

DAFTAR PUSTAKA

- Abdulmalik, H., Tadiwos, Y., & Legese, N. (2019). Assessment of drug-related problems among type 2 diabetic patients on follow up at Hiwot Fana Specialized University Hospital, Harar, Eastern Ethiopia. *BMC Research Notes*, 12(1), 4–9. <https://doi.org/10.1186/s13104-019-4760-8>
- Aldughayfiq, B., & Sampalli, S. (2021). Digital Health in Physicians' and Pharmacists' Office: A Comparative Study of e-Prescription Systems' Architecture and Digital Security in Eight Countries. *OMICS: A Journal of Integrative Biology*, 25(2), 102–122. <https://doi.org/10.1089/omi.2020.0085>
- Alfian, R., Nita, Y., & Athiyah, U. (2025). Evaluation of Pharmacist-Based Services for Type 2 Diabetes Mellitus in the Indonesian Community Health Centers. *Journal of Public Health and Pharmacy*, 5(1), 1–10. <https://doi.org/10.56338/jphp.v5i1.5888>
- Alfian, S. D., van Boven, J. F. M., Abdulah, R., Sukandar, H., Denig, P., & Hak, E. (2021). Effectiveness of a targeted and tailored pharmacist-led intervention to improve adherence to antihypertensive drugs among patients with type 2 diabetes in Indonesia: A cluster randomised controlled trial. *British Journal of Clinical Pharmacology*, 87(4), 2032–2042. <https://doi.org/10.1111/bcp.14610>
- Alhamid, A., Ghaleb, M., Aljadhey, H., & Aslanpour, Z. (2019). A systematic review of hospital-based interventions to reduce medication errors. *Saudi Pharmaceutical Journal*, 27(6), 759–770. <https://doi.org/10.1016/j.jsps.2019.05.002>
- Alhusein, N., Watson, M. C., & Bond, C. M. (2020). Factors influencing pharmacists' collaboration with general practitioners in primary care: A systematic review. *Research in Social and Administrative Pharmacy*, 16(9), 1157–1166. <https://doi.org/https://doi.org/10.1016/j.sapharm.2019.12.005>
- Aliyya, A. I., Nisa, H., Ciptaningtyas, R., & Febrianti. (2025). Individual characteristics, metabolic factors, and physical activity: Risk of diabetes mellitus in Yogyakarta. In *Towards Resilient Societies: The Synergy of Religion, Education, Health, Science, and Technology* (hal. 3–8). CRC Press. <https://doi.org/10.1201/9781003654940-1>
- Alshehri, A. M., Alhossan, A. M., & Alrabiah, Z. A. (2020). Barriers to providing pharmaceutical care in primary healthcare centers: A systematic review. *Journal of Pharmaceutical Policy and Practice*, 13. <https://doi.org/10.1186/s40545-020-00254-3>
- Alwhaibi, M., Balkhi, B., Alhawassi, T. M., Alkofide, H., Alduhaim, N., & Alabdulali, R. (2019). Pharmacists' barriers to the provision of clinical pharmacy services in primary care settings. *Saudi Pharmaceutical Journal*, 27(3), 343–348. <https://doi.org/10.1016/j.jsps.2018.11.012>
- Alwhaibi, M., Balkhi, B., Alhawassi, T. M., Alkofide, H., & Alduhaim, N. (2020). Drug-related problems and associated factors among patients with type 2 diabetes mellitus: A systematic review. *International Journal of Clinical Pharmacy*, 42(1), 1–10. <https://doi.org/https://doi.org/10.1007/s11096-019-00933-6>

