

## DAFTAR PUSTAKA

- Abadini, D., Adriani, M., & Endah Wuryaningsih, C. (2019). Determinants of Physical Activity Among Southeast Asian Adults: A Systematic Review. *KnE Life Sciences*, 4(10), 294. <https://doi.org/10.18502/kls.v4i10.3732>
- Agrawal, N., Kumar Agrawal, M., Kumari, T., & Kumar, S. (2017). Correlation between Body Mass Index and Blood Glucose Levels in Jharkhand Population. *International Journal of Contemporary Medical Research ISSN*, 4(8), 1633. [www.ijcmr.com](http://www.ijcmr.com)
- Agustina, W., Lestari, R. M., & Prasida, D. W. (2023). Hubungan Aktivitas Fisik dengan Kejadian Obesitas pada Usia Produktif di Wilayah Kerja Puskesmas Marina Permai Kota Palangka Raya. *Jurnal Surya Medika*, 9(1), 1–8. <https://doi.org/10.33084/jsm.v9i1.5125>
- Agustini, R. (2019). Mineral Fungsi dan Metabolisme. In *Karunia* (Issue 1, pp. 1–2).
- Aikawa, J. (2019). Crc Series on Cations of Biologic Significance. In *Api.Taylorfrancis.Com*. <https://api.taylorfrancis.com/content/books/mono/download?identifierName=doi&identifierValue=10.1201/9781351076678&type=googlepdf>
- Ajhuri, K. F. (2019). Psikologi Perkembangan Pendekatan Sepanjang Rentang Kehidupan. In *Psikologi Perkembangan Pendekatan Sepanjang Rentang Kehidupan*.
- Al Alawi, A. M., Majoni, S. W., & Falhammar, H. (2018). Magnesium and Human Health: Perspectives and Research Directions. *International Journal of Endocrinology*, 2018. <https://doi.org/10.1155/2018/9041694>
- Almatsier, S., Soetardjo, S., & Soekarti, M. (2011). Gizi Seimbang dalam Daur Kehidupan - Google Books. In *Gramedia Pustaka Utama* (pp. 1–382). [https://www.google.co.id/books/edition/Gizi\\_Seimbang\\_dalam\\_Daur\\_Kehidupan/B0dODwAAQBAJ?hl=id&gbpv=1&dq=Gizi+Seimbang+Dalam+Daur+Kehidupan+2011&printsec=frontcover](https://www.google.co.id/books/edition/Gizi_Seimbang_dalam_Daur_Kehidupan/B0dODwAAQBAJ?hl=id&gbpv=1&dq=Gizi+Seimbang+Dalam+Daur+Kehidupan+2011&printsec=frontcover)
- Amalia, N. S. (2021). Gambaran Prediabetes Pada Pegawai Kantor Kementerian Agama Di Boyolali. *Naskah Publikasi*, 1–15. <http://eprints.ums.ac.id/94864/1/NASKAHPUBLIKASI.pdf>
- American Diabetes Association. (2010). Standards of medical care in diabetes-2010. *Diabetes Care*, 33(SUPPL. 1). <https://doi.org/10.2337/dc10-S011>
- American Diabetes Association Officers. (2018). Standards of Medical Care in Diabetes-2018. *Diabetes Care*, 41(9), 2045–2047. <https://doi.org/10.2337/dc18-su09>
- Anekwe, C. V., Jarrell, A. R., Townsend, M. J., Gaudier, G. I., Hiserodt, J. M., & Stanford, F. C. (2020). Socioeconomics of Obesity. *Current Obesity Reports*, 9(3), 272–279. <https://doi.org/10.1007/s13679-020-00398-7>
- Angga, D. T., Putra, K. P., & Nugroho, K. P. A. (2019). Gambaran Aktivitas Fisik Pada Individu Obesitas Di Wilayah Kerja Puskesmas Sidorejo Kidul Salatiga. *Journal of Health*, 6(1), 24–30. <https://doi.org/10.30590/vol6-no1-p24-30>
- Anggun Faradhita, D. H. dan I. K. (2014). CORRELATION BETWEEN MAGNESIUM INTAKE AND FASTING BLOOD GLUCOSE LEVEL IN OUTPATIENTS WITH TYPE 2 DIABETES MELLITUS. *Indonesian Journal of Human Nutrition*, 1(12), 71–88. [www.ijhn.ub.ac.id](http://www.ijhn.ub.ac.id)
- Annullah, G. A., Jasmine, M. S., Saraswati, N. A., & Rizka, Y. (2021). Faktor Risiko Obesitas Pada Pekerja Kantoran: a Systematic Review. *Jurnal Kesehatan Tambusai*, 2(2), 80–88. <https://doi.org/10.31004/jkt.v2i2.1795>
- Anri, A. (2022). Pengaruh Indeks Massa Tubuh, Pola Makan, Dan Aktivitas Fisik

- Terhadap Kejadian Diabetes Melitus Tipe 2. *Journal of Nursing and Public Health*, 10(1), 7–13. <https://doi.org/10.37676/jnph.v10i1.2356>
- Apriani, W., & Nurjannah, D. (2020). *Jurnal Sains Kesehatan Vol. 27 No. 1 April 2020*. 27(1), 23–29. <http://jurnal.stikestrimandirisakti.ac.id/index.php/jsk/article/view/109/pdf>
- Aprilia, D. (2020). *PASIE DIABETES MELLITUS TIPE II (STUDI LITERATUR) TUGAS AKHIR*.
