

## DAFTAR PUSTAKA

1. WHO. (2017). *Cardiovascular diseases (CVDs)*. [https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds)). Diakses pada Februari 2020.
2. Benjamin, E. *et al.* Heart Disease and Stroke Statistics-2019 Update: A Report From the American Heart Association. *Circulation*. 2019;Jan 31.
3. Riset Kesehatan Dasar (Riskesdas) (2013). Badan Penelitian dan Pengembangan Kesehatan Kementerian RI tahun 2013. <http://kesga.kemkes.go.id/images/pedoman/Data%20Riskesdas%202013.pdf>. Diakses pada Februari 2020.
4. Lim, S., Després, J.P., & Koh, K.K. Prevention of atherosclerosis in overweight/obese patients. - In need of novel multi-targeted approaches. *Circulation journal : official journal of the Japanese Circulation Society*. 2011; 75: 1019-27.
5. Libby, P., Buring, J.E., Badimon, L., Hansson, G.K., Deanfield, J., Bittencourt M.S., *et al.* Atherosclerosis. *Nat Rev Dis Primers*. 2019; 5: 56.
6. Libby P, Lichtman, A.H., & Hansson, G.K. Immune effector mechanisms implicated in atherosclerosis: from mice to humans. *Immunity*. 2013; 38:1092-1104.
7. Ragbir, S., & Farmer, J.A. Dysfunctional High-Density Lipoprotein and Atherosclerosis. *Curr Atheroscler Rep*. 2010; 12: 343-348.
8. Nimkuntod, P., & Tongdee, P. Plasma Low-Density Lipoprotein Cholesterol/High-Density Lipoprotein Cholesterol Concentration Ratio and Early Marker of Carotid Artery Atherosclerosis. *Journal of the Medical Association of Thailand = Chotmaihet Thangphaet*. 2015; 4: S58-63.
9. Bauera, M., Caviezelb, S., Teynorb, A., Erbela, R., Mahabadia A.A., & Trucksäss A.S. Carotid intima-media thickness as a biomarker of subclinical atherosclerosis. *Swiss Medical Weekly*. 2012; 142: w13705.
10. Katakami, N., Kaneto, H., & Shimomura, I. Carotid ultrasonography: A potent tool for better clinical practice in diagnosis of atherosclerosis in diabetic patients. *Journal of diabetes investigation*. 2014; 5(1): 3-13.
11. Nezu, T., Hosomi, N., Aoki, S., & Matsumoto, M. Carotid Intima-Media Thickness for Atherosclerosis. *J Atheroscler Thromb*. 2016; 23: 18-31.
12. Finken, M.J.J., Inderson, A., Van Montfoort, N., Keijzer-veen, M.G., Van Weert, A.W.M., Arfil, N.C., *et al.* Lipid Profile and Carotid Intima-Media Thickness in a Prospective Cohort of Very Preterm Subjects at Age 19 Years: Effects of Early Growth and Current Body Composition. *Pediatr Res*. 2006; 59: 604-609.
13. Giannini, C., Diesse, L., D'Adamo, E., Chiavaroli, V., de Giorgis, T., Di Iorio, C., *et al.* Influence of the Mediterranean diet on carotid intima-media thickness in hypercholesterolaemic children: A 12-month intervention study. *Nutrition, Metabolism & Cardiovascular Diseases*. 2014; 24: 75-82.
14. Kaunang, D., Pali, D., dan Manoppo, J.I. Hubungan antara Profil Lipid, ketebalan Tunika Intima Media Arteri Karotis dan masa Ventrikel Kiri pada Remaja Obes. *Sari pediatri*. 2015; 16: 319-324.
15. Ford, E.S. C-Reactive Protein Concentration and Cardiovascular Disease

- Risk Factors in Children. *Circulation*. 2003; 108 (9): 1053-58.
16. Gimbrone, M.A., & Cardeña, G.G. Endothelial Cell Dysfunction and the Pathobiology of Atherosclerosis. *Circ res*. 2017; 118 (4): 620-636.
  17. Mundi, S., Massaro, M., Scoditti, E., Carluccio, M.A., van Hinsbergh, V.W., Iruela-Arispe, M.L., *et al*. Endothelial permeability, LDL deposition, and cardiovascular risk factors—a review. *Cardiovascular Research*. 2018; 114 (1): 35-52.
