sri Vitayani, Nesyana Nurmadi. Effect of Photoprotective Cream of Mangosteen Pericarp Extract (*Garcinia Mongostana L.*) Against 8-OHDG After UVB Exposure On Albino Mice. *Indian J Forensic Med Toxicol.* 2021;15(2):2240–4.
41. Kesumawardhani B, Mita SR. Pengaruh Penambahan Tween 80 Sebagai Enhancer Dalam Sediaan Transdermal. *Farmaka.* 2016;14(2):112–8.
42. Rowe R, Sheskey P, Owen S. *Handbook of Pharmaceutical Excipients.* 5th ed. Washington DC: Pharmaceutical Press and American Pharmacists Association; 2006.

43. Umate N, Kuchewar V, Parwe S. A narrative review on use of virgin coconut oil in dermatology. *J Indian Syst Med.* 2022;10(2):86–9.
44. Harlisa P, Kariosentono H, Purwanto B, Dirgahayu P, Soetrisno S, Wasita B, et al. The Mangosteen Peel Ethyl Acetate Extract-based Cream Inhibits Ultraviolet-B Radiation-induced Hyperpigmentation in Guinea Pig Skin. *Open Access Maced J Med Sci.* 2022;10(A):1640–8.
45. Im AR, Kim YM, Chin YW, Chae S. Protective effects of compounds from *Garcinia mangostana L.* (mangosteen) against UVB damage in HaCaT cells and hairless mice. *Int J Mol Med.* 2017;40(5):1621–32.
46. Wirdani Fitri E. The Effectiveness of Topical Mangosteen Pericarp Extract on the Collagen of Mice Skin Exposed to Ultraviolet B. *Am J Clin Exp Med.* 2016;4(3):88.
47. Luangpraditkun K, Kasemkiatsakul P, Sangnim T, Yammen S, Pajoubpong J, Vongsak B. Anti-Senescence and Anti-Photoaging Activities of Mangosteen Pericarp Extract on UVA-Induced Fibroblasts. *Cosmetics.* 2025;12(3):108.
48. Widjaja N, Wahab S, Djawad K. Efek Krim Ekstrak *Garcinia Mangostana* Dalam Menurunkan Kadar Malondialdehid (MDA) Pada Inflamasi Kulit Mencit Albino Yang Diinduksi 12-O-Tetradecanolphorbol-13 Acetate (TPA). Makassar: Universitas Hasanuddin; 2021.
49. Wibisono O, Djawad K, Avanti C, Bukhari A. Protective Effect of Mangosteen Pericarp Extract Cream Against UVB-Induced Erythema. *J Clin Aesthet Dermatol.* 2020;13(11):38–41.