

## DAFTAR PUSTAKA

- Abedi V, Avula V, Razavi S-M, Bavishi S, Chaudhary D, Shahjouei S, Wang M, Griessenauer CJ, Li J, Zand R. 2021. Predicting short and long-term mortality after acute ischemic stroke using EHR. *J Neurol Sci.* 427:117560. doi:10.1016/j.jns.2021.117560.
- Alanazi EM, Abdou A, Luo J. 2021. Predicting risk of stroke from lab tests using machine learning algorithms: Development and evaluation of prediction models. *JMIR Form Res.* 5(12).doi:10.2196/23440.
- Alkhouli M, Alqahtani F, Tarabishy A, Sandhu G, Rihal CS. 2019. Incidence, Predictors, and Outcomes of Acute Ischemic Stroke Following Percutaneous Coronary Intervention. *JACC Cardiovasc Interv.* 12(15):1497–1506. doi:10.1016/j.jcin.2019.04.015.
- Álvarez-Álvarez B, Raposeiras-Roubín S, Abu-Assi E, Cambeiro-González C, Gestal-Romaní S, López-López A, Bouzas-Cruz N, Castiñeira-Busto M, Saidhodjayeva O, Redondo-Diéguez A, *et al.* 2014. Is 6-month GRACE risk score a useful tool to predict stroke after an acute coronary syndrome? *Open Heart.* 1:123. doi:10.1136/openhrt-2014.
- Andishmand A, Zolfegari E, Namayandah MS, Ghaem HM. 2024. Impact of Chronic Kidney Disease on Major Adverse Cardiac Events in Patients with Acute Myocardial Infarction: A Retrospective Cohort Study. *J Cardiol Cardiovasc Med* 9: 029-034. doi:10.29328/journal.jccm.1001175
- Awasthi N, Gupta S, Kiran A, Pardasani R. 2021. State-of-the-art equipment for rapid and accurate diagnosis of COVID-19. Di dalam: *Biomedical Engineering Tools for Management for Patients with COVID-19.* Elsevier. hlm. 19–40.
- Balakumaran V, Namrata H, Anirudhya, Rathod N. 2020. Analysis of Complications of Acute Coronary Syndrome and Related Outcomes in India. *International Journal of Clinical Cardiology.* 7(4):194.doi:10.23937/2378.
- Berry C. 2017. Stable Coronary Syndromes: The Case for Consolidating the Nomenclature of Stable Ischemic Heart Disease. *Circulation.* 136(5):437–439. doi:10.1161/CIRCULATIONAHA.117.028991.
- Bevan S, Traylor M, Adib-Samii P, Malik R, Paul NLM, Jackson C, Farrall M, Rothwell PM, Sudlow C, Dichgans M, *et al.* 2012. Genetic heritability of ischemic stroke and the contribution of previously reported candidate gene and genomewide associations. *Stroke.* 43(12):3161–3167. doi:10.1161/STROKEAHA.112.665760.
- Caplan LR. 2016. *Caplan's Stroke.* Caplan LR, editor. Cambridge University Press.

- Chamberlain AM, Roger VL, Noseworthy PA, Chen LY, Weston SA, Jiang R, Alonso A. 2022. Identification of Incident Atrial Fibrillation From Electronic Medical Records. *J Am Heart Assoc.* 11(7).doi:10.1161/JAHA.121.023237.
- Chita DS, Tudor A, Christodorescu R, Buleu FN, Sosdean R, Deme SM, Mercea S, Pop Moldovan A, Pah AM, Docu Axelerad A, *et al.* 2020. MTHFR Gene Polymorphisms Prevalence and Cardiovascular Risk Factors Involved in Cardioembolic Stroke Type and Severity. *Brain Sci.* 10(8):476. doi:10.3390/brainsci10080476.
- Chung JW, Park SH, Kim N, Kim WJ, Park JH, Ko Y, Yang MH, Jang MS, Han MK, Jung C, *et al.* 2014. Trial of ORG 10172 in Acute Stroke Treatment (TOAST) Classification and Vascular Territory of Ischemic Stroke Lesions Diagnosed by Diffusion-Weighted Imaging. *J Am Heart Assoc.* 3(4). doi:10.1161/JAHA.114.001119.
