

REFERENCES

- Abdulsalim, S., Unnikrishnan, M. K., Manu, M. K., Alrasheedy, A. A., Godman, B., & Morisky, D. E. (2018). Structured pharmacist-led intervention programme to improve medication adherence in COPD patients: A randomized controlled study. *Research in Social and Administrative Pharmacy, 14*, 909–914. <https://doi.org/10.1016/j.sapharm.2017.10.008>
- Ahmad, I., Khalily, M. T., & Hallahan, B. (2017). Reasons associated with treatment non-adherence in schizophrenia in a Pakistan cohort. *Asian Journal of Psychiatry, 30*, 39–43. <https://doi.org/10.1016/j.ajp.2017.07.024>
- AHRQ. (2017). Treatments for Schizophrenia in Adults : A Systematic Review. *Comparative Effectiveness Review, 198*.
- Al-Hassany, L., Kloosterboer, S. M., Dierckx, B., & Koch, B. C. P. (2019). Assessing methods of measuring medication adherence in chronically ill children – a narrative review. *Patient Preference and Adherence, 13*, 1175–1189.
- Alasmee, N., & Hasan, A. A. (2020). Primary caregivers experience of anti-psychotic medication: A qualitative study. *Archives of Psychiatric Nursing, 34*, 520–528. <https://doi.org/10.1016/j.apnu.2020.09.002>
- Alluhayyan, O. B., Alsahly, R. J., Aldawsari, A. A., Alghabawy, K. A., Alqaan, R. S., Almutairi, A. F., & Alharbi, S. A. (2020). Illness perception and medication adherence among patients with primary hypothyroidism in al qassim, Saudi Arabia. *Patient Preference and Adherence, 14*, 1111–1117. <https://doi.org/10.2147/PPA.S250935>
- Ambikile, J. S., & Iseselo, M. K. (2023). Challenges to the provision of home care and support for people with severe mental illness: Experiences and perspectives of patients, caregivers, and healthcare providers in Dar es Salaam, Tanzania. *PLOS Global Public Health, 3*(1), 1–17. <https://doi.org/10.1371/journal.pgph.0001518>
- American Psychiatric Association. (2010). *Practice guideline for the treatment of patients with schizophrenia (2nd ed.)*. <https://doi.org/10.1176/ajp.154.4.1>
- Angermeyer, M. C., & Matschinger, H. (2005). Causal beliefs and attitudes to people with schizophrenia Trend analysis based on data from two population

- Anghel, L. A., Farcas, A. M., & Oprean, R. N. (2019). An overview of the common methods used to measure treatment adherence. *Medicine and Pharmacy Reports*, 92(2), 117–122. <https://doi.org/10.15386/mpr-1201>
- Annapally, S. R., Jagannathan, A., Kishore, T., Thirthalli, J., Daliboina, M., & Channaveerachari, N. K. (2019). Barriers to academic reintegration in students with severe mental disorders: Thematic analysis. *Asian Journal of Psychiatry*, 45, 107–112. <https://doi.org/10.1016/j.ajp.2019.09.010>
- APA. (2013). Diagnostic and Statistical Manual of Mental Disorders Fifth Edition DSM-5. In *American Psychiatric Publishing*. <https://doi.org/10.1016/B0-12-657410-3/00457-8>
- Arkowitz, H., Miller, W. R., & Rollnick, S. (2015). *Motivational Interviewing in the Treatment of Psychological Problems* (Second edi). The Guildford Press.
- Awad, A. G. (2004). Antipsychotic medications: compliance and attitudes towards treatment. *Current Opinion in Psychiatry*, 17(2), 75–80. https://journals.lww.com/co-psychiatry/fulltext/2004/03000/antipsychotic_medications__compliance_and.2.aspx
- Badan Penelitian dan Pengembangan Kesehatan RI. (2018). *Riset Kesehatan Dasar 2018*.
- Balán, I. C., Lejuez, C. W., Hoffer, M., & Blanco, C. (2014). Integrating Motivational Interviewing and Brief Behavioral Activation Therapy: Theoretical and Practical Considerations. *Cognitive and Behavioral Practice*, 23(2), 205–220. <https://doi.org/10.1016/j.cbpra.2015.07.001>
- Barkhof, E., Meijer, C. J., De Sonnevile, L. M. J., Linszen, D. H., & De Haan, L. (2013). The effect of motivational interviewing on medication adherence and hospitalization rates in nonadherent patients with multi-episode schizophrenia. *Schizophrenia Bulletin*, 39(6), 1242–1251. <https://doi.org/10.1093/schbul/sbt138>
- Behere, P. B., Verma, K., Nagdive, A. B., Mansharamani, H., Behere, A. P., Yadav, R., & Fernandes, R. (2020). Is Marriage Solution for Persons with Schizophrenia? *Medical Science*, 24(104), 2663–2674.
- Belayneh, Z., Abebaw, D., Amare, T., Haile, K., & Abebe, Z. (2019). Perception of stigma among family members of individuals with schizophrenia and

major affective disorders in rural Ethiopia. *BMC Public Health*, 19(338), 1–7.

Boardman, G. H., McCann, T. V., & Clark, E. (2008). Accessing health care professionals about antipsychotic medication related concerns. *Issues in Mental Health Nursing*, 29, 739–754. <https://doi.org/10.1080/01612840802129178>

Boti, N., Hussien, S., Ayele, G., Mersha, A., Gebeyehu, S., Kassa, M., Feleke, T., & Temesgen, G. (2020). Community Perception and Attitude Towards People with Schizophrenia Among Residents of Arba Minch Zuria District, Arba Minch Health and Demographic Surveillance Sites System (AM-HDSS), Ethiopia Cross-Section Study. *Risk Management and Healthcare Policy*, 13, 437–446.

Bowie, C. R., & Harvey, P. D. (2006). Cognitive deficits and functional outcome in schizophrenia. *Neuropsychiatric Disease and Treatment*, 2(4), 531–536.

