

## DAFTAR PUSTAKA

1. Syarif M. Wasitaatmadja. Ilmu penyakit kulit dan kelamin. 6th ed. Balai Penerbit FKUI, editor. Jakarta: Balai Penerbit FKUI; 2011.
2. Mescher A, York N, San C, Athens F, Madrid L, City M. Junqueira's Basic Histology, 15th edition, 2018. 2018.
3. Blume-Peytavi U, Kottner J, Sterry W, Hodin MW, Griffiths TW, Watson REB, et al. Age-associated skin conditions and diseases: Current perspectives and future options. Vol. 56, Gerontologist. Gerontological Society of America; 2016. p. S230–42.
4. Farage MA, Miller KW, Elsner P, Maibach HI, Farage MA. Intrinsic and extrinsic factors in skin ageing: a review.
5. Nurul T, Jacob A, K SKK, Siswati AS, K SKK, Budiyananto A, et al. Pengaruh Sinar Ultra Violet Terhadap Kesehatan Kulit Terhadap Berjemur (Sun Exposures) Kontributor : Satgas Covid-19 Pp Perdoski 2017-2020. 2020.
6. Dayan N. Skin aging handbook : an integrated approach to biochemistry and product development. William Andrew; 2008. 494 p.
7. Djuanda SRS, Novianto E, Boediardja SA, Jusman SWA. Peran Stress Oksidatif pada Penuaan Kulit Secara Intrinsik. Mdv. 2012;39:127–33.
8. Ahmad Z, Damayanti. Penuaan Kulit : Patofisiologi dan Manifestasi Klinis. Berkala Ilmu Kesehatan Kulit dan Kelamin. Periodical of Dermatology and Venereology. 2018;30(03):208–15.
9. Dayan Nava. Skin aging handbook : an integrated approach to biochemistry and product development. William Andrew; 2008. p 494.
10. Taylor SC. Photoaging and pigmentary changes of the skin. Cosmetic Dermatology. 2005;29–51.
11. Makrantonaki E, Zouboulis CC. Characteristics and pathomechanisms of endogenously aged skin. Vol. 214, Dermatology. 2007. p 352–60.
12. Farage MA, Miller KW, Maibach HI. Textbook of aging skin. Textbook of Aging Skin. 2010;1–1220.
13. Davis EC, Callender VD. Postinflammatory Hyperpigmentation A Review of the Epidemiology, Clinical Features, and Treatment Options in Skin of Color. Vol. 3, J Clin Aesthet Dermatol. 2010.
14. Sutantoyo CJ. Karakteristik pasien, gambaran klinis, dan tata laksana melasma di rsup dr. Hasan sadikin bandung periode januari 2014desember 2018. Thesis of Specialist. 2020;1–30.
15. Wolff K, Goldsmith LA, Katz SI, Gilchrest BA, Paller AS, Leffell DJ. Color Atlas and Synopsis of Clinical Dermatology 6th. 2011.
16. Khanna N, Rasool S. Facial melanoses: Indian perspective. Vol. 77, Indian Journal of Dermatology, Venereology and Leprology. 2011. p. 552–64.
17. Moioli EK, Bakus AD, Yaghmai D, Hernandez C. Treatment Strategies for Pigmentation Disorders in Skin of Color. Vol. 24. 2011.
18. Kaufman BP, Aman T, Alexis AF. Postinflammatory Hyperpigmentation: Epidemiology, Clinical Presentation, Pathogenesis and Treatment. Vol. 19,

- American Journal of Clinical Dermatology. Springer International Publishing; 2018. p. 489–503.
19. Rattanawitpong P, Wanitphakdeedecha R, Bumrungpert A, Maiprasert M. Anti-aging and brightening effects of a topical treatment containing vitamin C, vitamin E, and raspberry leaf cell culture extract: A split-face, randomized controlled trial. *Journal of Cosmetic Dermatology*. 2020 Mar 1;19(3):671–6.