- Collet JP, Thiele H, Barbato E, Bauersachs J, Dendale P, Edvardsen T, Gale CP, Jobs A, Lambrinou E, Mehilli J, *et al.* 2021. 2020 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. *Eur Heart J.* 42(14):1289–1367. doi:10.1093/eurheartj/ehaa575.
- Cordero A, Rodriguez-Mañero M, García-Acuña JM, Bertomeu-González V, Agra-Bermejo R, Cid B, Alvarez B, Bertomeu-Martínez V, González-Juanatey JR. 2019. Incidence and Predictors of Stroke in Patients Discharged with the Diagnosis of Acute Coronary Syndrome. *Int J Cardiol.* 276:20–25. doi:10.1016/j.ijcard.2018.10.082.
- Crea F, Libby P. 2017. Acute coronary syndromes: The way forward from mechanisms to precision treatment. *Circulation.* 136(12):1155–1166. doi:10.1161/CIRCULATIONAHA.117.029870.
- Damluji AA, Van Diepen S, Katz JN, Menon V, Tamis-Holland JE, Bakitas M, Cohen MG, Balsam LB, Chikwe J. 2021. Mechanical Complications of Acute Myocardial Infarction: A Scientific Statement from the American Heart Association. *Circulation.* 144(2):E16–E35. doi:10.1161/CIR.0000000000000985.
- Davis LA, Mann A, Cannon GW, Mikuls TR, Reimold AM, Caplan L. 2013. Validation of Diagnostic and Procedural Codes for Identification of Acute Cardiovascular Events in US Veterans with Rheumatoid Arthritis. *eGEMs (Generating Evidence & Methods to improve patient outcomes).* 1(3):8.doi:10.13063/2327-9214.1023.
- Dev S, Wang H, Nwosu CS, Jain N, Veeravalli B, John D. 2022. A predictive analytics approach for stroke prediction using machine learning and neural networks. *Healthcare Analytics.* 2.doi:10.1016/j.health.2022.100032.

- Fatima M, Pasha M. 2017. Survey of Machine Learning Algorithms for Disease Diagnostic. *Journal of Intelligent Learning Systems and Applications*. 09(01):1–16.doi:10.4236/jilsa.2017.91001.
- Feigin VL, Stark BA, Johnson CO, Roth GA, Bisignano C, Abady GG, Abbasifard M, Abbasi-Kangevari M, Abd-Allah F, Abedi V, *et al.* 2021. Global, regional, and national burden of stroke and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurol*. 20(10):1–26.doi:10.1016/S1474-4422(21)00252-0.
- George MG, Tong X, Kuklina E V., Labarthe DR. 2011. Trends in stroke hospitalizations and associated risk factors among children and young adults, 1995–2008. *Ann Neurol*. 70(5):713–721.doi:10.1002/ANA.22539.
- Guerra F, Scappini L, Maolo A, Campo G, Pavasini R, Shkoza M, Capucci A. 2018. CHA2DS2-VASc risk factors as predictors of stroke after acute coronary syndrome: A systematic review and meta-analysis. *Eur Heart J Acute Cardiovasc Care*. 7(3):264–274.doi:10.1177/2048872616673536.
- Head SJ, Milojevic M, Daemen J, Ahn J-M, Boersma E, Christiansen EH, *et al.* 2018. Stroke rates following surgical versus percutaneous coronary revascularization. *J Am Coll Cardiol*. 72:386–398.
- Hernesniemi JA, Mahdiani S, Tynkkynen JA, Lyytikäinen LP, Mishra PP, Lehtimäki T, Eskola M, Nikus K, Antila K, Oksala N. 2019. Extensive phenotype data and machine learning in prediction of mortality in acute coronary syndrome - the MADDEC study. *Ann Med*. 51(2):156–163. doi:10.1080/07853890.2019.1596302.
- Hurskainen M, Tynkkynen J, Eskola M, Hernesniemi J. 2022. Incidence of Stroke and Mortality due to Stroke After Acute Coronary Syndrome. *Journal of Stroke and Cerebrovascular Diseases*. 31(12). doi:10.1016/j.jstrokecerebrovasdis.2022.106842.