- Bennouar, S., Bachir Cherif, A., Hani, H. M., Kerrouche, A., & Abdi, S. (2023). Prediction of body fat percentage: Development and validation of new anthropometric equations. *Clinical Nutrition ESPEN*, 57, 510–518. <https://doi.org/10.1016/j.clnesp.2023.08.002>
- Bertinato, J., Xiao, C. W., Ratnayake, W. M. N., Fernandez, L., Lavergne, C., Wood, C., & Swist, E. (2015). Lower serum magnesium concentration is associated with diabetes, insulin resistance, and obesity in South Asian and white Canadian women but not men. *Food and Nutrition Research*, 59, 1–9. <https://doi.org/10.3402/fnr.v59.25974>
- Bird, S. R., & Hawley, J. A. (2017). Update on the effects of physical activity on insulin sensitivity in humans. *BMJ Open Sport and Exercise Medicine*, 2(1), 1–26. <https://doi.org/10.1136/bmjsem-2016-000143>
- Blancquaert, L., Vervaet, C., & Derave, W. (2019). Predicting and testing bioavailability of magnesium supplements. *Nutrients*, 11(7). <https://doi.org/10.3390/nu11071663>
- Bohari, B., Nuryani, N., Abdullah, R., Amaliah, L., & Hafid, F. (2021). Hubungan aktivitas fisik dan obesitas sentral dengan hiperglikemia wanita dewasa: Cross-sectional study. *Action: Aceh Nutrition Journal*, 6(2), 199. <https://doi.org/10.30867/action.v6i2.587>
- Budianto, R. E., Linawati, N. M., Arijana, I. G. K. N., Wahyuniari, I. A. I., & Wiryawan, I. G. N. S. (2022). Potensi Senyawa Fitokimia pada Tumbuhan dalam Menurunkan Kadar Glukosa Darah pada Diabetes Melitus. *Jurnal Sains Dan Kesehatan*, 4(5), 548–556. <https://doi.org/10.25026/jsk.v4i5.1259>
- Chaudhary, R., Kumar, A., & Sinha, R. B. (2018). *Assessment of serum magnesium in overweight children at a tertiary care hospital of Bihar*. 159–161.
- Christianto, D. A. (2018). Hubungan Aktivitas Fisik Terhadap Kejadian Obesitas Berdasarkan Indeks Massa Tubuh Di Desa Banjaroyo. *Berkala Ilmiah Kedokteran Duta Wacana*, 3(2), 78. <https://doi.org/10.21460/bikdw.v3i2.97>
- Chu, N., Chan, T. Y., Chu, Y. K., Ling, J., He, J., Leung, K., Ma, R. C. W., Chan, J. C. N., & Chow, E. (2023). Higher dietary magnesium and potassium intake are associated with lower body fat in people with impaired glucose tolerance. *Frontiers in Nutrition*, 10(April), 1–8. <https://doi.org/10.3389/fnut.2023.1169705>
- Colozza, P. (2019). Colozza, David. Padmita, Astrid Citra. (2018) Analisis Lanskap Kelebihan Berat Badan & Obesitas di Indonesia. UINCEF Indonesia. 01 Desember 2022, 1–134.
- Curran, F., Davis, M. E., Murphy, K., Tersigni, N., King, A., Ngo, N., & O'Donoghue, G. (2023). Correlates of physical activity and sedentary behavior in adults living with overweight and obesity: A systematic review. *Obesity Reviews*, 24(11). <https://doi.org/10.1111/obr.13615>
- Curry, J. N., & Yu, A. S. L. (2018). Magnesium Handling in the Kidney. *Advances in Chronic Kidney Disease*, 25(3), 236–243. <https://doi.org/10.1053/j.ackd.2018.01.003>
- De Baaij, J. H. F., Hoenderop, J. G. J., & Bindels, R. J. M. (2012). Regulation of magnesium balance: Lessons learned from human genetic disease. *CKJ: Clinical Kidney Journal*, 5(SUPPL. 1). <https://doi.org/10.1093/ndtplus/sfr164>
- Dewi, P. A. C., Andayani, N. W. R., & Pratiwi, N. M. S. (2022). Hubungan Aktivitas Fisik

- Dengan Kadar GDS Pada Penderita DM Tipe II. *Mutiara Ners*, 5(2), 19–26.
- Diana, R., Yuliana, I., Yasmin, G., & Hardinsyah, H. (2013). Faktor Risiko Kegemukan Pada Wanita Dewasa Indonesia. *Jurnal Gizi Dan Pangan*, 8(1), 1. <https://doi.org/10.25182/jgp.2013.8.1.1-8>
- Dinicolantonio, J. J., Liu, J., & O'Keefe, J. H. (2018). Magnesium for the prevention and treatment of cardiovascular disease. *Open Heart*, 5(2), 1–10. <https://doi.org/10.1136/openhrt-2018-000775>
- DiNicolantonio, J. J., O'Keefe, J. H., & Wilson, W. (2018). Subclinical magnesium deficiency: A principal driver of cardiovascular disease and a public health crisis. *Open Heart*, 5(1). <https://doi.org/10.1136/openhrt-2017-000668>
- Dipietro, L., Zhang, Y., Mavredes, M., Simmens, S. J., Jessica, A., Hayman, L. L., Faro, J., Malin, S. K., Winston, G., & Melissa, A. (2021). *Physical Activity and Cardiometabolic Risk Factor Clustering in Young Adults with Obesity*. 52(5), 1050–1056. <https://doi.org/10.1249/MSS.0000000000002214>. Physical
- Djakani, H., Masinem, T., & Mewo, Y. M. . (2013). Gambaran Kadar Gula Darah Puasa Pada Laki- Laki Usia 40-59 Tahun. *Jurnal E-Biomedik*, 1(1). <https://doi.org/10.35790/ebm.1.1.2013.1165>
- Dominguez, L. J., Gea, A., Ruiz-Estigarribia, L., Sayón-Orea, C., Fresán, U., Barbagallo, M., Ruiz-Canela, M., & Martínez-González, M. A. (2021). Low dietary magnesium and overweight/obesity in a mediterranean population: A detrimental synergy for the development of hypertension. The SUN project. *Nutrients*, 13(1), 1–17. <https://doi.org/10.3390/nu13010125>
- Dwimaswasti, O. (2013). *referensi nilai METS*. 1–54.