  18. Sitia, S., Tomasoni, L., Atzeni, F., Ambrosio, G., Cordiano, C., Catapano, A., *et al*. From endothelial dysfunction to atherosclerosis. *Autoimmunity Reviews*. 2010; 9(12): 830-34.
  19. Shrikhande, G.V., & McKinsey, J.F. *Diabetes and Peripheral Vascular Disease*. Springer. New York. 2012.
  20. Rafieian-Kopaei, M., Setorki, M., Douadi, M., Baradaran, A., & Nasri, H. Atherosclerosis: process, indicators, risk factors and new hopes. *Int J Prev Med*. 2014; 5(8): 927-46
  21. Tavafi, M. Complexity of diabetic nephropathy pathogenesis and design of investigations. *J Renal Inj Prev*. 2013; 2(2) :59-62.
  22. Salvayre, R., Negre-Salvayre, A., & Camaré, C. Oxidative theory of atherosclerosis and antioxidants. *Biochimie*. 2016; 125:281-96.
  23. Nayer, A., & Asif, A. Idiopathic membranous nephropathy and anti-phospholipase A2 receptor antibodies. *J Nephropathol*. 2013; 2(4): 214-216.
  24. dos Santos, M.G., Pegoraro, M., Sandrini, F., & Macuco, E.C. Risk Factors for the Development of Atherosclerosis in Childhood and Adolescence. *Arq Bras Cardiol*. 2008. 90(4): 276-83.
  25. Juonala, M., Viikari, J.S., & Raitakari, O.T. Main findings from the prospective Cardiovascular Risk in Young Finns Study. *Curr Opin Lipidol*. 2013; 24: 57-64.
  26. Schnetler, R., Gillan, W.D., & Koorsen, G. (2013). Lipid composition of human meibum. *African Vis. Eye Heal*. 2013; 72: 86-93.
  27. Bhagavan, N.V., & Ha C-E. Lipids I: Fatty Acids and Eicosanoids. In: *Essentials of Medical Biochemistry*. 2nd Edition. Honolulu: Academic Press; 2015. p. 269-97.
  28. Lecerf, J.M., & De Lorgeril, M. Dietary cholesterol: From physiology to cardiovascular risk. *Br. J. Nutr*. 2011; 106: 6-14.
  29. Kruit, J.K., Plösch, T., Havinga, R., Boverhof, R., Groot, P.H., Groen, A.K., *et al*. Increased fecal neutral sterol loss upon liver X receptor activation is independent of biliary sterol secretion in mice. *Gastroenterology*. 2005; 128(1): 147-56.
  30. Kunnen, S., & Eck, M. Van. Lecithin : cholesterol acyltransferase : old friend or foe in atherosclerosis ? 2012; 53: 1783-1799.
  31. Marques, L.R., Diniz, T.A., Antunes, B.M., Rossi, F.E., Caperuto, E.C., Lira, F.S., *et al*. Reverse Cholesterol Transport: Molecular Mechanisms and the Non-medical Approach to Enhance HDL Cholesterol. *Front Physiol*. 2018; 9: 526.
  32. Tomkin, G.H., & Owens, D. The Chylomicron: Relationship to Atherosclerosis. 2012; 1-13.
  33. Helkin, A., Stein, J.J., Lin, S., Siddiqui, S., Maier, K.G., & Gahtan, V.

- Dyslipidemia Part 1--Review of Lipid Metabolism and Vascular Cell Physiology. *Vasc Endovascular Surg.* 2016; 50(2): 107-18.
34. Li, B., Li, W., Li, X., & Zhou, H. Inflammation: A Novel Therapeutic Target/Direction in Atherosclerosis. *Curr. Pharm.* 2017; 23:1216–1227.
  35. Ivanova, E.A., Myasoedova, V.A., Melnichenko, A.A., Grechko, A.V & Orekhov, A. N. Review Article Small Dense Low-Density Lipoprotein as Biomarker for Atherosclerotic Diseases. *Oxid Med Cell Longev.* 2017; 1273042.
  36. S, R.R., Brewer, H.B., Ansell, B.J., Barter, P., Chapman, M.J., Heinecke, J.W., *et al.* Dysfunctional HDL and atherosclerotic cardiovascular disease. *Nat Rev Cardiol.* 2016; 13(1): 48-60.
  37. Vergès, B. Pathophysiology of diabetic dyslipidaemia: where are we? *Diabetologia.* 2015; 58(5): 886–899.
  38. Uche, E., Adediran, A., Damulak, O., Adeyemo, T., Akinbami, A., & Akanmu, A. Lipid profile of regular blood donors. *J Blood Med.* 2013; 4: 39-42.
