

DAFTAR PUSTAKA

- Abdul-Rahman, T., Bukhari, S.M.A., Herrera, E.C., Awuah, W.A., Lawrence, J., de Andrade, H., Patel, N., Shah, R., Shaikh, R., Capriles, C.A.A. and Ulasan, S. (2022). Lipid lowering therapy: an era beyond statins. *Current problems in cardiology*, 47(12), p.101342.
- Abe, Y., Okada, T., Sugiura, R., Yamauchi, K. and Murata, M. (2015). Reference ranges for the non-high-density lipoprotein cholesterol levels in Japanese children and adolescents. *Journal of Atherosclerosis and Thrombosis*, 22(7), pp.669-675.
- Aboonabi, A., Meyer, R.R. and Singh, I. (2019). The association between metabolic syndrome components and the development of atherosclerosis. *Journal of human hypertension*, 33(12), pp.844-855.
- Adam, C.A., Şalaru, D.L., Prisacariu, C., Marcu, D.T.M., Sascău, R.A. and Stătescu, C. (2022). Novel biomarkers of atherosclerotic vascular disease—Latest insights in the research field. *International Journal of Molecular Sciences*, 23(9), p.4998.
- Aleksandrova, K., Mozaffarian, D. and Pischon, T. (2018). Addressing the perfect storm: biomarkers in obesity and pathophysiology of cardiometabolic risk. *Clinical chemistry*, 64(1), pp.142-153.
- Alifu, J., Xiang, L., Zhang, W., Qi, P., Chen, H., Liu, L., Yin, G., Mohammed, A.Q., Lv, X., Shi, T. and Abdu, F.A. (2023). Association between the atherogenic index of plasma and adverse long-term prognosis in patients diagnosed with chronic coronary syndrome. *Cardiovascular Diabetology*, 22(1), p.255.
- Amin, T.T., Al Sultan, A.I., Mostafa, O.A., Darwish, A.A. and Al-Naboli, M.R. (2014). Profile of non-communicable disease risk factors among employees at a Saudi university. *Asian Pacific Journal of Cancer Prevention*, 15(18), pp.7897-7907.
- Armstrong, A., Jungbluth Rodriguez, K., Sabag, A., Mavros, Y., Parker, H.M., Keating, S.E. and Johnson, N.A. (2022). Effect of aerobic exercise on waist circumference in adults with overweight or obesity: A systematic review and meta-analysis. *Obesity Reviews*, 23(8), p.e13446.
- Arifin, H., Chou, K.R., Ibrahim, K., Fitri, S.U.R.A., Pradipta, R.O., Rias, Y.A., Sitorus, N., Wiratama, B.S., Setiawan, A., Setyowati, S. and Kuswanto, H. (2022). Analysis of Modifiable, Non-Modifiable, and Physiological Risk Factors of Non-Communicable Diseases in Indonesia: Evidence from the 2018 Indonesian Basic Health Research. *Journal of Multidisciplinary Healthcare*, pp.2203-2221.
- Asada, Y., Yamashita, A., Sato, Y. and Hatakeyama, K. (2020). Pathophysiology of atherothrombosis: Mechanisms of thrombus formation on disrupted atherosclerotic plaques. *Pathology International*, 70(6), pp.309-322.
- Athanasiou, L.S., Fotiadis, D.I. and Michalis, L.K. (2017). *Atherosclerotic plaque characterization methods based on coronary imaging*. Academic Press.
- Audrain-McGovern, J. and Benowitz, N.L., 2011. Cigarette smoking, nicotine, and body weight. *Clinical Pharmacology & Therapeutics*, 90(1), pp.164-168.
- Baardman, M.E., Erwich, J.J.H., Berger, R.M., Hofstra, R.M., Kerstjens-Frederikse, W.S., Lütjohann, D. and Plösch, T. (2012). The origin of fetal sterols in second-trimester

- amniotic fluid: endogenous synthesis or maternal-fetal transport?. *American journal of obstetrics and gynecology*, 207(3), pp.202-e19.
- Baardman, M.E., Kerstjens-Frederikse, W.S., Berger, R.M., Bakker, M.K., Hofstra, R.M. and Plösch, T. (2013). The role of maternal-fetal cholesterol transport in early fetal life: current insights. *Biology of reproduction*, 88(1), pp.24-1.
- Badimon, L. and Vilahur, G. (2014). Thrombosis formation on atherosclerotic lesions and plaque rupture. *Journal of internal medicine*, 276(6), pp.618-632.
- Balder, J.W., de Vries, J.K., Nolte, I.M., Lansberg, P.J., Kuivenhoven, J.A. and Kamphuisen, P.W., 2017. Lipid and lipoprotein reference values from 133,450 Dutch Lifelines participants: age-and gender-specific baseline lipid values and percentiles. *Journal of clinical lipidology*, 11(4), pp.1055-1064.
- Bargieł, W., Cierpiszewska, K., Maruszczak, K., Pakuła, A., Szwankowska, D., Wrzesińska, A., Gutowski, Ł. and Formanowicz, D. (2021). Recognized and potentially new biomarkers—their role in diagnosis and prognosis of cardiovascular disease. *Medicina*, 57(7), p.701.
- Behl, T.A., Stamford, B.A. and Moffatt, R.J., 2023. The effects of smoking on the diagnostic characteristics of metabolic syndrome: a review. *American Journal of Lifestyle Medicine*, 17(3), pp.397-412.
- Bereda, G. (2022). Pathophysiology and Management of Dyslipidaemia. *Biomed J Sci & Tech Res*, 43(2).
