



DAFTAR PUSTAKA

- Agarwal, A., Rochwerg, B., Lamontagne, F., Siemieniuk, R. A., Agoritsas, T., Askie, L., Lytvyn, L., Leo, Y.-S., Macdonald, H., Zeng, L., Amin, W., Barragan, F. A. J., Bausch, F. J., Burhan, E., Calfee, C. S., Cecconi, M., Chanda, D., Dat, V. Q., Sutter, A. D., ... Vandvik, P. O. (2020). A living WHO guideline on drugs for covid-19. *BMJ*, 370, m3379. <https://doi.org/10.1136/bmj.m3379>
- Aggarwal, B. B., Gupta, S. C., & Sung, B. (2013). Curcumin: An orally bioavailable blocker of TNF and other pro-inflammatory biomarkers. *British Journal of Pharmacology*, 169(8), 1672–1692. <https://doi.org/10.1111/bph.12131>
- Al Zoubi, S., Gharaibeh, L., Jaber, H. M., & Al-Zoubi, Z. (2021). Household Drug Stockpiling and Panic Buying of Drugs During the COVID-19 Pandemic: A Study From Jordan. *Frontiers in Pharmacology*, 12, 813405. <https://doi.org/10.3389/fphar.2021.813405>
- Al-Hawawsheh, B., Megdadi, Y., & Younes. (2019). Impact of Pharmaceutical Supply Chain Factors Effectiveness on Drug Availability in Public Hospitals. *JOURNAL OF MANAGEMENT POLICIES AND PRACTICES*, 7, 25–35. <https://doi.org/10.15640/jmpp.v7n2a3>
- Aljadeed, R., AlRuthia, Y., Balkhi, B., Sales, I., Alwhaibi, M., Almohammed, O., Alotaibi, A. J., Alrumaih, A. M., & Asiri, Y. (2021). The Impact of COVID-19 on Essential Medicines and Personal Protective Equipment Availability and Prices in Saudi Arabia. *Healthcare*, 9(3), 290. <https://doi.org/10.3390/healthcare9030290>
- Amici, C., Di Caro, A., Ciucci, A., Chiappa, L., Castilletti, C., Martella, V., Decaro, N., Buonavoglia, C., Capobianchi, M. R., & Santoro, M. G. (2006). Indomethacin has a potent antiviral activity against SARS coronavirus. *Antiviral Therapy*, 11(8), 1021–1030.
- Ando, G. (2020, July 7). Prices of essential COVID-19 medicines have increased 4% globally since February. *Pharmaceutical Technology*. <https://www.pharmaceutical-technology.com/pricing-and-market-access/prices-essential-covid19-medicines-increased-4-percent-globally-.html/>
- Anonim. (2020, May 27). *How is Covid-19 reshaping Indonesia's pharmaceuticals market?* Oxford Business Group. <https://oxfordbusinessgroup.com/news/how-covid-19-reshaping-indonesia-pharmaceuticals-market%20>
- Arafat, S. M. Y., Kar, S. K., Marthoenis, M., Sharma, P., Hoque Apu, E., & Kabir, R. (2020). Psychological underpinning of panic buying during pandemic (COVID-19). *Psychiatry Research*, 289, 113061. <https://doi.org/10.1016/j.psychres.2020.113061>
- Ariyani, H., Fitriani, S., & Rahmah, S. (2021). Profil Penggunaan Obat pada Pasien COVID-19 di Rumah Sakit Umum Daerah Ulin Banjarmasin. *Jurnal Pharmascience*, 8(2), 133. <https://doi.org/10.20527/jps.v8i2.11144>
- Arrow, K. J. (2004). Uncertainty and the welfare economics of medical care. 1963. *Bulletin of the World Health Organization*, 82(2), 141–149.



