

DAFTAR PUSTAKA

1. Sarwat A. Haji Rukun Islam Kelima. Ibadah Haji Rukun Islam Kelima. 2019;1(2):16–66.
2. Statistics SGA for. Hajj Statistics 1444-2023. Saudi Gen Auth Stat [Internet]. 2023; Available from: <https://www.stats.gov.sa/en/28>
3. Saudi General Authority for Statistics. Hajj Statistics 1445 - 2024 [Internet]. Vol. 2024, Saudi General Authority for statistics. 2024. Available from: <https://www.stats.gov.sa/en/28>
4. Rahman J, Thu M, Arshad N, Van der Putten M. Mass Gatherings and Public Health: Case Studies from the Hajj to Mecca. Ann Glob Heal [Internet]. 2017;83(2):386–93. Available from: <http://dx.doi.org/10.1016/j.aogh.2016.12.001>
5. Fleck A. Hajj Deaths : Tragedies In Mecca are Far From Rare. 2024. p. <https://www.statista.com/chart/3834/tragedies-in-m>.
6. Kementerian Kesehatan RI. Profil Kesehatan Indonesia 2022. 2023. 7–32 p.
7. Gaddoury MA, Armenian HK. Epidemiology of Hajj pilgrimage mortality: Analysis for potential intervention. J Infect Public Health [Internet]. 2024;17:49–61. Available from: <https://doi.org/10.1016/j.jiph.2023.05.021>
8. Haj Committee of India. Guidelines for Haj 1444H-2023. 2023;2024(1):1–10.
9. Pusat Kesehatan Haji Kemenkes RI. Laporan Kinerja Tahun 2022 Pusat Kesehatan Haji. Pus Kesehat Haji Menteri Kesehat RI [Internet]. 2023;89. Available from: <http://www.nber.org/papers/w16019>
10. Statistik BP. Mortalitas di Indonesia. 2020;
11. Kementrian Kesehatan RI. Profil Kesehatan Indonesia 2023. 2024. 100 p.
12. Direktorat Jenderal Penyelenggaraan Haji dan Umrah. 461 Jemaah Haji Wafat Hingga Akhir Operasional Haji 2024 [Internet]. 2024. Available from: [https://haji.kemenag.go.id/v5/detail/461-jemaah-haji-wafat-hingga-akhir-operasional-haji-2024-berikut-daftarnya#:~:text=Dari 461 jemaah yang wafat,meninggal di Makkah \(353\)](https://haji.kemenag.go.id/v5/detail/461-jemaah-haji-wafat-hingga-akhir-operasional-haji-2024-berikut-daftarnya#:~:text=Dari 461 jemaah yang wafat,meninggal di Makkah (353)).
13. Febriyanti N, Adisasmita AC, Kunci K, Massa K, Haji Pendahuluan J, Magister Epidemiologi P. Epidemiology Trend of Mortality in Hajj Pilgrims (2017-2023). J Epidemiol Kesehat Indones. 2023;7(2):85–91.