  20. Humbert PG, Haftek M, Creidi P, Lapière C, Nusgens B, Richard A, et al. Topical ascorbic acid on photoaged skin. Clinical, topographical and ultrastructural evaluation: Double-blind study vs. placebo. *Experimental Dermatology*. 2003;12(3):237–44.
  21. Gerard JT, Derrickson B. *A principles of anatomy and physiology*. 2016. 1181 p.
  22. Balai Penerbit FKUI. *Ilmu Penyakit Kulit Dan Kelamin*. 7th ed. Menaldi S. W. S. BK, IW, editor. Jakarta: Balai Penerbit FKUI; 2015.
  23. Eroschenko VP. *Di Fiore's Atlas of Histology with Functional Correlations*. 2008.
  24. Mescher AL. *Junqueira's Basic Histology : Text & Atlas*. 15th ed. Vol. 13, Morphologia. 2019. 101–104 p.
  25. John H, Michael H. *Guyton and Hall Textbook of Medical Physiology*. Elsevier. 2020.
  26. Sherwood L. *Fisiologi Manusia dari Sel ke Sistem*. 8th ed. Jakarta: EGC; 2016.
  27. Zonunsanga. Melanocytes and melanogenesis. *Our Dermatology Online*. 2015 Jul 3;6(3).
  28. Suryaningsih BE, Soebono H. *Biologi Melanosit*. Tinjauan Pustaka, MDVI. 2016;43(2):78–82.
  29. Jean L. Bologna, Julie V. Schaffer and LC. *Dermatology*. 4th ed. Jean L Bologna, MD, Jean L. Bologna, Julie V. Schaffer LC, editor. Elsevier; 2018. 2,880.
  30. Moinzadeh P, Denton CP, Black CM, Krieg T. *Fitzpatrick's Dermatology 9th Edition*, Vol. 2. 2019.
  31. Khan A, Travers J, Kemp M. Roles of UVA radiation and DNA damage responses in melanoma pathogenesis: UVA Radiation and DNA Damage in Melanoma Pathogenesis. *Environmental and Molecular Mutagenesis*. 2018 Feb 21;59.
  32. Addor FAS. Antioxidants in dermatology. *Anais Brasileiros de Dermatologia*. 2017;92(3):356–62.
  33. Willis Hughes Lyford, MD; Chief Editor: William D James M. *Melasma*. 2020.
  34. He L, Xu A. Consensus on diagnosis and treatment of melasma in China (2021 version). *Chinese Journal of Dermatology*. 2021;54(2):110–5.
  35. Pennitz A, Kinberger M, Avila Valle G, Passeron T, Nast A, Werner RN. Self- applied topical interventions for melasma: a systematic review and meta- analysis of data from randomized, investigator- blinded clinical trials. *British Journal of Dermatology*. 2022;1–9.

36. Pérez-Bernal A, Muñoz-Pérez M, Camacho F. Management of Facial Hyperpigmentation. *Am J Clin Dermatol*. 2000 Sep 1;1:261–8.
37. Costin GE, Hearing VJ. Human skin pigmentation: melanocytes modulate skin color in response to stress. *The FASEB Journal*. 2007 Apr;21(4):976–94.
38. Surachmiati Suseno L, Bernadette I, Legiawati L. Perkembangan Terbaru Etiopatogenesis Melasma. Vol. 41. 2014. P 133–7.
39. Bandyopadhyay D. Topical treatment of melasma. Vol. 54, *Indian Journal of Dermatology*. 2009. p. 303–9.
40. Cario M. How hormones may modulate human skin pigmentation in melasma: An in vitro perspective. *Experimental Dermatology*. 2019;28(6):709–18.
41. Asditya A, Sukanto H. Studi Retrospektif: Profil Pasien Melasma (Profile of Melasma Patients : A Retrospective Study). *Berkala Ilmu Kesehatan Kulit dan Kelamin. Periodical of Dermatology and Venereology*. 2017;29(3):220–8.