- Aslani, P. (2020). What are our health expectations in a pandemic? *Health Expectations*, 23(2), 257–258. <https://doi.org/10.1111/hex.13052>
- Badreldin, H. A., & Atallah, B. (2021). Global drug shortages due to COVID-19: Impact on patient care and mitigation strategies. *Research in Social and Administrative Pharmacy*, 17(1), 1946–1949. <https://doi.org/10.1016/j.sapharm.2020.05.017>
- Banerjee, D., & Nair, V. S. (2020). Handling the COVID-19 pandemic: Proposing a community based toolkit for psycho-social management and preparedness. *Asian Journal of Psychiatry*, 51, 102152. <https://doi.org/10.1016/j.ajp.2020.102152>
- Beasley, D. (2022, February 3). Price of COVID treatments from Pfizer, Merck, GSK align with patient benefits -report. *Reuters*. <https://www.reuters.com/business/healthcare-pharmaceuticals/price-covid-treatments-pfizer-merck-gsk-align-with-patient-benefits-report-2022-02-03/>
- Berardi, A., Perinelli, D. R., Merchant, H. A., Bisharat, L., Basheti, I. A., Bonacucina, G., Cespi, M., & Palmieri, G. F. (2020). Hand sanitisers amid CoViD-19: A critical review of alcohol-based products on the market and formulation approaches to respond to increasing demand. *International Journal of Pharmaceutics*, 584, 119431. <https://doi.org/10.1016/j.ijpharm.2020.119431>
- Braden, A. (2021, January 28). *How to Reduce Inventory and Keep Practitioners Stocked*. TechnologyAdvice. <https://technologyadvice.com/blog/healthcare/reduce-inventory-avoid-stockout/>
- Bravo, L. (1998). Polyphenols: Chemistry, Dietary Sources, Metabolism, and Nutritional Significance. *Nutrition Reviews*, 56(11), 317–333. <https://doi.org/10.1111/j.1753-4887.1998.tb01670.x>
- Bryant, A., Lawrie, T. A., Dowswell, T., Fordham, E. J., Mitchell, S., Hill, S. R., & Tham, T. C. (2021). Ivermectin for Prevention and Treatment of COVID-19 Infection: A Systematic Review, Meta-analysis, and Trial Sequential Analysis to Inform Clinical Guidelines. *American Journal of Therapeutics*, 28(4), e434. <https://doi.org/10.1097/MJT.0000000000001402>
- Burhan, E., Susanto, A. D., Nasution, S. A., Ginanjar, E., Pitoyo, W., Susilo, A., Firdaus, I., Santoso, A., Arifa, D., Arif, S. K., Syam, F., Rasmin, M., Rengganis, I., Sukrisman, L., Wiyono, W. H., Isbaniah, F., Elhidsi, M., Aniwidyaningsih, W., Handayani, D., ... Dharmawan, I. (2022). *Perhimpunan Dokter Paru Indonesia (PDPI) Perhimpunan Dokter Spesialis Kardiovaskular Indonesia (PERKI) Perhimpunan Dokter Spesialis Penyakit Dalam Indonesia (PAPDI) Perhimpunan Dokter Anestesiologi dan Terapi Intensif Indonesia*. 176.
- Cascella, M., Rajnik, M., Aleem, A., Dulebohn, S. C., & Di Napoli, R. (2022). Features, Evaluation, and Treatment of Coronavirus (COVID-19). In *StatPearls*. StatPearls Publishing. <http://www.ncbi.nlm.nih.gov/books/NBK554776/>