- Ibanez B, James S, Agewall S, Antunes MJ, Bucciarelli-Ducci C, Bueno H, Caforio ALP, Crea F, Goudevenos JA, Halvorsen S, *et al.* 2018. 2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation. *Eur Heart J*. 39(2):119–177. doi:10.1093/eurheartj/ehx393.
- Jindal H, Agrawal S, Khera R, Jain R, Nagrath P. 2021. Heart disease prediction using machine learning algorithms. Di dalam: *IOP Conference Series: Materials Science and Engineering*. Vol. 1022. IOP Publishing Ltd.
- Kementerian Kesehatan Republik Indonesia. 2018. Laporan Nasional Riset Kesehatan Dasar. Jakarta: Lembaga Penerbit Badan Penelitian dan Pengembangan Kesehatan.
- Kementerian Kesehatan RI. 2013. Riset Kesehatan Dasar RISKESDAS 2013. Jakarta: Badan Penelitian dan Pengembangan Kesehatan.

- Kirasich K, Smith T, Sadler B. 2018. Random Forest vs Logistic Regression: Binary Classification for Heterogeneous Datasets. *SMU Data Science Review*. 1(3):9.
- Kristin E, Kris Dinarti L, Yasmina A, Pratiwi WR, Pinzon RT, Indra Jaya S. 2022. Persistence with Antiplatelet and Risk of Major Adverse Cardiac and Cerebrovascular Events in Acute Coronary Syndrome Patients after Percutaneous Coronary Intervention in Indonesia: A Retrospective Cohort Study. *Open Access Maced J Med Sci*. 10(B):900–904.doi:10.3889/oamjms.2022.9180.
- Konstantinou K, Tsioufis C, Koumelli A. 2019. Hypertension and patients with acute coronary syndrome: Putting blood pressure levels into perspective. *J Clin Hypertens*. 21:1135–1143. doi:10.1111/jch.13622
- Kuriakose D, Xiao Z. 2020. Pathophysiology and treatment of stroke: Present status and future perspectives. *Int J Mol Sci*. 21(20):1–24.doi:10.3390/ijms21207609.
- Laimoud, M., Maghirang M, Alanazi M, Al-Mutlaq SM, Althibait SA, Alanazi B, *et al*. 2022. Predictors and clinical outcomes of post-coronary artery bypass grafting cerebrovascular strokes. *The Egyptian heart journal: official bulletin of the Egyptian Society of Cardiology*. 74(1)76. doi:10.1186/s43044-022-00315-4
- Lantz B. 2013. *Machine learning with R : learn how to use R to apply powerful machine learning methods and gain an insight into real-world applications*. Birmingham: Packt Publishing
- Lee M, Jeffrey LS, Kuo-Hsuan C, Hung-Wei L, Shen-Chih Chang, Bruce O. 2010. Low glomerular filtration rate and risk of stroke: meta-analysis. *BMJ* 2010;341:c4249 doi:10.1136/bmj.c4249
- Lee HJ, Choi EK, Lee SH, Kim YJ, Han K Do, Oh S. 2018. Risk of ischemic stroke in metabolically healthy obesity: A nationwide population-based study. *PLoS One*. 13(3).doi:10.1371/journal.pone.0195210.
- Lee S, Kim HS. 2021. Prospect of artificial intelligence based on electronic medical record. *J Lipid Atheroscler*. 10(3):282–290.doi:10.12997/JLA.2021.10.3.282.
- Ley C, Martin RK, Pareek A, Groll A, Seil R, Tischer T. 2022. Machine learning and conventional statistics: making sense of the differences. *Knee Surgery, Sports Traumatology, Arthroscopy*. 30(3):753–757.doi:10.1007/s00167-022-06896-6.
- Mahaffey KW, Hager R, Wojdyla D, White HD, Armstrong PW, Alexander JH, Tricoci P, Lopes RD, Ohman EM, Roe MT, *et al*. 2015. Meta-Analysis of Intracranial Hemorrhage in Acute Coronary Syndromes: Incidence, Predictors, and Clinical Outcomes. *J Am Heart Assoc*. 4(6):1–7.doi:10.1161/JAHA.114.001512.
