DAFTAR PUSTAKA

1. World Health Organisation. World Heart Day 2017. (cited 2018 Sep 27). Available from: http://www.who.int/cardiovascular_diseases/world-heart-day-2017/en/
2. Münzel T, Gori T, Keaney JF, Maack C, Daiber A. Pathophysiological role of oxidative stress in systolic and diastolic heart failure and its therapeutic implications. Eur Heart J. 2015;36(38):2555–64.
3. Tsutsui H, Kinugawa S, Matsushima S. Oxidative stress and heart failure. American Journal of Physiology-Heart and Circulatory Physiology. 2011 Dec;301(6):2181–90.
4. Widayati E. Oksidasi Biologi, Radikal Bebas, dan Antioxidant. Majalah Ilmiah Sultan Agung. 2018;50(128):26–32.
5. Naifeh J, Varacallo M. Biochemistry, aerobic glycolysis. In: Statpearls, editor. Treasure Island: Statpearls. 2018. p1-3
6. Zainuri M, Rif'ati L. Kajian peran *manganese-containing superoxide dismutase* (MnSOD) dalam regulasi ekspresi *hypoxia inducible factor-1α* (HIF-1α) pada keadaan hipoksia. Media Penelitian dan Pengembangan Kesehatan. 2014;23(4):143–8.
7. Kuo C-Y, Chiu Y-C, Lee AY-L, Hwang T-L. Mitochondrial lon protease controls ROS-dependent apoptosis in cardiomyocyte under hypoxia. Mitochondrion. 2015;23:7–16.
8. Balasaheb Nimse S, Pal D. Free radicals, natural antioxidants, and their reaction mechanisms. RSC Advances. 2015;5(35):27986–8006.
9. Caldas APS, Coelho OGL, Bressan J. Cranberry antioxidant power on oxidative stress, inflammation and mitochondrial damage. International Journal of Food Properties. 2018;21(1):582–92.
10. Blumberg JB, Camesano TA, Cassidy A, Kris-Etherton P, Howell A, Manach C, et al. Cranberries and their bioactive constituents in human health12. Adv Nutr. 2013;4(6):618–32.
11. Goodsell D. Superoxide dismutase. RCSB: PDB-101. (Updated October 2007 cited 2018 Nov 23). Available from: http://pdb101.rcsb.org/motm/94
12. Kohen R, Nyska A. Invited Review: Oxidation of biological systems: oxidative stress phenomena, antioxidants, redox reactions, and methods for their quantification. toxicologic pathology. 2002;30(6):620–50.
13. Stevenson MJ, Heffern MC. Sounding out dysfunctional oxygen metabolism: a small-molecule probe for photoacoustic imaging of hypoxia. Biochemistry. 2018;57(6):893–4.
14. Movafagh S, Crook S, Vo K. Regulation of hypoxia-inducible factor-1a by reactive oxygen species : new developments in an old debate: regulation of hypoxia-inducible factor-1a. Journal of Cellular Biochemistry. 2015;116(5):696–703.
15. Semenza GL. Oxygen sensing, hypoxia-inducible factors, and disease pathophysiology. Annu Rev Pathol Mech Dis. 2014;9(1):47–71.
16. Bandyopadhyay U, Das D, Banerjee RK. Reactive oxygen species: oxidative damage and pathogenesis. Current Science. 1999;77(5):9.

17. Mach WJ, Thimmesch AR, Pierce JT, Pierce JD. Consequences of hyperoxia and the toxicity of oxygen in the lung. Nursing Research and Practice. 2011;2011:1–7.
18. Pham-Huy LA, He H, Pham-Huy C. Free radicals, antioxidants in disease and health. Int J Biomed Sci. 2008;4(2):89–96.
19. Bayr H. Reactive oxygen species: critical care medicine. 2005 Dec;33(Suppl):S498–501.
20. Cichoż-Lach H. Oxidative stress as a crucial factor in liver diseases. World Journal of Gastroenterology. 2014;20(25):8082.
21. Sugamura K, Keaney, JF. Reactive oxygen species in cardiovascular disease. Free Radical Biology and Medicine. 2011;51(5):978–92.
22. Devasagayam TPA, Tilak JC, Boloor KK, Sane KS, Ghaskadbi SS, Lele RD. Free radicals and antioxidants in human health: current status and future prospects. J Assoc Physicians India. 2004;52:794–804.
