DAFTAR PUSTAKA

Akmal, M., & Wadhwa, R. (2022). Alpha Glucosidase Inhibitors. *NCBI Bookshelf*. https://www.ncbi.nlm.nih.gov/books/NBK557848/

Badan Pusat Statistik. (2021). *Statistik Penduduk Lanjut Usia 2021*. https://www.bps.go.id/publication/download

Bai, Y., & Sun, Q. (2015). *Macrophage recruitment in obese adipose tissue*. https://doi.org/10.1111/obr.12242

Bailey, A., & Mohiuddin, S. S. (2022). Biochemistry, High Density Lipoprotein. *StatPearls*. https://www.ncbi.nlm.nih.gov/books/NBK549802/

Battaglia, S., Scialpi, N., Berardi, E., Antonica, G., Suppressa, P., Diella, F. A., Colapietro, F., Ruggieri, R., Guglielmini, G., Noia, A., Graziano, G., Sabbà, C., & Cariello, M. (2020). Gender, BMI and fasting hyperglycaemia influence Monocyte to-HDL ratio (MHR) index in metabolic subjects. *PLoS ONE*, *15*(4). https://doi.org/10.1371/journal.pone.0231927

Bharath, L. P., & Nikolajczyk, B. S. (2021). The intersection of metformin and inflammation. *American Journal of Physiology - Cell Physiology*, *320*(5), C873–C879. https://doi.org/10.1152/

Butkowski, E. G., & Jelinek, H. F. (2017). Hyperglycaemia, oxidative stress and inflammatory markers. *Redox Report : Communications in Free Radical Research*, *22*(6), 257. https://doi.org/10.1080/13510002.2016.1215643

Castro, A. V. B., Kolka, C. M., Kim, S. P., & Bergman, R. N. (2014). Obesity, insulin resistance and comorbidities – Mechanisms of association. *Arquivos Brasileiros de Endocrinologia e Metabologia*, *58*(6), 600. https://doi.org/10.1590/0004-2730000003223

CDC. (2022, July 25). *Resources and Publications | Diabetes | CDC*. https://www.cdc.gov/diabetes/resources-publications/index.html

Chávez-Galán, L., Olleros, M. L., Vesin, D., & Garcia, I. (2015). Much more than M1 and M2 macrophages, there are also CD169+ and TCR+ macrophages. *Frontiers in Immunology*, *6*(MAY), 263. https://doi.org/10.3389/

Chen, J. W., Li, C., Liu, Z. H., Shen, Y., Ding, F. H., Shu, X. Y., Zhang, R. Y., Shen, W. F., Lu, L., & Wang, X. Q. (2019). The role of monocyte to high-density lipoprotein cholesterol ratio in prediction of carotid intima-media thickness in patients with type 2 diabetes. *Frontiers in Endocrinology*, *10*(APR), 191. https://doi.org/10.3389/FENDO.2019.00191/BIBTEX

Chen, W., Liu, X., & Ye, S. (2016). Effects of metformin on blood and urine pro-inflammatory mediators in patients with type 2 diabetes. *Journal of Inflammation (United Kingdom)*, *13*(1), 1–6. https://doi.org/10.1186/S12950-016-0142-3/FIGURES/3

Chung, H. Y., Kim, D. H., Lee, E. K., Chung, K. W., Chung, S., Lee, B., Seo, A. Y., Chung, J. H., Jung, Y. S., Im, E., Lee, J., Kim, N. D., Choi, Y. J., Im, D. S., & Yu, B. P. (2019). Redefining Chronic Inflammation in Aging and Age-Related

Diseases: Proposal of the Senoinflammation Concept. *Aging and Disease*, *10*(2), 367. https://doi.org/10.14336/AD.2018.0324

Costello, R. A., Nicolas, S., & Shivkumar, A. (2023). Sulfonylureas. *StatPearls*. https://www.ncbi.nlm.nih.gov/books/NBK513225/

Duong, L., Pixley, F. J., Nelson, D. J., & Jackaman, C. (2022). Aging Leads to Increased Monocytes and Macrophages With Altered CSF-1 Receptor Expression and Earlier Tumor-Associated Macrophage Expansion in Murine Mesothelioma. *Frontiers in Aging*, *3*. https://doi.org/10.3389/FRAGI.2022.848925/FULL

Farbstein, D., & Levy, A. P. (2012). HDL dysfunction in diabetes: causes and possible treatments. *Expert Review of Cardiovascular Therapy*, *10*(3), 353. https://doi.org/10.1586/ERC.11.182

Ferrucci, L., & Fabbri, E. (2018). Inflammageing: chronic inflammation in ageing, cardiovascular disease, and frailty. *Nature Reviews. Cardiology*, *15*(9), 505. https://doi.org/10.1038/S41569-018-0064-2

Frances Fischbach, & Marshall B. Dunnung. (2015). *A Manual of Laboratory and Diagnostic Test* (9th ed.). Wolters Kluwer Health.