42. Ortonne J, Arellano I, Berneburg M, Cestari T, Chan H, Grimes P, et al. A global survey of the role of ultraviolet radiation and hormonal influences in the development of melasma. *Journal of the European Academy of Dermatology and Venereology*. 2009 Nov;23(11):1254–62.
43. Costin GE, Hearing VJ. Human skin pigmentation: melanocytes modulate skin color in response to stress. *The FASEB Journal*. 2007 Apr;21(4):976–94.
45. Lee AY. Recent progress in melasma pathogenesis. Vol. 28, *Pigment Cell and Melanoma Research*. Blackwell Publishing Ltd; 2015. p. 648–60.
46. Rajanala S, de Castro Maymone MB, Vashi NA. Melasma pathogenesis: A review of the latest research, pathological findings, and investigational therapies. Vol. 25, *Dermatology Online Journal. Dermatology Online Journal*; 2019.
47. Melyawati, Nilasari H, Sirait SP. Korelasi Klinikopatologis pada Kelainan Kulit Hiperpigmentasi. *Media Dermato-Venereologica Indonesiana*. 2014;41(4):170–6.
48. Firas AN. Topical Vitamin C and the Skin : Mechanisms of Action and Clinical Applications. *J Clin Aesthet Dermatol*. 2017;10(7):14–7.
49. Phansuk K, Vachiramorn V, Jurairattanaporn N, Chanprapaph K, Rattananukrom T. Dermal Pathology in Melasma: An Update Review. *Clinical, Cosmetic and Investigational Dermatology*. 2022;15:11–9.
50. Perhimpunan Dokter Spesialis Kulit dan Kelamin. *Panduan Praktik Klinis Bagi Dokter Spesialis Kulit dan Kelamin Indonesia*. Jakarta; 2017.
51. Kumari S, Thng STG, Verma NK, Gautam HK. Melanogenesis inhibitors. *Acta Dermato-Venereologica*. 2018;98(10):924–31.
52. Valeria González Molina, MD; Alicia Martí Pineda, BS; and Noelani González M, Dr. Topical Treatments for Melasma and Their Mechanism of Action. *J Clin Aesthet Dermatol*. 2022;
53. Forbat E, Al-Niaimi F, Ali FR. Use of nicotinamide in dermatology. *Clinical and Experimental Dermatology*. 2017;42(2):137–44.

54. Irfanti RT, Damayanti W, Dewi PF, Oktriana P. Terapi Topikal Kombinasi Krim Asam Traneksamat 3%, Nikotinamid 3% Dan Microneedling Pada Pasien Melasma (Pilot Study). 2021;48(3):154–60.
55. Boo YC. Arbutin as a skin depigmenting agent with antimelanogenic and antioxidant properties. *Antioxidants*. 2021;10(7):1–22.
56. Grimes PE, Ijaz S, Nashawati R, Kwak D. New oral and topical approaches for the treatment of melasma. *International Journal of Women's Dermatology*. 2019;5(1):30–6.
57. Trivedi MK, Yang FC, Cho BK. A review of laser and light therapy in melasma. *International Journal of Women's Dermatology*. 2017;3(1):11–20.
58. Nilendu SSC, Shital AP, Sanjay R, Sendhil K, Balakrishnan N, Joan F, Rashmi S, Prashansa J, Paschal D, Nagaraju DSS, Ailawadi P, Joseph B. Evidence-based Review, Grade of Recommendation, and Suggested Treatment Recommendations for Melasma. *Indian Dermatology Online Journal*. 2017;10(4):481–5.
59. Sanadi R, Deshmukh R. The effect of Vitamin C on melanin pigmentation – A systematic review. *Journal of Oral and Maxillofacial Pathology*. 2020;24(2):374.
