

DAFTAR PUSTAKA

- Adnan, D., Kheru, A., & Marwan, D. (2021). Hubungan dukungan keluarga dan tingkat pendidikan pasien terhadap kepatuhan minum obat antiretroviral pasien HIV AIDS di Poli Rsud Dr. Drajat Prawiranegara Serang Banten. *MAHESA : Malahayati Health Student Journal*, *1*, 82–91. <https://doi.org/10.33024/mahesa.v1i2.3756>
- Agustina, S., Mitra, M., & Anusirwan, A. (2024). HIV AIDS case trends according to case distribution, employment and sexual orientation in riau province in 2018-2022. *Miracle International Journal of Public Health*, *1*, 35–44. <https://doi.org/10.25311/miracle/Vol1.Iss1.2024.1845>
- Almung, W., Hasmi, H., Pariaribo, K. M., Bouway, D. Y., Tutuop, K. L., & Nurdin, M. A. (2025). Risk factors for HIV and AIDS at the Harapan Health Center, East Sentani District, Jayapura Regency in 2023-2024. *Formosa Journal of Science and Technology*, *4*, 155–168. <https://doi.org/10.55927/fjst.v4i1.13102>
- Araújo-Pereira, M., Schutz, C., Barreto-Duarte, B., Barr, D., Villalva-Serra, K., Vinhaes, C. L., Ward, A., Meintjes, G., & Andrade, B. B. (2023). Interplay between systemic inflammation, anemia, and mycobacterial dissemination and its impact on mortality in TB-associated HIV: a prospective cohort study. *Frontiers in Immunology*, *14*. <https://doi.org/10.3389/fimmu.2023.1177432>
- Arisah, A., Hariyanti, R., Riya, R., & Lubis, S. (2024). Pengaruh edukasi kesehatan tentang HIV/AIDS terhadap tingkat pengetahuan dan stigma remaja pada HIV/AIDS. *Care : Jurnal Ilmiah Ilmu Kesehatan*, *12*, 125–134. <https://doi.org/10.33366/jc.v12i1.4482>
- Arliny, Y., Muarif, M. F., Mahdani, W., & Yanifitri, D. B. (2025). Anti-TB drug side-effects on the treatment of drug-resistant tuberculosis (DR-TB) in dr. Zainoel Abidin Hospital Banda Aceh. *Jurnal Respiriologi Indonesia*, *45*, 21–29. <https://doi.org/10.36497/jri.45i1.507>
- Awamura, T., Nakasone, E. S., Gangcuangco, L. M., Subia, N. T., Bali, A.-J., Chow, D. C., Shikuma, C. M., & Park, J. (2023). Platelet and HIV interactions and their

- contribution to non-AIDS comorbidities. *Biomolecules*, *13*, 1608. <https://doi.org/10.3390/biom13111608>
- Azevedo-Pereira, J. M., Pires, D., Calado, M., Mandal, M., Santos-Costa, Q., & Anes, E. (2023). HIV/Mtb Co-Infection: From the amplification of disease pathogenesis to an “emerging syndemic”. *Microorganisms*, *11*, 853. <https://doi.org/10.3390/microorganisms11040853>
- Birhan, H., Derebe, K., Muche, S., & Melese, B. (2021). Statistical analysis on determinant factors associated with time to death of HIV/TB co-infected patients under HAART at Debre Tabor Referral Hospital: an application of accelerated failure time-shared frailty models. *HIV/AIDS - Research and Palliative Care*, *Volume 13*, 775–787. <https://doi.org/10.2147/hiv.s319745>
- Borkute, R. R., Woelke, S., Pei, G., & Dorhoi, A. (2021). Neutrophils in tuberculosis: cell biology, cellular networking and multitasking in host defense. *International Journal of Molecular Sciences*, *22*, 4801. <https://doi.org/10.3390/ijms22094801>
- BPS Jawa Tengah. (2024). *Jumlah kasus baru HIV dan AIDS menurut jenis kelamin di Provinsi Jawa Tengah - tabel statistik*. Badan Pusat Statistik Provinsi Jawa Tengah. <https://jateng.bps.go.id/id/statistics-table/2/MjM3MCMY/jumlah-kasus-baru-hiv-dan-aids-menurut-jenis-kelamin-di-provinsi-jawa-tengah.html>
- Brune, K. A., Ferreira, F., Mandke, P., Chau, E., Aggarwal, N. R., D'Alessio, F. R., Lambert, A. A., Kirk, G., Blankson, J., Drummond, M. B., Tsibris, A. M., & Sidhaye, V. K. (2016). HIV impairs lung epithelial integrity and enters the epithelium to promote chronic lung inflammation. *PloS One*, *11*, e0149679. <https://doi.org/10.1371/journal.pone.0149679>
- Burdick, R. C., Li, C., Munshi, M., Rawson, J. M. O., Nagashima, K., Hu, W.-S., & Pathak, V. K. (2020). HIV-1 uncoats in the nucleus near sites of integration. *Proceedings of the National Academy of Sciences*, *117*, 5486–5493. <https://doi.org/10.1073/pnas.1920631117>
- Cahn, P., Madero, J. S., Arribas, J. R., Antinori, A., Ortiz, R., Clarke, A. E., Hung, C.-C., Rockstroh, J. K., Girard, P.-M., Sievers, J., Man, C. Y., Urbaityte, R., Brandon, D. J., Underwood, M., Tenorio, A. R., Pappa, K. A., Wynne, B., Gartland, M., Aboud, M., Smith, K. Y. (2020). Durable efficacy of dolutegravir plus lamivudine in antiretroviral treatment-naive adults with HIV-1 infection: 96-week results

- from the GEMINI-1 and GEMINI-2 randomized clinical trials. *Journal of Acquired Immune Deficiency Syndromes* (1999), 83, 310–318. <https://doi.org/10.1097/QAI.0000000000002275>
- Capili, B. (2021). Cross-Sectional studies. *AJN, American Journal of Nursing*, 121, 59–62. <https://doi.org/10.1097/01.naj.0000794280.73744.fe>
- CDC. (2024). *About HIV*. https://www.cdc.gov/hiv/about/?CDC_AAref_Val=https://www.cdc.gov/hiv/basics/whatishiv.html
- CDC. (2025a). *About HIV*. <https://www.cdc.gov/hiv/about/index.html>
- CDC. (2025b). *Guidelines for using antiretroviral agents among HIV-infected adults and adolescents*. <https://www.cdc.gov/mmwr//preview/mmwrhtml/rr5107a1.htm>
- Chen, B. (2019). Molecular mechanism of HIV-1 entry. *Trends in Microbiology*, 27, 878–891. <https://doi.org/10.1016/j.tim.2019.06.002>
- Choudhary, R. K., Wall, K. M., Njuguna, I., Pavlinac, P. B., LaCourse, S. M., Otieno, V., Gatimu, J., Stern, J., Maleche-Obimbo, E., Wamalwa, D., John-Stewart, G., & Cranmer, L. M. (2018). Monocyte-to-lymphocyte ratio is associated with tuberculosis disease and declines with anti-TB treatment in HIV-infected children. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 80, 174–181. <https://doi.org/10.1097/qai.0000000000001893>
- Cunha, R., de, D., Albuquerque, M. de F. P. M., Lacerda, H. R., Diniz, G. T. N., Montarroyos, U. R., Rodrigues, L. C., Vilela, C. R., & Ximenes, R. (2024). The trajectories of CD4 T lymphocytes over time in patients who have defaulted on treatment for tuberculosis in a cohort of people living with HIV, Recife/PE. *PloS One*, 19, e0299244–e0299244. <https://doi.org/10.1371/journal.pone.0299244>
- Damtie, S., Workineh, L., Kiros, T., Eyayu, T., & Tiruneh, T. (2021). Hematological abnormalities of adult HIV-infected patients before and after initiation of highly active antiretroviral treatment at Debre Tabor Comprehensive Specialized Hospital, Northcentral Ethiopia: A Cross-Sectional Study. *HIV/AIDS - Research and Palliative Care, Volume 13*, 477–484. <https://doi.org/10.2147/HIV.S308422>