23. 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 Journal of Medicine. 2018;54(4):287–93.
24. Pisoschi AM, Pop A. The role of antioxidants in the chemistry of oxidative stress: a review. European Journal of Medicinal Chemistry. 2015;97:55–74.
25. Halliwell B, M.C. Gutteridge J. Free radicals in biology and medicine. 5th ed. New York: Oxford University Press; 2015. 199–203, 545 p.
26. Che M, Wang R, Li X, Wang H-Y, Zheng XFS. Expanding roles of superoxide dismutases in cell regulation and cancer. Drug Discovery Today. 2016;21(1):143–9.
27. Zalukhu ML, Phyma AR, Pinzon RT. Proses menua, stres oksidatif, dan peran antioksidan. 2016;43(10):4.
28. Rahal A, Kumar A, Singh V, Yadav B, Tiwari R, Chakraborty S, et al. Oxidative stress, prooxidants, and antioxidants: the interplay. BioMed Research International. 2014:1–19.
29. Zhang H, Tsao R. Dietary polyphenols, oxidative stress and antioxidant and anti-inflammatory effects. Current Opinion in Food Science. 2016;8:33–42.
30. Sherwood L. Human Physiology : From cells to systems. 8th ed. Belmont, CA: Brooks/Cole, Cengage Learning; 2013.
31. Ayoub KF, Pothineni NVK, Rutland J, Ding Z, Mehta JL. Immunity, inflammation, and oxidative stress in heart failure: emerging molecular targets. Cardiovasc Drugs Ther. 2017;31(5):593–608.
32. Chistiakov DA, Shkurat TP, Melnichenko AA, Grechko AV, Orekhov AN. The role of mitochondrial dysfunction in cardiovascular disease: a brief review. Annals of Medicine. 2018;50(2):121–7.
33. Okonko DO, Shah AM. Mitochondrial dysfunction and oxidative stress in CHF: Heart failure. Nature Reviews Cardiology. 2015;12(1):6–8.
34. Kurian GA, Rajagopal R, Vedantham S, Rajesh M. The role of oxidative stress in myocardial ischemia and reperfusion injury and remodeling: revisited. Oxidative Medicine and Cellular Longevity. 2016:1–14.
35. Martín MA, Ramos S, Mateos R, Marais JPJ, Bravo-Clemente L, Khoo C, et al. Chemical characterization and chemo-protective activity of cranberry

phenolic powders in a model cell culture. Food Research International. 2015;71:68–82.
36. Stefan B. Vaccinium macrocarpon (Cranberry) NPIN. (Updated November 2013 cited 2018 Nov 26). Available from: https://www.wildflower.org/plants/result.php?id_plant=VAMA
37. Federer WT. Experimental Design: Theory and Application. 1st ed. New York: Macmillan; 1955
38. Harborne JB. Methods of Plant Analysis. In: Harborne JB, editor. Phytochemical methods: a guide to modern techniques of plant analysis. Dordrecht: Springer Netherlands; 1984 (cited 2018 Dec 12). p. 1–36. Available from: https://doi.org/10.1007/978-94-009-5570-7_1
39. Blois MS. Antioxidant determinations by the use of a stable free radical. Nature. 1958;181:1199.
40. Singleton VL, Rossi JA. Colorimetry of total phenolics with phosphomolybdic-phosphotungstic acid reagents. *American Journal of Enology and Viticulture*. 1965;16(3):144–58.
41. Patel RK, Patel JB, Trivedi PD. Spectrophotometric method for the estimation of total alkaloids in the *tinospora cordifolia m.* and its herbal formulations. 7(10):3.
42. Meyer B, Ferrigni N, Putnam J, Jacobsen L, Nichols D, McLaughlin J. Brine shrimp: a convenient general bioassay for active plant constituents. Planta Medica. 1982;45(05):31–4.
43. Cote J, Caillet S, Doyon G, Sylvain J-F, Lacroix M. Bioactive compounds in cranberries and their biological properties. Critical Reviews in Food Science and Nutrition. 2010;50(7):666–79.
44. Stintzing FC, Carle R. Functional properties of anthocyanins and betalains in plants, food, and in human nutrition. Trends in Food Science & Technology. 2004;15(1):19–38.
45. Reed J. Cranberry flavonoids, atherosclerosis and cardiovascular health. Critical Reviews in Food Science and Nutrition. 2002;42(3):301–16.