- Angibaud, M., Jourdain, M., Girard, S., Rouxel, L., Mouhib, A., Nogueira, A., Rat, C., & Huon, J.-F. (2024). Involving community pharmacists in interprofessional collaboration in primary care: a systematic review. *BMC Primary Care*, 25(1), 103. <https://doi.org/10.1186/s12875-024-02326-3>
- Awang Jihadi, M. H., Yuda, A., Sukorini, A. I., Hermansyah, A., Shafqat, N., Tan, C. S., & Ming, L. C. (2023). Drug-related problems in hospitalized patients with type 2 diabetes mellitus: A systematic review. *Exploratory Research in Clinical and Social Pharmacy*, 12, 100348. <https://doi.org/10.1016/j.rcsop.2023.100348>
- Basger, B. J., Moles, R. J., & Chen, T. F. (2023). Uptake of pharmacist recommendations by patients after discharge: Implementation study of a patient-centered medicines review service. *BMC Geriatrics*, 23(1), 183. <https://doi.org/10.1186/s12877-023-03921-2>
- Basheti, I. A., Mhaidat, Q. N., & Alqudah, R. A. (2018). Drug-related problems in patients with type 2 diabetes mellitus: A cross-sectional study. *International Journal of Clinical Pharmacy*, 40(5), 1241–1248. <https://doi.org/https://doi.org/10.1007/s11096-018-0699-8>
- Bektay, M. Y., Ayhan, Y. E., Çakmak, M., & Mercumek, B. (2025). Identification and evaluation of drug-related problems in community pharmacy in Turkey: a descriptive prevalence study. *BMC Primary Care*, 26(1), 248. <https://doi.org/10.1186/s12875-025-02926-7>
- Cipolle, R. J., Strand, L. M., & Morley, P. C. (2012). *Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Therapy Management* (3rd editio). McGraw-Hill.
- Collet, T.-H., Dubern, B., Mokrosinski, J., Connors, H., Keogh, J. M., Mendes de Oliveira, E., Henning, E., Poitou-Bernert, C., Oppert, J.-M., Tounian, P., Marchelli, F., Alili, R., Le Beyec, J., Pépin, D., Lacorte, J.-M., Gottesdiener, A., Bounds, R., Sharma, S., Folster, C., ... Van der Ploeg, L. H. T. (2017). Evaluation of a melanocortin-4 receptor (MC4R) agonist (Setmelanotide) in MC4R deficiency. *Molecular Metabolism*, 6(10), 1321–1329. <https://doi.org/10.1016/j.molmet.2017.06.015>
- Collins, J. C., Hu, J., McMillan, S. S., O'Reilly, C. L., El-Den, S., Kelly, F., Spinks, J., Riley, T., & Wheeler, A. J. (2023). Medication-related problems identified by community pharmacists: a descriptive case study of two Australian populations. *Journal of Pharmaceutical Policy and Practice*, 16(1). <https://doi.org/10.1186/s40545-023-00637-x>
- Colorafi, K. J., & Evans, B. (2016). Qualitative Descriptive Methods in Health Science Research. *HERD: Health Environments Research & Design Journal*, 9(4), 16–25. <https://doi.org/10.1177/1937586715614171>
- Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed.). SAGE Publications.
- Croke, A., Cardwell, K., Clyne, B., Moriarty, F., McCullagh, L., & Smith, S. M. (2023). The effectiveness and cost of integrating pharmacists within general practice to optimize prescribing and health outcomes in primary care patients with polypharmacy: a systematic review. *BMC Primary Care*, 24(1), 41. <https://doi.org/10.1186/s12875-022-01952-z>

