

## DAFTAR PUSTAKA

1. Narendhirakannan RT, Hannah MAC. Oxidative Stress and Skin Cancer: An Overview. *Ind J Clin Biochem* 2013; 28;(2):110–115.
2. Pilger A, Rüdiger HW. 8-Hydroxy-2'-deoxyguanosine as a marker of oxidative DNA damage related to occupational and environmental exposures. *Int Arch Occup Environ Health*. 2006;80:1-15.
3. Marrot L, Meunier JR. Skin DNA photodamage and its biological consequences. *J Am Acad Dermatol*. 2008;58:139-48.
4. Mustikaningsih R, Wirohardidjojo Y, Radiono S. Hubungan antara pigmentasi cepat dengan kemampuan pemulihan DNA oksidatif; kajian pada pelajar SD yang berolahraga di bawah terik matahari. *B.I.Ked*. 2005;37:74-79.
5. Aida SD. Epidemiologi kanker kulit. *PERDOSKI*. 2011;33:61-62.
6. U.S. Cancer Statistics Working Group. United States Cancer Statistics: 1999-2014 Incidence and Mortality Web-based Report. Atlanta (GA): Department of Health and Human Services, Centre for Disease Control and Prevention, and National Cancer Institute; 2017. <http://www.cdc.gov/uscs> — diakses 10 Oktober 2017.
7. Azamris. Kanker Kulit di Bangsal Bedah RS Dr. M. Djamil Padang Januari 2002 - Maret 2007. *CDK*. 2011; 38(2): 109-110.
8. Beehler BC, Przybyszewski J, Box HB, Kulesz MF. Formation of 8-hydroxydeoxyguanosine within DNA of mouse keratinocytes exposed in culture to UVB and H<sub>2</sub>O<sub>2</sub>. *Carcinogenesis*. 1992;13:2003-7.
9. Valavanidis A, Vlahogianni T, Fiotakis C. 8-Hydroxy-2'-deoxyguanosine (8-OHdG): a critical biomarker of oxidative stress and carcinogenesis. *J Environ Sci Health C Environ Carcinog Exotoxicol Rev*. 2009;27:120-39.

10. Matsumoto Y, Ogawa Y, Yoshida R, Shimamori A, Kasai H, Ohta H. The stability of the oxidative stress marker, urinary 8-hydroxy-2'-deoxyguanosine (8-OHdG), when stored at room temperature. *J Occup Health*. 2008;50:366–72.
11. Fisher GJ, Sewon K, Varani J, Bata-Csorgo Z, Wan Y, Datta S, et al. Mechanisms of photoaging and chronological skin aging. *Arch Dermatol*. 2002;138(11):1462-1470.
12. Kato M, Iida M, Goto Y, Kondo T, Yajima I. Sunlight exposure-mediated DNA damage in young adults. *Cancer Epidemiology Biomarkers and Prevention*. 2011;20(8):1622–1628.
13. WHO (2007). Global Solar UV Index, A Practical Guide. <http://www.who.int/uv/publications/en/UVIGuide.pdf> – Diakses 8 Oktober 2017.
14. D’Orazio J, Jarrett S, Amaro-Ortiz A, Scott T. UV radiation and the skin. *Int J Mol Sci*. 2013;14(6): 12222–12248.
15. W Eko Cahyono. Dampak peningkatan radiasi ultraviolet B terhadap manusia. *Berita Dirgantara*. 2006;7(1):22-26.
16. Saipul H. Mengenal lama penyinaran matahari sebagai salah satu parameter klimatologi. *Berita Dirgantara*. 2014;15(1):7-15.
17. McKenzie RL, Aucamp PJ, Bais AF, Björn LO, Ilyas M, Madronich S. Ozone depletion and climate change: impacts on UV radiation. *Photochem Photobiol Sci*. 2011;10:182-198.
18. WHO (2003). The global UV project, a guide and compendium. <http://www.who.int/uv/publications/en/Intersunguide.pdf> – Diakses 6 Desember 2017.
19. Fioletov V, Kerr JB, Fergusson A. The UV index: definition, distribution, and factors affecting it. *C J Public Health*. 2010;1(4):15-9.