Galicia-Garcia, U., Benito-Vicente, A., Jebari, S., Larrea-Sebal, A., Siddiqi, H., Uribe, K. B., Ostolaza, H., Martín, C., Biofisika Bizkaia, F., & Sarriena, B. (2020). Pathophysiology of Type 2 Diabetes Mellitus. *Molecular Sciences*, *21*(17). https://doi.org/10.3390/ijms21176275

Gardner, D., & Shoback, D. (2018). *Basic & Clinical Endocrinology* (10th ed.). McGraw-Hill.

Geer, E. B., & Shen, W. (2009). Gender differences in insulin resistance, body composition, and energy balance. *Gender Medicine*, *6*(SUPPL. 1), 60–75. https://doi.org/10.1016/j.genm.2009.02.002

Hafiane, A., & Genest, J. (2015). *High density lipoproteins: Measurement techniques and potential biomarkers of cardiovascular risk*. https://doi.org/10.1016/j.bbacli.2015.01.005

Hatting, M., Tavares, C. D. J., Sharabi, K., Rines, A. K., & Puigserver, P. (2018). Insulin regulation of gluconeogenesis. *Annals of the New York Academy of Sciences*, *1411*(1), 21. https://doi.org/10.1111/NYAS.13435

IDF. (2021). *IDF Diabetes Atlas 10th edition*. www.diabetesatlas.org

Jordan, S., Tung, N., Casanova-Acebes, M., Chang, C., Cantoni, C., Zhang, D., Wirtz, T. H., Naik, S., Rose, S. A., Brocker, C. N., Gainullina, A., Hornburg, D., Horng, S., Maier, B. B., Cravedi, P., LeRoith, D., Gonzalez, F. J., Meissner, F., Ochando, J., … Merad, M. (2019). Dietary Intake Regulates the Circulating Inflammatory Monocyte Pool. *Cell*, *178*(5), 1102-1114.e17. https://doi.org/10.1016/j.cell.2019.07.050

Kemenkes Ri. (2018). Riset Kesehatan Dasar. *RISKESDAS*.

Kim, H. J., Park, H. A., Cho, Y. G., Kang, J. H., Kim, K. W., Kang, J. H., Kim, N. R., Chung, W. C., Kim, C. H., Whang, D. H., & Park, J. K. (2011). Gender Difference

in the Level of HDL Cholesterol in Korean Adults. *Korean Journal of Family Medicine*, *32*(3), 173. https://doi.org/10.4082/KJFM.2011.32.3.173

Kiss, M., Caro, A. A., Raes, G., & Laoui, D. (2020). Systemic Reprogramming of Monocytes in Cancer. *Frontiers in Oncology*, *10*, 1399. https://doi.org/10.3389/FONC.2020.01399

Kırık, A. (2022). Monocyte count to high density lipoprotein cholesterol ratio in subjects with overweight and obesity. *Medicine Science*, *11*(3), 1340–1344. https://doi.org/10.5455/MEDSCIENCE.2022.08.182

Lee, Y., & Siddiqui, W. J. (2022). Cholesterol Levels. *StatPearls [Internet]*. https://www.ncbi.nlm.nih.gov/books/NBK542294/

Mangaonkar, A. A., Tande, A. J., & Bekele, D. I. (2021). Differential Diagnosis and Workup of Monocytosis: A Systematic Approach to a Common Hematologic Finding. *Current Hematologic Malignancy Reports*, *16*(3), 267. https://doi.org/10.1007/S11899-021-00618-4

Martínez de Toda, I., González-Sánchez, M., Díaz-Del Cerro, E., Valera, G., Carracedo, J., & Guerra-Pérez, N. (2023). Sex differences in markers of oxidation and inflammation. Implications for ageing. *Mechanisms of Ageing and Development*, *211*, 111797. https://doi.org/10.1016/J.MAD.2023.111797

McKee, A. M., & John E, M. (2021). *Obesity in the Elderly*. https://www.ncbi.nlm.nih.gov/books/NBK532533/

McTaggart, F., & Jones, P. (2008). Effects of Statins on High-Density Lipoproteins: A Potential Contribution to Cardiovascular Benefit. *Cardiovascular Drugs and Therapy*, *22*(4), 321. https://doi.org/10.1007/S10557-008-6113-Z

Onalan, E. (2019). The relationship between monocyte to high-density lipoprotein cholesterol ratio and diabetic nephropathy. *Pakistan Journal of Medical Sciences*, *35*(4), 1081. https://doi.org/10.12669/PJMS.35.4.534

Peres, F. S., Barreto, S. M., Camelo, L. V., Ribeiro, A. L. P., Vidigal, P. G., Duncan, B. B., & Giatti, L. (2017). Time From Smoking Cessation and Inflammatory Markers: New Evidence From a Cross-Sectional Analysis of ELSA-Brasil. *Nicotine & Tobacco Research : Official Journal of the Society for Research on Nicotine and Tobacco*, *19*(7), 852–858. https://doi.org/10.1093/NTR/NTX032

Perkeni. (2021). *PEDOMAN PENGELOLAAN DAN PENCEGAHAN DIABETES MELITUS TIPE 2 DEWASA DI INDONESIA*-.