  39. Chen, H., Miao, H., Feng, Y.L., Zhao, Y.Y., & Lin, R.C. Metabolomics in dyslipidemia. 2014; vol 66. p. 101-119
  40. National Cholesterol Education Program. (20010. *ATP III Guidelines At-A-Glance Quick Desk Reference.* <https://www.nhlbi.nih.gov/files/docs/guidelines/atglance.pdf>. Diakses pada Februari 2020.
  41. Pöss, J., Custodis, F., Werner, C., Weingärtner, O., Böhm, M., & Laufs, U. Cardiovascular disease and dyslipidemia: beyond LDL. *Curr Pharm Des.* 2011; 17(9): 861-70.
  42. Rye, K.A., & Barter, P.J. Cardioprotective functions of HDLs. *J Lipid Res.* 2014; 55(2): 168-79
  43. Zhou, X., Caligiuri, G., Hamsten, A., Lefvert, A.K., & Hansson, G.K. LDL Immunization Induces T-Cell-Dependent Antibody Formation and Protection Against Atherosclerosis. *American Heart Association.* 2001; 21(1): 108-14.
  44. Ference, B.A., Ginsberg, H.N., Graham, I., Ray, K.K., Packard, C.J., Bruckert, E., *et al.* Low-density lipoproteins cause atherosclerotic cardiovascular disease. 1. Evidence from genetic, epidemiologic, and clinical studies. A consensus statement from the European Atherosclerosis Society Consensus Panel. *Eur Heart J.* 2017; 38(32): 2459-2472.
  45. Goldstein, J.L., & Brown, M.S. A century of cholesterol and coronaries: from plaques to genes to statins. *Cell.* 2015; 161(1): 161-72.
  46. Nordestgaard, B.G., Chapman, M.J., Humphries, S.E., Ginsberg, H.N., Masana, L., Descamps, O.S., *et al.* Familial hypercholesterolaemia is underdiagnosed and undertreated in the general population: guidance for clinicians to prevent coronary heart disease: consensus statement of the European Atherosclerosis Society. *Eur Heart J.* 2013; 34(45): 3478-90a.
  47. Cohen, J. C., Boerwinkle, E., & Mosley, T. H. Sequence Variations in PCSK9, Low LDL, and Protection against Coronary Heart Disease. *N Engl J Med.* 2006; 354(12): 1264-72.
  48. Øyegarden, H. Carotid Intima-Media Thickness and Prediction of Cardiovascular Disease. *J Am Heart Assoc.* 2017; 6(1): e005313.



49. Centuri3n, O.A. Carotid Intima-Media Thickness as a Cardiovascular Risk Factor and Imaging Pathway of Atherosclerosis. *Crit Pathw Cardiol.* 2016; 15(4): 152-60.
50. Oren, A., Vos, L.E., Uiterwaal, C.S.P.M., Grobbee, D.E., & Bots, M.L. Cardiovascular risk factors and increased carotid intima-media thickness in healthy young adults: The atherosclerosis risk in young adults (ARYA) study. *Arch. Intern. Med.* 2003; 163: 1787-92.
51. Eikendal, A.L., Groenewegen, K.A., Bots, M.L., Peters, S.A., M. C. S., Uiterwaal, et al. Relation Between Adolescent Cardiovascular Risk Factors and Carotid Intima-Media Echogenicity in Healthy Young Adults: The Atherosclerosis Risk in Young Adults (ARYA) Study. *J. Am. Heart Assoc.* 2016; 5: e002941.
52. Juonala, M., Viikari, J.S., Laitinen, T., Marniemi, J., Helenius, H., R3nnemaa, T., et al. Interrelations Between Brachial Endothelial Function and Carotid Intima-Media Thickness in Young Adults. *Circulation.* 2004; 110: 2918–23.
53. Ilmiawati, C., Reza, M., Yanni, M., & Rusdji, D.A. Blood Cd Levels and Carotid Intima-Media Thickness in Young Adults Living in Padang, Indonesia. *BMC Res Notes.* 2020; 13:202.
54. Polak, J.F., Person, S.D., Wei, G.S., Godreau, A., Jacobs Jr, D.R., Harrington, A., et al. Segment-Specific Associations of Carotid Intima-Media Thickness With Cardiovascular Risk Factors. The Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Stroke.* 2009; 41: 9-15.