Briesacher, B. A., Gurwitz, J. H., & Soumerai, S. B. (2007). Patients at-risk for cost-related medication nonadherence: A review of the literature. *Journal of General Internal Medicine*, 22, 864–871. <https://doi.org/10.1007/s11606-007-0180-x>

Brisch, R., Saniotis, A., Wolf, R., Biela, H., Bernstein, H. G., Steiner, J., Bogerts, B., Braun, K., Kumaratilake, J., Henneberg, M., & Gos, T. (2014). The role of dopamine in schizophrenia from a neurobiological and evolutionary perspective: Old fashioned, but still in vogue. *Frontiers in Psychiatry*, 5, 1–11. <https://doi.org/10.3389/fpsy.2014.00047>

Bromley, S., Choi, M., & Faruqi, S. (2015). *First episode psychosis: an information guide*.

Buckley, P. F., Wirshing, D. A., Bhushan, P., Pierre, J. M., Resnick, S. A., & Wirshing, W. C. (2007). Lack of insight in schizophrenia: Impact on treatment adherence. *CNS Drugs*, 21(2), 129–141. <https://doi.org/10.2165/00023210-200721020-00004>

Budiono, W., Kantono, K., Kristianto, F. C., Avanti, C., & Herawati, F. (2021). Psychoeducation improved illness perception and expressed emotion of family caregivers of patients with schizophrenia. *International Journal of Environmental Research and Public Health*, 18(1–9). <https://doi.org/10.3390/ijerph18147522>

- Byerly, M., Fisher, R., Whatley, K., Holland, R., Varghese, F., Carmody, T., Magouirk, B., & Rush, A. J. (2005). A comparison of electronic monitoring vs. clinician rating of antipsychotic adherence in outpatients with schizophrenia. *Psychiatry Research*, *133*, 129–133. <https://doi.org/10.1016/j.psychres.2004.11.002>
- Cai, Y., Gong, W., He, H., Hughes, J. P., Simoni, J., Xiao, S., Gloyd, S., Lin, M., Deng, X., Liang, Z., He, W., Dai, B., Liao, J., Hao, Y., & Xu, D. (2020). Mobile texting and lay health supporters to improve schizophrenia care in a resource-poor community in rural China (LEAN Trial): Randomized controlled trial extended implementation. *Journal of Medical Internet Research*, *22*(12), 1–14. <https://doi.org/10.2196/22631>
- Camacho-gomez, M., & Castellvi, P. (2020). Effectiveness of Family Intervention for Preventing Relapse in First-Episode Psychosis Until 24 Months of Follow-up : A Systematic Review With Meta-analysis of Randomized Controlled Trials. *Schizophrenia Bulletin*, *46*(1), 98–109. <https://doi.org/10.1093/schbul/sbz038>
- Caqueo-urizar, A., Rus-Calafell, M., Urzua, A., Escudero, J., & Gutiérrez-Maldonado, J. (2015). The role of family therapy in the management of schizophrenia : challenges and solutions. *Neuropsychiatric Disease and Treatment*, *11*, 145–151. <https://doi.org/10.2147/NDT.S51331>
- Castelino, R. L., Hilmer, S. N., Bajorek, B. V, Nishtala, P., & Chen, T. F. (2010). Drug Burden Index and Potentially Inappropriate Medications in Community-Dwelling Older People The Impact of Home Medicines Review. *Drugs Aging*, *27*(2), 135–148.
- Chambers, R. A., Krystal, J. H., & Self, D. W. (2001). A Neurobiological Basis for Substance Abuse Comorbidity in Schizophrenia. *Society of Biological Psychiatry*, *50*(2), 71–83.
- Chan, A. H. Y., Cooper, V., Lycett, H., & Horne, R. (2020). Practical Barriers to Medication Adherence : What Do Current Self- or Observer-Reported Instruments Assess ? *Frontiers in Oncology*, *11*, 1–11. <https://doi.org/10.3389/fphar.2020.00572>
- Chandra, I. S., Kumar, K. L., Reddy, M. P., & Reddy, C. M. P. K. (2014). Attitudes toward Medication and Reasons for Non-Compliance in Patients with Schizophrenia. *Indian Journal of Psychological Medicine*, *36*(3), 294–298.

- Chaudhari, B., Saldanha, D., Kadiani, A., & Shahani, R. (2017). Evaluation of treatment adherence in outpatients with schizophrenia. *Industrial Psychiatry Journal*, 26, 215–222. <https://doi.org/10.4103/ipj.ipj>
- Chen, T. F. (2016). Pharmacist-Led Home Medicines Review and Residential Medication Management Review : The Australian Model. *Drugs & Aging*. <https://doi.org/10.1007/s40266-016-0357-2>
- Chew, M. L., Mulsant, B. H., Pollock, B. G., Lehman, M. E., Greenspan, A., Kirshner, M. A., Bies, R. R., Kapur, S., & Gharabawi, G. (2006). A model of anticholinergic activity of atypical antipsychotic medications. *Schizophrenia Research*, 88, 63–72. <https://doi.org/10.1016/j.schres.2006.07.011>
- Chien, W. T., Cheung, E. F. C., Mui, J. H. C., Gray, R., & Ip, G. (2019). Adherence therapy for schizophrenia: a randomised controlled trial. *Hong Kong Medical Journal*, 25 Suppl 2(1), 4–9.
- Chien, W. T., Leung, S. F., Yeung, F. K., & Wong, W. K. (2013). Current approaches to treatments for schizophrenia spectrum disorders , part II : psychosocial interventions and patient-focused perspectives in psychiatric care. *Neuropsychiatric*, 9, 1463–1481. <https://doi.org/10.2147/NDT.S49263>
- Chien, W. T., Mui, J., Gray, R., & Cheung, E. (2016). Adherence therapy versus routine psychiatric care for people with schizophrenia spectrum disorders: A randomised controlled trial. *BMC Psychiatry*, 16(1). <https://doi.org/10.1186/s12888-016-0744-6>
- Chien, W. T., Mui, J. H. C., Cheung, E. F. C., & Gray, R. (2015). Effects of motivational interviewing-based adherence therapy for schizophrenia spectrum disorders: A randomized controlled trial. *Trials*, 16(270), 1–14. <https://doi.org/10.1186/s13063-015-0785-z>
- Chokhawala K, S. L. (2021). *Antipsychotic Medications - StatPearls - NCBI Bookshelf*. <https://www.ncbi.nlm.nih.gov/books/NBK519503/?report=reader>
- Chow, E. P., Hassali, M. A., Saleem, F., & Aljadhey, H. (2015). Effects of pharmacist-led patient education on diabetes-related knowledge and medication adherence: A home-based study. *Health Education Journal*, 1–13. <https://doi.org/10.1177/0017896915597021>
- Chukwujekwu, C. D., & Adesokun, O. K. (2017). Prevalence of Medication Non-Adherence among Psychiatric Patients in a Tertiary Hospital in Nigeria.