- Devientasari, C., & Putri, L. A. M. (2025). Analysis of clinical success in HIV/AIDS patients with first-line antiretroviral therapy. *Open Access Health Scientific Journal*, 6, 258–263. <https://doi.org/10.55700/oahsj.v6i2.108>
- Diah, R., & Fikriyah, D. (2021). Faktor risiko kejadian HIV pada kelompok usia produktif di Indonesia Authors. *Jurnal Biostatistik*, 2. <https://doi.org/10.7454/bikfokes.v2i1.1022>
- Dixit, R., George, J., & Sharma, A. (2012). Thrombocytopenia due to rifampicin. *Lung India*, 29, 90. <https://doi.org/10.4103/0970-2113.92380>
- Doitsh, G., & Greene, W. C. (2016). Dissecting how CD4 T cells are lost during HIV infection. *Cell Host & Microbe*, 19, 280–291. <https://doi.org/10.1016/j.chom.2016.02.012>
- Dommaraju, P., & Tan, J. (2023). Going against global marriage trends: the declining age at first marriage in Indonesia. *Asian Population Studies*, 1–21. <https://doi.org/10.1080/17441730.2023.2193488>
- Dwivedi, R., Prakash, P., Kumbhar, B. V., Balasubramaniam, M., & Dash, C. (2023). HIV-1 capsid and viral DNA integration. *MBio*. <https://doi.org/10.1128/mbio.00212-22>
- Endarti, A. T. E., Sekarrini, L., Wahyuniar, L., Magnani, R., & Perapatanapokin, W. (2021). *HIV/AIDS data hub for the Asia Pacific*. <https://www.aidsdatahub.org/resource/policy-brief-hiv-projection-dki-jakarta>
- Eric, F., & Mufhandu, H. T. (2023). Current ARTs, Virologic Failure, and Implications for AIDS Management: A Systematic Review. *Viruses*, 15, 1732. <https://doi.org/10.3390/v15081732>
- Farhadian, M., Veisi, S., Farhadian, N., & Zamanian, M. H. (2024). Hematological parameters in newly diagnosed TB patients: A systematic review and meta-analysis. *Tuberculosis*, 144, 102430. <https://doi.org/10.1016/j.tube.2023.102430>
- Fauci, A. S., Folkers, G. K., & Lane, H. C. (2025). *Human immunodeficiency virus disease: AIDS and related disorders*. <https://accessmedicine.mhmedical.com/content.aspx?sectionid=192025263&bookid=2129&Resultclick=2>

- Faust, T. B., Binning, J. M., Gross, J. D., & Frankel, A. D. (2017). Making sense of multifunctional proteins: human immunodeficiency virus type 1 accessory and regulatory proteins and connections to transcription. *Annual Review of Virology*, 4, 241–260. <https://doi.org/10.1146/annurev-virology-101416-041654>
- Feng, L., Wang, Y., Li, L., Wang, X., & Feng, J. (2025). Global burden of HIV and drug-resistant tuberculosis co-infection and its attributable risk factors, 1990 to 2021, with projections to 2031. *BMC Infectious Diseases*, 25, 1521. <https://doi.org/10.1186/s12879-025-11830-5>
- Fernandes, J. R., Berthoud, T. K., Kumar, A., & Angel, J. B. (2017). IL-23 signaling in Th17 cells is inhibited by HIV infection and is not restored by HAART: Implications for persistent immune activation. *PLOS ONE*, 12, e0186823. <https://doi.org/10.1371/journal.pone.0186823>
- FHI 360. (2019). Tenofovir, lamivudine, and dolutegravir (TLD) transition: General information for clients, clinicians, counselors, and other service providers. Linkages Project (USAID/PEPFAR funded project led by FHI 360). <https://www.fhi360.org/sites/default/files/media/documents/resource-linkages-tld-transition-info.pdf>
- Fox, K., Kirwan, D. E., Whittington, A., Krishnan, N., Gilman, R. H., López, J. W., Singh, S., Porter, J. C., & Friedland, J. S. (2018). Platelets regulate pulmonary inflammation and tissue destruction in tuberculosis. *American Journal of Respiratory and Critical Care Medicine*, 198, 245–255. <https://doi.org/10.1164/rccm.201710-2102oc>
- Francis, A. C., Marin, M., Prellberg, M. J., Palermino-Rowland, K., & Melikyan, G. B. (2020). HIV-1 uncoating and nuclear import precede the completion of reverse transcription in cell lines and in primary macrophages. *Viruses*, 12, 1234. <https://doi.org/10.3390/v12111234>
- Garcia, S. A. B., Zubair, M., & Guzman, N. (2025). *Acquired immune deficiency syndrome CD4+ count*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK513289/>
- Geletaw, T., Zelalem, M., & Demisse, A. G. (2017). Hematologic abnormalities and associated factors among HIV infected children pre- and post-antiretroviral

- treatment, North West Ethiopia. *Journal of Blood Medicine, Volume 8*, 99–105. <https://doi.org/10.2147/jbm.s137067>
- Getawa, S., Aynalem, M., Bayleyegn, B., & Adane, T. (2021). The global prevalence of thrombocytopenia among HIV-infected adults: A systematic review and meta-analysis. *International Journal of Infectious Diseases, 105*, 495–504. <https://doi.org/10.1016/j.ijid.2021.02.118>
- Gezae, K. E., Hagos, K., & Gebreslassie, A. A. (2023). Severity and determinants of anemia in tb/hiv coinfecting adults at Mekelle, Ethiopia: Hospital Based Retrospective Study. *Journal of Tropical Medicine, 2023*, 1–8. <https://doi.org/10.1155/2023/5555030>
- Griesel, R., Zhao, Y., Simmons, B., Omar, Z., Wiesner, L., Keene, C., Hill, A., Meintjes, G., & Maartens, G. (2023). Standard-dose versus double-dose dolutegravir in HIV-associated tuberculosis in South Africa (RADIANT-TB): a phase 2, non-comparative, randomised controlled trial. *The Lancet HIV, 10*, e433–e441. [https://doi.org/10.1016/s2352-3018\(23\)00081-4](https://doi.org/10.1016/s2352-3018(23)00081-4)
- Gudina, A., Wordofa, M., & Urgessa, F. (2024). Immuno-hematological parameters among adult HIV patients before and after initiation of Dolutegravir based antiretroviral therapy, Addis Ababa, Ethiopia. *PloS One, 19*, e0310239. <https://doi.org/10.1371/journal.pone.0310239>
- Gumilang, R. R., Indriati, D. W., Diyantoro, D., & Sundari, A. S. (2022). The occurrence of tuberculosis infection among newly HIV diagnosed patient in indonesia. *Open Access Macedonian Journal of Medical Sciences, 10*, 893–896. <https://doi.org/10.3889/oamjms.2022.9529>
- Günthard, H. F., Saag, M. S., Benson, C. A., del Rio, C., Eron, J. J., Gallant, J. E., Hoy, J. F., Mugavero, M. J., Sax, P. E., Thompson, M. A., Gandhi, R. T., Landovitz, R. J., Smith, D. M., Jacobsen, D. M., & Volberding, P. A. (2016). Antiretroviral drugs for treatment and prevention of HIV infection in adults. *JAMA, 316*, 191–210. <https://doi.org/10.1001/jama.2016.8900>
- Guo, Y., Guo, X., Fan, L., Wang, Z., Qu, M., Zhang, C., Fan, X., Song, J., Wen-Xu, Yang, B., Zhang, J., Xu, R., Jiao, Y., Ma, P., Chen, Y., & Wang, F. (2023). The imbalance between intestinal Th17 and Treg cells is associated with an incomplete

immune reconstitution during long-term antiretroviral therapy in patients with HIV. *Viral Immunology*, 36, 331–342. <https://doi.org/10.1089/vim.2023.0017>

