

DAFTAR PUSTAKA

1. Hidayat AAA, Uliyah M. Pengantar kebutuhan dasar manusia. Jakarta : Salemba medika. 2005; 2: 2-5.
2. Dorland WAN. Dorlands illustrated medical dictionary. Philadelphia, PA: Saunders/Elsevier; 2012:921
3. Andriani A, Prijanti AR, Mudjihartini N, Jusman SWA. Dampak Hipoksia Sistemik terhadap Malondialdehida, Glial Fibrillary Acidic Protein dan Aktivitas Asetilkolin Esterase Otak Tikus. *J. Ked. Ind.* 2016; 4(2): 56-64
4. Mulyadi. Hipoksia Pada Sirkulasi Pulmonal. *J. Ked Sy.* 2007;7 (2);3-7
5. Tortora GJ, Derrickson B. Principles of anatomy & physiology. Danvers, MA: Wiley Custom Learning Solutions; 2017: 2: 25-33
6. Varna R, Varghese NO, Varughese JM, Reinforcement of Root Canal with Thin Dentinal Wall Using Flowable Composite and Fibre Posts, *kdj*, 2010; 33(2) ; 8-45.
7. Ashtiani FAJ, Kadir A, Nasehi SRH, Rahaghi H, Sajili H. Effect of silicon on rice blast disease. *Pertanika J. Trop. Agric. Sci.* 2012; 35(2): 1-12.
8. Wolfensohn S, Lloyd M. Handbook of laboratory animal management and welfare. 4th ed. Oxford: Wiley-Blackwell; 2013: 234.
9. Sugiyanto. Peran glutation sebagai master antioksidan. *Biomedis.* 2008;1(1):48-53.
10. Wu G, Fang Y-Z, Yang S, Lupton JR, Turner ND. Glutathione Metabolism and Its Implications for Health. *The Journal of Nutrition.* 2004;134(3): 489–492.
11. Pompella A, Visvikis A, Paolicchi A, De Tata V, Casini AF. The changing faces of glutathione, a cellular protagonist. *Biochem Pharmacol.* 2003; 66(8) 1499–1503.
12. Oja SS, Janaky R, Varga V, Saranasaari P. Modulation of glutamate receptor functions by glutathione. *Neurochem Int.* 200; 37:299–306.
13. Rosa SD, Zaretsky M, Dubs J, Roederer M, Anderson M, Green A, et al. N-acetylcysteine replenishes glutathione in HIV infection. *Eur J Clin Invest.* 2000;30(10):915–29.
14. Zhang H, Forman HJ, Choi J. Peptidase in glutathione biosynthesis. *Methods Enzymol.* 2005; 401:468-483.
15. Sies H. Strategies of Antioxidant Defense: Relations to Oxidative Stress. *Biochem pharmacol.* 1995; 2: 165–186.
16. Snyder LR, Kirkland JJ, Dolan JW. Introduction to modern liquid chromatography. 2nd ed. Hoboken: J. Wiley; 2010: 358-425.
17. Jayaprakasam B, Vareed SK, Olson LK, Nair MG. Insulin Secretion by Bioactive Anthocyanins and Anthocyanidins Present in Fruits. *J Agric and Food Chem.* 2005;53(1):28–31.
18. Tobyn G, Denham A, Whitelegg M. *Rubus idaeus*, raspberry. *Medical Herbs.* 2011; 271–282.
19. Czech A, Rusinek E, Merska M. Content of selected bio-elements in berry fruit and juices. In *Problemy Higieny Epidemiologi.* 2011; 92(4): 836-839