55. Mirza, W., Arain, M., Ali, A., Bari, V., Kazim, M., Fatima, K., et al. Carotid intima media thickness evaluation by ultrasound comparison amongst healthy, diabetic and hypertensive Pakistani patients. *J Pak Med Assoc.* 2016; 66(11): 1396-400.
56. Hong, E.G., Ohn, J.H., Lee, S.J., Kwon, H.S., Kim, S.G., Kim, D.J., et al. Clinical implications of carotid artery intima media thickness assessment on cardiovascular risk stratification in hyperlipidemic Korean adults with diabetes: The ALTO study. *BMC Cardiovasc. Disord.* 2015; 15: 1-8.
57. Libby, P. Inflammation in atherosclerosis. *Arterioscler, Thromb, Vasc Biol.* 2012; 32: 2045-51.
58. Sasaki, S., & Inoguchi, T. The role of oxidative stress in the pathogenesis of diabetic vascular complications. *Diabetes Metab J.* 2012; 36: 255–61.
59. Polak, J.F., Johnson, C., Harrington, A., Wong, Q., O'Leary, D.H., Burke, G., et al. Changes in carotid intima-media thickness during the cardiac cycle: the multi-ethnic study of atherosclerosis. *J Am Heart Assoc.* 2012; 1(4):e001420.
60. Deere, B., Griswold, M., Lirette, S., Fox, E., & Sims, M. Life Course Socioeconomic Position and Subclinical Disease: The Jackson Heart Study. *Ethn Dis.* 2016; 26(3): 355-362.
61. Yang, C., Sun, Z., Li, Y. Ai, J., Sun, Q., & Tia, Y. The correlation between serum lipid profile with carotid intima-media thickness and plaque. *BMC Cardiovasc Disord.* 2014; 14: 181.
62. Katakami, N., Kaneto, H., Osonoi, T., Saitou, M., Takahara, M., fumie, S., et al. Usefulness of lipoprotein ratios in assessing carotid atherosclerosis in

- Japanese type 2 diabetic patients. *Atherosclerosis*. 2011; 214: 442-447.
63. Naqvi, T.Z. Carotid Intima-Media Thickness and Plaque in Cardiovascular Risk Assessment. *JACC: Cardiovascular Imaging*. 2014; 7(10): 1025-1038.
  64. Polak, J.F., & O'Leary, D.H. Carotid Intima-Media Thickness as Surrogate for and Predictor of CVD. *Glob Heart*. 2016; 11(3): 295-312.e3.
  65. Bots, M.L., Evans, G.W., Tegeler, C.H., & Meijer R. Carotid Intima-media Thickness Measurements: Relations with Atherosclerosis, Risk of Cardiovascular Disease and Application in Randomized Controlled Trials. *Chinese Medical Journal*. 2016; 129(2): 215-26.
  66. Hays, W. L. Review of Using Multivariate Statistics. *Contemporary Psychology: A Journal of Reviews* vol. 28 (1983).
  67. de Gonzalez, B.A., Hartge, P., Cerhan, J.R., Flint, A.J., Hannan, L., MacInnis, R.J. *et al.* Body-mass index and mortality among 1.46 million white adults. *New England Journal of Medicine*. 2010; 363(23): 2211-2219.
  68. Somannavar, S., Ganesan, A., Deepa, M., Datta, M., & Mohan, V. Random Capillary Blood Glucose Cut Points for Diabetes and Pre-Diabetes Derived From Community-Based Opportunistic Screening in India. *Diabetes Care*. 2008; 32(4): 641-643.
  69. CDC National Center for Health Statistics. (2017 August 29). *National Health Interview Survey, Special Topics, Adult Tobacco Use Information*. Diakses dari [https://www.cdc.gov/nchs/nhis/tobacco/tobacco\\_glossary.htm](https://www.cdc.gov/nchs/nhis/tobacco/tobacco_glossary.htm).
  70. U.S. Department of Health and Human Services and U.S. Department of Agriculture. (December 2015). *2015 – 2020 Dietary Guidelines for Americans*. 8th Edition. <https://health.gov/our-work/food-and-nutrition/2015-2020-dietary-guidelines/>
  71. Lacruz, M.E., Kluttig, A., Kuss, O. *et al.* Short-term blood pressure variability – variation between arm side, body position and successive measurements: a population-based cohort study. *BMC Cardiovasc Disord*. 2017; 17(31).