Cipolle, R. J., Strand, L. M., & Morley, P. C. (2012). Chapter 3. Toward a Philosophy of Pharmaceutical Care Practice. In R. J. Cipolle, L. M. Strand, & P. C. Morley (Eds.), *Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services*, 3e. The McGraw-Hill Companies.

<http://accesspharmacy.mhmedical.com/content.aspx?aid=56172429>

Clifford, L., Crabb, S., Turnbull, D., Hahn, L., & Galletly, C. (2020). A qualitative study of medication adherence amongst people with schizophrenia. *Archives of Psychiatric Nursing*, 34, 194–199. <https://doi.org/10.1016/j.apnu.2020.06.002>

Collaborators GBD. (2018). Global, Regional, and National Incidence, Prevalence, and Years Lived with Disability for 354 Diseases and Injuries for 195 Countries and Territories, 1990-2017: A Systematic Analysis for the Global Burden of Disease Study 2017. In *The Lancet* (Vol. 392).

Commeey, I. T., Ninnoni, J. P. K., Asamoah Ampofo, E., & Miezah, D. (2023). Living with Schizophrenia: the role of interpersonal relationships. *Discover Psychology*, 3(13), 1–11. <https://doi.org/10.1007/s44202-023-00071-9>

Cooper, S., Lavaysse, L. M., & Gard, D. E. (2015). Assessing motivation orientations in schizophrenia : scale development and validation. *Psychiatry Research*, 225, 70–78. <https://doi.org/10.1016/j.psychres.2014.10.013>

Correll, C. U., Rubio, J. M., & Kane, J. M. (2018). What is the risk-benefit ratio of long-term antipsychotic treatment in people with schizophrenia ? *World Psychiatry*, 17(2), 149–160.

Correll, C. U., & Schooler, N. R. (2020). Negative Symptoms in Schizophrenia: A Review and Clinical Guide for Recognition, Assessment, and Treatment. *Neuropsychiatric Disease and Treatment*, 16, 519–534. <https://doi.org/10.2147/NDT.S225643>

Cozolino, L. J., Goldstein, M. J., Nuechterlein, K. H., West, K. L., & Snyder, K. S. (1988). The impact of education about schizophrenia on relatives varying in expressed emotion. *Schizophrenia Bulletin*, 14(4), 675–687. <https://doi.org/10.1093/schbul/14.4.675>

Crespo-Gonzalez, C., Dineen-Griffin, S., Rae, J., & Hill, R. A. (2022). Mental

- health training programs for community pharmacists, pharmacy staff and students: A systematic review. *Research in Social and Administrative Pharmacy*, 18, 3895–3910. <https://doi.org/10.1016/j.sapharm.2022.06.006>
- Daneault, J. G., Maraj, A., Lepage, M., Malla, A., Schmitz, N., Iyer, S. N., Joober, R., & Shah, J. L. (2019). Medication adherence in first episode psychosis: the role of pre-onset subthreshold symptoms. *Acta Psychiatrica Scandinavica*, 139(4), 336–347. <https://doi.org/10.1111/acps.13011>
- Danladi, J., Falang, K. D., Barde, R. A., Jimam, N. S., & Dangiwa, D. A. (2013). Pharmaceutical care and medication adherence in management of psychosis in a Nigerian tertiary hospital. *Journal of Research in Pharmacy Practice*, 2(2), 83–87. <https://doi.org/10.4103/2279-042x.117388>
- Dattani, S., Ritchie, H., & Roser, M. (2018). *Mental Health - Our World in Data*. <https://ourworldindata.org/mental-health>
- de Beer, F., Wijnen, B., Wouda, L., Koops, S., Gangadin, S., Veling, W., van Beveren, N., de Haan, L., Begemann, M. J. H., & Sommer, I. E. C. (2024). Antipsychotic dopamine D2 affinity and negative symptoms in remitted first episode psychosis patients. *Schizophrenia Research*, 274, 299–306. <https://doi.org/10.1016/j.schres.2024.09.030>
- Deci, E. L., & Ryan, R. M. (2015). Self-Determination Theory. In J. D. Wright (Ed.), *International Encyclopedia of the Social & Behavioral Sciences: Second Edition* (Second Edi, Vol. 21, pp. 486–491). Elsevier. <https://doi.org/10.1016/B978-0-08-097086-8.26036-4>
- Desai, R., & Nayak, R. (2019). Effects of medication nonadherence and comorbidity on health resource utilization in schizophrenia. *Journal of Managed Care and Specialty Pharmacy*, 25(1), 37–44. <https://doi.org/10.18553/jmcp.2019.25.1.037>
- Dewan, P. (2015). Words Versus Pictures: Leveraging the Research on Visual Communication. *Partnership: The Canadian Journal of Library and Information Practice and Research*, 10(1), 1–10. <https://doi.org/10.21083/partnership.v10i1.3137>
- DiBonaventura, M., Gabriel, S., Dupclay, L., Gupta, S., & Kim, E. (2012). A patient perspective of the impact of medication side effects on adherence: Results of a cross-sectional nationwide survey of patients with schizophrenia. *BMC Psychiatry*, 12(20), 1–7. <https://doi.org/10.1186/1471-244X-12-20>