60. Telang P. Vitamin C in dermatology. *Indian Dermatology Online Journal*. 2013;4(2):143.
61. Davies MB. *Vitamin C: chemistry and its biochemistry*. 1991.
62. Farris PK. *Topical Vitamin C: A Useful Agent for Treating Photoaging and Other Dermatologic Conditions*. 2005.
63. Caritá AC, Fonseca-Santos B, Shultz JD, Michniak-Kohn B, Chorilli M, Leonardi GR. Vitamin C: One compound, several uses. *Advances for delivery, efficiency and stability. Nanomedicine: Nanotechnology, Biology, and Medicine*. 2020;24:102117.
64. Lin JY, Selim MA, Shea CR, Grichnik JM, Omar MM, Monteiro-Riviere NA, et al. UV photoprotection by combination topical antioxidants vitamin C and vitamin E. *J Am Acad Dermatol*. 2003 Jun 1;48(6):866–74.
65. Fitzpatrick RE, Rostan EF. Double-Blind, Half-Face Study Comparing Topical Vitamin C and Vehicle for Rejuvenation of Photodamage. 2002.
66. Traikovich SS. Use of Topical Ascorbic Acid and Its Effects on Photodamaged Skin Topography. Vol. 125, *Arch Otolaryngol Head Neck Surg*. 1999.
67. Al-Niaimi F, Zhen Chiang NY. Topical Vitamin C and the skin: Mechanisms of action and Clinical applications. *Journal of Clinical and Aesthetic Dermatology*. 2017.
68. Yussif NM. Vitamin C - An Update on Current Uses and Functions. *IntechOpen*. 2018;2:1–28.
69. Lykkesfeldt J, Tveden-Nyborg P. The pharmacokinetics of vitamin C. *Nutrients*. 2019;11(10).
70. Gunawan SG. *Farmakologi Dan Terapi*. 6th ed. Badan Penerbit FKUI. 2016. h.932.
71. Pullar JM, Carr AC, Vissers MCM. The roles of vitamin C in skin health. *Nutrients*. 2017;9(8).

72. Indonesia PKKR. Angka Kecukupan Gizi Yang Dianjurkan Untuk Masyarakat Indonesia Dengan. 2019;8(2):2019. [Dikunjungi 25 April 2022] Tersedia dari: [http://hukor.kemkes.go.id/uploads/produk\\_hukum/PMK\\_No\\_28\\_Th\\_2019\\_ttg\\_Angka\\_Kecukupan\\_Gizi\\_Yang\\_Dianjurkan\\_Untuk\\_Masyarakat\\_Indonesia.pdf](http://hukor.kemkes.go.id/uploads/produk_hukum/PMK_No_28_Th_2019_ttg_Angka_Kecukupan_Gizi_Yang_Dianjurkan_Untuk_Masyarakat_Indonesia.pdf)
73. Setyawati N, Indira I, Puspawati NMD. Insiden dan Profil Melasma di Rumah Sakit Umum Pusat Sanglah Denpasar Periode Januari 2014 sampai Desember 2014. E-Jurnal Medika. 2019;8(2):1–7.
74. Tursina D, Hajar S, Inggriyani CG. Hubungan Derajat Keparahan Melasma dengan Kualitas Hidup pada Pasien Melasma di Praktek Swasta Dokter Spesialis Kulit dan Kelamin Kota Banda Aceh. Jurnal Ilmiah Mahasiswa Medisia. 2017;2(3):18–23.
75. Satish DA, Aparna AD RVK. A Clinico - Epidemiological Study of Melasma in 402 Patients in an Office Based Practice. Clinical Dermatology Review. 2019.
76. Andriani D. Pengaruh Faktor-Faktor Risiko Terhadap Timbulnya Melasma Pada Pekerja Wanita Penyapu Jalan Dinas Lingkungan Hidup Kota Lhokseumawe Tahun 2018. Repositori Institusi Universitas Sumatera Utara (RI-USU). 2018;44–8.

