

DAFTAR PUSTAKA

1. WHO. Obesity and overweight. 2024 [cited 2024 May 21]; Available from: <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight>
2. Sherwood L. Fisiologi Manusia Edisi 8. EGC. 2016.
3. Septiyanti S, Seniwati S. Obesity and Central Obesity in Indonesian Urban Communities. *Jurnal Ilmiah Kesehatan* [Internet]. 2020 Dec 31 [cited 2024 Dec 26];2(3):118–27. Available from: <https://salnesia.id/jika/article/view/74>
4. Arakaki S, Maeshiro T, Hokama A, Hoshino K, Maruwaka S, Higashiarakawa M, et al. Factors associated with visceral fat accumulation in the general population in Okinawa, Japan. *World J Gastrointest Pharmacol Ther*. 2016;7(2):261.
5. Gotera W, Aristian O, Nugraha IBA, Suastika K, Budhiarta AAG, Saraswati MR, et al. Korelasi Lemak Viseral Sebagai Penanda Obesitas Sentral Pada Pemeriksaan Body Impedance Analysis Dengan Serum Profil Lipid Dan Kadar Gula Puasa. *Udayana In Med*. 2024 Mar 2;8(1).
6. Wong MCS, Huang J, Wang J, Chan PSF, Lok V, Chen X, et al. Global, regional and time-trend prevalence of central obesity: a systematic review and meta-analysis of 13.2 million subjects. *Eur J Epidemiol*. 2020;35(7).
7. Kementerian Kesehatan. Laporan Riset Kesehatan Dasar. 2018;
8. Wijayanti W, Fatimah ZS. Komposisi Lemak Viseral, Basal Metabolic Rate (BMR), Dan Usia Sel Terhadap Indeks Masa Tubuh (IMT) Pada Remaja. *Jurnal Untuk Masyarakat Sehat*. 2021 Apr 1;5(1).
9. Zhang B, He J, Guo P, Wang J, Li C, Zhang L, et al. Ratio of visceral fat area to body fat mass (VBR) is a superior predictor of coronary heart disease. *Chin Med J (Engl)*. 2023 Oct 5;136(19):2380–2.

10. Zhang Y, Somers KR, Becari C, Polonis K, Pfeifer MA, Allen AM, et al. Comparative Expression of Renin-Angiotensin Pathway Proteins in Visceral Versus Subcutaneous Fat. *Front Physiol* [Internet]. 2018 Oct 10;9(OCT):1370. Available from: <https://www.frontiersin.org/article/10.3389/fphys.2018.01370/full>
11. Schleinitz D, Böttcher Y, Blüher M, Kovacs P. The genetics of fat distribution. *Diabetologia* [Internet]. 2014 Jul 16;57(7):1276–86. Available from: <http://link.springer.com/10.1007/s00125-014-3214-z>
12. Hastuti P. *Genetika Obesitas*. Gajah Mada University Press. 2019.
13. Wei BL, Yin RX, Liu CX, Deng GX, Guan YZ, Zheng PF. The MC4R SNPs, their haplotypes and gene-environment interactions on the risk of obesity. *Molecular Medicine*. 2020 Dec 8;26(1):77.
14. Mahmoud R, Kimonis V, Butler MG. Genetics of Obesity in Humans: A Clinical Review. *Int J Mol Sci* [Internet]. 2022 Sep 20;23(19):11005. Available from: <https://www.mdpi.com/1422-0067/23/19/11005>
15. Arieska L, Meutia N. Melanocortin 4 Receptor (MC4R). *AVERROUS: Jurnal Kedokteran dan Kesehatan Malikussaleh*. 2023;9(1).
16. Zarei M, Shiraseb F, Mirzababaei A, Mirzaei K. The interaction between Alternative Healthy Eating Index and MC4R rs17782313 gene variants on central and general obesity indices in women: A cross-sectional study. *Journal of Human Nutrition and Dietetics* [Internet]. 2022 Aug 16;35(4):634–50. Available from: <https://onlinelibrary.wiley.com/doi/10.1111/jhn.13041>
17. Adamska-Patrano E, Goscik J, Czajkowski P, Maliszewska K, Ciborowski M, Golonko A, et al. The MC4R genetic variants are associated with lower visceral fat accumulation and higher postprandial relative increase in carbohydrate utilization in