14. Presiden Republik Indonesia. Undang-Undang Republik Indonesia Nomor 8 Tahun 2019 tentang Penyelenggaraan Ibadah Haji dan Umrah. 2019.
15. Kemenkes RI pusat kesehatan haji. Petunjuk Teknis Operasionalisasi Siskohatkes Bagi Petugas Kesehatan Haji di Kabupaten/Kota dan Embarkasi. 2019;
16. Widodo G, Hendarsih E, Ornadi AB, Dyah S. Analisis Faktor Risiko Kematian Jemaah Haji Embarkasi Surabaya Tahun 2023. *CoMPHI J Community Med Public Heal Indones J*. 2024;5(1):25–31.
17. Sakanti A, Helda H. Determinan Kejadian Kesakitan dan Kematian Jemaah Haji Tahun 2023/1444 H (Analisis Data Siskohatkes Shar'i). *Prepotif J Kesehat Masy* [Internet]. 2024;8(1):1153–60. Available from: <http://journal.universitaspahlawan.ac.id/index.php/prepotif/article/view/26662>
18. Ardiana M, Utami ER, Al Farabi MJ, Azmi Y. The Impact of Classical Cardiovascular Risk Factors on Hospitalization and Mortality among Hajj Pilgrims. *Sci World J*. 2023;2023.
19. Rahman MA. Analisis Faktor Risiko Kejadian Kematian Akibat Penyakit Kardiovaskular Jemaah Haji Indonesia Tahun 2023. *J Biostat Kependudukan, dan Inform Kesehat*. 2024;4(3):154–69.
20. Pane M, Kong FYM, Purnama TB, Glass K, Imari S, Samaan G, et al. Indonesian Hajj cohorts and mortality in Saudi Arabia from 2004 to 2011. *J Epidemiol Glob Health*. 2019;9(1):11–8.
21. Yezli S, Khan AH, Yassin YM, Khan AA, Alotaibi BM, Bouchama A. Association of Ambient Temperature with Mortality in Resident and Multiethnic Transient Populations in a Desert Climate, 2006–2014. *Environ Health Perspect*. 2023;131(4):1–7.
22. Kang S, Pal JS, Eltahir EAB. Future Heat Stress During Muslim Pilgrimage (Hajj) Projected to Exceed “Extreme Danger” Levels. *Geophys Res Lett*. 2019;46(16):10094–100.
23. Yezli S, Ehaideb S, Yassin Y, Alotaibi B, Bouchama A. Escalating climate-related health risks for Hajj pilgrims to Mecca. *J Travel Med*. 2024;31(4).
24. Kemenag RI. Cuaca Makkah Panas, Ini Imbauan untuk Jemaah Haji Indonesia [Internet]. 2023 [cited 2025 Apr 10]. Available from: <https://kemenag.go.id/pers-rilis/cuaca-makkah-panas-ini-imbauan-untuk-jemaah-haji-indonesia-ujmQB>
25. Kemenag RI. Cuaca Saudi Panas, Ini Pesan Menag Yaqut ke Jemaah Haji Indonesia [Internet]. 2024 [cited 2025 Apr 10]. Available from: <https://kemenag.go.id/internasional/cuaca-saudi-panas-ini-pesan-menag-yaqut-ke-jemaah-haji-indonesia-NXcFv>

26. Kemenag RI. Jemaah Wafat di Saudi akan Dibadalhajikan [Internet]. 2022 [cited 2025 Apr 10]. Available from: <https://kemenag.go.id/pers-rilis/jemaah-wafat-di-saudi-akan-dibadalhajikan-hoigy6#:~:text=Penyelenggaraan haji 1443 H/2022 M bertepatan dengan,mengingat suhu udara di Arab Saudi cukup>
27. Kemenkes RI. Pemerintah Targetkan Turunkan Angka Kematian Jamaah Haji jadi 1 permil. 2022; Available from: <https://sehatnegeriku.kemkes.go.id/baca/video/20220518/1539888/pemerintah-targetkan-turunkan-angka-kematian-jamaah-haji-jadi-1-permil/>
28. CDC. Mass Gatherings. CDC Yellow B 2024. 2024;
29. Kementerian Agama RI. Buku Tuntunan Manasik Haji dan Umrah. 2024. 53–54 p.
30. Presiden RI. Undang-Undang No 8 Tahun 2019 tentang Penyelenggaraan Ibadah Haji dan Umrah. Direktorat Penyelenggaraan Haji dan Umr [Internet]. 2019;(004251):3. Available from: <https://haji.kemenag.go.id/v5/detail/966350>
31. Kementrian Kesehatan RI. Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/Menkes/2118/2023 tentang Standar Teknis Pemeriksaan Kesehatan dalam Rangka Penetapan Status Istitaah Kesehatan Jemaah Haji. 2023.
32. Bonaraja Purba, Muhammad Nazly Azra'I, Putri Wulan Anjelina Waruwu, Yoga Erguna Sitepu. Penyebab Dan Dampak Kebijakan Mortalitas Terhadap Pertumbuhan Penduduk. Mimb Adm FISIP UNTAG Semarang. 2023;20(2):262–79.
33. WHO. ICD-10 Version: 2019 [Internet]. Vols. 1 & 3, junal World Health Organization. 2019. p. <https://icd.who.int/browse10/2019/en>. Available from: <https://www.who.int/publications/m/item/icd-10-updates-2010>
34. Shamaki MA. Sociodemographic Analysis of Factors Affecting Maternal Mortality in Sokoto State. 2019;(July).
35. Arianti NE, Jember U. Indonesia || Data Analysis and Visualization of Death Factors in Data Analysis and Visualization of Death. 2021;(December).
36. Tracy M, Cerdá M, Keyes KM. Agent-Based Modeling in Public Health: Current Applications and Future Directions. Annu Rev Public Health. 2018;39:77–94.
37. Alshammari SM, Ba-Aoum MH, Alganmi NA, Allinjawwi AA. Agent-based simulation framework for epidemic forecasting during hajj seasons in Saudi Arabia. Inf. 2021;12(8):1–14.
38. Rudini. Faktor-Faktor yang Berhubungan dengan Kejadian Kematian

Jamaah Haji Reguler Indonesia Tahun 2015 M/ 1436 H. Vol. 85, Universitas Indonesia. 2016.