Rena, G., Grahame, & D., & Pearson, E. R. (2017). The mechanisms of action of metformin. *Diabetologia*, *60*(9), 1577–1585. https://doi.org/10.1007/s00125-017-4342-z

Ruiz-Ramie, J. J., Barber, J. L., & Sarzynski, M. A. (2019). Effects of exercise on HDL functionality. *Current Opinion in Lipidology*, *30*(1), 16–23. https://doi.org/10.1097/MOL.0000000000000568

Sanlioglu, A. D., Altunbas, A., Balci, M. K., Griffith, T. S., & Sanlioglu, S. (2013). *Clinical utility of insulin and insulin analogs; © 2013 Landes Bioscience REVIEW REVIEW*. https://doi.org/10.4161/isl.24590

Sharma, K., Akre, S., Chakole, S., & Wanjari, M. B. (2022). *Stress-Induced Diabetes: A Review*. https://doi.org/10.7759/cureus.29142

Subramanian, S., & Chait, A. (2020). Dyslipidemia in Diabetes. *Encyclopedia of Endocrine Diseases*, 186–198. https://doi.org/10.1016/B978-0-12-801238-3.65798-7

Tang, X., Tan, Y., Yang, Y., Li, M., He, X., Lu, Y., Shi, G., Zhu, Y., Nie, Y., Li, H., Mu, P., & Chen, Y. (2021). Association of the Monocyte–to–High-Density Lipoprotein Cholesterol Ratio With Diabetic Retinopathy. *Frontiers in Cardiovascular Medicine*, *8*, 707008. https://doi.org/10.3389/FCVM.2021.707008

Tilg, H., & Moschen, A. R. (2008). Inflammatory Mechanisms in the Regulation of Insulin Resistance. *Molecular Medicine*, *14*(3–4), 222. https://doi.org/10.2119/2007-00119.TILG

Tramunt, B., Smati, S., Grandgeorge, N., Lenfant, F., Arnal, J. F., Montagner, A., & Gourdy, P. (2020). Sex differences in metabolic regulation and diabetes susceptibility. In *Diabetologia* (Vol. 63, Issue 3, pp. 453–461). Springer. https://doi.org/10.1007/s00125-019-05040-3

Tudurí, E., Soriano, S., Almagro, L., Montanya, E., Alonso-Magdalena, P., Nadal, Á., & Quesada, I. (2022). The pancreatic β-cell in ageing: Implications in age-related diabetes. *Ageing Research Reviews*, *80*. https://doi.org/10.1016/J.ARR.2022.101674

Vargas, E., Joy, N. V., & Sepulveda, M. A. C. (2022). Biochemistry, Insulin Metabolic Effects. *StatPearls*. https://www.ncbi.nlm.nih.gov/books/NBK525983/

Varghese, M., Clemente, J., Lerner, A., Abrishami, S., Islam, M., Subbaiah, P., & Singer, K. (2022). Monocyte Trafficking and Polarization Contribute to Sex Differences in Meta-Inflammation. *Frontiers in Endocrinology*, *13*, 826320. https://doi.org/10.3389/FENDO.2022.826320/BIBTEX

Virlando Suryadinata, R., Wirjatmadi, B., Adriani, M., & Lorensia, A. (2020). Effect of age and weight on physical activity. *Journal of Public Health Research*. https://doi.org/10.4081/jphr.2020.1840

Yang, J., Zhang, L., Yu, C., Yang, X. F., & Wang, H. (2014). Monocyte and macrophage differentiation: Circulation inflammatory monocyte as biomarker for inflammatory diseases. *Biomarker Research*, *2*(1), 1–9. https://doi.org/10.1186/2050-7771-2-1/TABLES/4

Yılmaz, M., & Kayançiçek, H. (2018). A New Inflammatory Marker: Elevated Monocyte to HDL Cholesterol Ratio Associated with Smoking. *Journal of Clinical Medicine 2018, Vol. 7, Page 76*, *7*(4), 76. https://doi.org/10.3390/JCM7040076

Zhang, J., Li, L., Song, P., Wang, C., Man, Q., Meng, L., Cai, J., & Kurilich, A. (2012). Randomized controlled trial of oatmeal consumption versus noodle consumption on blood lipids of urban Chinese adults with hypercholesterolemia. *Nutrition Journal*, *11*(1), 1–8. https://doi.org/10.1186/1475-2891-11-54/FIGURES/1

Zorena, K., Jachimowicz-Duda, O., Ślęzak, D., Robakowska, M., & Mrugacz, M. (2020). Adipokines and Obesity. Potential Link to Metabolic Disorders and Chronic Complications. *International Journal of Molecular Sciences*, *21*(10). https://doi.org/10.3390/IJMS21103570