- Cutler, R. L., Fernandez-Llimos, F., Frommer, M., Benrimoj, C., & Garcia-Cardenas, V. (2018). Economic impact of medication non-adherence by disease groups: a systematic review. *BMJ Open*, 8(1), e016982. <https://doi.org/10.1136/bmjopen-2017-016982>
- Dianna J. Magliano & Edward J. Boyko (IDF Diabetes Atlas 10th edition scientific committee). (n.d.). *IDF Diabetes Atlas (edisi ke-10)*. <https://www.ncbi.nlm.nih.gov/books/NBK581934/>
- El Hajj, M. S., Asiri, R., Husband, A., & Todd, A. (2025). Medication errors in community pharmacies: a systematic review of the international literature. *PLOS One*, 20(5), e0322392. <https://doi.org/10.1371/journal.pone.0322392>
- Festa, A., D'Agostino, R., Howard, G., Mykkanen, L., Tracy, R. P., & Haffner, S. M. (2000). Chronic Subclinical Inflammation as Part of the Insulin Resistance Syndrome. *Circulation*, 102(1), 42–47. <https://doi.org/10.1161/01.CIR.102.1.42>
- Goyal, R., Singhal, M., & Jialal, I. (2025). Type 2 Diabetes. In *StatPearls*. <http://www.ncbi.nlm.nih.gov/pubmed/29219149>
- Gregory, P. A., & Austin, Z. (2021). How do patients develop trust in community pharmacists? *Research in Social and Administrative Pharmacy*, 17(5), 911–920. <https://doi.org/10.1016/j.sapharm.2020.07.023>
- Guest, G., Namey, E., & Chen, M. (2020). A simple method to assess and report thematic saturation in qualitative research. *PLOS ONE*, 15(5), e0232076. <https://doi.org/10.1371/journal.pone.0232076>
- Gutiérrez-Igual, S., Lucas-Domínguez, R., Sendra-Lillo, J., Martí-Rodrigo, A., Crespo, I. R., & Montesinos, M. C. (2024). Impact of pharmacist-led interventions in identifying and resolving *Drug Related Problems* and potentially inappropriate prescriptions among rural patients: A pilot study. *Exploratory Research in Clinical and Social Pharmacy*, 16, 100536. <https://doi.org/10.1016/j.rcsop.2024.100536>
- Hartuti, S., Nasution, A., & Syafril, S. (2019). *The Effect of Drug-Related Problems on Blood Glucose Level in the Treatment of Patients with Type 2 Diabetes Mellitus*. 7(11), 1798–1802.
- Hughes, J., Wibowo, Y., Sunderland, B., & Hoti, K. (2017). The role of the pharmacist in the management of type 2 diabetes: current insights and future directions. *Integrated Pharmacy Research and Practice*, Volume 6, 15–27. <https://doi.org/10.2147/iprp.s103783>
- Insani, W. N., Whittlesea, C., Alwafi, H., Man, K. K. C., Chapman, S., & Wei, L. (2021). Prevalence of adverse drug reactions in the primary care setting: A systematic review and meta-analysis. *PLOS ONE*, 16(5), e0252161. <https://doi.org/10.1371/journal.pone.0252161>
- International Pharmaceutical Federation. (2017). *Pharmacy Workforce Development Goals*.
- International Pharmaceutical Federation. (2020). *FIP Global Competency Framework Version 2 (GbCF v2): Supporting the Development of Foundation and Early Career Pharmacists*. <https://www.fip.org/file/4805>
- Kardas, P., Lewek, P., & Matyjaszczyk, M. (2013). Determinants of patient adherence: a review of systematic reviews. *Frontiers in Pharmacology*, 4.

<https://doi.org/10.3389/fphar.2013.00091>

- Kementerian Kesehatan Republik Indonesia. (2016). *Peraturan Menteri Kesehatan Republik Indonesia Nomor 74 Tahun 2016 tentang Standar Pelayanan Kefarmasian di Puskesmas*.
- Kementerian Kesehatan Republik Indonesia. (2019). *Peraturan Menteri Kesehatan Republik Indonesia Nomor 43 Tahun 2019 tentang Puskesmas*. <https://peraturan.bpk.go.id/Details/138635/permenkes-no-43-tahun-2019>
- Kementerian Kesehatan Republik Indonesia. (2022). *Profil Kesehatan Indonesia 2022*.
- Kusnadi, G., Murbawani, E. A., & Fitranti, D. Y. (2017). Faktor risiko diabetes melitus tipe 2 pada petani dan buruh. *Journal of Nutrition College*, 6(2), 138. <https://doi.org/10.14710/jnc.v6i2.16905>
- Lee, Y. S. (2024). Qualitative and mixed methods. In *Translational Orthopedics* (hal. 229–232). Elsevier. <https://doi.org/10.1016/B978-0-323-85663-8.00010-6>
- Lincoln, Y. S., & Guba, E. G. (1985). *Naturalistic Inquiry*. Sage Publications.
- Linden-Lahti, C., Takala, A., Holmström, A.-R., & Airaksinen, M. (2023). Applicability of drug-related problem (DRP) classification system for classifying severe medication errors. *BMC Health Services Research*, 23(1), 743. <https://doi.org/10.1186/s12913-023-09763-3>
- Lu, X., Xie, Q., Pan, X., Zhang, R., Zhang, X., Peng, G., Zhang, Y., Shen, S., & Tong, N. (2024). Type 2 diabetes mellitus in adults: pathogenesis, prevention and therapy. *Signal Transduction and Targeted Therapy*, 9(1), 262. <https://doi.org/10.1038/s41392-024-01951-9>
- Mayefis, D., Hainil, S., Sari, D. M., & Romadhan, S. W. (2023). Profile of drug information services for patients with antibiotic prescriptions at private pharmacies in Batam City. *Manganite: Journal of Chemistry and Education*, 2(1), 7–14. <https://doi.org/https://doi.org/10.58330/manganite.v2i1.316>
- Michie, S., van Stralen, M. M., & West, R. (2011). The behaviour change wheel: A new method for characterising and designing behaviour change interventions. *Implementation Science*, 6(1), 42. <https://doi.org/10.1186/1748-5908-6-42>
- Ni, X.-F., Yang, C.-S., Bai, Y.-M., Hu, Z.-X., & Zhang, L.-L. (2021). Drug-Related Problems of Patients in Primary Health Care Institutions: A Systematic Review. *Frontiers in Pharmacology*, 12. <https://doi.org/10.3389/fphar.2021.698907>
- Nigussie, K. A., Shegena, E. A., Stephen, O. P., Namugambe, J. S., & Yadesa, T. M. (2022). Prevalence and factors associated with inappropriate anti-diabetic medication therapy among type 2 diabetes mellitus patients at the medical and surgical wards of Mbarara Regional Referral Hospital, Uganda. *PLOS ONE*, 17(6), e0270108. <https://doi.org/10.1371/journal.pone.0270108>
- Nuraini, A., Rahayu, D., Rokhani, R., Sa'adiyah, H., Fevi Aristia, B., & Wahyu Ningsih, A. (2023). Evaluasi Pelayanan Informasi Obat pada Pasien Rawat Jalan di Puskesmas X Kabupaten Bangkalan. *Indonesian Journal of Pharmaceutical Education*, 3(3). <https://doi.org/10.37311/ijpe.v3i3.22891>
- Pharmaceutical Care Network Europe (PCNE). (2020). *The PCNE classification for drug-related problems V9.1*.