Haacker, M., Harris, K. L., & Meyer-Rath, G. (2020). *Productivity and employment of people living with HIV*. Economics of HIV Project. <https://www.heroza.org/wp-content/uploads/2021/01/Economic-Impact-of-HIV-Policy-Brief-06-Productivity-and-employment.pdf>

Harfiani, E., . M., & Nurhakim, A. D. (2020). Faktor apa yang mempengaruhi rendahnya tingkat pengobatan tuberkulosis di Lagoa Jakarta? *Jurnal Ilmiah Kesehatan Masyarakat : Media Komunikasi Komunitas Kesehatan Masyarakat*, 12, 110–117. <https://doi.org/10.52022/jikm.v12i3.80>

Harshithkumar, R., Shah, P., Jadaun, P., & Mukherjee, A. (2024). ROS chronicles in HIV Infection: genesis of oxidative stress, associated pathologies, and therapeutic strategies. *current issues in molecular Biology*, 46, 8852–8873. <https://doi.org/10.3390/cimb46080523>

Haryani, L., Ramadhani, N. R., Meirawan, R. F., & Burmanajaya, B. (2023). Gambaran faktor risiko pasien HIV dengan tuberkulosis di RSUD Kota Bogor. *Jurnal Epidemiologi Kesehatan Indonesia*, 7. <https://doi.org/10.7454/epidkes.v7i2.1085>

He, X., Aid, M., Ventura, J. D., Borducchi, E., Lifton, M., Liu, J., & Barouch, D. H. (2022). Rapid loss of CD4 T cells by pyroptosis during acute SIV infection in rhesus macaques. *Journal of Virology*, 96. <https://doi.org/10.1128/jvi.00808-22>

Heuvel, Y. van, Schatz, S., Rosengarten, J. F., & Stitz, J. (2022). Infectious RNA: human immunodeficiency virus (HIV) biology, therapeutic intervention, and the quest for a vaccine. *Toxins*, 14, 138. <https://doi.org/10.3390/toxins14020138>

Hileman, C. O., & Funderburg, N. T. (2017). Inflammation, immune activation, and antiretroviral therapy in HIV. *Current HIV/AIDS Reports*, 14, 93–100. <https://doi.org/10.1007/s11904-017-0356-x>

Hilmi, R. R., & Setiadi, D. (2024). Gambaran karakteristik penderita HIV/AIDS berbasis data di Kota Tasikmalaya tahun 2023. *Jurnal Rekam Medis dan Informasi Kesehatan (J-REMIKES)*. <https://ejurnal2.poltekkestasikmalaya.ac.id/index.php/jremikes/article/view/462>

- Hingrat, Q. Le, Sereti, I., Landay, A. L., Pandrea, I., & Apetrei, C. (2021). The hitchhiker guide to CD4+ T-Cell depletion in lentiviral infection. A Critical Review of the Dynamics of the CD4+ T Cells in SIV and HIV Infection. *Frontiers in Immunology*, *12*, 695674. <https://doi.org/10.3389/fimmu.2021.695674>
- Hoerter, A., Arnett, E., Schlesinger, L. S., & Pienaar, E. (2022). Systems biology approaches to investigate the role of granulomas in TB-HIV coinfection. *Frontiers in Immunology*, *13*. <https://doi.org/10.3389/fimmu.2022.1014515>
- Hoffmann, M. C., Pantazis, N., Martin, G. E., Hickling, S., Hurst, J., Meyerowitz, J., Willberg, C. B., Robinson, N., Brown, H., Fisher, M., Kinloch, S., Babiker, A., Weber, J., Nwokolo, N., Fox, J., Fidler, S., Phillips, R. E., Frater, J., Spartac, & Investigators, C. (2016). Exhaustion of activated CD8 T cells predicts disease progression in primary HIV-1 infection. *PLOS Pathogens*, *12*, e1005661–e1005661. <https://doi.org/10.1371/journal.ppat.1005661>
- Huson, M. A. M., Hoogendijk, A. J., de Vos, A. F., Grobusch, M. P., & van der Poll, T. (2016). The impact of HIV infection on blood leukocyte responsiveness to bacterial stimulation in asymptomatic patients and patients with bloodstream infection. *Journal of the International AIDS Society*, *19*. <https://doi.org/10.7448/IAS.19.1.20759>
- Indrati, A. R., Kosasih, F. N., Fadhilah, F., Pratiwi, A., Muthiah, U., Logito, V., Sumarpo, A., Haryanto, J., Munaya, S., Rosmiati, N. M. D., Turbawaty, D. K., & Wisaksana, R. (2025). Elevated levels of pro-inflammatory interleukin-6 in HIV immunological non-responders among the Indonesian population. *Diagnostics*, *15*, 959. <https://doi.org/10.3390/diagnostics15080959>
- J, N. H., Gopalan, N., VV, B. R., Hanna, L. E., C, P., M, T., Nair, D., S, R. K., Ganga, P., Cheedarla, N., Babu, H., Sathyamurthy, A. N., Nithyanandham, L., Muthuramalingam, K., G, M., R, M., & Chokusamy, K. (2024). Potential hematological biosignatures as screening tools for tuberculosis co-infection among people living with HIV. *Journal of Infectious Diseases & Therapy*, *12*, 1–7. <https://doi.org/10.4173/2332-0877.589>
- Jayaraman, P., Jacques, M. K., Zhu, C., Steblenko, K. M., Stowell, B. L., Madi, A., Anderson, A. C., Kuchroo, V. K., & Behar, S. M. (2016). TIM3 mediates T Cell exhaustion during mycobacterium tuberculosis infection. *PLOS Pathogens*, *12*, e1005490. <https://doi.org/10.1371/journal.ppat.1005490>

- Jha, V., Rustagi, K., Gharat, K., Sonawane, N., Rathod, M., Patel, R., Devkar, S., Dhamapurkar, V., & Kaur, N. (2022). Human immunodeficiency virus type 1: Role of proteins in the context of viral life cycle. *Journal of Advanced Biotechnology and Experimental Therapeutics*, 5, 307. <https://doi.org/10.5455/jabet.2022.d117>
- Johansen, I. S., Roen, A., Kraef, C., Martín-Iguacel, R., Nemeth, J., Fenner, L., Zangerle, R., Llibre, J. M., Miller, R. F., Suarez, I., Wit, S. de, Wit, F., Mussini, C., Saracino, A., Canetti, D., Volny-Anne, A., Jaschinski, N., Neesgaard, B., Ryom, L., ... Kirk, O. (2024). Risk of tuberculosis after initiation of antiretroviral therapy among persons with HIV in Europe. *International Journal of Infectious Diseases*, 147, 107199. <https://doi.org/10.1016/j.ijid.2024.107199>
- Kamvuma, K., Hamooya, B. M., Munsaka, S., Masenga, S. K., & Kirabo, A. (2024). Mechanisms and cardiorenal complications of chronic anemia in people with HIV. *Viruses*, 16, 542. <https://doi.org/10.3390/v16040542>
- Kanters, S., Vitoria, M., Zoratti, M., Doherty, M., Penazzato, M., Rangaraj, A., Ford, N., Thorlund, K., Anis, Prof. A. H., Karim, M. E., Mofenson, L., Zash, R., Calmy, A., Kredt, T., & Bansback, N. (2020). Comparative efficacy, tolerability and safety of dolutegravir and efavirenz 400mg among antiretroviral therapies for first-line HIV treatment: A systematic literature review and network meta-analysis. *EClinicalMedicine*, 28, 100573. <https://doi.org/10.1016/j.eclinm.2020.100573>
- Kayesh, M. E. H., Kohara, M., & Tsukiyama-Kohara, K. (2025). Effects of oxidative stress on viral infections: an overview. *Npj Viruses*, 3. <https://doi.org/10.1038/s44298-025-00110-3>
- Kelley, C. F., Pollack, I., Yacoub, R., Zhu, Z., Van, V. E., Gumber, S., Amara, R. R., Fedirko, V., Kraft, C. S., Tom, T., Hu, Y., Ackerley, C. G., Sullivan, P. S., & Bostick, R. M. (2021). Condomless receptive anal intercourse is associated with markers of mucosal inflammation in a cohort of men who have sex with men in Atlanta, Georgia. *Journal of the International AIDS Society*, 24. <https://doi.org/10.1002/jia2.25859>