- CDC. (2022, August 11). *COVID-19 and Your Health*. Centers for Disease Control and Prevention. <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html>
- Chansrichavala, P., Chantharaksri, U., Sritara, P., & Chaiyaroj, S. C. (2009). *Atorvastatin Attenuates TLR4-mediated NF- κ B Activation in a MyD88-Dependent Pathway*. 9.
- Colunga Biancatelli, R. M. L., Berrill, M., & Marik, P. E. (2020). The antiviral properties of vitamin C. *Expert Review of Anti-Infective Therapy*, 18(2), 99–101. <https://doi.org/10.1080/14787210.2020.1706483>
- Dansie, L. S., Odoch, W. D., & Årdal, C. (2019). Industrial perceptions of medicines regulatory harmonization in the East African Community. *PLoS ONE*, 14(6), e0218617. <https://doi.org/10.1371/journal.pone.0218617>
- Das, S., Sarmah, S., Lyndem, S., & Singha Roy, A. (2021). An investigation into the identification of potential inhibitors of SARS-CoV-2 main protease using molecular docking study. *Journal of Biomolecular Structure & Dynamics*, 39(9), 3347–3357. <https://doi.org/10.1080/07391102.2020.1763201>
- Denison, M. R., Zoltick, P. W., Hughes, S. A., Giangreco, B., Olson, A. L., Perlman, S., Leibowitz, J. L., & Weiss, S. R. (1992). Intracellular processing of the N-terminal ORF 1a proteins of the coronavirus MHV-A59 requires multiple proteolytic events. *Virology*, 189(1), 274–284. [https://doi.org/10.1016/0042-6822\(92\)90703-R](https://doi.org/10.1016/0042-6822(92)90703-R)
- Douglas, R. M., Chalker, E. B., & Treacy, B. (1998). Vitamin C for the common cold. *Cochrane Database of Systematic Reviews*, 2. <https://doi.org/10.1002/14651858.CD000980>
- EMA. (2020, April 11). *Availability of medicines during COVID-19 pandemic* [Text]. European Medicines Agency. <https://www.ema.europa.eu/en/human-regulatory/overview/public-health-threats/coronavirus-disease-covid-19/availability-medicines-during-covid-19-pandemic>
- Evans, A., Santos, E., & Ford, M. (2020). *Impact of COVID-19 on Vitamins, Minerals and Supplements* / L.E.K. Consulting. <https://www.lek.com/insights/ei/impact-covid-19-vitamins-minerals-and-supplements>
- Frenk, J., Gómez-Dantés, O., & Knaul, F. M. (2011). Globalization and Infectious Diseases. *Infectious Disease Clinics of North America*, 25(3), 593–599. <https://doi.org/10.1016/j.idc.2011.05.003>
- Gautret, P., Lagier, J.-C., Parola, P., Hoang, V. T., Meddeb, L., Mailhe, M., Doudier, B., Courjon, J., Giordanengo, V., Vieira, V. E., Tissot Dupont, H., Honoré, S., Colson, P., Chabrière, E., La Scola, B., Rolain, J.-M., Brouqui, P., & Raoult, D. (2020). Hydroxychloroquine and azithromycin as a treatment of COVID-19: Results of an open-label non-randomized clinical trial. *International Journal of Antimicrobial Agents*, 56(1), 105949. <https://doi.org/10.1016/j.ijantimicag.2020.105949>
- Ghosal, S., Bhattacharyya, R., & Majumder, M. (2020). Impact of complete lockdown on total infection and death rates: A hierarchical cluster analysis.



Diabetes & Metabolic Syndrome, 14(4), 707–711.
<https://doi.org/10.1016/j.dsx.2020.05.026>

Gordon, D. E., Jang, G. M., Bouhaddou, M., Xu, J., Obernier, K., White, K. M., O'Meara, M. J., Rezelj, V. V., Guo, J. Z., Swaney, D. L., Tummino, T. A., Hüttenhain, R., Kaake, R. M., Richards, A. L., Tutuncuoglu, B., Foussard, H., Batra, J., Haas, K., Modak, M., ... Krogan, N. J. (2020). A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. *Nature*, 583(7816), 459–468. <https://doi.org/10.1038/s41586-020-2286-9>

Hamidah, L. W. (2022). *Gambaran Tingkat Pengetahuan dan Persepsi Apoteker terhadap Farmakovigilans di Rumah Sakit wilayah Daerah Istimewa Yogyakarta* [Universitas Gadjah Mada]. <http://etd.repository.ugm.ac.id/pelitian/detail/213444>

Ho, P., Zheng, J.-Q., Wu, C.-C., Hou, Y.-C., Liu, W.-C., Lu, C.-L., Zheng, C.-M., Lu, K.-C., & Chao, Y.-C. (2021). Perspective Adjunctive Therapies for COVID-19: Beyond Antiviral Therapy. *International Journal of Medical Sciences*, 18(2), 314–324. <https://doi.org/10.7150/ijms.51935>

Jifar, W. W., Geneti, G. B., & Dinssa, S. D. (2022). The Impact of COVID-19 on Pharmaceutical Shortages and Supply Disruptions for Non-Communicable Diseases Among Public Hospitals of South West, Oromia, Ethiopia. *Journal of Multidisciplinary Healthcare*, 15, 1933–1943. <https://doi.org/10.2147/JMDH.S377319>