- humans. *Eur J Nutr* [Internet]. 2019 Oct 3;58(7):2929–41. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/30945034>
18. Haupt A, Thamer C, Heni M, Tschrötter O, Machann J, Schick F, et al. Impact of Variation Near MC4R on Whole-body Fat Distribution, Liver Fat, and Weight Loss. *Obesity*. 2009 Oct 6;17(10):1942–5.
 19. Aras Ş, Üstünsoy S, Armutçu F. Indices of central and peripheral obesity; Anthropometric measurements and laboratory parameters of metabolic syndrome and thyroid function. *Balkan Med J*. 2015 Oct 1;32(4):414–20.
 20. Halim R, Suzan R. Korelasi Masa Lemak Dan Lemak Viseral Dengan Kadar Leptin Serum Pada Remaja Overweight Dan Obesitas. *Jambi Medical Journal*. *Jambi Medical Journal*. 2020 May 1;8(1):102–10.
 21. Lim JU, Lee JH, Kim JS, Hwang Y Il, Kim TH, Lim SY, et al. Comparison of World Health Organization and Asia-Pacific body mass index classifications in COPD patients. *Int J Chron Obstruct Pulmon Dis* [Internet]. 2017 Aug 21;Volume 12:2465–75. Available from: <https://www.dovepress.com/comparison-of-world-health-organization-and-asia-pacific-body-mass-ind-peer-reviewed-article-COPD>
 22. Purnell JQ. Definitions, Classification, and Epidemiology of Obesity [Internet]. Endotext. 2023. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/32127716>
 23. Kuriyan R. Body composition techniques. *Indian J Med Res* [Internet]. 2018 Nov 1;148(5):648–58. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/30666990>
 24. Kementerian Kesehatan RI. Pedoman Umum Pengendalian Obesitas. 2015.

25. Jeon J, Lee S, Oh C. Age-specific risk factors for the prediction of obesity using a machine learning approach. *Front Public Health*. 2022;10:998782.
26. Chesti MS, Gazala S, Rashid T, Sheikh JR. Prevalence and risk factors associated with overweight and obesity in age group between 8 to 19 years in North India, a school based cross-sectional study. *International Journal of Advances in Medicine* [Internet]. 2022 Jan 25;9(2):124. Available from: <https://www.ijmedicine.com/index.php/ijam/article/view/3320>
27. Pujiastuti P. Obesitas dan Penyakit Periodontal. *Stomatogenic - Jurnal Kedokteran Gigi*. 2015 Dec 15;9:82–5.
28. Idris I. Gender differences in the risk of developing obesity related disease can be explained by sex-specific molecular signatures that regulates adipose endothelial cell growth. *Diabetes, Obesity and Metabolism Now* [Internet]. 2023 Mar 4;1(3). Available from: <https://dom-pubs.pericles-prod.literatumonline.com/doi/10.1002/doi2.34>
29. Varghese M, Griffin C, Singer K. The Role of Sex and Sex Hormones in Regulating Obesity-Induced Inflammation. *Adv Exp Med Biol* [Internet]. 2017 Dec 10;1043:65–86. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/29224091>
30. Roberta M, Walter M. Lifestyle, nutrition, and gender. 2020;6(3):152–152.
31. Hastuti P. Obesity and the role of genetic polymorphism: A review of genes as the risk of obesity. *Journal of the Medical Sciences* [Internet]. 2022 May 25;54(2):181–201. Available from: <https://jurnal.ugm.ac.id/bik/article/view/65479>
32. Kumar V, Abbas AK, Aster JC. *Buku Ajar Patologi Dasar Robbins Edisi Ke-10*. Elsevier Inc. 2020.