- Kemkes RI. (2019). *Pedoman nasional pelayanan kedokteran: tata laksana HIV*. Direktorat Jenderal Pelayanan Kesehatan, Kementerian Kesehatan Republik Indonesia. <https://kemkes.go.id/id/pnpk-2019—tata-laksana-hiv>
- Kemkes RI. (2023). *Petunjuk teknis kolaborasi TBC HIV*. Direktorat Jenderal Pencegahan dan Pengendalian Penyakit, Kementerian Kesehatan Republik Indonesia. <https://hivaidspimsindonesia.or.id/download?kategori=Modul#:~:text=Buku%20Permenkes%20ARV%20Cetak,JKN%20BAGI%20POPULASI%20KUNCI%202016>
- Kemkes RI. (2024). *Laporan program penanggulangan tuberkulosis tahun 2023*. Jakarta: Kementerian kesehatan. Kementrian Kesehatan RI. https://tbindonesia.or.id/wp-content/uploads/2024/12/Laporan-Program-Penanggulangan-TBC-2023_Final.pdf
- Kemkes RI. (2025). *Berani Tes, Berani Lindungi Diri, Kemenkes Targetkan Eliminasi HIV dan IMS Tahun 2030*. <https://kemkes.go.id/id/berani-tes-berani-lindungi-diri-kemkes-targetkan-eliminasi-hiv-dan-ims-tahun-2030>
- Kemnic, T. R., & Gulick, P. G. (2022). *HIV Antiretroviral Therapy*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK513308/>
- Kengo, A., Nabisere, R., Gausi, K., Musaaazi, J., Buzibye, A., Omali, D., Aarnoutse, R., Lamorde, M., Dooley, K. E., Sloan, D. J., Denti, P., & Sekaggya-Wiltshire, C. (2023). Dolutegravir pharmacokinetics in Ugandan patients with TB and HIV receiving standard- versus high-dose rifampicin. *Antimicrobial Agents and Chemotherapy*, 67. <https://doi.org/10.1128/aac.00430-23>
- Khan, N. H., Verma, C., Beg, M. M. A., Kumar, S. N., Kaushik, G., Ahmad, H., Osmonaliev, K., & Kumar, V. (2024). Evolution of hematobiochemical profiles in newly diagnosed HIV patients and HIV-TB co-infected patients: correlation with immunological and virological status. *ImmunoTargets and Therapy*, 13, 691–705. <https://doi.org/10.2147/ITT.S495295>
- Kordovski, V. M., Woods, S. P., Verduzco, M., & Beltran, J. (2017). The effects of aging and HIV disease on employment status and functioning. *Rehabilitation Psychology*, 62, 591–599. <https://doi.org/10.1037/rep0000175>

- Kumari, R., Roy, P., Malhotra, S., Kamble, U., & Kaur, N. (2025). Study of CD4 counts recovery in TB-HIV coinfecting patients versus TB uninfected HIV positive patients after (six months) treatment. *Annals of the National Academy of Medical Sciences (India)*, *0*, 1–7. https://doi.org/10.25259/anams_83_2024
- Kurniawati, Y. (2023). Pengaruh tingkat pendidikan dengan kejadian HIV/AIDS. *Jurnal Bidan Pintar*, *3*. <https://doi.org/10.30737/jubitar.v3i2.1674>
- Lamsira, H. K., Sabatini, A., Ciolfi, S., Ciccocanti, F., Sacchi, A., Piacentini, M., & Nardacci, R. (2025). Autophagy and programmed cell death modalities interplay in HIV pathogenesis. *Cells*, *14*, 351. <https://doi.org/10.3390/cells14050351>
- Lelisho, M. E., Wotale, T. W., Tareke, S. A., Alemu, B. D., Hassen, S. S., Yemane, D. M., Korsas, B. B., & Bedaso, N. G. (2022). Survival rate and predictors of mortality among TB/HIV co-infected adult patients: retrospective cohort study. *Scientific Reports*, *12*. <https://doi.org/10.1038/s41598-022-23316-4>
- Liu, G., Liu, S., Zhang, C., Chen, X., Li, W., & Li, H. (2025). Modeling the effects of a Shock-and-Kill Treatment for HIV: Latency-Reversing Agents and Natural Killer Cells. *PubMed*, *87*, 116. <https://doi.org/10.1007/s11538-025-01498-y>
- Lombardi, F., Belmonti, S., Sanfilippo, A., Borghetti, A., Iannone, V., Salvo, P. F., Fabbiani, M., Visconti, E., & Giambenedetto, S. Di. (2024). Factors associated with oxidative stress in virologically suppressed people living with HIV on long-term antiretroviral therapy. *AIDS Research and Therapy*, *21*. <https://doi.org/10.1186/s12981-024-00694-5>
- Lumu, I., Musaazi, J., Semeere, A., Handel, I., & Castelnuovo, B. (2023). Survival and predictors of mortality after completion of TB treatment among people living with HIV: a 5-year analytical cohort. *BMC Infectious Diseases*, *23*. <https://doi.org/10.1186/s12879-023-08217-9>
- Lv, X., Li, P., Yue, P., Tang, P., & Zhou, F. (2023). Risk factors and prognosis of thrombocytopenia in people living with HIV/AIDS. *Therapeutic Advances in Hematology*, *14*, 204062072311705–204062072311705. <https://doi.org/10.1177/20406207231170513>
- Lwanga, S. K., & Lemeshow, S. (1991). *Sample Size Determination in Health Studies: a practical manual*. Taylor & Francis.

https://www.researchgate.net/publication/39015031_Sample_Size_Determination_in_Health_Studies_A_Practical_Manual