- Malik MA, Khan SA, Safdar S, Taseer IUH. 2013. Chest Pain as a presenting complaint in patients with acute myocardial infarction (AMI). *Pak J Med Sci*. 29(2):565.doi:10.12669/PJMS.292.2921.

- McCormick N, Bhole V, Lacaille D, Avina-Zubieta JA. 2015. Validity of diagnostic codes for acute stroke in administrative databases: A systematic review. *PLoS One*. 10(8).doi:10.1371/journal.pone.0135834.
- Megaly M, Yildiz M, Tannenbaum E, Okeson B, Dworak MW, Garberich R, Sharkey S, Aguirre F, Tannenbaum M, Smith TD, *et al.* 2021. Incidence and Long-Term Outcomes of Stroke in Patients Presenting With ST-Segment Elevation-Myocardial Infarction: Insights From the Midwest STEMI Consortium. *J Am Heart Assoc*. 10(23).doi:10.1161/JAHA.121.022489.
- Merkler AE, Diaz I, Wu X, Murthy SB, Gialdini G, Navi BB, Yaghi S, Weinsaft JW, Okin PM, Safford MM, *et al.* 2018. Duration of Heightened Ischemic Stroke Risk After Acute Myocardial Infarction. *J Am Heart Assoc*. 7(22).doi:10.1161/JAHA.118.010782.
- Musuka TD, Wilton SB, Traboulsi M, Hill MD. 2015. Diagnosis and management of acute ischemic stroke: speed is critical. *CMAJ*. 187(12):887–893.doi:10.1503/CMAJ.140355. [diunduh 2023 Mei 22]. Tersedia pada: <https://pubmed.ncbi.nlm.nih.gov/26243819/>
- Ngiam KY, Khor IW. 2019. Big data and machine learning algorithms for health-care delivery. *Lancet Oncol*. 20(5):e262–e273.doi:10.1016/S1470-2045(19)30149-4.
- Nugroho DB, Sinorita H, Pramono B, Ikhsan R, Susanti V, Rochmah MA. 2022. Classification of Type 2 Diabetes Mellitus Using Machine Learning in Sleman District of Yogyakarta Special Region, Indonesia. *Malaysian Journal of Medicine and Health Sciences*. 18(SUPP10):89–95.
- O'Donnell MJ, Denis X, Liu L, Zhang H, Chin SL, Rao-Melacini P, Rangarajan S, Islam S, Pais P, McQueen MJ, *et al.* 2010. Risk factors for ischaemic and intracerebral haemorrhagic stroke in 22 countries (the INTERSTROKE study): A case-control study. *The Lancet*. 376(9735):112–123.doi:10.1016/S0140-6736(10)60834-3.
- Patel AB, Quan H, Welsh RC, Deckert-Sookram J, Tymchak W, Sookram S, Surdhar I, Kaul P. 2015. Validity and utility of ICD-10 administrative health data for identifying ST- and non-ST-elevation myocardial infarction based on physician chart review. *CMAJ Open*. 3(4):E413–E418.doi:10.9778/cmajo.20150060.
- Prawirohartono EP. 2022. *Memahami Penelitian Epidemiologi Klinis Secara Mudah*. Volume ke-1. Nurhayati S, editor. Yogyakarta: Gadjah Mada Univeristy Press: Gadjah Mada Univeristy Press.
- Puymirat E, Simon T, Cayla G, Cottin Y, Elbaz M, Coste P, Lemesle G, Motreff P, Popovic B, Khalife K, *et al.* 2017. Acute Myocardial Infarction: Changes in Patient Characteristics, Management, and 6-Month Outcomes Over a Period of 20 Years in the FAST-MI Program (French Registry of Acute ST-Elevation or Non-ST-Elevation Myocardial Infarction) 1995 to 2015. *Circulation*. 136(20):1908–1919.doi:10.1161/CIRCULATIONAHA.117.030798.