Kaplan, W. A., & Laing, R. (2003). Paying for pharmaceutical registration in developing countries. *Health Policy and Planning*, 18(3), 237–248. <https://doi.org/10.1093/heapol/czg030>

Kemenkes. (2021). *Keputusan Menteri Kesehatan / Direktorat Jenderal Kefarmasian dan Alat Kesehatan*. <https://farmalkes.kemkes.go.id/peraturan/kepmenkes/>

Kemenkes. (2022). *Kementerian Kesehatan Republik Indonesia*. <https://www.kemkes.go.id/article/view/22011500001/amankan-stok-obat-covid-19-dalam-negeri-produksi-dalam-negeri-molnupiravir-direncanakan-segera.html>

Kostev, K., & Lauterbach, S. (2020). Panic buying or good adherence? Increased pharmacy purchases of drugs from wholesalers in the last week prior to Covid-19 lockdown. *Journal of Psychiatric Research*, 130, 19–21. <https://doi.org/10.1016/j.jpsychires.2020.07.005>

Liu, S., Luo, P., Tang, M., Hu, Q., Polidoro, J. P., Sun, S., & Gong, Z. (2020). Providing pharmacy services during the coronavirus pandemic. *International Journal of Clinical Pharmacy*, 42(2), 299–304. <https://doi.org/10.1007/s11096-020-01017-0>

Lotfi, M., Hamblin, M. R., & Rezaei, N. (2020). COVID-19: Transmission, prevention, and potential therapeutic opportunities. *Clinica Chimica Acta; International Journal of Clinical Chemistry*, 508, 254–266. <https://doi.org/10.1016/j.cca.2020.05.044>

Maharianingsih, N. M., Sudirta, I. K., & Suryaningsih, N. P. A. (2022). Karakteristik Pasien dan Penggunaan Obat Pada Pasien Covid-19 Derajat



- Sedang Hingga Berat. *Indonesian Journal of Pharmaceutical Education*, 2(2), Article 2. <https://doi.org/10.37311/ijpe.v2i2.13958>
- Mashuri, Y. A., Wulandari, L. P. L., Khan, M., Ferdiana, A., Probandari, A., Wibawa, T., Batura, N., Liverani, M., Day, R., Jan, S., Schierhout, G., Wahyono, D., Yulianto, Kaldor, J., Guy, R., Law, M., Yeung, S., & Wiseman, V. (2022). The response to COVID-19 among drug retail outlets in Indonesia: A cross-sectional survey of knowledge, attitudes, and practices. *The Lancet Regional Health – Western Pacific*, 22. <https://doi.org/10.1016/j.lanwpc.2022.100420>
- MD, R. H. S. (2021, April 5). *Do vitamin D, zinc, and other supplements help prevent COVID-19 or hasten healing?* Harvard Health. <https://www.health.harvard.edu/blog/do-vitamin-d-zinc-and-other-supplements-help-prevent-covid-19-or-hasten-healing-2021040522310>
- MOH. (2022). *MOH / News Highlights*. <https://www.moh.gov.sg/news-highlights/details/government's-purchase-agreements-for-new-covid-19-anti-viral-drugs/>
- Mohammadshahi, M., Sakha, M. A., Zarei, L., Karimi, M., & Peiravian, F. (2019). Factors Affecting Medicine-Induced Demand and Preventive Strategies: A Scoping Review. *Shiraz E-Medical Journal*, 20(10), Article 10. <https://doi.org/10.5812/semj.87079>
- Moore, N., Carleton, B., Blin, P., Bosco-Levy, P., & Droz, C. (2020). Does Ibuprofen Worsen COVID-19? *Drug Safety*, 43(7), 611. <https://doi.org/10.1007/s40264-020-00953-0>
- NPS. (2022). *COVID-19 and medicines – frequently asked questions*. NPS MedicineWise. <https://www.nps.org.au/covid-19-and-medicines-faqs>
- Oktaviana, E., Hidayati, I. R., & Pristanty, L. (2019). Pengaruh Pengetahuan terhadap Penggunaan Obat Parasetamol yang Rasional dalam Swamedikasi (Studi pada Ibu Rumah Tangga di Desa Sumberpoh Kecamatan Maron Kabupaten Probolinggo). *JURNAL FARMASI DAN ILMU KEFARMASIAN INDONESIA*, 4(2), 44. <https://doi.org/10.20473/jfiki.v4i22017.44-50>
- Peeri, N. C., Shrestha, N., Rahman, M. S., Zaki, R., Tan, Z., Bibi, S., Baghbanzadeh, M., Aghamohammadi, N., Zhang, W., & Haque, U. (2020). The SARS, MERS and novel coronavirus (COVID-19) epidemics, the newest and biggest global health threats: What lessons have we learned? *International Journal of Epidemiology*, 49(3), 717–726. <https://doi.org/10.1093/ije/dyaa033>
- Pemda DIY. (2022). *Daerah DIY - Jumlah Sarana Industri dan Industri Farmasi*. http://bappeda.jogjaprov.go.id/dataku/data_dasar/cetak/242-jumlah-sarana-industri-dan-industri-farmasi
- PT K24Klik Indonesia, K. (2022). *Cari Obat—Dextromethorphan Halaman 1*. K24Klik. <https://www.k24klik.com/cariObat/dextromethrophan>
- Rockwood, K. (2020, December 7). The most prescribed drugs in 2020. *The Checkup*. <https://www.singlecare.com/blog/most-prescribed-drugs-2020/>
- Romano, S., Galante, H., Figueira, D., Mendes, Z., & Rodrigues, A. T. (2021). Time-trend analysis of medicine sales and shortages during COVID-19 outbreak: Data from community pharmacies. *Research in Social &*