20. International Agency for Research of Cancer (2006). IARC working group reports- exposure of artificial UV radiation and skin cancer. <https://www.iarc.fr/en/publications/pdfsonline/wrk/wrk1/ArtificialUVRad&SkinCancer.pdf>– Diakses 12 Desember 2017.
21. Pérez-Ferriols A. The minimal erythema dose (MED) project: in search of consensus on phototesting. *Actas Dermosifiliogr.* 2003;104(7):541-2.
22. Krzyścin JW, Eerme K, Janouch M. Long-term variations of the UV-B radiation over Central Europe derived from reconstructed UV time series. *Ann Geophys.* 2004;22:1473-85.
23. Chang, Y. *et al.* Sun exposure and melanoma risk at different latitudes: a pooled analysis of 5700 cases and 7216 controls. *Int J Epidemiol.* 2009;38(3):814-830.
24. Lee JY, Choi JW. Estimation of regional body surface area covered by clothing. *J Hum Environ Syst.* 2009;12(1);35-45.
25. Slominski AT, Zmijewski MA, Skobowiat C, Zbytek B, Slominski RM, Steketee JD. Sensing the environment: Regulation of local and global homeostasis by the skin's neuroendocrine system. *Adv Anat Embryol Cell Biol.* 2012;212:v-115.
26. Kumar A, Pant MC, Singh HS, Khandelwal S. Assessment of the redox profile and oxidative DNA damage (8-OHdG) in squamous cell carcinoma of head and neck. *J Cancer Res Ther.* 2012;8(2):254-259.
27. Afaq FV, Adhami M, Mukhtar H. Photochemoprevention of ultraviolet B signaling and photocarcinogenesis. *Mutat Res.* 2005;571:153-73.
28. Brenner M, Hearing VJ. The Protective Role of Melanin Against UV Damage in Human Skin. *Photocem Photobiol.* 2008;84:539-549.
29. Jablonski NG, Chaplin G. Human skin pigmentation as an adaptation to UV radiation. *Proc Natl Acad Sci.* 2010;107(2):8962-8968.

30. Holick, Michael F. Biological effects of sunlight, ultraviolet radiation, visible light, infrared radiation and vitamin D for health. *Anticancer Res.* 2016;36(3):1345-1356.
31. Zanetti R, Prota A, Napolitano, Martinez C, Sancho-Garnier H, Osterlind A, Sacerdote C, Rosso S. Development of an integrated method of skin phenotype measurement using the melanins. *Melanoma Res.* 2001;11:551-557.
32. Wu LL, Chiou CC, Chang PY, Wu JT. Urinary 8-OHdG: A marker of oxidative stress to DNA and a risk factor for cancer, atherosclerosis and diabetes. *Clin Cim Acta.* 2004;339:1-9.
33. Eun-su H, Phyllis EB. DNA damage, a biomarker of carcinogenesis: it's measurement and modulation by diet and environment. *Crit Rev Food Sci.* 2007;47(1):27-50.
34. Halliday GM, Rana S. Waveband and dose dependency of sunlight-induced immunomodulation and cellular changes. *Photochem Photobiol.* 2008;84:35-46.
35. Bickers DR, Athar M. Oxidative stress in the pathogenesis of skin disease. *J Invest Dermatol.* 2006;126:2565-75.
36. Harri M, Svoboda P, Mori T, Mutanen P, Kasai H, Savela K. Analysis of 8- hydroxydeoxyguanosine among workers exposed to diesel particulate exhaust: comparison with urinary metabolites and PAH air monitoring. *Free Radical Res.* 2005;39:963-972.
37. Subash P, Gurumurthy P, Sarasabharathi A, Cherian KM. Urinary 8-OHdG: A marker of oxidative stress to DNA and total antioxidant status in essential hypertension with south indian population. *Indian J Clin Biochem.* 2010;25(2):127-132.
38. Herzog B, Wehrie M, Quass K. Photostability of UV absorber system in sunscreens. *Photochem Photobiol.* 2009;85:869-878.