39. Liani PS, Machmud PB. Risk Factors for Respiratory Death Among Indonesian Pilgrims in 2018. *J Berk Epidemiol*. 2020;8(1):57.
40. Kim SJ, Mesquita FCP, Hochman-Mendez C. New Biomarkers for Cardiovascular Disease. *Texas Hear Inst J*. 2023;50(5):1–8.
41. National Heart L and BI. Know the Difference: Cardiovascular Disease, Heart Disease, Coronary Heart Disease Cardiovascular. *Natl Inst Heal [Internet]*. 2021;1–5. Available from: <https://www.nhlbi.nih.gov/resources/know-differences-cardiovascular-disease-heart-disease-coronary-heart-disease>
42. Prof. Dr. dr. Anies, M.Kes P. *Penyakit Jantung & Pembuluh Darah*. Yogyakarta: Arruzz Media; 2021. 186 p.
43. Iqbal et al. *Essential Hypertensi*. NCBI Bookshelf. 2023;
44. P2PTM Kemenkes RI. *Klasifikasi Hipertensi*. 2018;2018.
45. Danny, Mondastri KS. Faktor Determinan Hipertensi pada Jemaah Haji Usia Lebih Dari 40 Tahun di Provinsi DKI Jakarta Tahun 2022. *J Epidemiol Kesehat Indones Univ Indones Jakarta*. 2023;7(2):111–6.
46. CDC. *Stroke [Internet]*. 2024 [cited 2025 Jan 15]. Available from: <https://www.cdc.gov/stroke/index.html>
47. Gothe H, Rajsic S, Vukicevic D, Schoenfelder T, Jahn B, Geiger-Gritsch S, et al. Algorithms to identify COPD in health systems with and without access to ICD coding: A systematic review. *BMC Health Serv Res*. 2019;19(1).
48. Azizi MS, Uyainah A, Amin Z, Sedijono M, Shatri H. Distribusi Faktor-Faktor yang Mempengaruhi Kelaikan Terbang Pasien PPOK pada Jemaah Haji Indonesia. *Indones J Crit Emerg Med*. 2014;1(1):8–16.
49. Chetta A, Calzetta L. Bronchial asthma: an update. *Minerva Med*. 2022;113(1):1–3.
50. Abdelmoety DA, El-Bakri NK, Almowalld WO, Turkistani ZA, Bugis BH, Baseif EA, et al. Characteristics of heat illness during hajj: A cross-sectional study. *Biomed Res Int*. 2018;2018.
51. Puriatarza E, Kamso S. Cause of Death of Indonesia Hajj in Armenia, Saudi Arabia 2015. *KnE Life Sci*. 2019;4(10):115.
52. IS Global. A corrected and extended version of National Weather Service (NWS) Heat Index. 2022;9:356–63.