- Administrative Pharmacy, 17(1), 1876–1881.*
<https://doi.org/10.1016/j.sapharm.2020.05.024>
- Santarpia, J. L., Rivera, D. N., Herrera, V., Morwitzer, M. J., Creager, H., Santarpia, G. W., Crown, K. K., Brett-Major, D. M., Schnaubelt, E., Broadhurst, M. J., Lawler, J. V., Reid, St. P., & Lowe, J. J. (2020). *Transmission Potential of SARS-CoV-2 in Viral Shedding Observed at the University of Nebraska Medical Center* [Preprint]. *Infectious Diseases (except HIV/AIDS)*. <https://doi.org/10.1101/2020.03.23.20039446>
- Schafheutle, E. I., Seston, E. M., & Hassell, K. (2011). Factors influencing pharmacist performance: A review of the peer-reviewed literature. *Health Policy, 102*(2), 178–192. <https://doi.org/10.1016/j.healthpol.2011.06.004>
- Shukar, S., Zahoor, F., Hayat, K., Saeed, A., Gillani, A. H., Omer, S., Hu, S., Babar, Z.-U.-D., Fang, Y., & Yang, C. (2021). Drug Shortage: Causes, Impact, and Mitigation Strategies. *Frontiers in Pharmacology, 12*, 693426. <https://doi.org/10.3389/fphar.2021.693426>
- Singh, A., & Parida, R. (2022). Decision-Making Models for Healthcare Supply Chain Disruptions: Review and Insights for Post-pandemic Era. *International Journal of Global Business and Competitiveness, 17*(2), 130–141. <https://doi.org/10.1007/s42943-021-00045-5>
- Sparrow, R., Suryahadi, A., & Widayanti, W. (2013). Social health insurance for the poor: Targeting and impact of Indonesia's Askeskin programme. *Social Science & Medicine (1982), 96*, 264–271. <https://doi.org/10.1016/j.socscimed.2012.09.043>
- Sugiyono. (2013). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Alfabeta.
- Surahman, Rachmat, & Supardi. (2016). *Metodologi Penelitian* (Kementerian Kesehatan Republik Indonesia). Kementerian Kesehatan Republik Indonesia.
- Troy, D. A., Carson, A., Vanderbeek, J., & Hutton, A. (2008). Enhancing Community-Based Disaster Preparedness with Information Technology: Community Disaster Information System. *Disasters, 32*(1), 149–165. <https://doi.org/10.1111/j.1467-7717.2007.01032.x>
- van Doremalen, N., Bushmaker, T., Morris, D. H., Holbrook, M. G., Gamble, A., Williamson, B. N., Tamin, A., Harcourt, J. L., Thornburg, N. J., Gerber, S. I., Lloyd-Smith, J. O., de Wit, E., & Munster, V. J. (2020). Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1. *The New England Journal of Medicine, NEJM*c2004973. <https://doi.org/10.1056/NEJMc2004973>
- WHO. (2020). *WHO Director-General's opening remarks at the media briefing on COVID-19—11 March 2020*. <https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>
- WHO. (2021a). *Coronavirus*. <https://www.who.int/health-topics/coronavirus>
- WHO. (2022). *WHO Coronavirus (COVID-19) Dashboard*. <https://covid19.who.int>
- WHO, W. (2021b). *Antimicrobial resistance*. <https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance>



