

DAFTAR PUSTAKA

1. Cestari T, Peruzzo J, Giongo, Natalia. Definition, incidence, and etiology of melasma in brown skin. Dalam: Handog EB, Enriquez-Macarayo MJ, penyunting. Melasma and vitiligo in Brown skin. Edisi ke-1. India: Springer; 2017. h. 13–9.
2. Rodrigues M, Amit G Pandya. Hypermelanosis. Dalam: Kang S, penyunting. Fitzpatrick's Dermatology. 9th ed. New York: McGraw-Hill; 2019. h. 1351–89.
3. Sundara D, Krupashankar R, Kumar V, Malvika S, Jaishree K. A cross-sectional , multicentric clinico-epidemiological study of melasma in India. *Dermatol Ther.* 2014;71–81.
4. Syarif FR. Hubungan kadar hormon triiodothyronine dan thyroid stimulating hormone serum dengan derajat keparahan melasma di rsup dr.m.djamil Padang (Tesis). Padang: Fakultas Kedokteran Universitas Andalas; 2016.
5. Salim YF, Lestari S, Yenny SW. Insidens melasma di poliklinik kulit dan kelamin. 2018;7(Supl 2):71–3.
6. Yenny SW. Clinico-epidemiology features of melasma: a retrospective study from dermatology-venereology departement of education center hospital in west sumatera, indonesia
7. Asditya A, Sukanto H. Profil pasien melasma (profile of melasma patients : a retrospective study). *Berk Ilmu Kesehat Kulit dan Kelamin- periodecal Dermatology Venereol.* 2017; 228-220.
8. Shenoi SD, Davis S V, Rao S, Rao G, Nair S. Dermatoses among paddy field workers-a descriptive, cross-sectional pilot study. *Indian J Dermatol Venereol Leprol.* 2005;71(4):254–8.
9. Wootton C.I. dkk. Assessing skin disease and associated health-related quality of life in a rural Lao community. *BMC Dermatol.* 2018;18(1):1–10.
10. Bommakanti J, Pendyala P. Pattern of skin diseases in rural population: a cross sectional study at Medchal mandal, Rangareddy district, Telangana, India. *Int J Res Med Sci.* 2017;5(1):1–6.
11. Yenny SW, Yaunin Y. Relation analysis between triiodothyronine and thyroid-stimulating hormone in the serum of melasma patients. *Drug Invention Today.* 2019;12(4):711–4.

12. Pichardo R, dkk. The Prevalence of Melasma and Its Association with Quality of Life among Adult Male Migrant Latino Workers. NIH Public Access. 2009;48(1):22–6.
13. 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;2:18–23.
14. Pollo CF, Miot LDB, Meneguín S, Miot HA. dkk. Factors associated with quality of life in facial melasma: a cross-sectional study. Int J Cosmet Sci. 2018;40(3):313–6.
15. Coban M. Quality of Life of the Patients with Melisma. J Cosmetol Trichology. 2018;04(02).
16. Abou-Taleb DAE, Ibrahim AK, Youssef EMK, Moubasher AEA. Reliability, validity, and sensitivity to change overtime of the modified melasma area and severity index score. Dermatologic Surg. 2017;43(2).
17. Miranti A, Anwar AI, Djawad K, Patellongi I, Wahab S, Abdullah N. Analysis Level of Serum Estradiol Hormone of Pregnant Women with Melasma. American Journal of Clinical and 2016;4(2):26–9.
18. Costin GE, Birlea SA. Is there an answer? What is the mechanism for melasma that so commonly accompanies human pregnancy?.IUBMB Life. 2006;58(1):55–7.
19. Filoni A, Mariano M, Cameli N. Melasma: How hormones can modulate skin pigmentation. J Cosmet Dermatol [Internet]. 2019;(October 2018):1–6.
20. Agar N, Young AR. Melanogenesis: a photoprotective response to DNA damage? Mutat Res - Fundam Mol Mech Mutagen. 2005;571(1-2 SPEC. ISS.):121–32.
21. Ghunawat S, Choubey V, Sonthalia S, Garg V, Sarkar R, Kaushik S. Role of oxidative stress in melasma: a prospective study on serum and blood markers of oxidative stress in melasma patients. Int J Dermatol. 2017;56(9):939–43.
22. Rogers LK, Moorthy B. Editorial overview: Oxidative toxicology – Role of Reactive Oxygen Species (ROS) in health and disease: Mechanisms, target organ toxicities, and biomarkers. Curr Opin Toxicol [Internet]. 2018;7(1989):i–iii.
23. Samet JM, Wages PA. Oxidative stress from environmental exposures. Curr Opin Toxicol [Internet]. 2018;7(2017):60–6.