- Dickerson, F. B., & Lehman, A. F. (2011). Evidence-based psychotherapy for schizophrenia: 2011 update. *The Journal of Nervous and Mental Disease*, 199(8), 520–526. <https://doi.org/10.1097/NMD.0b013e318225ee78>
- Dipiro, J. T., Talbert, R. L., Yee, G. C., Matzke, G. R., Wells, B. G., & Posey, L. M. (2014). Pharmacotherapy: A Pathophysiologic Approach, ed. *Connecticut: Appleton and Lange*, 4, 141–142.
- Divac, N., Prostran, M., Jakovcevski, I., & Cerovac, N. (2014). Second-Generation antipsychotics and extrapyramidal adverse effects. *BioMed Research International*, 2014, 1–6.
- Doris, F. A., & Sylvia, A. A. (2015). Perceptions and Beliefs about Mental Illness (Schizophrenia) among Adults in Zaare Community. *Developing Country Studies*, 5(9), 150–158.
- Dougall, N., Maayan, N., Lm, M., Mcintosh, A., Dougall, N., Maayan, N., Lm, M., & Mcintosh, A. (2015). Transcranial magnetic stimulation (TMS) for schizophrenia (Review). *Cochrane Database of System Reviews*, 20(8), 1–142. <https://doi.org/10.1002/14651858.CD006081.pub2>. www.cochranelibrary.com
- Dunja, D., Požgain, I., Grgic, M., & Filakovic, P. (2007). Psychoeducation and compliance in the treatment of the patients with schizophrenia. *Coll. Antropol*, 31, 1111–1115. [https://doi.org/https://doi.org/10.1016/S0924-977X\(06\)70464-3](https://doi.org/https://doi.org/10.1016/S0924-977X(06)70464-3)
- Eisner, E., Drake, R., & Barrowclough, C. (2013). Assessing early signs of relapse in psychosis: Review and future directions. *Clinical Psychology Review*, 33, 637–653. <https://doi.org/10.1016/j.cpr.2013.04.001>
- El-Missiry, A., Elbatrawy, A., El Missiry, M., Moneim, D. A., Ali, R., & Essawy, H. (2015). Comparing cognitive functions in medication adherent and non-adherent patients with schizophrenia. *Journal of Psychiatric Research*, 70, 106–112. <https://doi.org/10.1016/j.jpsychires.2015.09.006>
- Emsley, R., Chiliza, B., Asmal, L., & Harvey, B. H. (2013). The nature of relapse in schizophrenia. *BMC Psychiatry*, 13(50), 1–8. <https://doi.org/10.1186/1471-244X-13-50>
- Ernest, D., Vuksic, O., Shepard-Smith, A., & Webb, E. (2017). *Schizophrenia: An Information Guide*.

- Ertem, M. Y., & Duman, Z. Ç. (2019). The effect of motivational interviews on treatment adherence and insight levels of patients with schizophrenia: A randomized controlled study. *Perspectives in Psychiatric Care*, 55(1), 75–86. <https://doi.org/10.1111/ppc.12301>
- Eticha, T., Teklu, A., Ali, D., Solomon, G., & Alemayehu, A. (2015). Factors associated with medication adherence among patients with schizophrenia in Mekelle, Northern Ethiopia. *PloS One*, 1–11. <https://doi.org/10.1371/journal.pone.0120560>
- Fallahi Khoshknab, M., Sheikhona, M., Rahgouy, A., Rahgozar, M., & Sodagari, F. (2013). The effects of group psychoeducational programme on family burden in caregivers of Iranian patients with schizophrenia. *Journal of Psychiatric and Mental Health Nursing*, 21(5), 438–446. <https://doi.org/10.1111/jpm.12107>
- Farah, F. H. (2018). Schizophrenia: An Overview. *Asian Journal of Pharmaceutics*, 12(2), 77–87.
- Farquharson, B., Johnston, M., & Bugge, C. (2011). How people present symptoms to health services: A theory-based content analysis. *British Journal of General Practice*, 61, 267–273. <https://doi.org/10.3399/bjgp11X567090>
- Febrinasari, N., Widayanti, A. W., Prabandari, Y. S., & Satibi, S. (2023). Role and challenges of community pharmacists in managing mental health care in Indonesia: A mix-method study. *Asian Journal of Psychiatry*, 89, 1–5. <https://doi.org/10.1016/j.ajp.2023.103773>
- Fink, M. (2009). Electroconvulsive therapy: a guide for professionals and their patients. In *Oxford University Press*. <https://doi.org/10.1371/journal.pone.0143572>
- Fiorillo, A., Bassi, M., De Girolamo, G., Catapano, F., & Romeo, F. (2010). The impact of a psychoeducational intervention on family members' views about schizophrenia: Results from the OASIS Italian multi-centre study. *International Journal of Social Psychiatry*, 57(6), 596–603. <https://doi.org/10.1177/0020764010376607>
- Flasorgbor, D. (2015). Perceptions and Beliefs about Mental Illness (Schizophrenia) among Adults in Zaare Community. *Developing Country Studies*, 5(9), 150–158.
- Fond, G. B., Yon, D. K., Tran, B., Mallet, J., Urbach, M., Leignier, S., Rey, R.,