33. Ćatović A. Dietary Patterns. In: Recent Updates in Eating Disorders [Internet]. IntechOpen; 2023. Available from: <https://www.intechopen.com/chapters/84228>
34. Johnson L, Toumpakari Z, Papadaki A. Social Gradients and Physical Activity Trends in an Obesogenic Dietary Pattern: Cross-Sectional Analysis of the UK National Diet and Nutrition Survey 2008–2014. *Nutrients* [Internet]. 2018 Mar 22;10(4):388. Available from: <https://www.mdpi.com/2072-6643/10/4/388>
35. Karki A, Shrestha A, Subedi N. Prevalence and associated factors of childhood overweight/obesity among primary school children in urban Nepal. *BMC Public Health*. 2019 Dec 6;19(1):1055.
36. Suryadinata RV, Sukarno DA. Pengaruh Aktivitas Fisik Terhadap Risiko Obesitas Pada Usia Dewasa. *The Indonesian Journal of Public Health* [Internet]. 2019 Jul 5;14(1):104. Available from: <https://e-journal.unair.ac.id/IJPH/article/view/7509>
37. Nauli AM, Matin S. Why Do Men Accumulate Abdominal Visceral Fat? *Front Physiol* [Internet]. 2019 Dec 5;10:1486. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/31866877>
38. Moraes D de, Mousoyich-Neto F, Cury SS, Oliveira J, Souza J dos S, Freire PP, et al. The Transcriptomic Landscape of Age-Induced Changes in Human Visceral Fat and the Predicted Omentum-Liver Connectome in Males. *Biomedicines* [Internet]. 2023 May 14;11(5):1446. Available from: <https://www.mdpi.com/2227-9059/11/5/1446>
39. Shuster A, Patlas M, Pinthus JH, Mourtzakis M. The clinical importance of visceral adiposity: a critical review of methods for visceral adipose tissue analysis. *Br J Radiol*. 2012 Jan;85(1009):1–10.
40. OMRON. Omron KaradaScan HBF-375 Instruction Manual : Body composition monitor with scale.

41. Yang LK, Tao YX. Biased signaling at neural melanocortin receptors in regulation of energy homeostasis. *Biochim Biophys Acta Mol Basis Dis* [Internet]. 2017 Oct 1;1863(10 Pt A):2486–95. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28433713>
42. Hainer V, Aldhoon Hainerová I, Kunešová M, Taxová Braunerová R, Zamrazilová H, Bendlová B. Melanocortin pathways: suppressed and stimulated melanocortin-4 receptor (MC4R). *Physiol Res* [Internet]. 2020 Sep 30;69(Suppl 2):S245–54. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/33094623>
43. Mohammed I, Selvaraj S, Ahmed WS, Al-Barazengi T, Hammad AS, Dauleh H, et al. Functional Characterization of Novel MC4R Variants Identified in Two Unrelated Patients with Morbid Obesity in Qatar. *Int J Mol Sci* [Internet]. 2023 Nov 15;24(22):16361. Available from: <https://www.mdpi.com/1422-0067/24/22/16361>
44. GWAS. Gene : MC4R [Internet]. [cited 2024 May 30]. Available from: <https://www.ebi.ac.uk/gwas/genes/MC4R>
45. Hammad MM, Abu-Farha M, Hebbar P, Cherian P, Al Khairi I, Melhem M, et al. MC4R Variant rs17782313 Associates With Increased Levels of DNAJC27, Ghrelin, and Visfatin and Correlates With Obesity and Hypertension in a Kuwaiti Cohort. *Front Endocrinol (Lausanne)* [Internet]. 2020 Jul 7;11:437. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/32733386>
46. Raskiliene A, Smalinskiene A, Kriaucioniene V, Lesauskaite V, Petkeviciene J. Associations of MC4R, LEP, and LEPR Polymorphisms with Obesity-Related Parameters in Childhood and Adulthood. *Genes (Basel)* [Internet]. 2021 Jun 21;12(6):949. Available from: <https://www.mdpi.com/2073-4425/12/6/949>
47. Gallupo B, Mannam P, Trico D, Bale AE, Carpio S, Santoro N. 978-P: Rare Variants in Melanocortin 4 Receptor Gene (MC4R) Are Associated with Increased Visceral Fat and Altered Glucose