24. Zhang H, Tsao R. Dietary polyphenols, oxidative stress and antioxidant and anti-inflammatory effects. *Curr Opin Food Sci* [Internet]. 2016;8:33–42.
25. Sen S, Chakraborty R, Sridhar C, Reddy YSR, De B. Free radicals, antioxidants, diseases and phytomedicines: Current status and future prospect. *Int J Pharm Sci Rev Res*. 2010;3(1):91–100.
26. Peroxidation L. Oxidative stress and pesticide disease : a challenge for toxicology. 2018;66(2):261–7.
27. Mandal A. Antioxidant Enzyme Systems [Internet]. *NEWS - Medical and Life Sciences*. 2012.p. 1–4
28. Seçkin HY, dkk. Oxidative stress status in patients with melasma. *Cutan Ocul Toxicol*. 2014;33(3):212–7.
29. Kuthial.dkk. Estimation of serum copper , superoxide dismutase and reduced glutathione levels in melasma : a case control study. *International Journal Of Scientific Research*. 2019;(5):25–7.
30. Olatunbosun A, Surajudeen Y, Sheu R, Ayokulehin K. Oxidative stress indices in Nigerian pesticide applicators and farmers occupationally exposed to organophosphate pesticides. *Int J Appl Basic Med Res*. 2014;4(3):37.
31. López O, Hernández AF, Rodrigo L, Gil F, Pena G, Serrano JL, et al. Changes in antioxidant enzymes in humans with long-term exposure to pesticides. *Toxicol Lett*. 2007;171(3):146–53.
32. Kaur R, Thakur O. Diseases caused by pesticide induce oxidative stress-a review. *J ETIR*. 2018;5(8):325–8.
33. Lee KM, Park SY, Lee K, Oh SS, Ko SB. Pesticide metabolite and oxidative stress in male farmers exposed to pesticide. *Ann Occup Environ Med*. 2017;29(1):1–7.
34. Ogut S, Gultekin F, Nesimi Kisioglu A, Kucukoner E. Oxidative stress in the blood of farm workers following intensive pesticide exposure. *Toxicol Ind Health*. 2011;27(9):820–5.
35. Dunaway S, Odin R, Zhou L, Ji L, Zhang Y, Kadekaro AL. Natural antioxidants: Multiple mechanisms to protect skin from solar radiation. *Front Pharmacol*. 2018;9(APR).
36. Kementerian Kesehatan RI. Permenkes RI No 62 Tahun 2017 Tentang Alat Kesehatan, Alat Kesehatan Diagnostik In Vitro dan Pembekalan Kesehatan Rumah Tangga. 2017

37. Samosir K, Setiani O, Nurjazuli N. Hubungan Paparan Pestisida dengan Gangguan Keseimbangan Tubuh Petani Hortikultura di Kecamatan Ngablak Kabupaten Magelang. *J Kesehat Lingkung Indones*. 2017;16(2):63.
38. Hodgson E. *Pesticides Biotransformation (Metabolism) of Pesticides*. Learn more about Metabolism of Pesticides Metabolism of Pesticides.
39. Hodgson E. *Biotransformation (Metabolism) of Pesticides* [Internet]. First Edit. *Pesticide Biotransformation and Disposition*. Elsevier Inc.; 2012. 73–116
40. Hou W, Zhang Q, Dong H, Li F, Zhang Y, Guo Y, et al. Acetylcholinesterase biosensor modified with ATO/OMC for detecting organophosphorus pesticides. *New J Chem*. 2019;43(2):946–52.
41. Abdollahi M, Mostafalou S, Pournourmohammadi S, Shadnia S. Oxidative stress and cholinesterase inhibition in saliva and plasma of rats following subchronic exposure to malathion. *Comp Biochem Physiol - C Toxicol Pharmacol*. 2004;137(1):29–34.
42. I HIA, An S, I RDB. Acute organo-phosphorus pesticide poisoning in North Karnataka , India : oxidative damage , haemoglobin level and total leukocyte. :129–36.
43. Susilowati DA, Widjanarko B, Adi MS. Behavioral of spraying farmer related to serum cholinesterase levels. *J MKMI*. 2017;13(4):289–94.
44. Blanco-Muñoz J, Lacasaña M, López-Flores I, Rodríguez-Barranco M, González-Alzaga B, Bassol S, et al. Association between organochlorine pesticide exposure and thyroid hormones in floriculture workers. *Environ Res* [Internet]. 2016;150:357–63.
45. Marisa M, Arrasyid AS. Pemeriksaan kadar pestisida dalam darah petani bawang merah di nagari alahan panjang. *Sainstek J Sains dan Teknol*. 2018;9(1):14.
46. Dlova NC, Akintilo LO, Taylor SC. Prevalence of pigmentary disorders: A cross-sectional study in public hospitals in Durban, South Africa. *Int J Women's Dermatology* [Internet]. 2019;(xxxx):7–10.
47. Sarkar R, Jagadeesan S, Basavapura Madegowda S, Verma S, Hassan I, Bhat Y, et al. Clinical and epidemiologic features of melasma: a multicentric cross-sectional study from India. *Int J Dermatol*. 2019;1–6.
48. Tzouveka E. *Journal of Pigmentary Disorders Epidemiology and Risk Factors of Melasma*. *J Pigment Disord*. 2014;1–3.