- Wicaksono, A. G., Pambudi, R. S., & Septiana, R. (2022). Treatment Patterns of Covid-19 in Patients at Indriati Boyolali Hospital. *Pancasakti Journal Of Public Health Science And Research*, 2(3), Article 3. <https://doi.org/10.47650/pjphsr.v2i3.563>
- Wijaya, T. (2020). *Factor Analysis of Panic Buying During the Covid-19 Period in Indonesia* (SSRN Scholarly Paper No. 3603750). <https://doi.org/10.2139/ssrn.3603750>
- Williams, A., & Meyer, D. (2009). Desferrioxamine as immunomodulatory agent during microorganism infection. *Current Pharmaceutical Design*, 15(11), 1261–1268. <https://doi.org/10.2174/138161209787846801>
- Yáñez, J. A., Chung, S. A., Román, B. R., Hernández-Yépez, P. J., García-Solorzano, F. O., Del-Aguila-Arcentales, S., Inga-Berrospi, F., Mejia, C. R., & Alvarez-Risco, A. (2021). Chapter 14—Prescription, over-the-counter (OTC), herbal, and other treatments and preventive uses for COVID-19. In M. Hadi Dehghani, R. R. Karri, & S. Roy (Eds.), *Environmental and Health Management of Novel Coronavirus Disease (COVID-19)* (pp. 379–416). Academic Press. <https://doi.org/10.1016/B978-0-323-85780-2.00001-9>
- Yayu Lastari, I., Oktianti, D., & Yuswantina, R. (2020). *TINGKAT PENGETAHUAN MASYARAKAT TERHADAP PENGGUNAAN OBAT ANTIPIRETIK SEBAGAI UPAYA PENGOBATAN SENDIRI DI APOTEK SEBANTENGAN UNGARAN* [S1, Universitas Ngudi Walyo]. https://doi.org/10/S1_050116A034_Skripsi%20Lengkap.pdf
- Yimenu, D. K., Demeke, C. A., Kasahun, A. E., Siraj, E. A., Wendalem, A. Y., Bazezew, Z. A., & Mekuria, A. B. (2021). Impact of COVID-19 on Pharmaceutical Care Services and the Role of Community Pharmacists: A Multi-Center Cross-Sectional Study in Ethiopia. *SAGE Open Nursing*, 7, 23779608211025804. <https://doi.org/10.1177/23779608211025804>
- Yulianto, Y., Saepudin, S., Hendrik, H., & Rugiarti, N. D. (2017). Kebutuhan pendidikan berkelanjutan apoteker puskesmas di Yogyakarta. *Jurnal Ilmiah Farmasi*, 13(2), Article 2. <https://doi.org/10.20885/jif.vol13.iss2.art1>
- Zheng, J.-Q., Hou, Y.-C., Zheng, C.-M., Lu, C.-L., Liu, W.-C., Wu, C.-C., Huang, M.-T., Lin, Y.-F., & Lu, K.-C. (2016). Cholecalciferol Additively Reduces Serum Parathyroid Hormone and Increases Vitamin D and Cathelicidin Levels in Paricalcitol-Treated Secondary Hyperparathyroid Hemodialysis Patients. *Nutrients*, 8(11), E708. <https://doi.org/10.3390/nu8110708>