  72. Franklin SS, Lopez VA, Wong ND, et al. Single versus combined blood pressure components and risk for cardiovascular disease: the Framingham Heart Study. *Circulation*. 2009; 119(2): 243-250.
  73. McCarthy, H., Jarrett, K. & Crawley, H. The development of waist circumference percentiles in British children aged 5.0–16.9 y. *Eur J Clin Nutr*. 2001; 55: 902–907.
  74. Grundy, S.M., Stone, N.J., Bailey, A.L., Beam, C., Birtcher, K.K., Blumenthal, R.S. *et al.* 2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA guideline on the management of blood cholesterol: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *Circulation*. 2019;139:e1082–e1143.
  75. Enomoto, M., Adachi, H., Hirai, Y., Fukami, A., Satoh, A., Otsuka, M., *et al.* (2011). LDL-C/HDL-C Ratio Predicts Carotid Intima-Media Thickness Progression Better Than HDL-C or LDL-C Alone. *Journal of lipids*, 2011, 549137.
  76. American Heart Association. (2020). *Understanding Blood Pressure*

- Readings.* <https://www.heart.org/en/health-topics/high-blood-pressure/understanding-blood-pressure-readings>.
77. World Health Organization. Regional Office for the Western Pacific. (2000). *The Asia-Pacific perspective : redefining obesity and its treatment*. Sydney : Health Communications Australia. <https://apps.who.int/iris/handle/10665/206936>.
  78. Kementerian Kesehatan Republik Indonesia. (2018). *Epidemi Obesitas*. [http://p2ptm.kemkes.go.id/uploads/N2VaaXIxZGZwWFpEL1VIRFdQQ3ZRZz09/2018/02/FactSheet\\_Obesitas\\_Kit\\_Informasi\\_Obesitas.pdf](http://p2ptm.kemkes.go.id/uploads/N2VaaXIxZGZwWFpEL1VIRFdQQ3ZRZz09/2018/02/FactSheet_Obesitas_Kit_Informasi_Obesitas.pdf)
  79. Hair, J. et al. *Multivariate data analysis*. United States: Prentice Hall;1998.
  80. Lloyd-Jones, D. M., Hong, Y., Labarthe, D., Mozaffarian, D., Appel, L. J., Van Horn, L., et al. American Heart Association Strategic Planning Task Force and Statistics Committee (2010). Defining and setting national goals for cardiovascular health promotion and disease reduction: the American Heart Association's strategic Impact Goal through 2020 and beyond. *Circulation*. 2010; 121(4): 586–613.
  81. Hou, Q., Li, S., Gao, Y. et al. Relations of lipid parameters, other variables with carotid intima-media thickness and plaque in the general Chinese adults: an observational study. *Lipids Health Dis*. 2018; 17(107).
  82. Izar, M., Fonseca, H., Tande, I. & Ferreira, S. R. G. Impact of menopause and diabetes on atherogenic lipid profile : is it worth to analyse lipoprotein subfractions to assess cardiovascular risk in women? *Diabetol. Metab. Syndr*. 2017:1-13.
  83. Thaug Zaw, J.J., Howe, P., & Wong, R. Postmenopausal health interventions: Time to move on from the Women's Health Initiative?. *Ageing research reviews vol*. 48 (2018): 79-86.
  84. Chatterjee, C., & Sparks, D. L. (2011). Hepatic lipase, high density lipoproteins, and hypertriglyceridemia. *Am J Pathol*. 2011;178(4):1429-1433.
  85. Dawson, J. D., Sonka, M., Blecha, M. B., Lin, W., & Davis, P. H. Risk factors associated with aortic and carotid intima-media thickness in adolescents and young adults: the Muscatine Offspring Study. *Journal of the American College of Cardiology*. 2009; 53(24): 2273–2279.
  86. Wakabayashi, I. Increased body mass index modifies associations between alcohol intake and blood cholesterol profile. *European Journal of Clinical Investigation*. 2011; 42: 179-185.
  87. Nwaiwu, O., & Ibe, B. C.. Relationship between serum cholesterol and body mass index in Nigeria schoolchildren aged 2-15 years. *J Trop Pediatr*. 2015;61(2):126-130.