- Quan H, Khan N, Hemmelgarn BR, Tu K, Chen G, Campbell N, Hill MD, Ghali WA, McAlister FA. 2009. Validation of a case definition to define hypertension using administrative data. *Hypertension*. 54(6):1423–1428. doi:10.1161/HYPERTENSIONAHA.109.139279.
- Rajula HSR, Verlato G, Manchia M, Antonucci N, Fanos V. 2020a. Comparison of conventional statistical methods with machine learning in medicine: Diagnosis, drug development, and treatment. *Medicina (Lithuania)*. 56(9):1–10. doi:10.3390/medicina56090455.
- Rajula HSR, Verlato G, Manchia M, Antonucci N, Fanos V. 2020b. Comparison of conventional statistical methods with machine learning in medicine: Diagnosis, drug development, and treatment. *Medicina (Lithuania)*. 56(9):1–10. doi:10.3390/medicina56090455.
- Rochmah MA, Gofir A, Setyopranoto I. 2022. Perbedaan Komposisi Makanan Rumah Tangga Pasien Stroke Dan Non-Stroke Di Kabupaten Sleman, Daerah Istimewa Yogyakarta - Uji Pemelajaran Mesin Pada Health And Demographic Surveillance System (HDSS) Tahun 2015-2016 [Thesis]. Yogyakarta: Universitas Gadjah Mada.
- Rodríguez-Mañero M, Cordero A, Kreidieh O, García-Acuña JM, Seijas J, Agra-bermejo RM, Abou-Jokh C, Álvarez-Rodríguez L, Álvarez-Iglesias D, López-Palop R, *et al.* 2017. Proposal of a novel clinical score to predict heart failure incidence in long-term survivors of acute coronary syndromes. *Int J Cardiol*. 249:301–307. doi:10.1016/J.IJCARD.2017.07.084. [diunduh 2023 Mei 22]. Tersedia pada: <https://pubmed.ncbi.nlm.nih.gov/28867245/>
- Roger VL, Go AS, Lloyd-Jones DM, Adams RJ, Berry JD, Brown TM, Carnethon MR, Dai S, de Simone G, Ford ES, *et al.* 2011. Heart Disease and Stroke Statistics—2011 Update. *Circulation*. 123(4). doi:10.1161/CIR.0b013e3182009701.
- Sacco RL, Kasner SE, Broderick JP, Caplan LR, Connors JJ, Culebras A, Elkind MSV, George MG, Hamdan AD, Higashida RT, *et al.* 2013. An Updated Definition of Stroke for the 21st Century. *Stroke*. 44(7):2064–2089. doi:10.1161/STR.0B013E318296AECA.
- Schwartz L, Anteby R, Klang E, Soffer S. 2023. Stroke mortality prediction using machine learning: systematic review. *J Neurol Sci*. 444. doi:10.1016/j.jns.2022.120529.
- Setyopranoto I, Bayuangga HF, Panggabean AS, Alifaningdyah S, Lazuardi L, Dewi FST, Malueka RG. 2019. Prevalence of stroke and associated risk factors in sleman district of Yogyakarta Special Region, Indonesia. *Stroke Res Treat*. doi:10.1155/2019/2642458.
- Severino P, D'amato A, Pucci M, Infusino F, Adamo F, Birtolo LI, Netti L, Montefusco G, Chimenti C, Lavallo C, *et al.* 2020. Ischemic heart disease pathophysiology

- paradigms overview: From plaque activation to microvascular dysfunction. *Int J Mol Sci.* 21(21):1–30.doi:10.3390/ijms21218118.
- Sheikhgholami S, Ebadifardazar F, Rezapoor A, Tajdini M, Salarifar M. 2021. Social and Economic Costs and Health-Related Quality of Life in Patients With Acute Coronary Syndrome. *Value Health Reg Issues.* 24:123–129.doi:10.1016/j.vhri.2020.11.002.
- Shinozaki A. 2020. Electronic Medical Records and Machine Learning in Approaches to Drug Development. Di dalam: *Artificial Intelligence in Oncology Drug Discovery and Development*. IntechOpen.