- Bhargava, S., De la Puente-Secades, S., Schurgers, L. and Jankowski, J. (2022). Lipids and lipoproteins in cardiovascular diseases: a classification. *Trends in Endocrinology & Metabolism*, 33(6), pp.409-423.
- Bo, M.S., Cheah, W.L., Lwin, S., Moe Nwe, T., Win, T.T. and Aung, M. (2018). Understanding the relationship between atherogenic index of plasma and cardiovascular disease risk factors among staff of an University in Malaysia. *Journal of Nutrition and Metabolism*, 2018.
- Bordeianu, G., Mitu, I., Stanescu, R.S., Ciobanu, C.P., Petrescu-Danila, E., Marculescu, A.D. and Dimitriu, D.C. (2022). Circulating Biomarkers for Laboratory Diagnostics of Atherosclerosis—Literature Review. *Diagnostics*, 12(12), p.3141.
- Bosomworth, N.J. (2013). Approach to identifying and managing atherogenic dyslipidemia: a metabolic consequence of obesity and diabetes. *Canadian Family Physician*, 59(11), pp.1169-1180.
- Bosy-Westphal, A., Boone, C.A., Blöcker, T., Kossel, E., Goele, K., Later, W., Hitze, B., Heller, M., Glüer, C.C. and Müller, M.J. (2010). Measurement site for waist circumference affects its accuracy as an index of visceral and abdominal subcutaneous fat in a Caucasian population. *The Journal of nutrition*, 140(5), pp.954-961.
- Brown, T.M. and Bittner, V. (2009). Biomarkers of atherosclerosis: Clinical applications. *Current Cardiovascular Risk Reports*, 3(1), pp.23-30.
- Browning, L.M., Mugridge, O., Chatfield, M.D., Dixon, A.K., Aitken, S.W., Joubert, I., Prentice, A.M. and Jebb, S.A. (2010). Validity of a new abdominal bioelectrical

- impedance device to measure abdominal and visceral fat: comparison with MRI. *Obesity*, 18(12), pp.2385-2391.
- Burridge, K., Christensen, S.M., Golden, A., Ingersoll, A.B., Tondt, J. and Bays, H.E. (2022). Obesity history, physical exam, laboratory, body composition, and energy expenditure: an Obesity Medicine Association (OMA) Clinical Practice Statement (CPS) 2022. *Obesity Pillars*, 1, p.100007.
- Cai, G., Shi, G., Xue, S. and Lu, W. (2017). The atherogenic index of plasma is a strong and independent predictor for coronary artery disease in the Chinese Han population. *Medicine*, 96(37).
- Campbell, S.C., Moffatt, R.J. and Stamford, B.A., 2008. Smoking and smoking cessation—the relationship between cardiovascular disease and lipoprotein metabolism: a review. *Atherosclerosis*, 201(2), pp.225-235.
- Carreras-Torres, R., Johansson, M., Haycock, P.C., Relton, C.L., Smith, G.D., Brennan, P. and Martin, R.M., 2018. Role of obesity in smoking behaviour: Mendelian randomisation study in UK Biobank. *bmj*, 361.
- Chartrand, D.J., Murphy-Després, A., Alméras, N., Lemieux, I., Larose, E. and Després, J.P., (2022). Overweight, obesity, and CVD risk: a focus on visceral/ectopic fat. *Current atherosclerosis reports*, 24(4), pp.185-195.
- Chiolero, A., Faeh, D., Paccaud, F. and Cornuz, J., 2008. Consequences of smoking for body weight, body fat distribution, and insulin resistance. *The American journal of clinical nutrition*, 87(4), pp.801-809.
- Choi, J., Guterrez, Y., Gilliss, C. and Lee, K.A. (2012). Physical activity, weight, and waist circumference in midlife women. *Health care for women international*, 33(12), pp.1086-1095.
- Chopra, A.K., 2024. Dietary management of dyslipidemia. *Indian Heart Journal*, 76, pp.S65-S72.
- Chow, L.S., Gerszten, R.E., Taylor, J.M., Pedersen, B.K., Van Praag, H., Trappe, S., Febbraio, M.A., Galis, Z.S., Gao, Y., Haus, J.M. and Lanza, I.R. (2022). Exerkines in health, resilience and disease. *Nature Reviews Endocrinology*, 18(5), pp.273-289.
- Christensen, J.J., Arnesen, E.K., Rundblad, A., Telle-Hansen, V.H., Narverud, I., Blomhoff, R., Bogsrud, M.P., Retterstøl, K., Ulven, S.M. and Holven, K.B., 2023. Dietary fat quality, plasma atherogenic lipoproteins, and atherosclerotic cardiovascular disease: An overview of the rationale for the dietary recommendations for fat intake. *Atherosclerosis*, p.117433.
- Cichoń, N., Lach, D., Dziedzic, A., Bijak, M. and Saluk, J. (2017). The inflammatory processes in atherogenesis. *Polski merkuriusz lekarski: organ Polskiego Towarzystwa Lekarskiego*, 42(249), pp.125-128.
- Cichosz, S.L., Jensen, M.H. and Hejlesen, O., 2020. Associations between smoking, glucose metabolism and lipid levels: A cross-sectional study. *Journal of Diabetes and its Complications*, 34(10), p.107649.
- Clair, C., Chiolero, A., Faeh, D., Cornuz, J., Marques-Vidal, P., Paccaud, F., Mooser, V., Waeber, G. and Vollenweider, P. (2011). Dose-dependent positive association

- between cigarette smoking, abdominal obesity and body fat: cross-sectional data from a population-based survey. *BMC public health*, 11, pp.1-10.