- Elder, B. L., Ammar, E. M., & Pile, D. (2016). Sleep Duration, Activity Levels, and Measures of Obesity in Adults. *Public Health Nursing*, 33(3), 200–205. <https://doi.org/10.1111/phn.12230>
- Elin, R. J. (2016). Assessment of magnesium status for diagnosis and therapy. *Magnesium Research*, 23(4), 194–198. <https://doi.org/10.1684/mrh.2010.0213>
- Fahmi, N. F., Firdaus, N., & Putri, N. (2020). Pengaruh Waktu Penundaan Terhadap Kadar Glukosa Darah Sewaktu Dengan Metode Poct Pada Mahasiswa. *Ilmiah Ilmu Keperawatan*, 11(2), 1–11.
- Fauzy, A. (2019). Metode Sampling. In *Universitas Terbuka* (Vol. 9, Issue 1). <http://jurnal.globalhealthsciencegroup.com>
- Fiorentini, D., Cappadone, C., Farruggia, G., & Prata, C. (2021). Impact of Diseases Linked to Its Deficiency. *Journals of Nutrient*, 13(1136), 1–44.
- Firtanto, A. D., & Maksum, A. (2022). Pola Aktivitas Fisik Siswa SMP Pada Masa Pandemi COVID-19. *Jurnal Pendidikan Olahraga Dan Kesehatan*, 10, 91–95. <https://ejournal.unesa.ac.id/index.php/jurnal-pendidikan-jasmani/issue/archivehttps://ejournal.unesa.ac.id/index.php/jurnal-pendidikan-jasmani>
- Fitriani, F., & Sanghati, S. (2021). *Literature Review Intervensi Gaya Hidup Terhadap Pencegahan Diabetes Melitus Tipe 2 Pada Pasien Pra Diabetes*. 10, 704–714. <https://doi.org/10.35816/jiskh.v10i2.682>
- Fulton, J. E. (2022). *The Physical Activity Guidelines for Americans*. - PubMed - NCBI. 320(19), 2020–2028. <https://doi.org/10.1001/jama.2018.14854>. The
- Gabriele Piuri et al. (2021). Magnesium in Obesity, Metabolic Syndrome, and Type 2 Diabetes. *Physical Activity and Health: The Evidence Explained: Third Edition*, 2, 160–195. <https://doi.org/10.1097/01.nme.0000410250.49867.21>
- Gadde, K. M., Martin, C. K., Berthoud, H. R., & Heymsfield, S. B. (2018). Obesity: Pathophysiology and Management. *Journal of the American College of Cardiology*, 71(1), 69–84. <https://doi.org/10.1016/j.jacc.2017.11.011>
- García-Fernández, J., González-López, J. R., Vilches-Arenas, Á., & Lomas-Campos,

- M. de las M. (2019). Determinants of physical activity performed by young adults. *International Journal of Environmental Research and Public Health*, 16(21). <https://doi.org/10.3390/ijerph16214061>
- Gede, L., Yenny, S., & Suastika, K. (2011). Korelasi Antara Kadar Magnesium Dengan Resistensi Insulin pada Penduduk Suku Bali di Desa Pandawa Kabupaten Buleleng. *J Penyakit Dalam*, 12, 155–168.
- Gommers, L. M. M., Hoenderop, J. G. J., Bindels, R. J. M., & De Baaij, J. H. F. (2016). Hypomagnesemia in type 2 diabetes: A vicious circle? *Diabetes*, 65(1), 3–13. <https://doi.org/10.2337/db15-1028>
- Guerrera, M. ., Volpe, S. ., & Mao, J. . (2009). Therapeutic Uses of Magnesium - American Family Physician. *American Family Physician*, 80(2), 157–162. <http://www.aafp.org/afp/2009/0715/p157.html>
- Hamrik, Z., Sigmundová, D., Kalman, M., Pavelka, J., & Sigmund, E. (2014). Physical activity and sedentary behaviour in Czech adults: Results from the GPAQ study. *European Journal of Sport Science*, 14(2), 193–198. <https://doi.org/10.1080/17461391.2013.822565>
- Han, H. S., Kang, G., Kim, J. S., Choi, B. H., & Koo, S. H. (2016). Regulation of glucose metabolism from a liver-centric perspective. *Experimental and Molecular Medicine*, 48(3), e218-10. <https://doi.org/10.1038/emm.2015.122>
- Hardinsyah, Riyadi H, N. V. (2012). Kecukupan energi, protein, lemak dan karbohidrat. Makalah WKNPG. *Fakultas Kedokteran Universitas Indonesia*, 2004(May), 1–27.