- Misdrahi, D., Llorca, P. M., Schürhoff, F., Berna, F., & Boyer, L. (2023). Poverty and inequality in real-world schizophrenia: a national study. *Frontiers in Public Health*, *11*, 01–09. <https://doi.org/10.3389/fpubh.2023.1182441>
- Fountoulakis, K. N., Moeller, H.-J., Kasper, S., Tamminga, C., Yamawaki, S., Kahn, R., Tandon, R., Correll, C. U., & Javed, A. (2020). The report of the joint WPA/CINP workgroup on the use and usefulness of antipsychotic medication in the treatment of schizophrenia. *CNS Spectrums*, *22*, 1–25.
- Fowler, D., Hodgekins, J., Berry, C., Clarke, T., Palmier-Claus, J., Sacadura, C., Graham, A., Lowen, C., Steele, A., Pugh, K., Fraser, S., Fitzsimmons, M., & French, P. (2019). Social recovery therapy: a treatment manual. *Psychosis*, 261–272. <https://doi.org/10.1080/17522439.2019.1607891>
- Freedman, R. (2003). Schizophrenia. *N Engl J Med*, *349*, 1738–1749. <https://doi.org/10.1177/1461444810365020>
- Gaebel, W., & Zielasek, J. (2015). Schizophrenia in 2020: Trends in diagnosis and therapy. *Psychiatry and Clinical Neurosciences*, 1–13. <https://doi.org/10.1111/pcn.12322>
- Gaines, R. (2014). *Culture & Schizophrenia: How the Manifestation of Schizophrenia Symptoms in Hue Reflects Vietnamese Culture*. https://digitalcollections.sit.edu/isp_collection/1826
- Galderisi, S., Kaiser, S., Bitter, I., Nordentoft, M., Mucci, A., Sabe, M., Giordano, G. ., Nielsen, M. Ø., Glenthøj, L. B., Pezzella, P., Falkai, P., Dollfus, S., & Gaebel, W. (2021). EPA_guidance treatment of negative symptoms.pdf. *European Psychiatry*, *6*(1), 1–14.
- García-Pérez, L., Linertová, R., Serrano-Pérez, P., Trujillo-Martín, M., Rodríguez-Rodríguez, L., Valcárcel-Nazco, C., & del Pino-Sedeño, T. (2020). Interventions to improve medication adherence in mental health: the update of a systematic review of cost-effectiveness. *International Journal of Psychiatry in Clinical Practice*, *24*(4), 416–427. <https://doi.org/10.1080/13651501.2020.1782434>
- Garcia, S., Martinez-Cengotitabengoa, M., Lopez-Zurbano, S., Zorrilla, I., Lopez, P., Vieta, E., & Gonzalez-Pinto, A. (2016). Adherence to Antipsychotic Medication in Bipolar Disorder and Schizophrenic Patients A Systematic Review. *Journal of Clinical Psychopharmacology*, *36*(4), 355–371.

- Gard, D. E., Sanchez, A. H., Starr, J., Cooper, S., Fisher, M., Rowlands, A., & Vinogradov, S. (2014). Deficits in Schizophrenia : The ‘ Why ’ of Motivated Behavior. *Schizophr*, *156*(0), 217–222. <https://doi.org/10.1016/j.schres.2014.04.027>. Using
- GDaH collaborators. (2018). Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, *392*(10159), 1859–1922. [https://doi.org/10.1016/S0140-6736\(18\)32335-3](https://doi.org/10.1016/S0140-6736(18)32335-3)
- Girma, E., & Tesfaye, M. (2011). Patterns of treatment seeking behavior for mental illnesses in Southwest Ethiopia : a hospital based study. *BMC Psychiatry*, *11*(138), 1–7.
- Girma, S., Abdisa, E., & Fikadu, T. (2017). Prevalence of Antipsychotic Drug Non Adherence and Associated Factors Among Patients with Schizophrenia Attending at Amanuel Mental Specialized Hospital , Addis Ababa , Ethiopia : Institutional Based Cross Sectional Study. *Health Science Journal*, *11*(4), 1–7. <https://doi.org/10.21767/1791-809X.1000520>
- Glick, I. D., Stekoll, A. H., & Hays, S. (2011). The role of the family and improvement in treatment maintenance, adherence, and outcome for schizophrenia. *Journal of Clinical Psychopharmacology*, *31*(1), 82–85. <https://doi.org/10.1097/JCP.0b013e31820597fa>
- Grover, S., Sahoo, S., Rabha, A., & Koirala, R. (2018). ECT in schizophrenia : a review of the evidence. *Acta Neuropsychiatrica*, 1–13. <https://doi.org/10.1017/neu.2018.32>
- Güner, P. (2014). Illness Perception in Turkish Schizophrenia Patients: A Qualitative Explorative Study. *Archives of Psychiatric Nursing*, *28*, 405–412. <https://doi.org/10.1016/j.apnu.2014.08.016>
- Habibi, R., Nayer, M. S., & Zadeh, M. K. (2015). Educational Needs of Families of Patients with Schizophrenia : A Literature Review. *International Journal of Medical Reviews*, *2*(2), 250–255.
- Haddad, P. M., Brain, C., & Scott, J. (2014). Nonadherence with antipsychotic medication in schizophrenia: challenges and management strategies. *Patient Related Outcome Measures*, *5*, 43–62.

- Haddad, P. M., & Correll, C. U. (2018). The acute efficacy of antipsychotics in schizophrenia : a review of recent meta-analyses. *Therapeutic Advances in Psychopharmacology*, 8(11), 303–318. <https://doi.org/10.1177/2045125318781475>
- Hakulinen, C., McGrath, J. J., Timmerman, A., Skipper, N., Mortensen, P. B., Pedersen, C. B., & Agerbo, E. (2019). The association between early-onset schizophrenia with employment, income, education, and cohabitation status: nationwide study with 35 years of follow-up. *Social Psychiatry and Psychiatric Epidemiology*, 54, 1343–1351. <https://doi.org/10.1007/s00127-019-01756-0>
- Hamann, J., Holzhüter, F., Blakaj, S., Becher, S., Haller, B., Landgrebe, M., Schmauß, M., & Heres, S. (2020). schizophrenia (SDM-PLUSImplementing shared decision-making on acute psychiatric wards: a cluster-randomized trial with inpatients suffering from). *Epidemiology and Psychiatric Sciences*, 29, e137. <https://doi.org/10.1017/S2045796020000505>
- Hammond, R. W., Schwartz, A. H., Campbell, M. J., Remington, T. L., Chuck, S., Blair, M. M., Vassey, A. M., Rospond, R. M., Herner, S. J., & Webb, C. E. (2003). Collaborative drug therapy management by pharmacists--2003. *Pharmacotherapy*, 23(9), 1210–1225. <https://doi.org/10.1592/phco.23.10.1210.32752>
- Hanlon, C., Wondimagegn, D., & Alem, A. (2012). Lessons learned in developing community mental health care in East and South East Asia. *World Psychiatry*, 9(3), 185–189. <https://doi.org/10.1002/j.2051-5545.2012.tb00129.x>
- Harvey, C. (2018). Family psychoeducation for people living with schizophrenia and their families. *BJPsych Advances*, 24, 9–19. <https://doi.org/10.1192/bja.2017.4>
- Harvey, P. D., Heaton, R. K., Carpenter, W. T., Green, M. F., Gold, J. M., & Schoenbaum, M. (2012). Functional impairment in people with schizophrenia: focus on employability and eligibility for disability compensation. *Schizophr Res.*, 140(1–3), 1–19. <https://doi.org/10.1016/j.schres.2012.03.025.Functional>
- Hasan, A. A.-H., & Van Belkum, C. (2019). Psychoeducational Interventions for People with Schizophrenia: Findings from the Systematic Reviews. *Issues in Mental Health Nursing*, 1–14.