- Craig, W.Y., Palomaki, G.E. and Haddow, J.E., 1989. Cigarette smoking and serum lipid and lipoprotein concentrations: an analysis of published data. *British medical journal*, 298(6676), pp.784-788.
- Dathan-Stumpf, A., Vogel, M., Hiemisch, A., Thiery, J., Burkhardt, R., Kratzsch, J. and Kiess, W., 2016. Pediatric reference data of serum lipids and prevalence of dyslipidemia: results from a population-based cohort in Germany. *Clinical biochemistry*, 49(10-11), pp.740-749.
- Davignon, J. and Ganz, P. (2004). Role of endothelial dysfunction in atherosclerosis. *Circulation*, 109(23_suppl_1), pp.III-27.
- Després, J.P. (2021). Visceral obesity with excess ectopic fat: a prevalent and high-risk condition requiring concerted clinical and public health actions. *CardioMetabolic Syndrome Journal*, 1(1), pp.1-17.
- Dinas Kesehatan Provinsi DIY. (2023). Profil Kesehatan D.I Yogyakarta Tahun 2022. Yogyakarta: Dinas Kesehatan Provinsi Daerah Istimewa Yogyakarta.
- Dobiasova, M. (2004). Atherogenic index of plasma [log (triglycerides/HDL-cholesterol)]: theoretical and practical implications. *Clinical chemistry*, 50(7), pp.1113-1115.
- Dobiasova, M. (2006). AIP--atherogenic index of plasma as a significant predictor of cardiovascular risk: from research to practice. *Vnitřní lékařství*, 52(1), pp.64-71.
- Doewes, R.I., Gharibian, G., Zaman, B.A. and Akhavan-Sigari, R., 2023. An updated systematic review on the effects of aerobic exercise on human blood lipid profile. *Current problems in cardiology*, 48(5), p.101108.
- Dorling, J.L., Apolzan, J.W., Johannsen, N.M., Thomas, D.M., Höchsmann, C., Hsia, D.S. and Martin, C.K. (2024). Exercise-induced Changes in Central Adiposity During an RCT: Effect of Exercise Dose and Associations With Compensation. *The Journal of Clinical Endocrinology & Metabolism*, 109(3), pp.e997-e1005.
- Dong, J., Yang, S., Zhuang, Q., Sun, J., Wei, P., Zhao, X., Chen, Y., Chen, X., Li, M., Wei, L. and Chen, C. (2021). The associations of lipid profiles with cardiovascular diseases and death in a 10-year prospective cohort study. *Frontiers in Cardiovascular Medicine*, 8, p.745539.
- Duan, S.J., Ren, Z.Y., Zheng, T., Peng, H.Y., Niu, Z.H., Xia, H., Chen, J.L., Zhou, Y.C., Wang, R.R. and Yao, S.K. (2022). Atherogenic index of plasma combined with waist circumference and body mass index to predict metabolic-associated fatty liver disease. *World Journal of Gastroenterology*, 28(36), p.5364.
- Eilberg, C., Olsson, H. and Jernström, H. (2018). Current smoking is associated with a larger waist circumference and a more androgenic profile in young healthy women from high-risk breast cancer families. *Cancer Causes & Control*, 29, pp.243-251.
- Elffers, T.W., de Mutsert, R., Lamb, H.J., de Roos, A., Willems van Dijk, K., Rosendaal, F.R., Jukema, J.W. and Trompet, S. (2017). Body fat distribution, in particular visceral fat, is associated with cardiometabolic risk factors in obese women. *PloS one*, 12(9), p.e0185403.

- Fauziyah, D.R.N. (2019). Analisis Data Menggunakan Multiple Logistic Regression Test di Bidang Kesehatan Masyarakat dan Klinis.
- Fitch, A.K. and Bays, H.E. (2022). Obesity definition, diagnosis, bias, standard operating procedures (SOPs), and telehealth: an Obesity Medicine Association (OMA) Clinical Practice Statement (CPS) 2022. *Obesity Pillars*, 1, p.100004.
- Frař, W., Wojtasińska, A., Lisińska, W., Mlynarska, E., Franczyk, B. and Rysz, J. (2022). Pathophysiology of cardiovascular diseases: New insights into molecular mechanisms of atherosclerosis, arterial hypertension, and coronary artery disease. *Biomedicines*, 10(8), p.1938.
- Gao, S. and Liu, J., 2017. Association between circulating oxidized low-density lipoprotein and atherosclerotic cardiovascular disease. *Chronic diseases and translational medicine*, 3(02), pp.89-94.
- Gol, R.M., Rafrat, M. and Jafarabadi, M.A. (2021). Assessment of atherogenic indices and lipid ratios in the apparently healthy women aged 30–55 years. *Arterial Hypertension*, 25(4), pp.172-177.
- Gołacki, J. and Matyjaszek-Matuszek, B. (2024). Obesity—Standards, trends and advances. *Advances in Medical Sciences*.
- Graff-Iversen, S., Hewitt, S., Forsén, L., Grøtvedt, L. and Ariansen, I., 2019. Associations of tobacco smoking with body mass distribution; a population-based study of 65,875 men and women in midlife. *BMC Public Health*, 19, pp.1-10.
- Gropper, S.S., Smith, J.L. (2013). Advanced Nutrition and Human Metabolism. Sixth Edition. Belmont, CA: Wadsworth Cengage Learning.
- Gurunathan, U. and Myles, P.S. (2016). Limitations of body mass index as an obesity measure of perioperative risk. *BJA: British Journal of Anaesthesia*, 116(3), pp.319-321.