53. Baklola M, Terra M, Alshahrani NZ. Lessons from tragedy : A closer look at the factors behind recent Hajj deaths. *Mass Gather Med* [Internet]. 2024;2(September):100007. Available from: <https://doi.org/10.1016/j.mgmed.2024.100007>
54. Swarjana IK. *Populasi-Sampel Teknik Sampling & Bias dalam Penelitian*. Erang R, editor. Yogyakarta: Penerbit ANDI; 2022.
55. Kementerian Kesehatan RI. Permenkes Nomor 15 Tahun 2016 tentang Istithaah Kesehatan Jemaah Haji [Internet]. 2016. Available from: http://biblioteca.ibge.gov.br/visualizacao/monografias/GEBIS-RJ/RBG/RBG-v57_n1.pdf <https://periodicos.ufpe.br/revistas/rbgfe/article/view/234295>
56. P2PTM Kemenkes RI. Klasifikasi Obesitas setelah pengukuran IMT. Menteri Kesehat Republik Indones [Internet]. 2018;42(November):1. Available from: <https://p2ptm.kemkes.go.id/infographic-p2ptm/hipertensi-penyakit-jantung-dan-pembuluh-darah/page/28/klasifikasi-hipertensi>
57. Metivier F, Marchais SJ, Guerin AP, Pannier B, London GM. Pathophysiology of anaemia: Focus on the heart and blood vessels. *Nephrol Dial Transplant*. 2000;15(SUPPL. 3):14–8.
58. PERKENI. Pedoman Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 Dewasa di Indonesia 2021. *Glob Initiat Asthma* [Internet]. 2021;46. Available from: www.ginasthma.org.
59. Sanchez TR, Inostroza-Nieves Y, Hemal K, Chen W. Cross-sectional study. *Handb Des Conduct Clin Transl Surg*. 2023;219–22.
60. Harlan J. Analisis Multilevel. Vol. 2, *Encyclopedia of Social Measurement*. 2016. 785–793 p.
61. Groenewegen PP. *Multilevel Modeling for Public Health* [Internet]. 2020. 293 p. Available from: <https://link.springer.com/book/10.1007/978-3-030-34801-4>
62. Austin PC, Merlo J. Intermediate and advanced topics in multilevel logistic regression analysis. *Stat Med*. 2017;36(20):3257–77.
63. Samarkandi O, Alamri FA, Alhazmi J, Alsaleh GS, Alsehdwei KA, Alabdullatif L, et al. Health Risk Behaviors and Associated Factors Among Hajj 2024 Pilgrims: A Multinational Cross-Sectional Study. *Risk Manag Healthc Policy*. 2025;18(July):2233–45.
64. Kemenkes RI. *Profil Kesehatan Indonesia 2020*. Vol. 48, Kemenkes RI. 2021. 6–11 p.
65. Sunarno. *Ilmu Penuaan*. Mdm. 2016;1–119.

66. Laswati DT. Masalah Gizi Dan Peran Gizi Seimbang. Agrotech J Ilm Teknol Pertan. 2019;2(1):69–73.
67. Memish ZA. Hajj and the public health significance of mass gatherings. East Mediterr Health J. 2013;19 Suppl 2:5–6.
68. Yezli S, Khan A, Bouchama A. Summer Hajj pilgrimage in the era of global warming: A call for vigilance and better understanding of the risks. J Travel Med. 2019;26(7).
69. Kemenkes RI. Peraturan Menteri Kesehatan Republik Indonesia Nomor 15 Tahun 2016 Tentang Istithaah Kesehatan Jemaah Haji. Rev CENIC Ciencias Biológicas [Internet]. 2016;152(3):28. Available from: file:///Users/andreaquez/Downloads/guia-plan-de-mejora-institucional.pdf%0Ahttp://salud.tabasco.gob.mx/content/revista%0Ahttp://www.revistaalad.com/pdfs/Guias_ALAD_11_Nov_2013.pdf%0Ahttp://dx.doi.org/10.15446/revfacmed.v66n3.60060.%0Ahttp://www.cenetec.
70. Lanier Brian J et al. Nutritional support in elderly patients. Am Fam Physician. 2018;4(1):25–7.
71. WHO. Guideline on haemoglobin cutoffs to define anaemia in individuals and populations. Vol. 17. 2024. 302 p.
72. Son M, Yang S. Association between long-term hemoglobin variability and mortality in Korean adults: a nationwide population-based cohort study. Sci Rep. 2019;9(1):1–9.
73. WHO. Hypertension. Vol. 183. 2023. p. 153–64.
74. Mahmoud Abdalgader Gaddoury by M, Haroutune Armenian PK, Background C. Epidemiology of Mortality of the Hajj Pilgrimage: Analysis for Potential Intervention. 2019; Available from: <https://escholarship.org/uc/item/62f1c84r>
75. Yezli S et al. Prevalence of Diabetes and Hypertension Among Hajj Pilgrims: A Systematic Review. Int J Environ Res Public Health. 2021;16(3):1221–8.
76. Agusti A, Celli B, Criner G, Halpin D, Salvi S, Martinez F, et al. Global initiative for chronic obstructive lung disease GOLD 2025 Report [Internet]. 2025. p. 1–215. Available from: www.goldcopd.org
77. Handayani D, Umbul C, Martini S. Indeks Prediksi Risiko Kematian Jemaah Haji Di Provinsi Jawa Timur. J Wiyata [Internet]. 2016;133–9. Available from: https://www.iik.ac.id/v3/home/images/journal/lppm_jurnal_128_133-139_DWI_HANDAYANI.pdf.pdf