- Hasan, A. A., Callaghan, P., & Lymn, J. S. (2015a). Evaluation of the impact of a psychoeducational intervention for people diagnosed with schizophrenia and their primary caregivers in Jordan: A randomized controlled trial. *BMC Psychiatry*, *15*(72), 1–10. <https://doi.org/10.1186/s12888-015-0444-7>
- Hasan, A. A., Callaghan, P., & Lymn, J. S. (2015b). Evaluation of the impact of a psychoeducational intervention for people diagnosed with schizophrenia and their primary caregivers in Jordan: A randomized controlled trial. *BMC Psychiatry*, *15*(72), 1–10. <https://doi.org/10.1186/s12888-015-0444-7>
- He, H., Liu, Q., Li, N., Guo, L., Gao, F., Bai, L., Gao, F., & Lyu, J. (2020). Trends in the incidence and DALYs of schizophrenia at the global, regional, and national levels: results from the Global Burden of Disease Study 2017. *Epidemiology and Psychiatric Sciences*, *29*(e91), 1–11. <https://doi.org/10.1016/j.jad.2021.10.022>
- Hepler, C. D., & Strand, L. M. (1990). Opportunities and responsibilities in pharmaceutical care. *American Journal of Hospital Pharmacy*, *47*(3), 533–543.
- Herz, M. I., Lamberti, J. S., Mintz, J., Scott, R., O’Dell, S. P., McCartan, L., & Nix, G. (2000). A program for relapse prevention in schizophrenia: A controlled study. *Archives of General Psychiatry*, *57*(3), 277–283. <https://doi.org/10.1001/archpsyc.57.3.277>
- Higashi, K., Medic, G., Littlewood, K. J., Diez, T., Granström, O., & De Hert, M. (2013). Medication adherence in schizophrenia: factors influencing adherence and consequences of nonadherence, a systematic literature review. *Therapeutic Advances in Psychopharmacology*, *3*(4), 200–218. <https://doi.org/10.1177/2045125312474019>
- Hiwot, Sumesh, & Henock A. (2018). A Study to Assess the Prevalence of Antipsychotics Non-Adherence and it’s Associated Factors Among Patients with Schizophrenia in. *JOJ Nurse Health Care*, *6*(5), 001–005. <https://doi.org/10.19080/JOJNHC.2018.06.555700>
- Ho, P. M., Bryson, C. L., & Rumsfeld, J. S. (2009). Medication Adherence: Its Importance in Cardiovascular Outcomes. *Circulation*, *119*, 3028–3035. <https://doi.org/10.1161/CIRCULATIONAHA.108.768986>
- Holder, S., & Wayhs, A. (2014). Schizophrenia. *American Family Physician*,

- Horne, R., Chapman, S. C. E., Parham, R., Freemantle, N., Forbes, A., & Cooper, V. (2013). Understanding Patients' Adherence-Related Beliefs about Medicines Prescribed for Long-Term Conditions: A Meta-Analytic Review of the Necessity-Concerns Framework. *PLoS ONE*, 8(12), 1–24. <https://doi.org/10.1371/journal.pone.0080633>
- Horne, R., & Weinman, J. (1999). Patients' beliefs about prescribed medicines and their role in adherence to treatment in chronic physical illness. *Journal of Psychosomatic Research*, 47(6), 555–567. [https://doi.org/10.1016/s0022-3999\(99\)00057-4](https://doi.org/10.1016/s0022-3999(99)00057-4)
- Howe, J., & Lindsey, L. (2023). The role of pharmacists in supporting service users to optimise antipsychotic medication. *International Journal of Clinical Pharmacy*, 45, 1293–1298. <https://doi.org/10.1007/s11096-023-01630-9>
- Hu, J., Zheng, Q., Zhang, Y., Liu, C., Tian, X., Liu, X., Wang, D., & Ma, J. (2021). Help - seeking behavior of individuals with schizophrenia in the general population of Hunan, China. *Scientific Reports*, 11(23012), 1–9.
- Hudson, T. J., Owen, R. R., Thrush, C. R., Han, X., Pyne, J. M., Thapa, P., & Sullivan, G. (2004). A pilot study of barriers to medication adherence in schizophrenia. *The Journal of Clinical Psychiatry*, 65(2), 211–216. <https://doi.org/10.4088/jcp.v65n0211>
- Huguelet, P., Mohr, S., Borrás, L., Gillieron, C., & Brandt, P.-Y. (2006). Spirituality and religious practices among outpatients with schizophrenia and their clinicians. *Psychiatric Services*, 57(3), 366–372. <https://doi.org/10.2190/PM.44.1.c>
- Hui, C. L. M., Lo, M. C. L., Chan, E. H. C., Chen, E. S. M., Ko, R. W. T., Lee, E. H. M., Chang, W. C., Chan, S. K. W., & Chen, E. Y. H. (2016). Perception towards relapse and its predictors in psychosis patients: A qualitative study. *Early Intervention in Psychiatry*, 1–7. <https://doi.org/10.1111/eip.12378>
- Hunt, G. E., Large, M. M., Cleary, M., Lai, H. M. X., & Saunders, J. B. (2018). Prevalence of comorbid substance use in schizophrenia spectrum disorders in community and clinical settings, 1990–2017: Systematic review and meta-analysis. *Drug and Alcohol Dependence*, 191, 234–258. <https://doi.org/10.1016/j.drugalcdep.2018.07.011>
- Hussain, S., Imran, N., Hotiana, U. A., Mazhar, N., & Asif, A. (2017). Illness