- https://www.pcne.org/upload/files/417_PCNE_classification_V9-1_final.pdf
- Polonsky, W., & Henry, R. (2016). Poor medication adherence in type 2 diabetes: recognizing the scope of the problem and its key contributors. *Patient Preference and Adherence, Volume 10*, 1299–1307. <https://doi.org/10.2147/PPA.S106821>
- Pousinho, S., Morgado, M., Falcão, A., & Alves, G. (2016). Pharmacist Interventions in the Management of Type 2 Diabetes Mellitus: A Systematic Review of Randomized Controlled Trials. *Journal of Managed Care & Specialty Pharmacy, 22*(5), 493–515. <https://doi.org/10.18553/jmcp.2016.22.5.493>
- Rotta, I., Salgado, T. M., Silva, M. L., Correr, C. J., & Fernandez-Llimos, F. (2015). Effectiveness of clinical pharmacy services: an overview of systematic reviews (2000–2010). *International Journal of Clinical Pharmacy, 37*(5), 687–697. <https://doi.org/10.1007/s11096-015-0137-9>
- Saibi, Y., Suryani, N., Novitri, S. A., Hasan, D., & Anwar, V. A. (2020). Pemberian Informasi Obat Pasien Dengan Resep Antibiotik dan Penyediaan Antibiotik Tanpa Resep di Tangerang Selatan. *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal), 6*(2). <https://doi.org/10.22487/j24428744.2020.v6.i2.15051>
- Salter, S. M., Karia, A., Sanfilippo, F. M., & Clifford, R. M. (2018). Effectiveness of pharmacist-led interventions on clinical outcomes in patients with chronic diseases: A systematic review and meta-analysis. *Journal of Managed Care & Specialty Pharmacy, 24*(4), 356–374. <https://doi.org/10.18553/jmcp.2018.24.4.356>
- Sandelowski, M. (2010). What's in a name? Qualitative description revisited. *Research in Nursing & Health, 33*(1), 77–84. <https://doi.org/10.1002/nur.20362>
- Santos, J. V., Cutolo, P. P., & Pereira, M. G. (2019). Barriers and facilitators to the implementation of clinical pharmacy services in primary health care: A systematic review. *BMC Health Services Research, 19*, 530. <https://doi.org/https://doi.org/10.1186/s12913-019-4318-6>
- Schindel, T. J., Yuksel, N., Breault, R., Daniels, J., Varnhagen, S., & Hughes, C. A. (2017). Perceptions of pharmacists' roles in the era of expanding scopes of practice. *Research in Social and Administrative Pharmacy, 13*(1), 148–161. <https://doi.org/10.1016/j.sapharm.2016.02.007>
- Schindel, T. J., Yuksel, N., Breault, R., Daniels, J., Varnhagen, S., & Hughes, C. A. (2019). Pharmacists' learning needs in the era of expanding scopes of practice: Evolving practices and changing needs. *Research in Social and Administrative Pharmacy, 15*(4), 448–458. <https://doi.org/10.1016/j.sapharm.2018.06.013>
- Schmidt, E. M., Schubert, I., Thürmann, P. A., & Harder, S. (2024). A clinical-pharmaceutical medication reconciliation with patient interview for a medication review to identify drug-related problems. *Pharmazie, 79*(1), 35–40. <https://doi.org/10.1691/ph.2024.3660>
- Sheleme, T., Sahilu, T., & Feyissa, D. (2021). Identification and resolution of drug-related problems among diabetic patients attending a referral hospital: a