  88. Oikonen, M., Laitinen, T. T., Magnussen, C. G., Steinberger, J., Sinaiko, A. R., Dwyer, T., et al. Ideal cardiovascular health in young adult populations from the United States, Finland, and Australia and its association with cIMT: the International Childhood Cardiovascular Cohort Consortium. *Journal of the American Heart Association*. 2013; 2(3): e000244.
  89. van Mil, S. R., Biter, L. U., van de Geijn, G., Birnie, E., Dunkelgrun, M., Ijzermans, J., et al. The effect of sex and menopause on carotid intima-media thickness and pulse wave velocity in morbid obesity. *Eur J Clin*



- Invest.* 2019; 49(7): e13118.
90. Hariyanto, D., Madiyono, B., Sjarif, D. R., & Sastroasmoro, S. Hubungan Ketebalan Tunika Intima Media Arteri Carotis dengan Obesitas pada Remaja. *Sari Pediatri.* 2009; 11(3): 159-166.
  91. P Paramsothy, P., Knopp, R. H., Bertoni, A. G., Blumenthal, R. S., Wasserman, B. A., Tsai, M. Y., *et al.* Association of combinations of lipid parameters with carotid intima-media thickness and coronary artery calcium in the MESA (Multi-Ethnic Study of Atherosclerosis). *Journal of the American College of Cardiology.* 2010; 56(13): 1034–1041.
  92. Wang, J. C., & Bennett, M. Aging and atherosclerosis: mechanisms, functional consequences, and potential therapeutics for cellular senescence. *Circulation research.* 2012; 111(2): 245–259.
  93. Viridis, A. & Taddei, S. Maturitas Endothelial aging and gender. *Maturitas* 2012; 71(4): 326–330.
  94. Magkos F, Mittendorfer B. Gender differences in lipid metabolism and the effect of obesity. *Obstet Gynecol Clin North Am.* 2009; 36(2) :245-vii.
  95. Nguyen, A. B., Rohatgi, A., Garcia, C. K., Ayers, C. R., Das, S. R., Lakoski, *et al.* Interactions between smoking, pulmonary surfactant protein B, and atherosclerosis in the general population: the Dallas Heart Study. *Arteriosclerosis, thrombosis, and vascular biology.* 2011; 31(9): 2136–2143.
  96. Centner, A. M., Bhide, P. G., & Salazar, G. Nicotine in Senescence and Atherosclerosis. *Cells.* 2020; 9(4): 1035.
  97. Wang, Z., Wang, D., & Wang, Y. Cigarette Smoking and Adipose Tissue: The Emerging Role in Progression of Atherosclerosis. *Mediators Inflamm.* 2017; 2017: 3102737.
  98. Zhou, M. S., Chadipiralla, K., Mendez, A. J., Jaimes, E. A., Silverstein, R. L., Webster, K., *et al.* Nicotine potentiates proatherogenic effects of oxLDL by stimulating and upregulating macrophage CD36 signaling. *Am J Physiol Heart Circ Physiol.* 2013; 305(4): H563-H574.
  99. Aoki, T., Yagi, H., Sumino, H., Tsunekawa, K., Araki, O., Kimura, T., *et al.* Relationship between carotid artery intima-media thickness and small dense low-density lipoprotein cholesterol concentrations measured by homogenous assay in Japanese subjects. *Clin Chim Acta.* 2015; 442: 110-114.
  100. Wang, Y., Yang, Y., Wang, A. An, S., Li, Z., Zhang, W., *et al.* Association of long-term blood pressure variability and brachial-ankle pulse wave velocity: a retrospective study from the APAC cohort. *Sci Rep.* 2016; 6: 21303.
  101. Aoki, Y., Kai, H., Kajimoto, H., Kudo, H., Takayama, N., Yasuoka, S., *et al.* Large blood pressure variability aggravates arteriolosclerosis and cortical sclerotic changes in the kidney in hypertensive rats. *Circ J.* 2014; 78: 2284–2291.
  102. Ziemann, S.J., Melenovsky, V., & Kass, D.A. Mechanisms, pathophysiology, and therapy of arterial stiffness. *Arterioscler Thromb Vasc Biol.* 2005 ;25(5): 932-943.
  103. Rocha, V.Z, & Libby, P. Obesity, inflammation, and atherosclerosis. *Nat Rev Cardiol.* 2009; 6(6): 399-409.

104. Rogero, M.M & Calder, P.C. Obesity, Inflammation, Toll-Like Receptor 4 and Fatty Acids. *Nutrients*. 2018; 10(4): 432.