- Halcox, J.P., Banegas, J.R., Roy, C., Dallongeville, J., De Backer, G., Guallar, E., Perk, J., Hajage, D., Henriksson, K.M. and Borghi, C. (2017). Prevalence and treatment of atherogenic dyslipidemia in the primary prevention of cardiovascular disease in Europe: EURIKA, a cross-sectional observational study. *BMC cardiovascular disorders*, 17(1), pp.1-11.
- Hartriyanti, Y., Suyoto, P.S.T., Sabrini, I.A., Wigati, M. (2019). Gizi Kerja. Yogyakarta: Gadjah Mada University Press.
- Hill, M.F. and Bordon, B. (2022). Hyperlipidemia. In *StatPearls [Internet]*. StatPearls Publishing.
- Hoffmann, J., Thiele, J., Kwast, S., Borger, M.A., Schröter, T., Schmidt, J. and Busse, M. (2023). A new approach to quantify visceral fat via bioelectrical impedance analysis and ultrasound compared to MRI. *International Journal of Obesity*, pp.1-9.
- Holven, K.B. and van Lennep, J.R., 2023. Sex differences in lipids: A life course approach. *Atherosclerosis*, p.117270.
- Huang, P.L. (2009). A comprehensive definition for metabolic syndrome. *Disease models & mechanisms*, 2(5-6), pp.231-237.
- Huang, C., Chen, W. and Wang, X. (2022). Studies on the fat mass and obesity-associated (FTO) gene and its impact on obesity-associated diseases. *Genes & Diseases*.

- Hussain, M.A., Al Mamun, A., Peters, S.A., Woodward, M. and Huxley, R.R. (2016). The burden of cardiovascular disease attributable to major modifiable risk factors in Indonesia. *Journal of epidemiology*, 26(10), pp.515-521.
- Ige, I.G., Owoaje, E.T. and Adebisi, O.A. (2013). Non communicable disease and risky behaviour in an urban university community Nigeria. *African health sciences*, 13(1), pp.62-67.
- Isgiyanto, A. (2009). Teknik Pengambilan Sampel Pada Penelitian Non-Eksperimental. Yogyakarta: Mitra Cendikia Press.
- Iglesias, J.N., Abellán-Huerta, J., López, J.G., López, P.T. and Divisón-Garrote, J.A., 2021. Update on smoking. Alternatives for the management of patients with cardiovascular risk. *Hipertensión y Riesgo Vascular*, 38(4), pp.178-185.
- Jensen, M.K., Bertoia, M.L., Cahill, L.E., Agarwal, I., Rimm, E.B. and Mukamal, K.J. (2014). Novel metabolic biomarkers of cardiovascular disease. *Nature Reviews Endocrinology*, 10(11), pp.659-672.
- Kaniawati, M., Mulyani, Y. and Sumardi, C.D.M. (2020). Perbandingan Indeks Aterogenik Plasma Log (TG/HDL) pada Wanita Obes dan Non Obes. *Jurnal Ilmiah Farmasi Farmasyifa*, 3(1), pp.35-43.
- Kawaji, L.D. and Fontanilla, J.A. (2021). Accuracy of waist circumference measurement using the WHO versus NIH protocol in predicting visceral adiposity using bioelectrical impedance analysis among overweight and obese adult Filipinos in a Tertiary Hospital. *Journal of the ASEAN Federation of Endocrine Societies*, 36(2), p.180.
- Kementerian Kesehatan, 2013. Riset Kesehatan Dasar (Riskesdas). Jakarta: Kemenkes RI.
- Kementerian Kesehatan, 2018. Riset Kesehatan Dasar (Riskesdas). Jakarta: Kemenkes RI.
- Kempel, M.K., Winding, T.N., Lynggaard, V., Brantlov, S., Andersen, J.H. and Böttcher, M. (2021). Traditional and novel cardiometabolic risk markers across strata of body mass index in young adults. *Obesity Science & Practice*, 7(6), pp.727-737.
- Kim, S.H., Cho, Y.K., Kim, Y.J., Jung, C.H., Lee, W.J., Park, J.Y., Huh, J.H., Kang, J.G., Lee, S.J. and Ihm, S.H. (2022). Association of the atherogenic index of plasma with cardiovascular risk beyond the traditional risk factors: a nationwide population-based cohort study. *Cardiovascular Diabetology*, 21(1), p.81.
- Kim, D., Hou, W., Wang, F. and Arcan, C. (2019). Peer reviewed: factors affecting obesity and waist circumference among US adults. *Preventing chronic disease*, 16.
- Kim, H.K., Radak, Z., Takahashi, M., Inami, T. and Shibata, S. (2023). Chrono-exercise: Time-of-day-dependent physiological responses to exercise. *Sports Medicine and Health Science*, 5(1), pp.50-58.
- Klein, S. (2004). The case of visceral fat: argument for the defense. *The Journal of clinical investigation*, 113(11), pp.1530-1532.
- Koenig, W. and Khuseynova, N. (2007). Biomarkers of atherosclerotic plaque instability and rupture. *Arteriosclerosis, thrombosis, and vascular biology*, 27(1), pp.15-26.
- Kuruvilla, A., Mishra, S. and Ghosh, K. (2023). Prevalence and risk factors associated with non-communicable diseases among employees in a university setting: A cross-sectional study. *Clinical Epidemiology and Global Health*, 21, p.101282.

- Lavie, C.J., Kachur, S. and Sui, X. (2019). Impact of fitness and changes in fitness on lipids and survival. *Progress in Cardiovascular Diseases*, 62(5), pp.431-435.