- perceptions in patients of schizophrenia: A preliminary investigation from Lahore, Pakistan. *Pakistan Journal of Medical Sciences*, 33(4), 829–834. <https://doi.org/10.12669/pjms.334.13128>
- Immonen, J., Jääskeläinen, E., Korpela, H., & Miettunen, J. (2017). Age at onset and the outcomes of schizophrenia: A systematic review and meta-analysis. *Early Intervention in Psychiatry*, 11(6), 453–460. <https://doi.org/10.1111/eip.12412>
- Jenkins, R., Othieno, C., Okeyo, S., Aruwa, J., Kingora, J., & Jenkins, B. (2013). Health system challenges to integration of mental health delivery in primary care in Kenya-perspectives of primary care health workers. *BMC Health Services Research*, 13, 1–8. <https://doi.org/10.1186/1472-6963-13-368>
- Joel, J. J. (2014). Schizophrenic Patient Care-Pharmacists Role. *Scholars Academic Journal of Pharmacy (SAJP)*, 3(5), 356–362.
- Kahn, R. S., Sommer, I. E., Murray, R. M., Meyer-Lindenberg, A., Weinberger, D. R., Cannon, T. D., O’Donovan, M., Correll, C. U., Kane, J. M., Van Os, J., & Insel, T. R. (2015). Schizophrenia. *Nature Reviews Disease Primers*, 1, 1–24. <https://doi.org/10.1038/nrdp.2015.67>
- Kane, J. M. (2014). Attitudinal barriers to prescribing LAI antipsychotics in the outpatient setting: communicating with patients, families, and caregivers. *The Journal of Clinical Psychiatry*, 75(12). <https://doi.org/10.4088/JCP.13024tx2c>
- Karabulut, B., & Uslu, E. (2024). Schizophrenia and medication adherence: Associated factors. *Archives of Psychiatric Nursing*, 49, 47–54. <https://doi.org/10.1016/j.apnu.2024.01.015>
- Karge, R. A., Curtain, C. M., & Salahudeen, M. S. (2023). Community Pharmacists’ Role in Reducing the Incidence of Cardiometabolic Adverse Drug Events in Schizophrenia: Insights from Mental Health Professionals. *Medicina*, 59(2052), 1–12. <https://doi.org/10.3390/medicina59122052>
- Kassew, T., Demilew, D., Birhanu, A., Wonde, M., Liyew, B., & Shumet, S. (2019). Attitude towards Antipsychotic Medications in Patients Diagnosed with Schizophrenia: A Cross-Sectional Study at Amanuel Mental Specialized Hospital, Addis Ababa, Ethiopia. *Schizophrenia Research and Treatment*, 2019, 1–9. <https://doi.org/10.1155/2019/5094017>
- Kate, N., Grover, S., Kulhara, P., & Nehra, R. (2012). Supernatural beliefs,

- aetiological models and help seeking behaviour in patients with schizophrenia. *Industrial Psychiatry Journal*, 21(1), 49–54. <https://doi.org/10.4103/0972-6748.110951>
- Kay, S R Fiszbein A, L. a O. (1987). Positive and Negative Syndrome Scale (Panss) Rating Criteria. *Schizophrenia Bulletin*, 13(2), 261–276. www.ncbi.nlm.nih.gov
- Kay, S. R., Fiszbein, A., & Opler, L. A. (1987). The positive and negative syndrome scale (PANSS) for schizophrenia. *Schizophrenia Bulletin*, 13(2), 261–276. <https://doi.org/10.1093/schbul/13.2.261>
- Keating, D., Mcwilliams, S., Boland, F., Doyle, R., Behan, C., Strawbridge, J., & Clarke, M. (2021). Prescribing pattern of antipsychotic episode psychosis : a medication for first- - retrospective cohort study. *BMJ Open*, 11, 1–11. <https://doi.org/10.1136/bmjopen-2020-040387>
- KeMenKes. (2019). *InfoDatin Pusat Data dan Informasi Kementerian Kesehatan RI Situasi Kesehatan Jiwa di Indonesia*.
- Kim, J., Ozzoude, M., Nakajima, S., Shah, P., Caravaggio, F., Iwata, Y., De Luca, V., Graff-Guerrero, A., & Gerretsen, P. (2020). Insight and medication adherence in schizophrenia: An analysis of the CATIE trial. *Neuropharmacology*, 168, 1–8. <https://doi.org/10.1016/j.neuropharm.2019.05.011>
- Kiran, C., & Chaudhury, S. (2009). Understanding delusions. *Industrial Psychiatry Journal*, 18(1), 3–18. <https://doi.org/10.4103/0972-6748.57851>
- Klinpiboon, P., & Chanthapasa, K. (2023). The Medication Use Issues and Challenges of Mental Illness Exacerbation in Patients with Schizophrenia: A Qualitative Study in Thailand [Response to Letter]. *Patient Preference and Adherence*, 17, 2927–2937. <https://doi.org/10.2147/PPA.S453624>
- Kucukarslan, S. N. (2012). A review of published studies of patients' illness perceptions and medication adherence: Lessons learned and future directions. *Research in Social and Administrative Pharmacy*, 8(5), 371–382. <https://doi.org/https://doi.org/10.1016/j.sapharm.2011.09.002>
- Kurihara, T., Kato, M., Reverger, R., & Tirta, I. G. R. (2006). Beliefs About Causes of Schizophrenia Among Family Members : A Community-Based Survey in Bali. In *Psychiatric Services* (Vol. 57, Issue 12).
- Kvarnström, K., Westerholm, A., Airaksinen, M., & Liira, H. (2021). Factors