39. Panich U, Sittithumcharee G, Rathviboon N, Jirawatnotai S. Ultraviolet radiation-induced skin aging: the role of DNA damage and oxidative stress in epidermal stem cell damage mediated skin aging. *Stem Cells Int.* 2016;2016:1-14
40. Klaunig JE, Kamendulis LM, Hocevar BA. Oxidative stress and oxidative damage in carcinogenesis. *Toxicol Pathol.* 2010;38:96-109.
41. Yamaguchi Y, Itami S, H. Watabe K, Yasumoto Z, Abdel-Malek A, Kubo T, Rouzaud F, Tanemura A, Yoshikawa K, Hearing VJ. Mesenchymal–epithelial interactions in the skin: Increased expression of dickkopf by palmoplantar fibroblasts inhibits melanocyte growth and differentiation. *J. Cell Biol.* 2004;165:275-285.
42. Ito S, Wakamatsu K. Quantitative analysis of eumelanin and pheomelanin in humans, mice, and other animals: A comparative review. *Pigment Cell Res.* 2003;16:523-531.
43. Kvam E, Dahle J. Melanin synthesis may sensitize melanocytes to oxidative DNA damage by ultraviolet a radiation and protect melanocytes from direct DNA damage by ultraviolet B radiation. *Pigment Cell Res.* 2004;17:549–550.
44. Hill HZ, Hill GJ. UVA, pheomelanin and the carcinogenesis of melanoma. *Pigment Cell Res.* 2000;13(Suppl. 8):140-144.
45. Takeuchi S, Zhang W, Wakamatsu K, Ito S, Hearing VJ, Kraemer KH, Brash DE. Melanin acts as a potent UVB photosensitizer to cause an atypical mode of cell death in murine skin. *Proc Natl Acad Sci.* 2004;101:15076-15081.
46. Antony R.Y. Chromophores in human skin. *Phys Med Biol.* 1997;42(5):789-802.

47. Nikitaki Z, Hellweg CE, Georgakilas GA, Ravanat J. Stress-induced DNA damage biomarkers: applications and limitations. *Front Chem.* 2015;3:1-15.
48. Proksch E, Brandner JM, Jensen J. The skin: an indispensable barrier. *Exp Dermatol.* 2008;17(12):1063-1072.
49. James WD, Berger TG, Elston DM. *Andrews diseases of the skin: Clinical dermatology*. Philadelphia: Elsevier Saunders. 2006. 10.
50. Betteridge DJ. What is oxidative stress. *Metabolism*. 2000;49:3-8.
51. Bickers DR, Athar M. Oxidative stress in the pathogenesis of skin disease. *J Invest Dermatol.* 2006;126:2565-75.
52. Maejima Y, Zablocki D, Sadoshima J. Oxidative stress and cardiac muscle. *Fundamental Biology and Mechanisms of Disease*. 2012;1:309-322.
53. Drugosz A, Merlino G, Yuspa S. Progress in cutaneous cancer research. *J Invest Dermatol.* 2002;7:17-26.
54. Lwanga SK. Lemeshow S. Sample size determination in health studies. England: WHO; 1991.
55. Meeker JD, Hu H, Cantonwine DE, et al. Urinary phthalate metabolites in relation to preterm birth in Mexico city. *Environ Health Persp.* 2009;117:1587-1592.
56. Human 8-Hydroxydeoxyguanosine (8-OHdG) ELISA Kit. Elabscience. Catalog Number E-EL-0028.
57. Indraprasta S, Zulkarnain I, Ervinanti E. Peningkatan kadar 8-hydroxydeoxyguanosine (8-OHdG) urine pada pasien dermatitis atopik anak. *Berkala Ilmu Kesehatan Kulit dan Kelamin*. 2016;28(3).

58. Iida T, Inoue K, Ito Y, Ishikawa H, Kagiono M, Teradaira R, *et al.* Comparison of urinary levels of 8-hydroxy-2'-deoxyguanosine between young females with and without depressive symptoms during different menstrual phases. *Acta Med Okayama*. 2015;69(1):45-50.
59. Thomson C, Giuliano A, Shaw J, Rock C, Ritenbaugh C, Hakim I, *et al.* Diet and biomarkers of oxidative damage in women previously treated for breast cancer. *Nutr Cancer*. 2005;51(2):146-154.
60. Boonla C, Wunsuwan R, Tungsanga K, Tosukhowong P. Urinary 8-hydroxydeoxyguanosine is elevated in patients with nephrolithiasis. *Urol Res*. 2007;35(4):185-191.
61. Chiou C, Chang P, Chan E, Wu T, Tsao K, Wu J. Urinary 8-hydroxydeoxyguanosine and its analogs as DNA marker of oxidative stress: development of an ELISA and measurement in both bladder and prostate cancers. *Clin Chim Acta*. 2003;334(1-2):87-94.
62. Fitria, Triandhini R, Mangimbulude JC, Karwur FF. Merokok dan oksidasi DNA. *Sains Medika*. 2013;5(2):113-120.
63. Steinberg ML, Hubbard K, Utti C, Clas B, Hwang BJ, Hill HZ, Orlow I. Patterns of persistent DNA damage associated with sun-exposure and the glutathione S-transferase M1 genotype in melanoma patients. *Photochem Photobiol*. 2009;85:379-386.