49. Passeron T. Melasma pathogenesis and influencing factors - an overview of the latest research. *J Eur Acad Dermatology Venereol* [Internet]. 2013 Jan [cited 2019 May 14];27:5–6.
50. Sonthalia S. Etiopathogenesis of Melasma. *Melasma A Monogr*. 2015;2(1):6–6.
51. Asditya A, Sukanto H. Studi Retrospektif : Profil Pasien Melasma (Profile of Melasma Patients : A Retrospective Study). *Berk Ilmu Kesehat Kulit dan Kelamin – Period Dermatology Venereol*. 2017;29/No.3/ D:220–8.
52. Suseno LS, Bernadette I, Legiawati L. Perkembangan terbaru etiopatogenesis melasma. *MDVI*.2014;133–8.
53. Pandya AG, Hynan LS, Bhore R, Riley FC, Guevara IL, Grimes P, et al. Reliability assessment and validation of the Melasma Area and Severity Index (MASI) and a new modified MASI scoring method. *J Am Acad Dermatol* [Internet]. 2011;64(1):78-83.e2.
54. Bickers DR, Athar M. Oxidative Stress in the Pathogenesis of Skin Disease. 2006;(December 2005):2565–75.
55. Poprac P, Jomova K, Simunkova M, Kollar V, Rhodes CJ, Valko M. Targeting Free Radicals in Oxidative Stress-Related Human Diseases. *Trends Pharmacol Sci* [Internet]. 2017;38(7):592–607. Available from: <http://dx.doi.org/10.1016/j.tips.2017.04.005>
56. Blokhina O., K.V. F. Oxidative metabolism, ROS and NO under oxygen deprivation. *Plant Physiol Biochem*. 2006;8: 359-73.
57. Esti. *Introduksi Reaksi Sel Terhadap Jejas*. In: *Buku Ajar Patologi I (Umum)*. Jakarta; 2012.
58. Li C, Zhou H-M. The Role of Manganese Superoxide Dismutase in Inflammation Defense. *Enzyme Res*. 2011;2011:1–6.
59. Andarina R, Djauhari T. Antioksidan dalam dermatologi. *Jkk*. 2017;4(1):39–48.
60. McCord, JM; Fridovich I. Superoxide Dismutase. *J Biol Chem*. 1969;244(25):6049–55.
61. Scandalios JG. SODs.pdf. 1983;(1 993).
62. Kwon MJ, Kim BH, Lee YS, Kim TY. Role of superoxide dismutase 3 in skin inflammation. *J Dermatol Sci* [Internet]. 2012;67(2):81–7.