- Lee, J.J., Pedley, A., Hoffmann, U., Massaro, J.M., Levy, D. and Long, M.T. (2018). Visceral and intrahepatic fat are associated with cardiometabolic risk factors above other ectopic fat depots: the Framingham Heart Study. *The American journal of medicine*, 131(6), pp.684-692.
- Lee, Y.C., Lee, Y.H., Chuang, P.N., Kuo, C.S., Lu, C.W. and Yang, K.C. (2020). The utility of visceral fat level measured by bioelectrical impedance analysis in predicting metabolic syndrome. *Obesity research & clinical practice*, 14(6), pp.519-523.
- Lee, Y. and Siddiqui, W.J. (2019). Cholesterol levels. StartPearls [Internet]
- Lee, H.J. and Choi, J.W. (2024). Association between waist circumference change after smoking cessation and incidence of hypertension in Korean adults. *Public Health*, 229, pp.73-79.
- Lee, M.J. and Kim, J. (2024). The pathophysiology of visceral adipose tissues in cardiometabolic diseases. *Biochemical Pharmacology*, p.116116.
- Leon, B.G.C., Jensen, M.D., Hartman, J.J. and Jensen, T.B. (2016). Self-Measured vs Professionally measured waist circumference. *The Annals of Family Medicine*, 14(3), pp.262-266.
- Li, Y.W., Kao, T.W., Chang, P.K., Chen, W.L. and Wu, L.W. (2021). Atherogenic index of plasma as predictors for metabolic syndrome, hypertension and diabetes mellitus in Taiwan citizens: a 9-year longitudinal study. *Scientific reports*, 11(1), p.9900.
- Lioy, B., Webb, R.J. and Amirabdollahian, F. (2023) March. The Association between the Atherogenic Index of plasma and cardiometabolic risk factors: a review. In *Healthcare* (Vol. 11, No. 7, p. 966). MDPI.
- Liu, H., Liu, K., Pei, L., Li, S., Zhao, J., Zhang, K., Zong, C., Zhao, L., Fang, H., Wu, J. and Sun, S. (2021). Atherogenic index of plasma predicts outcomes in acute ischemic stroke. *Frontiers in neurology*, 12, p.741754.
- Lorenzatti, A.J. and Toth, P.P. (2020). New perspectives on atherogenic dyslipidaemia and cardiovascular disease. *European Cardiology Review*, 15.
- Madan, K. and Sawhney, J.P.S., 2024. Exercise and lipids. *Indian Heart Journal*, 76, pp.S73-S74.
- Maharani, A., Sujarwoto, Praveen, D., Oceandy, D., Tampubolon, G. and Patel, A. (2019). Cardiovascular disease risk factor prevalence and estimated 10-year cardiovascular risk scores in Indonesia: The SMARThealth Extend study. *PloS one*, 14(4), p.e0215219.
- Manik, R.R., Widyastuti, N. and Nissa, C. (2019). Lingkar pinggang dan lingkar leher dengan kadar kolesterol total pada wanita usia subur obesitas. *Jurnal Gizi Klinik Indonesia*, 15(3), pp.75-82.
- Manjareeka, M., Nanda, S., Mishra, J. and Mishra, S. (2015). Correlation between anthropometry and lipid profile in healthy subjects of Eastern India. *Journal of mid-life health*, 6(4), pp.164-168.
- Manjunath, C.N., Rawal, J.R., Irani, P.M. and Madhu, K. (2013). Atherogenic dyslipidemia. *Indian journal of endocrinology and metabolism*, 17(6), pp.969-976.

- Markin, A.M., Sobenin, I.A., Grechko, A.V., Zhang, D. and Orkhov, A.N. (2020). Cellular mechanisms of human atherogenesis: focus on chronification of inflammation and mitochondrial mutations. *Advances in medical biochemistry, genomics, physiology, and pathology*, pp.405-424.
- Matthews, K.A., Crawford, S.L., Chae, C.U., Everson-Rose, S.A., Sowers, M.F., Sternfeld, B. and Sutton-Tyrrell, K. (2009). Are changes in cardiovascular disease risk factors in midlife women due to chronological aging or to the menopausal transition?. *Journal of the American College of Cardiology*, 54(25), pp.2366-2373.
- Mathieu, P., Pibarot, P. and Després, J.P. (2006). Metabolic syndrome: the danger signal in atherosclerosis. *Vascular health and risk management*, 2(3), pp.285-302.
- Mehta, N.H., Huey, S.L., Kuriyan, R., Rosas, J.P.P., Finkelstein, J.L., Kashyap, S. and Mehta, S. (2024). Potential mechanisms of precision nutrition-based interventions for managing obesity. *Advances in Nutrition*, p.100186.
- Miklshanskaya, S.V., Solomasova, L.V. and Mazur, N.A. (2021). Types of obesity and their prognostic value. *Obesity Medicine*, 25, p.100350.
- Mohammed, O., Alemayehu, E., Ebrahim, E., Fiseha, M., Gedefie, A., Ali, A., Ebrahim, H. and Tilahun, M. (2023). Atherogenic dyslipidemia and associated risk factors among hypertensive patients of five health facilities in Northeast Ethiopia. *Plos one*, 18(2), p.e0277185.
- Muhammad, H.F.L., Sulistyoningrum, D.D., Kusuma, R.J., Dewi, A.L.D., Karina, I. Buku Ajar Nutrigenomik dan Nutrigenetik bagi Mahasiswa Gizi. Yogyakarta: Gadjah Mada University Press.