- Harlan, J., & Sutjiati, R. (2018). Buku Metodologi Penelitian Kesehatan. In *Metodologi Penelitian Kesehatan* (Vol. 44, Issue 8).
- Haskell, W. L., Lee, I. M., Pate, R. R., Powell, K. E., Blair, S. N., Franklin, B. A., MacEra, C. A., Heath, G. W., Thompson, P. D., & Bauman, A. (2017). Physical activity and public health: Updated recommendation for adults from the American College of Sports Medicine and the American Heart Association. *Medicine and Science in Sports and Exercise*, 39(8), 1423–1434. <https://doi.org/10.1249/mss.0b013e3180616b27>
- Hassan, S. A. ul, Ahmed, I., Nasrullah, A., Haq, S., Ghazanfar, H., Sheikh, A. B., Zafar, R., Askar, G., Hamid, Z., Khushdil, A., & Khan, A. (2017). Comparison of Serum Magnesium Levels in Overweight and Obese Children and Normal Weight Children. *Cureus*, 9(8). <https://doi.org/10.7759/cureus.1607>
- Herwanto, M. E., Lintong, F., & Rumampuk, J. F. (2016). Pengaruh aktivitas fisik terhadap kadar gula darah pada pria dewasa. *Jurnal E-Biomedik*, 4(1), 0–5. <https://doi.org/10.35790/ebm.4.1.2016.10859>
- Hruby, A., Meigs, J. B., O'Donnell, C. J., Jacques, P. F., & McKeown, N. M. (2014). Higher magnesium intake reduces risk of impaired glucose and insulin metabolism and progression from prediabetes to diabetes in middle-aged americans. *Diabetes Care*, 37(2), 419–427. <https://doi.org/10.2337/dc13-1397>
- Hufadz, M. I. (2016). *Pengaruh Indeks Masa Tubuh, Persen Lemak Tubuh, Aktivitas Fisik, Terhadap Kebugaran Jasmani Siswa Smp Negeri 3 Bandar Lampung*. 1–23.
- Irfan Khakim, M., Brahma Adiputra, F., & Martha Indria, D. (2022). Hubungan Usia, Pendidikan Terakhir, Pekerjaan dan Jenis Kelamin dengan Aktivitas Fisik dan Pola Hidup Sedenter Usia Dewasa di Kota Malang. *Jurnal Bio Komplementer Medicine*, 9(1), 1–6. <https://jim.unisma.ac.id/index.php/jbm/article/view/14902>
- Iswati, I. (2019). Karakteristik Ideal Sikap Religiusitas Pada Masa Dewasa. *At-Tajdid : Jurnal Pendidikan Dan Pemikiran Islam*, 2(01), 58–71. <https://doi.org/10.24127/att.v2i01.859>
- Jahnen-dechent, W., & Ketteler, M. (2015). *Magnesium basics*. March 2012. <https://doi.org/10.1093/ndtplus/sfr163>
- Jebeile, H., Kelly, A. S., O'Malley, G., & Baur, L. A. (2022). Obesity in children and

- adolescents: epidemiology, causes, assessment, and management. *The Lancet Diabetes and Endocrinology*, 10(5), 351–365. [https://doi.org/10.1016/S2213-8587\(22\)00047-X](https://doi.org/10.1016/S2213-8587(22)00047-X)
- Karolus Siregar, H., Butar Butar, S., Maria Pangaribuan, S., Wahyuni Siregar, S., Batubara, K., Perawatan PGI Cikini, A. R., & Raden Saleh, J. (2023). Hubungan Aktivitas Fisik Dengan Kadar Glukosa Darah Pada Pasien Diabetes Mellitus di Ruang Penyakit Dalam RSUD Koja Jakarta. *Jl. Bunga Ncole Raya*, 4(1), 32–39. <https://jurnal.akperss cikini.ac.id/index.php/JKC>
- Kemendes. (2014). *Peraturan Menteri Kesehatan Republik Indonesia No 41 Tahun 2014*. 1–96.
- Kemendes. (2023a). KMK RI No HK.01.7/Mendes/2015/2023/ tentang Petunjuk Teknis Integrasi Pelayanan Kesehatan Primer. *Kemendes RI*, 1–19. [http://www.scopus.com/inward/record.url?eid=2-s2.0-84865607390&partnerID=tZOtx3y1%0Ahttp://books.google.com/books?hl=en&mp;lr=&id=2LIMMD9FVXkC&oi=fnd&pg=PR5&dq=Principles+of+Digital+Image+Processing+fundamental+techniques&ots=HjrHeuS\\_](http://www.scopus.com/inward/record.url?eid=2-s2.0-84865607390&partnerID=tZOtx3y1%0Ahttp://books.google.com/books?hl=en&mp;lr=&id=2LIMMD9FVXkC&oi=fnd&pg=PR5&dq=Principles+of+Digital+Image+Processing+fundamental+techniques&ots=HjrHeuS_)
- Kemendes. (2023b). *Survei Kesehatan Indonesia. 01*, 1–68.
- Kemendes RI. (2019). *kemendes nilai GDS.pdf*.
- Kementerian Kesehatan RI. (2018). *Profil Kesehatan Indonesia 2017* (Vol. 1227, Issue July). <https://doi.org/10.1002/qj>
- Kementerian Kesehatan. (2013). *Laporan Riset Kesehatan Dasar. 127(3309)*, 1275–1279. <https://doi.org/10.1126/science.127.3309.1275>
- Kementerian Kesehatan. (2018). *Laporan Riskesdas 2018 Nasional.pdf*. In *Lembaga Penerbit Balitbangkes*.