- Metabolism Independent of the Effect of Obesity in Children. *Diabetes*. 2022 Jun 1;71.
48. Wang T, Ma X, Peng D, Zhang R, Sun X, Chen M, et al. Effects of Obesity Related Genetic Variations on Visceral and Subcutaneous Fat Distribution in a Chinese Population. *Sci Rep* [Internet]. 2016 Feb 5;6(1):20691. Available from: <https://www.nature.com/articles/srep20691>
 49. Khalilitehrani A, Qorbani M, Hosseini S, Pishva H. The association of MC4R rs17782313 polymorphism with dietary intake in Iranian adults. *Gene*. 2015 Jun 1;563(2):125–9.
 50. Jahan Jhily N, Chandra Shill L, Akter Supti D, Adnan Munim M, Rashid R, Yeasmin R, et al. Association of Genetic Variant in MC4R (rs17782313) Gene with Obesity and Other Health Behaviors among Selected Bangladeshi Population: A Population-based Case-control Study. Available from: <https://doi.org/10.1101/2023.11.14.23298533>
 51. Wang Y, Pan L, He H, Li Z, Cui S, Yang A, et al. Prevalence, associated factors, and gene polymorphisms of obesity in Tibetan adults in Qinghai, China. *BMC Public Health*. 2024 Jan 26;24(1):305.
 52. Kerek R, Al-Achrafi R. Study of the Prevalence of the MC4R Gene Polymorphism as a preventive marker of Obesity and the Metabolic Syndrome in a North Lebanese Population. *Rev Epidemiol Sante Publique*. 2023;71.
 53. KBBI. *Kamus Besar Bahasa Indonesia (KBBI)*. Kementerian Pendidikan Dan Budaya. 2016;
 54. Mozafarizadeh M, Omran SP, Kordestani Z, Dehghan HM, Faridazar A, Houshmand M. Association of obesity-related genetic variants (FTO and MC4R) with breast cancer risk: A population-based case–control study in Iran. *Iran J Biotechnol*. 2019 Sep 1;17(4):25–30.

55. Supriya S Thakur, Aruna Vinchurkar. Assessing Visceral Fat Percentage with Advancing Age in Women using Bioelectric Impedance Analysis. *International Journal For Multidisciplinary Research*. 2024 Sep 15;6(5).
56. Baarts RB, Jensen MR, Hansen OM, Haddock B, Prescott E, Hovind P, et al. Age- and sex-specific changes in visceral fat mass throughout the life-span. *Obesity*. 2023 Jul 13;31(7):1953–61.
57. Farhat D, Khurram Aftab DR, Sohail H, Masood Baig N, Ali Samo A, Ali Laghari Z. Correlation of Visceral Fat with Anthropometric Indices and cardiovascular disease Risk factors. *Esculapio*. 2023 May 13;19(1):29–33.
58. Gadekar T, Dudeja P, Basu I, Vashisht S, Mukherji S. Correlation of visceral body fat with waist–hip ratio, waist circumference and body mass index in healthy adults: A cross sectional study. *Med J Armed Forces India*. 2020 Jan;76(1):41–6.
59. Tajiri N, Acosta S, Glover LE, Bickford PC, Jacotte Simancas A, Yasuhara T, et al. Intravenous Grafts Of Amniotic Fluid-Derived Stem Cells Induce Endogenous Cell Proliferation and Attenuate Behavioral Deficits in Ischemic Stroke Rats. *PLoS One*. 2012 Aug 17;7(8):e43779.
60. Panggabean TN. Analisis Tingkat Optimasi Algoritma Genetika Dalam Hukum Ketetapan Hardy-Weinberg Pada Bin Packing Problem. *Journal Of Computer Engineering, System And Science*. 2016;1(2).
61. Evans DS, Calton MA, Kim MJ, Kwok PY, Miljkovic I, Harris T, et al. Genetic Association Study of Adiposity and Melanocortin-4 Receptor (MC4R) Common Variants: Replication and Functional Characterization of Non-Coding Regions. *PLoS One*. 2014 May 12;9(5):e96805.
62. Maharani C, Puspasari A. Peran Variasi Gen FTO Pada Obesitas. *Jambi Medical Journal*. 2019 Nov;7(2):161–6.