- Mumford, S.L., Schisterman, E.F., Siega-Riz, A.M., Browne, R.W., Gaskins, A.J., Trevisan, M., Steiner, A.Z., Daniels, J.L., Zhang, C., Perkins, N.J. and Wactawski-Wende, J. (2010). A longitudinal study of serum lipoproteins in relation to endogenous reproductive hormones during the menstrual cycle: findings from the BioCycle study. *The Journal of Clinical Endocrinology & Metabolism*, 95(9), pp.E80-E85.
- Musunuru, K. (2010). Atherogenic dyslipidemia: cardiovascular risk and dietary intervention. *Lipids*, 45(10), pp.907-914.
- Neeland, I.J., Ross, R., Després, J.P., Matsuzawa, Y., Yamashita, S., Shai, I., Seidell, J., Magni, P., Santos, R.D., Arsenault, B. and Cuevas, A. (2019). Visceral and ectopic fat, atherosclerosis, and cardiometabolic disease: a position statement. *The lancet Diabetes & endocrinology*, 7(9), pp.715-725.
- Ni, W., Zhou, Z., Liu, T., Wang, H., Deng, J., Liu, X. and Xing, G. (2017). Gender-and lesion number-dependent difference in “atherogenic index of plasma” in Chinese people with coronary heart disease. *Scientific reports*, 7(1), p.13207.
- Niroumand, S., Khajedaluee, M., Khadem-Rezaian, M., Abrishami, M., Juya, M., Khodaei, G. and Dadgarmoghaddam, M. (2015). Atherogenic Index of Plasma (AIP): A marker of cardiovascular disease. *Medical journal of the Islamic Republic of Iran*, 29, p.240.
- Oh, B., Sung, J. and Chun, S. (2019). Potentially modifiable blood triglyceride levels by the control of conventional risk factors. *Lipids in Health and Disease*, 18(1), pp.1-9.

- Olateju, I.V., Opaleye-Enakhimion, T., Udeogu, J.E., Asuquo, J., Olaleye, K.T., Osa, E. and Oladunjoye, A.F. (2023). A systematic review on the effectiveness of diet and exercise in the management of obesity. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, p.102759.
- Paoletti, R., Bolego, C., Poli, A. and Cignarella, A. (2006). Metabolic syndrome, inflammation and atherosclerosis. *Vascular health and risk management*, 2(2), pp.145-152.
- Pappan, N. and Rehman, A. (2023). Dyslipidemia. In StatPearls [Internet]. StatPearls Publishing.
- Park, H.J., Rhie, S.J. and Shim, I. (2023). The effects of physical exercise therapy on weight control: Its regulation of adipocyte physiology and metabolic capacity. *Journal of exercise rehabilitation*, 19(3), p.141.
- Patry-Parisien, J., Shields, M. and Bryan, S., 2012. Comparison of waist circumference using the World Health Organization and National Institutes of Health protocols. *Health Rep*, 23(3), pp.53-60.
- Perhimpunan Dokter Spesialis Kardiovaskular Indonesia. (2022). Panduan Tata Laksana Dislipidemia 2022. *PERKI*.
- Perkumpulan Endrokinologi Indonesia. 2021. Pedoman Pengelolaan Dislipidemia di Indonesia Tahun 2021. *PERKENI*.
- Porkka, K.V., Viikari, J.S., Taimela, S., Dahl, M. and Åkerblom, H.K. (1994). Tracking and predictiveness of serum lipid and lipoprotein measurements in childhood: a 12-year follow-up: the Cardiovascular Risk in Young Finns study. *American journal of epidemiology*, 140(12), pp.1096-1110.
- Power, M.L. and Schulkin, J. (2008). Sex differences in fat storage, fat metabolism, and the health risks from obesity: possible evolutionary origins. *British journal of nutrition*, 99(5), pp.931-940.
- Pujilestari, C.U., Nyström, L., Norberg, M., Weinehall, L., Hakimi, M. and Ng, N. (2017). Socioeconomic inequality in abdominal obesity among older people in Purworejo District, Central Java, Indonesia—a decomposition analysis approach. *International journal for equity in health*, 16, pp.1-11.
- Qin, X., Chen, C., Wang, J., Cai, A., Feng, X., Jiang, X. and Feng, Y. (2023). Association of adiposity indices with cardiometabolic multimorbidity among 101,973 chinese adults: a cross-sectional study. *BMC Cardiovascular Disorders*, 23(1), p.514.
- Radmilović, G., Matijević, V., Mikulić, D., Markota, D.R. and Čeprija, A.R. (2023). The impact of smoking on estimated biological age and body fat composition: A cross-sectional study. *Tobacco Induced Diseases*, 21.
- Rafieian-Kopaei, M., Setorki, M., Doudi, M., Baradaran, A. and Nasri, H. (2014). Atherosclerosis: process, indicators, risk factors and new hopes. *International journal of preventive medicine*, 5(8), p.927.
- Raheem, J., Sliz, E., Shin, J., Holmes, M.V., Pike, G.B., Richer, L., Gaudet, D., Paus, T. and Pausova, Z. (2022). Visceral adiposity is associated with metabolic profiles predictive of type 2 diabetes and myocardial infarction. *Communications Medicine*, 2(1), p.81.

- Rallidis, L.S., Iordanidis, D. and Iliodromitis, E. (2020). The value of physical signs in identifying patients with familial hypercholesterolemia in the era of genetic testing. *Journal of Cardiology*, 76(6), pp.568-572.
- Rather, R.A. and Dhawan, V. (2016). Genetic markers: Potential candidates for cardiovascular disease. *International journal of cardiology*, 220, pp.914-923.