- Khasanah, R., Navilatun, A., & Wahyudi, A. (2019). Perodesasi Perkembangan Dewasa Akhir. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699.
- Komariah, K., & Rahayu, S. (2020). Hubungan Usia, Jenis Kelamin Dan Indeks Massa Tubuh Dengan Kadar Gula Darah Puasa Pada Pasien Diabetes Mellitus Tipe 2 Di Klinik Pratama Rawat Jalan Proklamasi, Depok, Jawa Barat. *Jurnal Kesehatan Kusuma Husada, Dm*, 41–50. <https://doi.org/10.34035/jk.v11i1.412>
- Kostov, K. (2019). Effects of magnesium deficiency on mechanisms of insulin resistance in type 2 diabetes: Focusing on the processes of insulin secretion and signaling. *International Journal of Molecular Sciences*, 20(6). <https://doi.org/10.3390/ijms20061351>
- Kusteviani, F. (2015). Faktor yang berhubungan dengan obesitas abdominal. *Jurnal Berkala Epidemiologi*, 3(1), 45–56.
- Lazzarin, T., Garcia, L. R., Martins, D., Queiroz, D. A. R., Tonon, C. R., Balin, P. da S., Polegato, B. F., Paiva, S. A. R. de, Azevedo, P. S., Minicucci, M., & Zornoff, L. (2022). Role of Nutrients and Foods in Attenuation of Cardiac Remodeling through Oxidative Stress Pathways. *Antioxidants*, 11(10), 1–16. <https://doi.org/10.3390/antiox11102064>
- Lemamsha, H., Randhawa, G., & Papadopoulos, C. (2019). Prevalence of overweight and obesity among Libyan men and women. *BioMed Research International*, 2019. <https://doi.org/10.1155/2019/8531360>
- Lin, X., & Li, H. (2021). Obesity: Epidemiology, Pathophysiology, and Therapeutics. *Frontiers in Endocrinology*, 12(September), 1–9. <https://doi.org/10.3389/fendo.2021.706978>
- Linder, S., Abu-Omar, K., Geidl, W., Messing, S., Sarshar, M., Reimers, A. K., & Ziemainz, H. (2021). Physical inactivity in healthy, obese, and diabetic adults in Germany: An analysis of related socio-demographic variables. *PLoS ONE*, 16(2 February), 1–14. <https://doi.org/10.1371/journal.pone.0246634>
- Lu, L., Chen, C., Yang, K., Zhu, J., Xun, P., James, M., He, K., Program, F., Sciences,

- C., & Marcos, S. (2021). *Magnesium intake is inversely associated with risk of obesity in a 30-year prospective follow-up study among American young adults*. 59(8), 3745–3753. <https://doi.org/10.1007/s00394-020-02206-3>. Magnesium
- Luh, N., Candra, P., Putu, K. P., Sugiani, S., & Wiardani, N. K. (2019). *Hubungan Pengetahuan Carbohydrate Counting dan Asupan Karbohidrat Dengan Pengendalian Kadar Gula Darah Pada Penderita Diabetes Melitus di Puskesmas II Denpasar Timur*. 13(2), 5–14.
- Mahebdiri. (2015). *Hubungan Antara Konsumsi Karbohidrat Dan Kolesterol*. 1–40.
- Mao, H. Y., Hsu, H. C., & Lee, S. Da. (2020). Gender differences in related influential factors of regular exercise behavior among people in Taiwan in 2007: A cross-sectional study. *PLoS ONE*, 15(1), 1–13. <https://doi.org/10.1371/journal.pone.0228191>
- Margie E. Lachman, et al. (2018). When Adults Don't Exercise: Behavioral Strategies to Increase Physical Activity in Sedentary Middle-Aged and Older Adults. *Physiology & Behavior*, 176(1), 139–148. <https://doi.org/10.1093/geroni/igy007>. When
- Masrul, M. (2018). Epidemio obesitas dan dampaknya terhadap status kesehatan masyarakat serta sosial ekonomi bangsa. *Majalah Kedokteran Andalas*, 41(3), 152. <https://doi.org/10.25077/mka.v41.i3.p152-162.2018>
- Melkonian, E. A., Asuka, E., & Schury, M. P. (2025). *Physiology , Gluconeogenesis*. 4–8.
- Micha, R. (2017). Dietary Magnesium Intake is Inversely Associated with Serum Creactive Protein Levels: Meta-analysis and Systematic Review. *Physiology & Behavior*, 176(1), 100–106. <https://doi.org/10.1177/0022146515594631>. Marriage
- Monitoring, M. A., & Dewi, I. (2024). *PENINGKATAN KADAR GULA DARAH PADA PENDERITA DIABETES MELITUS TIPE 2*. 4, 17–23.