63. Birben E, Sahiner UM, Sackesen C, Erzurum S, Kalayci O. Oxidative Stress and Antioxidant Defense. 2012;(January):9–19.
64. Ighodaro OM, Akinloye OA. First line defence antioxidants-superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GPX): Their fundamental role in the entire antioxidant defence grid. Alexandria J Med [Internet]. 2018;54(4):287–93.
65. Le Quéré S, Lacan D, Lemaire B, Carillon J, Schmitt K. The role of superoxide dismutase (SOD) in skin disorders A review. Nutrafoods. 2014;13–27
66. Kim K, Kabir E, Ara S. Science of the Total Environment Exposure to pesticides and the associated human health effects. Sci Total Environ [Internet]. 2016;  UNIVERSITAS ANDALAS
67. Hasibuan R. Insektisida organik sintetik dan biorasional. Yogyakarta: Plantaxia; 2015. p.65–110
68. Djojsumarto P. Pestisida pertanian. In: Agromedia, editor. Pestisida dan aplikasinya. 1st ed. Jakarta; 2008. p. 1–340.
69. Hodgson E. Metabolism of Pesticides [Internet]. Third Edit. Vol. Volume 1, Hayes' Handbook of Pesticide Toxicology. Elsevier Inc.; 2010. 893–921 p. Available from: <http://dx.doi.org/10.1016/B978-0-12-374367-1.00038-0>
70. García GAE, Silva EME. Absorption. Food Eng Handb Food Eng Fundam. 2014;309–41.
71. Hodgson E. Introduction to Biotransformation (Metabolism). Hayes' Handb Pestic Toxicol. 2010;865–75.
72. Hodgson E. Biotransformation of Individual Pesticides: Some Examples [Internet]. First Edit. Vol. 1, Pesticide Biotransformation and Disposition. Elsevier Inc.; 2012. 195–208 p.
73. Kaur R. Metabolism of pesticides by human Cytocrome P450 (CYPs). 2018;(August).
74. Hodgson E. Metabolic Interactions of Pesticides [Internet]. First Edit. Hayes' Handbook of Pesticide Toxicology. Elsevier Inc.; 2010. 941–959 p.
75. Rustia HN, Wispriyono B, Susanna D, et al. Lama Paparan Organofosfat Terhadap Penurunan Aktivitas Enzim Kolinesterasi Dalam Darah Petani Sayuran. Makara Kesehat. 2010;14(2):95–101.

76. Komunikasi I, Dan O, Kerja K, Bott R. Data dan Informasi. Igarss 2014. 2014;(X):1–5.
77. Osang AR, Lampus BS, Wuntu AD. Hubungan antara Masa Kerja dan Arah Angin dengan Kadar Kolinesterase Darah pada Petani Padi Pengguna Pestisida di Desa Pangian Tengah Kecamatan Passi Timur Kabupaten Bolaang Mongondow. *Pharmacon*. 2016;5(2):151–7.
78. Yuniastuti A, Istianah. Hubungan Masa Kerja , Lama Menyemprot , Jenis Pestisida , Penggunaan APD dan Pengelolaan Pestisida dengan Kejadian Keracunan Pada Petani di Brebes. *Public Heal Perspect J*. 2017;2(2):117–23.
79. Prasetya E, Arif A, Enggarwati. Kadar kolinesterase pada petani penyemprot relationship factors of pesticide exposure on cholinesterase level at spraying tobacco farmers in karangjati village , Ngawi District. 2010;
80. P. R, K J. Clinico pathological effects of pesticides exposure on farm workers. 2012;5536(1):46–8.
81. Prijanto TB. Analisis Faktor Risiko Keracunan Pestisida Organofosfat pada keluarga Petani Hortikultura Kab. Magelang. *J Kesehat Masy*. 2009;8(1):62–8.
82. Maranata R, Cahaya I. the Behaviour of Farmer Using Pesticides Having Personal. Perilaku petani dalam Pengguna pestisida dan alat pelindung diri serta keluhan Kesehat petani di desa suka julu Kec barus jahe kabupaten karo tahun 2014. 2014;2014:1–7.
83. As'ady BA, Supangat S, Indreswari L. Analysis of Personal Protective Equipments Pesticides Usage Effects on Health Complaints of Farmers in Pringgondani Village Sumberjambe District Jember Regency. *J Agromedicine Med Sci*. 2019;5(1):31.
84. Suparti S, Anies, Setiani O. Beberapa faktor risiko yang berpengaruh terhadap kejadian keracunan pestisida pada petani. *J Pena Med ISSN 2086-843X Vol 6*, No 2. 2016;6(2):125–38.
85. Isnawan RM. Faktor-Faktor Yang Berhubungan Dengan Kejadian Keracunan Pestisida Pada Petani Bawang Merah Di Desa Kedunguter Kecamatan Brebes Kabupaten Brebes. *J Kesehat Masy*. 2013;2(1):1–11.
86. Kurniasih SA, Setiani O, Nugraheni SA. Faktor-faktor yang Terkait Paparan Pestisida dan Hubungannya dengan Kejadian Anemia pada Petani Hortikultura di Desa Gombong Kecamatan Belik Kabupaten Pemalang Jawa Tengah In Gombo. *J Kesehat Lingkung Indones*. 2013;12(2):132–7.