- M, Y., Vamja, R., Makwana, N., Parmar, P. A., & Sundar, S. (2025). Haematological markers as predictive tools for tuberculosis in PLHIV: a retrospective cohort study in Gujarat, India. *BMC Infectious Diseases*, 25. <https://doi.org/10.1186/s12879-025-10625-y>
- Maharani, M. W., Yusmaini, H., Karina, K., & Harfiani, E. (2022). Hubungan pemberian obat anti tuberkulosis dengan kejadian efek sampingnya pada pasien tuberkulosis paru di RSUD Sumedang Tahun 2022. *Seminar Nasional Riset Kedokteran*, 5. <https://conference.upnvj.ac.id/index.php/sensorik/article/view/2800>
- Mahdani, F. Y., Bakti, R. K., Nisa, G. S. N., & Queen, H. (2024). Variations in hemoglobin levels among PLWH undergoing antiretroviral therapy. *World Journal of Advanced Research and Reviews*, 24, 3185–3190. <https://doi.org/10.30574/wjarr.2024.24.3.4005>
- Marchionatti, A., & Parisi, M. M. (2020). Anemia and thrombocytopenia in people living with HIV/AIDS: a narrative literature review. *International Health*, 13, 98–109. <https://doi.org/10.1093/inthealth/ihaa036>
- Maria, I., Aurora, W. I. D., Darmawan, A., Kusdiyah, E., & Nuriah, N. (2023). *Anemia status in high school students, Jambi City*. https://scholar.google.com/citations?view_op=view_citation&hl=en&user=cCjsHdkAAAAJ&cstart=20&pagesize=80&citation_for_view=cCjsHdkAAAAJ:M3ejUd6NZC8C
- Masnarivan, Y., Khairiyah, F., Maharani, D., Yelna, H. F., & Zachrany, N. Q. (2024). Analysis of condom use behavior, number of partners, and injecting drugs with the incidence of HIV/AIDS in Indonesia: a systematic review and meta analysis. *Jambi Medical Journal: Jurnal Kedokteran Dan Kesehatan*, 11, 323–333. <https://doi.org/10.22437/jmj.v11i3.25116>
- Mastini, K. A., Djoerban, Z., Yuniastuti, E., & Shatri, H. (2017). Gambaran pemberian profilaksis primer kotrimoksazol pada pasien HIV dewasa di unit pelayanan terpadu HIV RSCM Tahun 2004-2013. *Jurnal Penyakit Dalam Indonesia*, 4, 169. <https://doi.org/10.7454/jpdi.v4i4.151>

- Meiyanti, M., Bachtiar, A., Yohana, Y., Margo, E., Merijanti, T. L., Alvina, A., & Pusparini, P. (2024). Exploring the determinants of adherence to pulmonary tuberculosis treatment during 2018-2023 in Indonesia: A literature review. *Azerbaijan Medical Journal*, *64*, 11301–11315. https://repository.karyailmiah.trisakti.ac.id/documents/repository/artikel_meiyanti-exploring-the-determinants-of-adherence-to-pulmonary-tuberculosis-treatment-during-2018-2023-in-indonesia.pdf
- Mekonnen, G. B., & Addis, S. A. (2020). Factors affecting adherence to co-trimoxazole preventive therapy in hiv/aids patients attending an antiretroviral therapy clinic in ethiopia university hospital: A Cross-Sectional Study. *Patient Preference and Adherence*, *Volume 14*, 881–890. <https://doi.org/10.2147/ppa.s252805>
- Merati, T. P., Yuniastuti, E., Wisaksana, R., Kurniati, N., Arlinda, D., Karyana, M., Susanto, N. H., Lokida, D., Kosasih, H., Diana, A., Bang, L. E., Setyaningrum, M., Amin, D. M., Eppy, E., Cahyawati, W. A. S. N., Danudirgo, E. W., Made, I., Farhanah, N., Gunawan, C. A., Watkins, K. (2025). A prospective observational cohort study of HIV infection in Indonesia: baseline characteristics and one-year mortality. *BMC Infectious Diseases*, *25*. <https://doi.org/10.1186/s12879-024-10354-8>
- Moges, S., & Lajore, B. A. (2024). Mortality and associated factors among patients with TB-HIV co-infection in Ethiopia: a systematic review and meta-analysis. *BMC Infectious Diseases*, *24*. <https://doi.org/10.1186/s12879-024-09683-5>
- Moges, S., Lajore, B. A., Debesay, B. A., & Belato, D. T. (2025). Advanced stage disease progression and mortality rate before and after the implementation of the Universal Test and Treat Strategy (UTT) for HIV patients in Ethiopia: a systematic review and meta-analysis. *Journal of Epidemiology and Global Health*, *15*. <https://doi.org/10.1007/s44197-025-00422-w>
- Moretti, S., Schietroma, I., Sberna, G., Maggiorella, M. T., Sernicola, L., Farcomeni, S., Giovanetti, M., Ciccozzi, M., & Borsetti, A. (2023). HIV-1–host interaction in gut-associated lymphoid tissue (GALT): effects on local environment and comorbidities. *International Journal of Molecular Sciences*, *24*, 12193. <https://doi.org/10.3390/ijms241512193>

- Mu, W., Patankar, V., Kitchen, S., & Zhen, A. (2024). Examining chronic inflammation, immune metabolism, and T Cell dysfunction in HIV infection. *Viruses*, *16*, 219. <https://doi.org/10.3390/v16020219>
- Muhie, N. S. (2024). Joint clinical determinants for bivariate hematological parameter among TB/HIV co-infected adults under TB/HIV treatment in university of Gondar comprehensive specialized hospital: Retrospective panel data study. *BMC Research Notes*, *17*. <https://doi.org/10.1186/s13104-024-06808-6>
- Muhie, N. S., & Tegegne, A. S. (2023). Predictors for CD4 cell count and hemoglobin level with survival time to default for HIV positive adults under ART treatment at University of Gondar Comprehensive and Specialized Hospital, Ethiopia. *BMC Research Notes*, *16*. <https://doi.org/10.1186/s13104-023-06625-3>
- Nababan, B., Triasih, R., Chan, G., Dwihardiani, B., Hidayat, A., Dewi, S. C., Unwanah, L., Mustofa, A., & Cros, P. du. (2024). The yield of active tuberculosis disease and latent tuberculosis infection in tuberculosis household contacts investigated using chest x-ray in Yogyakarta Province, Indonesia. *Tropical Medicine and Infectious Disease*, *9*, 34. <https://doi.org/10.3390/tropicalmed9020034>
- Nabila, N. A., Karim, M. A., & Akhmad, A. D. (2025). Characteristics and evaluation of potential drug interactions among HIV/AIDS outpatients: a retrospective study at primary health center in a North Lampung regency, Indonesia. *Pharmacy Reports*, *5*, 102. <https://doi.org/10.51511/pr.102>
- Nabipur, L., Mouawad, M., & Venketaraman, V. (2025). Additive effects of glutathione in improving antibiotic efficacy in HIV-*M.tb* co-infection in the central nervous system: a systematic review. *Viruses*, *17*, 127. <https://doi.org/10.3390/v17010127>
- National Institute of Allergy and Infectious Diseases. (2018). *HIV replication cycle* | NIH: National Institute of Allergy and Infectious Diseases. <https://www.niaid.nih.gov/diseases-conditions/hiv-replication-cycle>
- NHLBI. (2022). *Platelet Disorders - Thrombocytopenia*. <https://www.nhlbi.nih.gov/health/thrombocytopenia>

- Nia, G. E., Mohammadi, M., Sharifzadeh, M., Ghalamfarsa, G., & Bolhassani, A. (2024). The role of T regulatory cells in the immunopathogenesis of HIV: Clinical implications. *The Brazilian Journal of Infectious Diseases*, 103866. <https://doi.org/10.1016/j.bjid.2024.103866>
- NIH. (2021). *The HIV life cycle*. <https://hivinfo.nih.gov/understanding-hiv/fact-sheets/hiv-life-cycle>
- NIH. (2025). *HIV and tuberculosis (TB)*. <https://hivinfo.nih.gov/understanding-hiv/fact-sheets/hiv-and-tuberculosis-tb>
- Novitasari, M., Novita Sari, L., Sutrisna, M., & Rosyadi, I. (2025). Profil dan kondisi stadium klinis pasien HIV/AIDS di RSUD Dr. M. Yunus Kota Bengkulu Tahun 2024. *Jurnal Keperawatan Duta Medika*, 5, 9–15. <https://doi.org/10.47701/dutamedika.v5i1.4747>
- Ocampo, F. F. (2025). *An Overview of neurologic complications of HIV and opportunistic infections*. <https://practicalneurology.com/diseases-diagnoses/imaging-testing/an-overview-of-neurologic-complications-of-hiv-and-opportunistic-infections/32154/>
- Octaviani, A., Setyaningrum, R., & Fadillah, N. A. (2022). Faktor-faktor yang berhubungan dengan perilaku pencegahan HIV-AIDS pada supir truk. *Jurnal Publikasi Kesehatan Masyarakat Indonesia*, 8. <https://doi.org/10.20527/jpkmi.v8i2.12367>
- Oktavia, M., Firdawati, F., & Irfandy, D. (2024). Gambaran faktor risiko penularan HIV/AIDS pada kelompok lelaki seks lelaki di Kota Bukittinggi. *Jurnal Ilmu Kesehatan Indonesia*, 5, 204–212. <https://doi.org/10.25077/jikesi.v5i3.933>
- Opie, J., Verburgh, E., Bailly, J., Mayne, E., & Louw, V. (2024). Hematological complications of HIV infection: An Update from an HIV-endemic setting. *Open Forum Infectious Diseases*, 11. <https://doi.org/10.1093/ofid/ofae162>
- Ouyang, J., Yan, J., Zhou, X., Isnard, S., Harypursat, V., Cui, H., Routy, J.-P., & Chen, Y. (2023). Relevance of biomarkers indicating gut damage and microbial translocation in people living with HIV. *Frontiers in Immunology*, 14, 1173956. <https://doi.org/10.3389/fimmu.2023.1173956>