- Morais, J. B. S., Severo, J. S., Santos, L. R. dos, de Sousa Melo, S. R., de Oliveira Santos, R., de Oliveira, A. R. S., Cruz, K. J. C., & do Nascimento Marreiro, D. (2017). Role of Magnesium in Oxidative Stress in Individuals with Obesity. *Biological Trace Element Research*, 176(1), 20–26. <https://doi.org/10.1007/s12011-016-0793-1>
- Nora, P., Gultom, N., Harahap, F., Edi, S., & Sipahutar, H. (2025). *Hubungan Antara Jenis Kelamin dan Usia pada Penyakit Diabetes Melitus di Puskemas Kota Medan Tahun 2024-2025*. 14(1), 142–150. <https://doi.org/10.56013/bio.v14i1.3960>
- Noritha, A. H., & Elon, Y. (2022). Hubungan Aktivitas Fisik Dengan Kadar Glukosa Darah Puasa Pada Wanita Dengan Lingkar Pinggang Di Atas 80 cm. *JUMANTIK (Jurnal Ilmiah Penelitian Kesehatan)*, 7(3), 217. <https://doi.org/10.30829/jumantik.v7i3.11450>
- Notoatmodjo. (2017). Desain penelitian, Metodologi Penelitian Kuantitatif. *Paper Knowledge . Toward a Media History of Documents*, 12–26.
- Nugroho, P. S., & Sari, Y. (2020). HubunganTingkat Pendidikan dan Usiadengan Kejadian Hipertensi di Wilayah Kerja Puskesmas Palaran Tahun 2019. *Jurnal Dunia Kesmas*, 8(4), 1–5. <https://doi.org/10.33024/jdk.v8i4.2261>
- Nugroho PS. (2020). Jenis Kelamin dan Umur Berisiko terhadap Obesitas pada Remaja di Indonesia Sex and Age Risk Which Affecting to Obesity on Adolescent in Indonesia. *Jurnal Kesehatan Masyarakat*, 7(2), 110–114. <https://ojs.uniska-bjm.ac.id/index.php/ANN/article/view/3581>
- Oktavia, S., Budiarti, E., Marsa, F., Rahayu, D., & Setiaji, B. (2024). Faktor-Faktor Sosial Demografi Yang Berhubungan Dengan Kejadian Diabetes Melitus Tipe 2. *Jurnal Ilmiah Permas: Jurnal Ilmiah STIKES Kendal*, 14(3), 75–82. <https://journal2.stikeskendal.ac.id/index.php/PSKM/article/view/1979/1260>
- Perkeni. (2019). Pengelolaan Dan Pencegahan Diabetes Melitus Tipe 2 Dewasa di

- Indonesia. *PB Perkeni*, 133.
- Perkeni. (2021). Pedoman Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 Dewasa di Indonesia 2021. *Global Initiative for Asthma*, 46. [www.ginasthma.org](http://www.ginasthma.org).
- Pitasari, Didi Damayanti, N. T. L. (2008). *Gizi Dalam Daur Kehidupan*.
- Polii, R. C., Kepel, B. J., Bodhi, W., & Manampiring, A. E. (2016). Hubungan kadar glukosa darah puasa dengan obesitas pada remaja di Kecamatan Bolangitang Barat Kabupaten Bolaang Mongondow Utara. *Jurnal E-Biomedik*, 4(2), 2–7. <https://doi.org/10.35790/ebm.4.2.2016.14617>
- Purwaningrum, S., & Wardani, Y. (2013). Hubungan Antara Asupan Makanan Dan Status Kesadaran Gizi Keluarga Dengan Status Gizi Balita Di Wilayah Kerja Puskesmas Sewon I, Bantul. *Jurnal Kesehatan Masyarakat (Journal of Public Health)*, 6(3). <https://doi.org/10.12928/kesmas.v6i3.1054>
- Puspitasari, N. (2021). FAKTOR KEJADIAN OBESITAS SENTRAL PADA USIA DEWASA. *Higeia Journal of Public Health Research and Development*, 5(3), 227–238.
- Putri, A. F. (2018). Pentingnya Orang Dewasa Awal Menyelesaikan Tugas Perkembangannya. *SCHOULID: Indonesian Journal of School Counseling*, 3(2), 35. <https://doi.org/10.23916/08430011>
- Rabbi, K., Jafar, N., Bahar, B., Citrakesumasari, & Hidayanty, H. (2022). Hubungan Gaya Hidup Dengan Glukosa Darah Pada Pegawai Obesitas di Universitas Hasanudin The Relationship of Lifestyle with Blood Glukose In. *The Journal of Indonesian Community Nutrition*, 12(1), 38–48.
- Rah, J. H., Melse-Boonstra, A., Agustina, R., van Zutphen, K. G., & Kraemer, K. (2021). The Triple Burden of Malnutrition Among Adolescents in Indonesia. *Food and Nutrition Bulletin*, 42(1\_suppl), S4–S8. <https://doi.org/10.1177/03795721211007114>
- Rahman, A. D. N. (2020). *Gambaran Persentase Lemak Tubuh Pada Mahasiswa Fakultas Keperawatan Di Universitas Hasanuddin*. 2507(February), 1–9.
- Rahmawati. (2019). POLA MAKAN DAN AKTIVITAS FISIK DENGAN KADAR GLUKOSA DARAH PENDERITA DIABETES MELLITUS TIPE 2 RAWAT JALAN DI RSUP Dr . WAHIDIN SUDIROHUSODO MAKASSAR DIETARY PATTERN AND PHYSICAL ACTIVITY . WITH SERUM GLUCOSE LEVEL OF DIABETES MELLITUS TYPE 2 OUTPATIENT OF. *Media Gizi Masyarakat Indonesia*, 1(1), 52–58.
- Raniya Suha, G., & Amira, R. (2022). Faktor-faktor yang berhubungan dengan kejadian obesitas pada remaja umur 13–15 tahun di Indonesia (analisis lanjut data Riskesdas 2018). *Ilmu Gizi Indonesia*, 6(1), 43–56.