- Sholih AD, Dinarti LK, Nugrohom Dhite Bayu. 2021. Rehospitalisasi Pasien Pascasindrom Koroner Akut di RSUP Dr. Sardjito Tahun 2014-2018: Sebuah Studi Deskriptif. Yogyakarta: Universitas Gadjah Mada.
- Singh A, Museedi AS, Grossman SA. 2022 Jul 11. Acute Coronary Syndrome. *StatPearls*. <https://www.ncbi.nlm.nih.gov/books/NBK459157/>
- So L, Evans D, Quan H. 2006. ICD-10 coding algorithms for defining comorbidities of acute myocardial infarction. *BMC Health Serv Res.* 6.doi:10.1186/1472-6963-6-161.
- Strilciuc S, Grad DA, Radu C, Chira D, Stan A, Ungureanu M, Gheorghe A, Muresanu FD. 2021. The economic burden of stroke: a systematic review of cost of illness studies. *J Med Life.* 14(5):606–619.doi:10.25122/jml-2021-0361.
- Sundbøll J, Adelborg K, Munch T, Frøslev T, Sørensen HT, Bøtker HE, Schmidt M. 2016. Positive predictive value of cardiovascular diagnoses in the Danish National Patient Registry: a validation study. *BMJ Open.* 6(11):e012832.doi:10.1136/bmjopen-2016-012832.
- Tazin T, Alam MN, Dola NN, Bari MS, Bourouis S, Monirujjaman Khan M. 2021. Stroke Disease Detection and Prediction Using Robust Learning Approaches. *J Healthc Eng.* 2021.doi:10.1155/2021/7633381.
- Ulvenstam A, Kajermo U, Modica A, Jernberg T, Söderström L, Moee T. 2014. Incidence, Trends, and Predictors of Ischemic Stroke 1 Year After an Acute Myocardial Infarction. *Stroke.* 45(11):3263–3268. doi:10.1161/STROKEAHA.114.005770.
- Varmdal T, Janszky I, Bakken IJ, Ellekjær H, Fjærtøft H, Håberg SE, Bønaa KH. 2017. Percutaneous Coronary Intervention as a Trigger for Stroke. *American Journal of Cardiology.* 119(1):35–39.doi:10.1016/j.amjcard.2016.09.012.
- Wang X, Ma D, Li T, Li B, Su X, Wu Y, Du Z, Ji Z, Yang P, Yang B, *et al.* 2022. Incidence of Major Adverse Cardiovascular and Cerebrovascular Events in Chinese Patients Undergoing Percutaneous Coronary Intervention with Iodixanol: An Observational Postauthorization Study. doi:10.1097/CD9.0000000000000065.

- Witt BJ, Ballman K V., Brown RD, Meverden RA, Jacobsen SJ, Roger VL. 2006. The incidence of stroke after myocardial infarction: A meta-analysis. *American Journal of Medicine*. 119(4):354.e1-354.e9.doi:10.1016/j.amjmed.2005.10.058.
- World Health Organization. 2020a. Non-Communicable Diseases Progress Monitor 2020. Geneva: World Health Organization.
- World Health Organization. 2020b. Global Health Estimates 2019: Estimated deaths by age, sex, and cause. Geneva: World Health Organization.
- World Health Organization. 2020c. Global Health Estimates 2019 Summary Tables. Geneva: World Health Organization.
- Yaghi S, Pilot M, Song C, Blum CA, Yakhkind A, Silver B, Furie KL, Elkind MSV, Sherzai D, Sherzai AZ. 2016. Ischemic Stroke Risk After Acute Coronary Syndrome. *J Am Heart Assoc*. 5(7). doi:10.1161/JAHA.115.002590.
- Zhao X, Liu C, Zhou P, Sheng Z, Li J, Zhou J, Chen R, Wang Y, Chen Y, Song L, *et al*. 2022. Development and Validation of a Prediction Rule for Major Adverse Cardiac and Cerebrovascular Events in High-Risk Myocardial Infarction Patients After Primary Percutaneous Coronary Intervention. *Clin Interv Aging*. 17:1099–1111.doi:10.2147/CIA.S358761.