- Ratnaningsih, H.D. (2021). Gambaran Hasil Medical Check Up Pada Pegawai Universitas Gadjah Mada. Fakultas Kedokteran, Kesehatan Masyarakat, dan Keperawatan, Universitas Gadjah Mada Yogyakarta.
- Ross, R., Neeland, I.J., Yamashita, S., Shai, I., Seidell, J., Magni, P., Santos, R.D., Arsenault, B., Cuevas, A., Hu, F.B. and Griffin, B.A. (2020). Waist circumference as a vital sign in clinical practice: a Consensus Statement from the IAS and ICCR Working Group on Visceral Obesity. *Nature Reviews Endocrinology*, 16(3), pp.177-189.
- Ruiz-Castell, M., Samouda, H., Bocquet, V., Fagherazzi, G., Stranges, S. and Huiart, L. (2021). Estimated visceral adiposity is associated with risk of cardiometabolic conditions in a population based study. *Scientific Reports*, 11(1), p.9121.
- Sadeghi, M., Heshmat-Ghahdarjani, K., Talaei, M., Safaei, A., Sarrafzadegan, N. and Roohafza, H. (2021). The predictive value of atherogenic index of plasma in the prediction of cardiovascular events; a fifteen-year cohort study. *Advances in Medical Sciences*, 66(2), pp.418-423.
- Sawhney, J.P.S. and Madan, K., 2024. Familial hypercholesterolemia. *Indian Heart Journal*, 76, pp.S108-S112.
- Sawitri, H., Maulina, N., Lutfi, T.Y. and Rahmi, N. (2023). Tingkat Risiko Penyakit Jantung dan Pembuluh Darah pada Dosen dan Karyawan. *Jurnal Ilmiah Manusia Dan Kesehatan*, 6(1), pp.37-43.
- Sebo, P., Herrmann, F.R. and Haller, D.M. (2017). Accuracy of anthropometric measurements by general practitioners in overweight and obese patients. *BMC obesity*, 4(1), pp.1-7.
- Seyedhoseinpour, A., Barzin, M., Mahdavi, M., Valizadeh, M., Azizi, F., Ghareh, S. and Hosseinpour, F., 2023. BMI category-specific waist circumference thresholds based on cardiovascular disease outcomes and all-cause mortality: Tehran lipid and glucose study (TLGS). *BMC Public Health*, 23(1), p.1297.
- Shen, S. W., Lu, Y., Li, F., Yang, C. J., Feng, Y. B., Li, H. W., ... & Shen, Z. H. (2018). Atherogenic index of plasma is an effective index for estimating abdominal obesity. *Lipids in Health and Disease*, 17, 1-6.
- Shin, H.R., Song, S., Cho, J.A. and Ly, S.Y. (2022). Atherogenic Index of Plasma and Its Association with Risk Factors of Coronary Artery Disease and Nutrient Intake in Korean Adult Men: The 2013–2014 KNHANES. *Nutrients*, 14(5), p.1071.
- Singh, R.B., Mengi, S.A., Xu, Y.J., Arneja, A.S. and Dhalla, N.S. (2002). Pathogenesis of atherosclerosis: A multifactorial process. *Experimental & Clinical Cardiology*, 7(1), p.40.

- Siren, R., Eriksson, J.G. and Vanhanen, H. (2012). Waist circumference a good indicator of future risk for type 2 diabetes and cardiovascular disease. *BMC public health*, 12(1), pp.1-6.
- Soppert, J., Lehrke, M., Marx, N., Jankowski, J. and Noels, H. (2020). Lipoproteins and lipids in cardiovascular disease: from mechanistic insights to therapeutic targeting. *Advanced drug delivery reviews*, 159, pp.4-33.
- Srinath Reddy, K., 'Prevention and control of non-communicable diseases', in Roger Detels, and others (eds), *Oxford Textbook of Global Public Health*, 6 edn, Oxford Textbook (Oxford, 2015; online edn, Oxford Academic, 1 Feb. 2015), <https://doi.org/10.1093/med/9780199661756.003.0237>, accessed 6 May 2024.
- Su, X., Cheng, Y. and Chang, D., 2021. Lipid-lowering therapy: guidelines to precision medicine. *Clinica Chimica Acta*, 514, pp.66-73.
- Sulague, R.M., Suan, N.N.M., Mendoza, M.F. and Lavie, C.J., 2022. The associations between exercise and lipid biomarkers. *Progress in Cardiovascular Diseases*, 75, pp.59-68.
- Sumarni, S. (2017). The correlation between visceral fat levels and lipid profile in obese adults. *Medika Tadulako: Jurnal Ilmiah Kedokteran Fakultas Kedokteran dan Ilmu Kesehatan*, 4(1), pp.16-25.
- Syukrina, F. (2021). Waist Circumference is a Significant Indicator of the Atherogenic Index of Plasma and as an Early Marker for Cardiovascular Disease. *Metabolism-Clinical and Experimental*, 116.
- Tchernof, A. and Després, J.P., 2013. Pathophysiology of human visceral obesity: an update. *Physiological reviews*.
- Teramoto, T., Sasaki, J., Ishibashi, S., Birou, S., Daida, H., Dohi, S., Egusa, G., Hiro, T., Hirobe, K., Iida, M. and Kihara, S. (2013). Diagnostic criteria for dyslipidemia executive summary of the Japan Atherosclerosis Society (JAS) guidelines for the diagnosis and prevention of atherosclerotic cardiovascular diseases in Japan—2012 version. *Journal of atherosclerosis and thrombosis*, 20(8), pp.655-660.