20. Cieřlik E, Gręda A, Adamus W. Contents of polyphenols in fruit and vegetables. In Food Chem. 2006; 94:135–142.
21. Szajdek A, Borowska J. Antioxidant properties of plant-based food products. In Żywność Nauka Technologia Jakość. 2004; 44(4): 36-39.
22. Kerksick C, Willoughby D. The antioxidant role of glutathione and N-acetylcysteine supplements and exercise-induced oxidative stress. J Int Soc Sports Nut. 2005; 2(2):38-44.
23. Sımonarson B. Glutathione Peroxidase, Selenium and Vitamin E in Defense Against Reactive Oxygen Species. Nat Chem Biol. 1988; 2: 15–36.
24. Kumar V, Cotran RS, Robbins SL. Buku ajar patologi. 2007: EGC: Ed 7; 825-860.
25. Elizabeth J, Corwin. Buku Saku Patofisiologi Corwin. 2009; 2(1): 435-463.
26. Silbernagl S. Jantung dan Sirkulasi. 2007: EGC; 218-236.
27. Matos DD, Furnus C. The importance of having high glutathione (GSH) level after bovine in vitro maturation on embryo development. Effect of β -mercaptoethanol, cysteine and cystine. Theriogenology. 2000;53(3):761–71.
28. Sherwood L. Fisiologi Manusia dari Sel ke Sistem: EGC. Ed 6; 2012: 708-710.
29. Guyton AC, Hall JE. Buku Ajar Fisiologi Kedokteran: EGC. Ed 11; 2008: 882-892.
30. Gospodaryov D, Lushchak V. Oxidative Stress: Cause and Consequence of Diseases. Oxid Med Cell Longev. 2012; 2: 28-42.
31. Birben E, Sahiner UM, Sackesen C, Erzurum S dan Kalayci, O. Oxidative Stress and Antioxidant Defense. World Allergy Organ J. 2012; 5(1): 9– 19.
32. Sengupta S. The Laboratory Rat. Int J Prev Med. 2013; 4(6): 624–630.
33. Brower M, Grace M, Kotz CM, Koya V. Comparative analysis of growth characteristics of Sprague Dawley rats obtained from different sources. Lab Anim Res. 2015; 31(4): 73-80.
34. Bakar MFA, Ismail NA, Isha A, Ling ALM. Phytochemical Composition and Biological Activities of Selected Wild Berries (*Rubus L*, *R fraxinifolius* Poir, *R alpestris* Blume). Evidence-Based Complementary and Alternative Medicine. 2016; 4: 1–10.
35. Laroze L, Zúñiga ME, Soto C. Raspberry phenolic antioxidants extraction. Journal of Biotechnology. 2008;136.
36. Jackson SJ, Andrews N, Ball D, Bellantuono I. Anatomy And Embryology. The Netter Collection of Medical Illustrations: Respiratory System. 2011; 30(3): 1–45.
37. Hemwimol SP, Pavasant, Shotipruk A. Ultrasonic Sonochemistry. 2006; 13: 543
38. Keil FJ. Modeling of Process Intensification. In Alupului, A., Ioan Calinescu and Vasile. 2007; 5(2); 24-35.
39. Hilda, Amanda. Ekstraksi dan karakterisasi senyawa antosianin dari buah rasberi. Jurnal Konversi. 2015;4(2):9.