- Rianti, K. A. (2015). *HUBUNGAN AKTIVITAS FISIK DENGAN KEJADIAN OBESITAS PADA ANAK USIA SEKOLAH DI SDN BARU 05 PAGI JAKARTA TIMUR*.
- Rizky Rohmatulloh, V., Riskiyah, Pardjianto, B., & Sekar Kinasih, L. (2024). Hubungan Usia dan Jenis Kelamin Terhadap Angka Kejadian Diabetes Melitus Tipe 2 Berdasarkan 4 Kriteria Diagnosis Di Poliklinik Penyakit Dalam RSUD Karsa Husada Kota Batu. *Jurnal Kesehatan Masyarakat*, 8(1), 2528–2543.
- Robert K Murray. (2009). *Biokimia Harper*.
- Rosalind S. Gibson. (2005). *471805879-Rosalind-S-Gibson-Principles-of-Nutritional-Assessment-Oxford-University-Press-2005-pdf.pdf*.
- Rudi, A., & Kruweh, H. N. (2019). Faktor Risiko yang Mempengaruhi Kadar Gula Darah Puasa Pada Pengguna Layanan Laboratorium. *Wawasan Kesehatan*, 3(2), 33–39.
- Saltiel, A. R., & Olefsky, J. M. (2017). Inflammatory linking obesity and metabolic disease and metabolic disease. *Journal of Clinical Investigation*, 127(1), 1–4. <https://doi.org/10.1172/JC192035.systems>.

- Sarrafzadegan, N., Khosravi-Boroujeni, H., Lotfizadeh, M., Pourmogaddas, A., & Salehi-Abargouei, A. (2016). Magnesium status and the metabolic syndrome: A systematic review and meta-analysis. *Nutrition*, 32(4), 409–417. <https://doi.org/10.1016/j.nut.2015.09.014>
- Seo, J. W., & Park, J. (2008). *Metabolisme Magnesium*. 86–95.
- Septianingrum, E., Liyanan, L., & Kusbiantoro, B. (2016). Review Indeks Glikemik Beras: Faktor-Faktor Yang Mempengaruhi Dan Keterkaitannya Terhadap Kesehatan Tubuh. *Jurnal Kesehatan*, 9(1), 1. <https://doi.org/10.23917/jurkes.v9i1.3434>
- Septika Sari, Agrina, R. W. (2012). *Hubungan Tingkat Pengetahuan Mahasiswa Tentang Fast Food Terhadap Motivasi Mahasiswa Dalam Mengonsumsi Makanan Fast Food*. 1–10.
- Setiawati, D., Nuhriawangsa, A., & Wasita, B. (2019). Hubungan Magnesium Serum Dengan Kadar Glukosa Darah Pada Dewasa Overweight Dan Obesitas. *Amerta Nutrition*, 3(4), 239. <https://doi.org/10.20473/amnt.v3i4.2019.239-246>
- Setyawati, R. (2021). Gambaran Kadar Glukosa pada Penderita Obesitas. *Jurnal Health Sains*, 2(11), 1479–1482. <https://doi.org/10.46799/jhs.v2i11.336>
- Siburian, Y. N. (2019). Korelasi Lingkar Pinggang Dengan Tekanan Darah Pada Remaja Di Smp Negeri 1 Labuhan Deli Tahun 2018. *Universitas Nusantara PGRI Kediri, 01*, 1–7.
- Siddiq, A., Rahani, B., Tamba, E., & Korespondensi, A. (2016). Gambaran Kejadian Obesitas dan Faktor-Faktor yang Memengaruhi pada Usia di Atas 40 Tahun di Kelurahan Tanjung Duren Jakarta Tahun 2016 Description of Adult Obesity and Its Affecting Factors in Kelurahan Tanjung Duren , West Jakarta. *Artikel Penelitian*, 44, 1–9.
- Singh, A., & Purohit, B. (2011). Evaluation of Global Physical Activity Questionnaire (GPAQ) among Healthy and Obese Health Professionals in Central India. *Baltic Journal of Health and Physical Activity*, 3(1), 34–43. <https://doi.org/10.2478/v10131-011-0004-6>
- Sugianti, E., . H., & Afriansyah, N. (2014). FAKTOR RISIKO OBESITAS SENTRAL PADA ORANG DEWASA DI DKI JAKARTA: Analisis Lanjut Data RISKESDAS 2007. *Gizi Indonesia*, 32(2). <https://doi.org/10.36457/gizindo.v32i2.73>
- Suharno, J. A., & Nisa, H. (2024). *Hubungan Indeks Massa Tubuh dan Lingkar Perut dengan Diabetes Melitus pada Orang Dewasa di Indonesia : Hasil Analisis Data Riskesdas 2018*. 26(1), 1–10. <https://doi.org/10.29238/jnutri.v26i1.382>
- Supriatiningrum, D. N. (2021). FAKTOR RESIKO WANITA OBESITAS PADA STATUS SOSIAL EKONOMI MENENGAH KE BAWAH. 2(April), 1–23.
- Sutrio. (2017). *Status Gizi Siswa Sekolah Menengah Atas Global Madani Kota Bandar Lampung Tahun 2016*. 11(1), 1–4.