- Paiardini, M., & Trutwin, M. M.-. (2013). HIV-associated chronic immune activation. *Immunological Reviews*, 254, 78–101. <https://doi.org/10.1111/imr.12079>
- Pascual, M. R. (2019). *HIV-1 virus cycle replication: a review of RNA polymerase II transcription, alternative splicing and protein synthesis*. <https://arxiv.org/abs/1903.05067>
- Patel, A., Pundkar, A., Agarwal, A., Gadkari, C., Nagpal, A. K., & Kuttan, N. (2024). A comprehensive review of HIV-associated tuberculosis: clinical challenges and advances in management. *Cureus*. <https://doi.org/10.7759/cureus.68784>
- Permenkes RI. (2014). *Peraturan menteri kesehatan republik indonesia nomor 87 tahun 2014...* <https://www.medbox.org/document/peraturan-menteri-kesehatan-republik-indonesia-nomor-87-tahun-2014-tentang-pedoman-pengobatan-antiretroviral>
- Permenkes RI. (2022). *Peraturan kementerian kesehatan No. 23 tahun 2022*. <https://peraturan.bpk.go.id/Details/245543/permenkes-no-23-tahun-2022>
- Pertiwi, I., Windyaningsih, C., Rusli, A., & Murtiani, F. (2023). Ko-Infeksi HIV-TB: Studi cross sectional. *Jurnal Informatika Dan Multimedia: JIM*, 9, 173–181. <https://doi.org/10.25311/keskom.vol9.iss1.1303>
- Pooranagangadevi, N., & Padmapriyadarsini, C. (2022). Treatment of tuberculosis and the drug interactions associated with HIV-TB co-infection treatment. *Frontiers in Tropical Diseases*, 3. <https://doi.org/10.3389/fitd.2022.834013>
- Prajapat, B., & Sandhya, A. S. (2017). Thrombocytopenia in HIV patients coinfecting with tuberculosis. *Journal of Family Medicine and Primary Care*, 6, 859. https://doi.org/10.4103/jfmmpc.jfmmpc_250_17
- Pramono, R. A., & Ayuningtyas, D. (2023). Analisis orang dengan HIV (ODHIV) baru terdiagnosa di Provinsi Jakarta Tahun 2023. *Journal of Mandalika Literature*, 5, 1119–1124. <https://doi.org/10.36312/jml.v5i4.3731>
- Premeaux, T. A., Javandel, S., Hosaka, K. R. J., Greene, M., Therrien, N., Allen, I. E., Corley, M. J., Valcour, V., & Ndhlovu, L. C. (2020). Associations between plasma immunomodulatory and inflammatory mediators with VACS index scores among older HIV-infected adults on antiretroviral therapy. *Frontiers in Immunology*, 11. <https://doi.org/10.3389/fimmu.2020.01321>

- Pretorius, E. (2021). Platelets in HIV: A guardian of host defence or transient reservoir of the virus? *Frontiers in Immunology*, 12. <https://doi.org/10.3389/fimmu.2021.649465>
- Quercia, R., Perri, G. Di, Pein, C., Bodie, J., Ravi, Hendrick, V., & Boffito, M. (2024). Ritonavir: 25 years' experience of concomitant medication management. a narrative review. *Infectious Diseases and Therapy*. <https://doi.org/10.1007/s40121-024-00959-6>
- Rallón, N., García, M., García-Samaniego, J., Cabello, A., Álvarez, B., Restrepo, C., Nistal, S., Górgolas, M., & Benito, J. M. (2018). Expression of PD-1 and Tim-3 markers of T-cell exhaustion is associated with CD4 dynamics during the course of untreated and treated HIV infection. *PLoS ONE*, 13, e0193829–e0193829. <https://doi.org/10.1371/journal.pone.0193829>
- Ramdas, P., Sahu, A. K., Mishra, T., Bhardwaj, V., & Chande, A. (2020). From entry to egress: strategic exploitation of the cellular processes by HIV-1. *Frontiers in Microbiology*, 11, 559792. <https://doi.org/10.3389/fmicb.2020.559792>
- Reynaldi, A., Trisiswati, M., & Riani, S. N. (2024). Hubungan pengetahuan, sikap, dan perilaku terhadap HIV-AIDS pada pelaut perempuan di Indonesia. *Junior Medical Journal*, 2, 618–629. <https://doi.org/10.33476/jmj.v2i5.4089>
- Roade, L., Burgos, J., Fábregas, A. C., Navarro, J., Willekens, R., Gómez, M., Pascuet, E. R., & Ferrer, V. F. (2018). Immune reconstitution inflammatory syndrome in HIV-infected patients with *Pneumocystis jirovecii* pneumonia. *Enfermedades Infecciosas y Microbiología Clínica*, 36, 621–626. <https://doi.org/10.1016/j.eimc.2017.11.002>
- Rosamarlina, R., Hatta, M., Murtiani, F., & Widiyanti, A. D. (2024). Profile of clinical, radiological and laboratory pattern in TB-HIV coinfection in national infection centre of indonesia. *Jurnal Ilmiah Kedokteran Wijaya Kusuma*, 13, 135. <https://doi.org/10.30742/jikw.v13i2.3959>
- Rossouw, T. M., & Feldman, C. (2021). Editorial: the role of platelet activation in the pathophysiology of HIV, tuberculosis and pneumococcal disease. *Frontiers in Immunology*, 12. <https://doi.org/10.3389/fimmu.2021.737016>