- prospective observational study. *Journal of Pharmaceutical Policy and Practice*, 14(1), 50. <https://doi.org/10.1186/s40545-021-00332-9>
- Soelistic, S., Suastika, K., Lindarto, D., Eva, D., & Hikmat, P. (2021). Pedoman Pengelolaan dan Pencegahan Diabetes Mellitus Tipe 2 Dewasa di Indonesia. *PERKENI*.
- Subhaktiyasa, P. G. (2024). Menentukan Populasi dan Sampel: Pendekatan Metodologi Penelitian Kuantitatif dan Kualitatif. *Jurnal Ilmiah Profesi Pendidikan*, 9(4), 2721–2731. <https://doi.org/10.29303/jipp.v9i4.2657>
- Sugiyanto, D. E. S. dan Z. (2015). 1196-3170-1-Pb. *VisiKes*, 14(2).
- Sugiyono. (2019). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Alfabeta.
- Suryadi, T. (2014). Angka Kejadian dan Faktor Risiko Diabetes Melitus Tipe 2 di 78 RT Kotamadya Palembang Tahun 2010. *Majalah Kedokteran Sriwijaya*, 401(2), 85–94.
- Torres-Novellas, B., Rius, P., Figueiredo-Escribá, C., Mariño, E. L., & Modamio, P. (2024). Drug-Related Problems Detected in Complex Chronic Patients by Community Pharmacists of Catalonia: Perception of the Person-Centred Approach Necessity. *Healthcare*, 12(2), 240. <https://doi.org/10.3390/healthcare12020240>
- Utomo, A. A., Aulia, A. R., Rahmah, S., & Amalia, R. (2020). Faktor risiko diabetes mellitus tipe 2: A systematic review. *An-Nur: Jurnal Kajian dan Pengembangan Kesehatan Masyarakat*, 1(1).
- Van, C., Costa, D., Abbott, P., Mitchell, B., & Krass, I. (2017). Implementing clinical pharmacy services in hospitals and primary care: A systematic review of facilitators and barriers. *Research in Social and Administrative Pharmacy*, 13(5), 1029–1041. <https://doi.org/10.1016/j.sapharm.2016.11.002>
- Van, C., Costa, D., Mitchell, B., Abbott, P., & Krass, I. (2013). Development and validation of a measure and a model of general practitioner attitudes toward collaboration with pharmacists. *Research in Social and Administrative Pharmacy*, 9(6), 688–699. <https://doi.org/10.1016/j.sapharm.2012.12.005>
- Veenstra, G. L., Dabekaussen, K. F. A. A., Molleman, E., Heineman, E., & Welker, G. A. (2022). Health care professionals' motivation, their behaviors, and the quality of hospital care: A mixed-methods systematic review. *Health Care Management Review*, 47(2), 155–167. <https://doi.org/10.1097/HMR.0000000000000284>
- Wahidin, M., Achadi, A., Besral, B., Kosen, S., Nadjib, M., Nurwahyuni, A., Ronoatmodjo, S., Rahajeng, E., Pane, M., & Kusuma, D. (2024). Projection of diabetes morbidity and mortality till 2045 in Indonesia based on risk factors and NCD prevention and control programs. *Scientific Reports*, 14(1), 5424. <https://doi.org/10.1038/s41598-024-54563-2>
- World Health Organization. (2011). *Standards and Operational Guidance for Ethics Review of Health-Related Research with Human Participants*.
- World Health Organization. (2019). *Medication Safety in Primary Care*. <https://doi.org/10.2471/WHO.UHC.SDS.2019.11>
- Zazuli, Z., Rohaya, A., & Adnyana, I. K. (2017). Drug-related problems in type 2 diabetic patients with hypertension: A prospective study (*Journal of Basic and*

Clinical Pharmacy). 8(4), 251–154.