87. Ranga AA, Supit S, Engka JN. Kadar Hemoglobin Pada Petani Terpapar Pestisida Di Kelurahan Rurukan Kecamatan Tomohon Timur. *E Biomedik*. 2013;12(1):1–7.
88. Apriyana Irjayanti MI. Related Factors To the Subjective Pesticide Poisoning Incident Occurs To Rice Farmers in District Merauke Village Candrajaya Year 2017. 2017;21(1).
89. Pengembangan T, Universitas J, Board E, Dental OF, Majalah J, Gigi K. Universitas airangga. 2017;(031):1–6.
90. Addor FAS. Antioxidants in dermatology. *An Bras Dermatol*. 2017;92(3):356–62.
91. Sen S, Chakraborty R, Sridhar C, Reddy YSR, De B. Free Radicals , Antioxidants , Diseases and Phytomedicines : 2010;3(1):91–100.
92. Pichardo R, Vallejos Q, Feldman SR, Schulz MR, Verma A, Quandt SA, et al. The prevalence of melasma and its association with quality of life in adult male Latino migrant workers. *Int J Dermatol*. 2009;48(1):22–6.
93. Handel AC, Miot LDB, Miot HA. Melasma: A clinical and epidemiological review. *An Bras Dermatol*. 2014;89(5):771–82.
94. Rosalina. Hubungan Kadar Superoxidedismutase Plasma dengan Derajat Keparahan Melasma (Tesis). fakultas Kedokteran Universitas Sumatera Utara. Medan. 2020.
95. Khatu SS, Hospital G. A Clinico-Epidemiological Study of Melasma in Pune Patients *Journal of Pigmentary Disorders* A Clinico-Epidemiological Study of Melasma in Pune Patients. 2016;(October).
96. Guinot C, Cheffai S, Latreille J, Dhaoui MA, Youssef S, Jaber K, et al. Aggravating factors for melasma : a prospective study in 197 Tunisian patients. 2010;1060–9.
97. Segar BS. Kadar Superoksida Dismutase pada Melasma. Melasma (Tesis). Fakultas Kedokteran Universitas Gajah Mada. Yogyakarta. 2017.
98. Nojima M, Sakauchi F, Mori M, Tamakoshi A, Ito Y, Watanabe Y, et al. Relationship of Serum Superoxide Dismutase Activity and Lifestyle in Healthy Japanese Adults. 2009;10:37–40.
99. Huang MC, Chen CH, Peng FC, Tang SH, Chen CC. Alterations in Oxidative Stress Status During Early Alcohol Withdrawal in Alcoholic Patients. *J Formos Med Assoc [Internet]*. 2009;108(7):560–9.

100. Wilson BW. Cholinesterases. Hayes' Handb Pestic Toxicol. 2010;1457–78.
101. Mangas I, Estévez J, Vilanova E. Esterases hydrolyze phenyl valerate activity as targets of organophosphorus compounds. *Chem Biol Interact.* 2016;259:358–67.
102. Marisa M, Arrasyid AS. Pemeriksaan Kadar Pestisida Dalam Darah Petani Bawang Merah Di Nagari Alahan Panjang. *Sainstek J Sains dan Teknol.* 2018;9(1):14.
103. Hundekari IA, Suryakar AN, Rathi DB. Acute organo-phosphorus pesticide poisoning in North Karnataka, India: Oxidative damage, haemoglobin level and total leukocyte. *Afr Health Sci.* 2013;13(1):129–36.
104. Faculty M, Uyanikoglu H, Aksoy M. Quality of life in patients with melasma in Turkish women. 2017;9:10–3.
105. Coban M. Quality of Life of the Patients with Melisma. *J Cosmetol Trichology.* 2018;04(02):2–5.
106. Harumi O, Goh CL. The effect of melasma on the quality of life in a sample of women living in Singapore. *J Clin Aesthet Dermatol.* 2016;9(1).