- Ruiz, F. X., & Arnold, E. (2020). Evolving understanding of HIV-1 reverse transcriptase structure, function, inhibition, and resistance. *Current Opinion in Structural Biology*, *61*, 113–123. <https://doi.org/10.1016/j.sbi.2019.11.011>
- Saag, M. S., Gandhi, R. T., Hoy, J. F., Landovitz, R. J., Thompson, M. A., Sax, P. E., Smith, D. M., Benson, C. A., Buchbinder, S. P., del Rio, C., Eron, J. J., Fätkenheuer, G., Günthard, H. F., Molina, J.-M., Jacobsen, D. M., & Volberding, P. A. (2020). Antiretroviral drugs for treatment and prevention of HIV infection in adults. *JAMA*, *324*, 1651. <https://doi.org/10.1001/jama.2020.17025>
- Salindri, A. D., Kipiani, M., Lomtadze, N., Tukvadze, N., Avaliani, Z., Blumberg, H. M., Masyn, K. E., Rothenberg, R. B., Kempker, R. R., & Magee, M. J. (2024). HIV co-infection increases the risk of post-tuberculosis mortality among persons who initiated treatment for drug-resistant tuberculosis. *Scientific Reports*, *14*. <https://doi.org/10.1038/s41598-024-68605-2>
- Scully, E. P., & Bryson, B. D. (2021). Unlocking the complexity of HIV and Mycobacterium tuberculosis coinfection. *Journal of Clinical Investigation*, *131*. <https://doi.org/10.1172/jci154407>
- Shah, G. H., Ewetola, R., Etheredge, G., Maluantesa, L., Waterfield, K., Engetele, E., & Kilundu, A. (2021). Risk factors for TB/HIV coinfection and consequences for patient outcomes: evidence from 241 Clinics in the Democratic Republic of Congo. *International Journal of Environmental Research and Public Health*, *18*, 5165. <https://doi.org/10.3390/ijerph18105165>
- Shen, Y. (2024). Mycobacterium tuberculosis and HIV co-infection: a public health problem that requires ongoing attention. *Viruses*, *16*, 1375. <https://doi.org/10.3390/v16091375>
- Shytaj, I. L., Procopio, F. A., Tarek, M., Carlón-Andrés, I., Tang, H., Goldman, A. R., Munshi, M., Pal, V. K., Forcato, M., Sreeram, S., Leskov, K., Ye, F., Lucic, B., Cruz, N., Ndhlovu, L. C., Bicciato, S., Padilla-Parra, S., Diaz, R. S., Singh, A., ... Savarino, A. (2021). Glycolysis downregulation is a hallmark of HIV-1 latency and sensitizes infected cells to oxidative stress. *Embo Molecular Medicine*, *13*. <https://doi.org/10.15252/emmm.202013901>
- Simorangkir, T. L., Sianturi, S. R., & Supardi, S. (2021). Hubungan antara karakteristik, tingkat pengetahuan dan stigma pada penderita HIV/AIDS. *Jurnal*

Ilmu Keperawatan Dan Kebidanan, 12, 208.
<https://doi.org/10.26751/jikk.v12i2.789>

Sitorus, R. januar, Murinata, J., Antara, N. Y., Sangalang, R. V., & Panjaitan, M. N. (2024). Epidemiological aspects of HIV-TB co-infection in people with HIV/AIDS (PLWHA): a hospital-based study. *The Indonesian Journal of Public Health*, 19, 419–429. <https://doi.org/10.20473/ijph.v19i3.2024.419-429>

Spletstoeser, T. (2014). *English: Diagram of the HIV virion*.
https://commons.wikimedia.org/wiki/File:HI-virion-structure_en.svg

Stupfler, B., Verriez, C., Gallois-Montbrun, S., Marquet, R., & Paillart, J.-C. (2021). Degradation-independent inhibition of APOBEC3G by the HIV-1 Vif Protein. *Viruses*, 13, 617. <https://doi.org/10.3390/v13040617>

Subronto, Y. W., Kusmayanti, N. A., Abdalla, A. S., & Sattwika, P. D. (2020). Nevirapine and tuberculosis predict first-line treatment failure in HIV patients in Indonesia: Case-control study. *Annals of Medicine and Surgery*, 60, 56–60. <https://doi.org/10.1016/j.amsu.2020.10.005>

Subronto, Y. W., Wijisaksono, D. P., & Helmi, H. (2025). Factors associated with human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) related mortality at Dr. Sardjito Hospital in Indonesia. *Acta Medica Indonesiana*, 57, 306–313. <https://pubmed.ncbi.nlm.nih.gov/41047788/>

Sujianti, S. (2019). Karakteristik orang dengan HIV/AIDS perempuan di Klinik Voluntary Counselling and Testing (VCT) RSUD Cilacap 2014-2016. *JURNAL KEBIDANAN*, 9. <https://doi.org/10.33486/jk.v9i1.68>

Sulastri, N., Alisjahbana, B., Livia, R., & Sahiratmadja, E. (2021). Higher neutrophil-lymphocyte ratio in TB/HIV Co-infection compared to pulmonary tuberculosis. *The Indonesian Biomedical Journal*, 13, 375–382. <https://doi.org/10.18585/inabj.v13i4.1698>

Swinkles, H. M., Nguyen, A. D., & Gulick, P. G. (2024). *HIV and AIDS syndrome*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK534860/>

Tang, X.-Z., Ma, Y., Ma, Y., Chen, Q., Zou, L.-P., Fu, X.-Y., Huang, T., Tang, S.-J., & Wu, G.-H. (2025). Epidemiology of tuberculosis and HIV coinfection among

- inpatients in chengdu, china, 2018–2022. *BMC Infectious Diseases*, 25. <https://doi.org/10.1186/s12879-025-11316-4>
- Taroeno, S. A., Mahmuda, I. novita N., & Nugrahaeni, S. F. (2024). Hematological alteration in HIV patients. *JHeS (Journal of Health Studies)*, 8, 46–53. <https://doi.org/10.31101/jhes.3721>
- Teer, E., Mukonowenzou, N. C., & Essop, M. F. (2025). HIV, inflammation, and immunometabolism: a model of the inflammatory theory of disease. *Viruses*, 17, 839. <https://doi.org/10.3390/v17060839>
- Thapa, S., & Shrestha, U. (2022). *Immune reconstitution inflammatory syndrome*. StatPearls Publishing. <https://www.ncbi.nlm.nih.gov/books/NBK567803/>
- Tian, X., Wang, C., Hao, Z., Chen, J., & Wu, N. (2024). Global, regional, and national burden of HIV and tuberculosis and predictions by Bayesian age-period-cohort analysis: a systematic analysis for the global burden of disease study 2021. *Frontiers in Reproductive Health*, 6. <https://doi.org/10.3389/frph.2024.1475498>
- Tilahun, M., Gedefie, A., Ebrahim, E. A., Seid, A., Ali, A., Shibabaw, A., Belete, M. A., Fiseha, M., Tesfaye, M., Ebrahim, H., & Abera, A. (2022). Immuno-haematological abnormalities of HIV-infected patients before and after initiation of highly active antiretroviral therapy in the antiretroviral therapy Clinics of Six Health Facilities at Dessie Town, Northeast Ethiopia. *Immuno-Haematological Abnormalities of HIV-Infected Patients before and after Initiation of Highly Active Antiretroviral Therapy in the Antiretroviral Therapy Clinics of Six Health Facilities at Dessie Town, Northeast Ethiopia, Volume 13*, 243–253. <https://doi.org/10.2147/jbm.s364700>
- UNAIDS. (2022). *UNAIDS data 2022*. https://www.unaids.org/en/resources/documents/2023/2022_unaids_data
- UNAIDS. (2023). *UNAIDS data 2023*. https://www.unaids.org/en/resources/documents/2023/2023_unaids_data
- UNAIDS. (2024). *The urgency of now: AIDS at a crossroads — 2024 global AIDS update*. <https://www.unaids.org/en/resources/documents/2024/global-aids-update-2024>