46. Barbehenn RV, Peter Constabel C. Tannins in plant–herbivore interactions. Phytochemistry. 2011;72(13):1551–65.
47. Bishayee A, Ahmed S, Brankov N, Perloff M. Triterpenoids as potential agents for the chemoprevention and therapy of breast cancer. Front Biosci. 2011;16:980–96.
48. Vattem DA, Lin Y-T, Ghaedian R, Shetty K. Cranberry synergies for dietary management of Helicobacter pylori infections. Process Biochemistry. 2005;40(5):1583–92.
49. Chukwuebuka E, Chinenye IJ. Biological functions and anti-nutritional effects of phytochemicals in living system. :10.
50. Mustarichie R, Moektiwardoyo M, Ramdhani D. Analysis total flavonoid calculated as genistein, antioxidant activity and anti-inflammatory properties of cranberry plant ethanol extract. World Journal of Pharmacy and Pharmaceutical Sciences. 3(10):18.
51. Tristantini D, Ismawati A, Pradana BT, Gabriel J. Pengujian aktivitas antioksidan menggunakan metode dpph pada daun tanjung (mimusops elengi l). Pengembangan Teknologi Kimia untuk Pengolahan Sumber Daya Alam Indonesia. 2016;7.

52. Kalın P, Gülçin İ, Gören AC. Antioxidant activity and polyphenol content of cranberries. 2015:8.
53. Fajobi OA, Fasakin OW, Oyedapo OO. Phytochemicals, antioxidant potentials and 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging activity of Piper guineense (Schumach Thonn) seed. African Journal of Plant Science. 2017;11(4):99–104.
54. Kylli P, Nohynek L, Puupponen-Pimiä R, Westerlund-Wikström B, Leppänen T, Welling J, et al. Lingonberry (*vaccinium vitis-idaea*) and european cranberry (*vaccinium microcarpon*) proanthocyanidins: isolation, identification, and bioactivities. J Agric Food Chem. 2011;59(7):3373–84.
55. Jurikova T, Skrovankova S, Mlcek J, Balla S, Snopek L. Bioactive compounds, antioxidant activity, and biological effects of european cranberry (vaccinium oxycoccos). Molecules. 2018 Dec 21 [cited 2019 Jun 28];24(1). Available from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6337168/
56. Khan S, Neelam A, Bokhari T, Kausar R, U Kazmi S. Medicinal value of vaccinium macrocarpon (cranberry): a mini review. 2014;3.
57. Oratmangun SA. Uji toksisitas ekstrak tanaman patah tulang (euphorbia tirucalli l.) terhadap artemia salina dengan metode *brine shrimp lethality test* (bslt) sebagai studi pendahuluan. 2014;3(3):9.
58. Hung M-W, Kravtsov GM, Lau C-F, Poon AM-S, Tipoe GL, Fung M-L. Melatonin ameliorates endothelial dysfunction, vascular inflammation, and systemic hypertension in rats with chronic intermittent hypoxia. Journal of Pineal Research. 2013;55(3):247–56. 58.
59. Bresciani G, da Cruz IBM, Gonzalez-Gallego J. Manganese superoxide dismutase and oxidative stress modulation. In: Advances in Clinical Chemistry. Elsevier; 2015 [cited 2019 July 3]. p. 87–130. Available from: https://linkinghub.elsevier.com/retrieve/pii/S0065242314000109
60. Dong JW, Zhu HF, Zhu WZ, Ding HL, Ma TM, Zhou ZN. Intermittent hypoxia attenuates ischemia/reperfusion induced apoptosis in cardiac myocytes via regulating Bcl-2/Bax expression. Cell Research. 2003;13(5):385–91.
61. Wang Z, Si L-Y. Hypoxia-inducible factor-1α and vascular endothelial growth factor in the cardioprotective effects of intermittent hypoxia in rats. Upsala Journal of Medical Sciences. 2013;118(2):65–74.
62. Avlas O, Srara S, Shainberg A, Aravot D, Hochhauser E. Silencing cardiomyocyte TLR4 reduces injury following hypoxia. Experimental Cell Research. 2016;348(2):115–22.
63. Neto CC. Cranberry and blueberry: Evidence for protective effects against cancer and vascular diseases. Molecular Nutrition and Food Research. 2007;51(6):652–64.