- Syafitri, D., Berawi, K. N., & Warganegara, E. (2022). Pengaruh Aktivitas Fisik Intensitas Sedang terhadap Penurunan Kadar Glukosa Darah Sewaktu pada Laki-Laki Obesitas. *JUMANTIK (Jurnal Ilmiah Penelitian Kesehatan)*, 7(1), 1. <https://doi.org/10.30829/jumantik.v7i1.10170>
- Syahda, Y. O. (2019). *Hubungan Pola Konsumsi Lemak Dengan Kadar Glukosa Darah Pada Pasien Diabetes Melitus Tipe Ii Di Wilayah Kerja Puskesmas Alai Padang Tahun 2019*.
- Syahrizal, J. R. T. dan. (2021). Obesitas Sentral dengan Kejadian Hiperglikemia pada Pegawai Satuan Kerja Perangkat Daerah. *Higeia Journal of Public Health Research and Development*, 5(3), 227–238.
- Syifa, E. D. A., & Djuwita, R. (2023). Factors Associated with Overweight/Obesity in Adolescent High School Students in Pekanbaru City. *Jurnal Kesehatan Komunitas*, 9(2), 368–378. <https://doi.org/10.25311/keskom.vol9.iss2.1579>

- Tarleton, E. K. (2018). Factors influencing magnesium consumption among adults in the United States. *Nutrition Reviews*, 76(7), 526–538. <https://doi.org/10.1093/nutrit/nuy002>
- Thahir, A. (2018). Psikologi Perkembangan. *Aura Publishing*, 1–260.
- Tham, K. W., Abdul Ghani, R., Cua, S. C., Deerochanawong, C., Fojas, M., Hocking, S., Lee, J., Nam, T. Q., Pathan, F., Saboo, B., Soegondo, S., Somasundaram, N., Yong, A. M. L., Ashkenas, J., Webster, N., & Oldfield, B. (2023). Obesity in South and Southeast Asia—A new consensus on care and management. *Obesity Reviews*, 24(2). <https://doi.org/10.1111/obr.13520>
- Tucker, J. M., Welk, G. J., & Beyler, N. K. (2011). Physical activity in U.S. adults: Compliance with the physical activity guidelines for Americans. *American Journal of Preventive Medicine*, 40(4), 454–461. <https://doi.org/10.1016/j.amepre.2010.12.016>
- Wardiah, W., & Emilia, E. (2018). Faktor Risiko Diabetes Mellitus Pada Wanita Usia Reproduksi di Wilayah Kerja Puskesmas Langsa Lama Kota Langsa, Aceh. *Jurnal Kesehatan Global*, 1(3), 119. <https://doi.org/10.33085/jkg.v1i3.3975>
- WHO. (2012). Global Physical Activity Questionnaire (GPAQ) Analysis Guide. Geneva: *World Health Organization*, 1–22. [http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:Global+Physical+Activity+Questionnaire+\(GPAQ\)+Analysis+Guide#1](http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:Global+Physical+Activity+Questionnaire+(GPAQ)+Analysis+Guide#1)
- WHO. (2018). Global Action Plan on Physical Activity 2018 - 2030. In *Journal of Policy Modeling* (Vol. 28, Issue 6). <https://doi.org/10.1016/j.jpolmod.2006.06.007>
- Wijaya, R. B. A., & Muslim, A. (2021). Konsep Diri Pada Masa Dewasa Awal yang Mengalami Maladaptive Daydreaming. *Jurnal Psikologi Islam: Al-Qalb*, 12(2), 179–193.
- Workinger, J. L., Doyle, R. P., & Bortz, J. (2018). *Challenges in the Diagnosis of Magnesium Status*. 1–23. <https://doi.org/10.3390/nu10091202>
- World Health Organization. (2015). a Vital Investment. *World Health*, 202.
- Yang, N., He, L., Li, Y., Xu, L., Ping, F., Li, W., & Zhang, H. (2020). Reduced insulin resistance partly mediated the association of high dietary magnesium intake with less metabolic syndrome in a large chinese population. *Diabetes, Metabolic Syndrome and Obesity*, 13, 2541–2550. <https://doi.org/10.2147/DMSO.S257884>
- Yaumil Khair, Asrini Safitri, Daeng Kanang, I. L., Latief, S., & Rasfayanah. (2023). Hubungan Obesitas Dengan Kadar Gula Darah Pada Mahasiswa Fakultas Kedokteran Universitas Muslim Indonesia. *Fakumi Medical Journal: Jurnal Mahasiswa Kedokteran*, 3(6), 437–443. <https://doi.org/10.33096/fmj.v3i6.247>
- Yolanda, R. G., Afrinis, N., & Gustiana, E. (2023). HUBUNGAN IMT DAN AKTIVITAS FISIK DENGAN KADAR GULA DARAH PADA PENDERITA DIABETES. 2(3), 330–338.
- Yoli Farradika, Yuyun Umniyatun, Mochamad Iqbal Nurmansyah, M. J. (2019). *Perilaku Aktivitas Fisik dan Determinannya pada Mahasiswa Fakultas Ilmu - Ilmu Kesehatan Universitas Muhammadiyah Prof . Dr . Hamka The Behavior of Physical Activity and Determinants of Student at Faculty Health Science , University of Muhammadiyah*. 4, 134–142.
- Zaakouk, A. M., Hassan, M. A., & Tolba, O. A. (2016). Serum magnesium status among obese children and adolescents. *Egyptian Pediatric Association Gazette*, 64(1), 32–37. <https://doi.org/10.1016/j.epag.2015.11.002>