40. Bakar M, Ismail N, Isha A, Ling ALM. Phytochemical Composition and Biological Activities of Selected Wild Berries. Evidence-Based Complementary and Alternative Medicine. 2016;16:1-10
41. Ferlemi AV, Lamari FN. Berry leaves: an alternative source of bioactive natural products of nutritional and medicinal value. Antioxidants (Basel). 2016; 5(2): 17.
42. Kedare SB, Singh RP. Genesis and development of DPPH method of antioxidant assay. J Food Sci Technol. 2011; 48(4): 412-22.
43. Buricova L, Andjelkovic M, Cermakova A, Reblova Z, Jurcek O, Kolehmainen E, et al. Antioxidant capacity and antioxidants of strawberry, blackberry, and raspberry leaves. Czech J Food Sci. 2011; 29(2): 181-9.
44. Zahoor M, Zafar R, Rahman NU. Isolation and identification of phenolic antioxidants from *Pistacia integerrima* gall and their anticholine esterase activities. Heliyon. 2018; 4(12):1007.
45. Basu P, Maier C. In vitro antioxidant activities and polyphenol contents of seven commercially available fruits. Pharmacognosy Res. 2016; 8(4): 258-64.
46. Wang SY, Lin HS. Antioxidant activity in fruits and leaves of blackberry, raspberry, and strawberry varies with cultivar and developmental stage. J Agric Food Chem. 2000; 48(2): 140-6.
47. Ali N, Shaoib M, Shah SWA, Shah I, Shuaib M. Pharmacological profile of the aerial parts of *Rubus ulmifolius* Schott. BMC Complement Altern Med. 2017; 17: 59.
48. Wu C. An important player in brine shrimp lethality bioassay: The solvent. J Adv Pharm Technol Res. 2014; 5(1): 57-8.
49. Karchesy YM, Kelsey RG, Constantine G, Karchesy JJ. Biological screening of selected Pacific Northwest forest plants using the brine shrimp (*Artemia salina*) toxicity bioassay. Springerplus. 2016; 5: 510.
50. Hamidi MR, Jovanova B, Panovska TK. Toxicological evaluation of the plant products using Brine Shrimp (*Artemia salina* L.) model. Macedonian pharmaceutical bulletin. 2014; 60(1): 9-18.
51. Gueroui M, Kechrid Z. Evaluation of Some Biochemical Parameters and Brain Oxidative Stress in Experimental Rats Exposed Chronically to Silver Nitrate and the Protective Role of Vitamin E and Selenium. Toxicol Res. 2016; 32(4): 301-9.
52. Tualeka AR, Martiana T, Ahsan A, Russeng SS, Meidikayanti W. Association between malondialdehyde and glutathione (L-gamma-Glutamyl-Cysteinyl-Glycine/GSH) levels on workers exposed to benzene in Indonesia). Open Access Maced J Med Sci. 2019 15; 7(7): 1198-202.
53. Sarada SK, Sairam M, Dipti P, Anju B, Pauline T, Kain AK, et al. Role of selenium in reducing hypoxia-induced oxidative stress: an in vivo study. Biomed Pharmacother. 2002; 56(4): 173-8.
54. Poluektov YM, Petrushanko IY, Undrovins NA, Lakunina VA, Khapchaev

- AY, Kapelko VI, et al. Glutathione-related substances maintain cardiomyocyte contractile function in hypoxic conditions. *Sci Rep.* 2019; 9: 4872.
55. Mansfield KD, Simon MC, Keith B. Hypoxic reduction in cellular glutathione levels requires mitochondrial reactive oxygen species. *J Appl Physiol* (1985). 2004; 97(4): 1358-66.
56. Damy T, Kirsch M, Khouzami L, Caramelle P, Le Corvoisier P, Roudot-Thoraval F, et al. Glutathione deficiency in cardiac patients is related to the functional status and structural cardiac abnormalities. *PLoS One.* 2009; 4(3): 4871.
57. Wang C, Yue F, Kuang S. Muscle histology characterization using H&E staining and muscle fiber type classification using immunofluorescence staining. *Bio Protoc.* 2017; 7(10): 2279.
58. X Long, Lakatta EG, Crow MT. P53 and The Hypoxia-Induced Apoptosis of Cultured Neonatal Rat Cardiac Myocytes. *JCI.* 1997;99(11):2635-43
59. Nakano M, Knowlton AA, Dibbs Z, Mann DL. Tumor Necrosis Factor- α Confers Resistance to Hypoxic Injury in the Adult Mammalian Cardiac Myocyte. *Aha Journals.* 1998;97(14):1392-1400
60. Khurana S, Venkataraman K, Hollingsworth A, Piche M, Tai TC. Polyphenols: benefits to the cardiovascular system in health and in aging. *Nutrients.* 2013; 5(10): 3779-827.