- Uli, R.E., Satyana, R.P., Zomer, E., Magliano, D., Liew, D. and Ademi, Z. (2020). Health and productivity burden of coronary heart disease in the working Indonesian population using life-table modelling. *BMJ open*, 10(9), p.e039221.
- Ulloque-Badaracco, J.R., Hernandez-Bustamante, E.A., Alarcon-Braga, E.A., Mosquera-Rojas, M.D., Campos-Aspajo, A., Salazar-Valdivia, F.E., Valdez-Cornejo, V.A., Benites-Zapata, V.A., Herrera-Añazco, P., Valenzuela-Rodríguez, G. and Hernandez, A.V. (2022). Atherogenic index of plasma and coronary artery disease: A systematic review. *Open Medicine*, 17(1), pp.1915-1926.
- Utama, F., Rahmiwati, A., Alamsari, H. and Lihwana, M.A. (2019). Gambaran penyakit tidak menular di universitas sriwijaya. *Jurnal Kesehatan*, 11(2), pp.52-64.
- Utama, F., Sari, D.M. and Ningsih, W.I.F. (2021). Deteksi dan analisis faktor risiko hipertensi pada karyawan di lingkungan universitas sriwijaya. *Jurnal Kesehatan Andalas*, 10(1), pp.29-38.

- Verweij, L.M., Terwee, C.B., Proper, K.I., Hulshof, C.T. and van Mechelen, W. (2013). Measurement error of waist circumference: gaps in knowledge. *Public health nutrition*, 16(2), pp.281-288.
- Wagner, R., Machicao, F., Fritsche, A., Stefan, N., Häring, H.U. and Staiger, H. (2013). The genetic influence on body fat distribution. *Drug Discovery Today: Disease Mechanisms*, 10(1-2), pp.e5-e13.
- Wambui, D., Mohamed, S. and Asiki, G. (2022). Prevalence of and factors associated with high atherogenic index among adults in Nairobi urban informal settlements: The AWI-Gen study. *PLOS Global Public Health*, 2(7), p.e0000224.
- Wang, X., Magkos, F. and Mittendorfer, B., 2011. Sex differences in lipid and lipoprotein metabolism: it's not just about sex hormones. *The Journal of Clinical Endocrinology & Metabolism*, 96(4), pp.885-893.
- Wang, Z., Wang, D. and Wang, Y. (2017). Cigarette smoking and adipose tissue: the emerging role in progression of atherosclerosis. *Mediators of inflammation*, 2017.
- Wei, C., Ye, S., Sheng, J.R., Ma, X., Ru, Y., Zhang, L., Guo, H. and Zhu, S. (2019). Associations of nicotine dependence and fat distribution in Chinese male adults: a cross-sectional study in Lanxi, China. *BMJ open*, 9(3), p.e022465.
- Wekesa, C., Asiki, G., Kasamba, I., Waswa, L., Reynolds, S.J., Nsubuga, R.N., Newton, R. and Kamali, A. (2016). Atherogenic risk assessment among persons living in rural Uganda. *Journal of Tropical Medicine*, 2016.
- Westerterp, K.R. (2018). Exercise, energy balance and body composition. *European journal of clinical nutrition*, 72(9), pp.1246-1250.
- World Health Organization. Non-communicable disease [internet]. [cited 2023 Nov 13]. Available from: <https://www.who.int/news-room/fact-sheets/detail/noncommunicable-diseases>
- World Health Organization. Cardiovascular disease (CVDs) [internet]. [cited 2023 Des 4]. Available from: [https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds))
- World Health Organization. (2020). *WHO guidelines on physical activity and sedentary behaviour*. World Health Organization.
- Xu, S., Ilyas, I., Little, P.J., Li, H., Kamato, D., Zheng, X., Luo, S., Li, Z., Liu, P., Han, J. and Harding, I.C. (2021). Endothelial dysfunction in atherosclerotic cardiovascular diseases and beyond: from mechanism to pharmacotherapies. *Pharmacological Reviews*, 73(3), pp.924-967.
- Xu, Z., Liu, Y., Yan, C., Yang, R., Xu, L., Guo, Z., Yu, A., Cheng, X., Ma, L., Hu, C. and Guglielmi, G. (2021). Measurement of visceral fat and abdominal obesity by single-frequency bioelectrical impedance and CT: a cross-sectional study. *BMJ open*, 11(10), p.e048221.
- Xu, P., Wang, Y. and Liu, K. (2024). Characteristics and mechanisms of subcutaneous and visceral adipose tissue aging. *Chinese Journal of Plastic and Reconstructive Surgery*.

- Zhao, W., Zheng, X.L., Jiang, Z.N., Liao, X.B. and Zhao, S.P. (2017). Risk factors associated with atherogenic dyslipidemia in the presence of optimal statin therapy. *International Journal of Cardiology*, 248, pp.355-360.
- Zhao, X., Wang, D. and Qin, L. (2021). Lipid profile and prognosis in patients with coronary heart disease: a meta-analysis of prospective cohort studies. *BMC cardiovascular disorders*, 21(1), pp.1-15.
- Zhu, X., Yu, L., Zhou, H., Ma, Q., Zhou, X., Lei, T., Hu, J., Xu, W., Yi, N. and Lei, S. (2018). Atherogenic index of plasma is a novel and better biomarker associated with obesity: a population-based cross-sectional study in China. *Lipids in Health and Disease*, 17(1), pp.1-6.
- Zou, P. and Wang, L. (2023). Dietary pattern and hepatic lipid metabolism. *Liver Research*.