- UNAIDS. (2025). *HIV AIDS asia pacific research statistical data information resources - AIDS Data Hub* | . <https://aphub.unaids.org/>
- Usman, A., Balogun, O., Shuaib, B. I., Musa, P., Yusuf, A. A., & Ebenezer. (2023). Prevalence of cytopenia and its correlation with immunosuppression in naïve HIV-1 infected patients initiating first-line antiretroviral therapy: a pilot study. *Infection and Chemotherapy*, 55, 479. <https://doi.org/10.3947/ic.2023.0080>
- Vijayan, K. K. V., Karthigeyan, K. P., Tripathi, S. P., & Hanna, L. E. (2017). Pathophysiology of CD4+ T-Cell depletion in HIV-1 and HIV-2 infections. *Frontiers in Immunology*, 8. <https://doi.org/10.3389/fimmu.2017.00580>
- Vujkovic-Cvijin, I., Sortino, O., Verheij, E., Wit, F. W., Kootstra, N. A., Sellers, B., van, Belkaid, Y., Reiss, P., & Sereti, I. (2021). The complement pathway is activated in people with human immunodeficiency virus and is associated with Non-AIDS comorbidities. *The Journal of Infectious Diseases*, 224, 1405–1409. <https://doi.org/10.1093/infdis/jiab096>
- Wang, X., & Cheng, Z. (2020). Cross-sectional studies: Strengths, weaknesses, and recommendations. *Chest*, 158, 65–71. [https://journal.chestnet.org/article/S0012-3692\(20\)30462-1/fulltext](https://journal.chestnet.org/article/S0012-3692(20)30462-1/fulltext)
- Wardhani, B. D. K., Grulich, A. E., Kawi, N. H., Prasetia, Y., Luis, H., Wirawan, B. S., Pradnyani, P. E., Kaldor, J., Law, M., Ronoatmodjo, S., Sihotang, E. P., Januraga, P. P., & Bavinton, B. R. (2024). Very high HIV prevalence and incidence among men who have sex with men and transgender women in Indonesia: a retrospective observational cohort study in Bali and Jakarta, 2017–2020. *Journal of the International AIDS Society*, 27. <https://doi.org/10.1002/jia2.26386>
- WHO. (2021). *Consolidated guidelines on HIV prevention, testing, treatment, service delivery and monitoring: Recommendations for a public health approach*. <https://www.who.int/publications/i/item/9789240031593>
- WHO. (2023). *Global tuberculosis report 2023*. <https://www.who.int/teams/global-programme-on-tuberculosis-and-lung-health/tb-reports/global-tuberculosis-report-2023>

- WHO. (2024). *HIV and AIDS*. <https://www.who.int/news-room/fact-sheets/detail/hiv-aids>
- Wong, K., Nguyen, J., Blair, L., Banjanin, M., Grewal, B., Bowman, S., Boyd, H., Gerstner, G., Cho, H. J., Panfilov, D., Tam, C. K., Aguilar, D., & Venketaraman, V. (2020). Pathogenesis of Human Immunodeficiency Virus-Mycobacterium tuberculosis Co-Infection. *Journal of Clinical Medicine*, *9*, 3575. <https://doi.org/10.3390/jcm9113575>
- Wu, Z., Zheng, Y., Sheng, J., Han, Y., Yang, Y., Pan, H., & Yao, J. (2022). CD3+CD4-CD8- (Double-Negative) T cells in inflammation, immune disorders and cancer. *Frontiers in Immunology*, *13*. <https://doi.org/10.3389/fimmu.2022.816005>
- Wulandari, E. D., Norsiah, W., & Insana, A. (2025). Impact of antiretroviral therapy duration on hematology profile in HIV patients at Buntok Health Center, Indonesia. *Tropical Health and Medical Research*, *7*, 1–24. <https://doi.org/10.35916/thmr.v7i1.128>
- Xia, C., Zhang, X., Harypursat, V., Ouyang, J., & Chen, Y. (2023). The role of pyroptosis in incomplete immune reconstitution among people living with HIV : Potential therapeutic targets. *Pharmacological Research*, *197*, 106969. <https://doi.org/10.1016/j.phrs.2023.106969>
- Xiao, P., Chen, X., Chen, Y., Fan, W., Dong, Z., Huang, J., & Zhang, Y. (2023). CD4+ T cell count in HIV/TB co-infection and co-occurrence with HL: Case report and literature review. *Open Life Sciences*, *18*. <https://doi.org/10.1515/biol-2022-0744>
- Yang, Q., Han, J., Shen, J., Peng, X., Zhou, L., & Yin, X. (2022). Diagnosis and treatment of tuberculosis in adults with HIV. *Medicine*, *101*, e30405. <https://doi.org/10.1097/MD.00000000000030405>
- Yu, F., Ma, C., Jin, X., Zhao, H., Xiao, J., Li, L., Song, S., Xie, X., Yang, S., Tang, Y., Wang, L., & Zhang, F. (2024). Mitochondrial disturbance related to increased caspase-1 of CD4+T cells in HIV-1 infection. *BMC Infectious Diseases*, *24*. <https://doi.org/10.1186/s12879-023-08485-5>
- Yuniati, S. K., & Kusmiati, T. (2024). Factors associated with absence of active pulmonary tuberculosis in HIV patients with latent tuberculosis, beyond Isoniazid

preventive therapy. *International Journal of Mycobacteriology*, *13*, 293–298. https://doi.org/10.4103/ijmy.ijmy_146_24

Zayas, J. P., & Mamede, J. I. (2022). HIV infection and spread between Th17 Cells. *Viruses*, *14*, 404. <https://doi.org/10.3390/v14020404>

Zewdu, W. S., Zeleke, M. M., Ferede, Y. A., Kassie, A. B., Singh, P., Alemu, M. A., & Desta, G. T. (2024). Unveiling the prevalence of anaemia and its predictors among adults on highly active antiretroviral therapy in the dolutegravir era: a retrospective cross-sectional study. *BMJ Open*, *14*, e086480. <https://doi.org/10.1136/bmjopen-2024-086480>

Zhang, C., Song, J.-W., Huang, H.-H., Fan, X., Huang, L., Deng, J.-N., Tu, B., Wang, K., Li, J., Zhou, M.-J., Yang, C.-X., Zhao, Q.-W., Yang, T., Wang, L.-F., Zhang, J.-Y., Xu, R.-N., Jiao, Y.-M., Shi, M., Shao, F., Wang, F.-S. (2021). NLRP3 inflammasome induces CD4⁺ T cell loss in chronically HIV-1–infected patients. *Journal of Clinical Investigation*, *131*. <https://doi.org/10.1172/jci138861>

Zhang, N., Savic, R. M., Boeree, M. J., Peloquin, C. A., Weiner, M., Heinrich, N., Bliven-Sizemore, E., Phillips, P. P. J., Hoelscher, M., Whitworth, W., Morlock, G., Posey, J., Stout, J. E., Mac Kenzie, W., Aarnoutse, R., & Dooley, K. E. (2021). Optimising pyrazinamide for the treatment of tuberculosis. *European Respiratory Journal*, *58*, 2002013. <https://doi.org/10.1183/13993003.02013-2020>

Zhao, A. V., Crutchley, R. D., Guduru, R. C., Ton, K., Lam, T., & Min, A. C. (2022). A clinical review of HIV integrase strand transfer inhibitors (INSTIs) for the prevention and treatment of HIV-1 infection. *Retrovirology*, *19*. <https://doi.org/10.1186/s12977-022-00608-1>

Zhao, Y., Zhao, K., Wang, S.-H., & Du, J. (2022). Multi-functional BST2/tetherin against HIV-1, other viruses and LINE-1. *Multi-Functional BST2/Tetherin against HIV-1, Other Viruses and LINE-1*, *12*. <https://doi.org/10.3389/fcimb.2022.979091>

Zhou, Y.-H., Sun, L., Chen, J., Sun, W.-W., Ma, L., Han, Y., Jin, X., Zhao, Q.-X., Li, T., Lu, H., Qiu, X., & Wang, J.-H. (2019). Tryptophan metabolism activates aryl hydrocarbon receptor-mediated pathway to promote HIV-1 infection and reactivation. *MBio*, *10*. <https://doi.org/10.1128/mbio.02591-19>

Zicari, S., Sessa, L., Cotugno, N., Ruggiero, A., Morrocchi, E., Concato, C., Rocca, S., Zangari, P., Manno, E., & Palma, P. (2019). Immune activation, inflammation, and Non-AIDS co-morbidities in HIV-infected patients under long-term ART. *Viruses*, *11*, 200. <https://doi.org/10.3390/v11030200>

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