- contributing to medication adherence in patients with a chronic condition: A scoping review of qualitative research. *Pharmaceutics*, *13*, 1–41. <https://doi.org/10.3390/pharmaceutics13071100>
- Lacro, J. P., Dunn, L. B., Dolder, C. R., Leckband, S. G., & Jeste, D. V. (2002). Prevalence of and Risk Factors for Medication Nonadherence in Patients With Schizophrenia: A Comprehensive Review of Recent Literature. *J Clin Psychiatry*, *63*(10), 892–909. <https://www.psychiatrist.com/jcp/schizophrenia/prevalence-risk-factors-medication-nonadherence-patients/>
- Lam, W. Y., & Fresco, P. (2015). Medication Adherence Measures : An Overview. *Biomarkers in Neuropsychiatry*, *2015*, 1–12. <https://doi.org/10.1155/2015/217047>
- Lamarche, L., Tejpal, A., & Mangin, D. (2018). Self-efficacy for medication management: A systematic review of instruments. *Patient Preference and Adherence*, *12*, 1279–1287. <https://doi.org/10.2147/PPA.S165749>
- Larson, M. K., Walker, E. F., & Compton, M. T. (2010). Early signs, diagnosis and therapeutics of the prodromal phase of schizophrenia and related psychotic disorders. *Expert Review of Neurotherapeutics*, *10*(8), 1347–1359. <https://doi.org/10.1586/ern.10.93.Early>
- Lauber, C., & Rössler, W. (2007). Stigma towards people with mental illness in developing countries in Asia. *International Review of Psychiatry*, *19*(2), 157–178. <https://doi.org/10.1080/09540260701278903>
- Law, M. R., Cheng, L., Dhalla, I. A., Heard, D., & Morgan, S. G. (2012). The effect of cost on adherence to prescription medications in Canada. *CMAJ. Canadian Medical Association Journal*, *184*(3), 297–302. <https://doi.org/10.1503/cmaj.111270>
- Legault, L. (2017). Encyclopedia of Personality and Individual Differences. In *Encyclopedia of Personality and Individual Differences*. Springer International Publishing. https://doi.org/10.1007/978-3-319-28099-8_1162-1
- Lehman, A. F., Kreyenbuhl, J., Buchanan, R. W., Dickerson, F. B., Dixon, L. B., Goldberg, R., Green-Paden, L. D., Tenhula, W. N., Boerescu, D., Tek, C., Sandson, N., & Steinwachs, D. M. (2004). The Schizophrenia Patient Outcomes Research Team (PORT): updated treatment recommendations 2003. *Schizophrenia Bulletin*, *30*(2), 193–217.

- Lehman, A. F., Lieberman, J. A., Dixon, L. B., McGlashan, T. H., Miller, A. L., & Perkins, D. O. (2004). American Psychiatric Association Practice Guidelines; Work Group on Schizophrenia. Practice guideline for the treatment of patients with schizophrenia. *Am J Psychiatry*, *161*(suppl 2), 1–56.
- Leucht, S., Barabáßy, Á., Laszlovszky, I., Szatmári, B., Acsai, K., Szalai, E., Harsányi, J., Earley, W., & Németh, G. (2019). Linking PANSS negative symptom scores with the Clinical Global Impressions Scale: understanding negative symptom scores in schizophrenia. *Neuropsychopharmacology*, *44*, 1589–1596. <https://doi.org/10.1038/s41386-019-0363-2>
- Leucht, S., Barnes, T. R. E., Kissling, W., Engel, R. R., Correll, C., & Kane, J. M. (2003). Relapse Prevention in Schizophrenia With New-Generation Antipsychotics: A Systematic Review and Exploratory Meta-Analysis of Randomized, controlled Trials. *Am J Psychiatry*, *160*, 1209–1222.
- Li, R., Ma, X., Wang, G., Yang, J., & Wang, C. (2016). Why sex differences in schizophrenia? *Journal of Translational Neuroscience*, *1*(1), 37–42. <https://pubmed.ncbi.nlm.nih.gov/29152382>
- Li, X. J., Wu, J. H., Liu, J. B., Li, K. P., Wang, F., Sun, X. H., & Ma, S. H. (2015). The influence of marital status on the social dysfunction of schizophrenia patients in community. *International Journal of Nursing Sciences*, 149–152. <https://doi.org/10.1016/j.ijnss.2015.04.015>
- Liechti, S., Capodilupo, G., Opler, D. J., Opler, M., & Yang, L. H. (2017). A Developmental History of the Positive and Negative Syndrome Scale (PANSS). *Innovations in Clinical Neuroscience*, *14*(11–12), 12–17. <http://www.ncbi.nlm.nih.gov/pubmed/29410932> <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=PMC5788246>
- Liemburg, E., Castelein, S., Stewart, R., van der Gaag, M., Aleman, A., & Knegtering, H. (2013). Two subdomains of negative symptoms in psychotic disorders: Established and confirmed in two large cohorts. *Journal of Psychiatric Research*, *47*, 718–725. <https://doi.org/10.1007/s002130000459>
- Lippi, G. (2016). Schizophrenia in a member of the family : Burden , expressed emotion and addressing the needs of the whole family. *South African Journal of Psychiatry*, *22*(1), 1–7.

- Ljungdalh, P. M. (2017). Non-adherence to pharmacological treatment in schizophrenia and schizophrenia spectrum disorders - An updated systematic literature review. *The European Journal of Psychiatry*, *31*(4), 172–186.
- Llorca, P. M., Pereira, B., Jardri, R., Brousse, G., & Misdráhi, D. (2016). Hallucinations in schizophrenia and Parkinson ' s disease : an analysis of sensory modalities involved and the repercussion on patients. *Scientific Reports*, *6*(38152), 1–9. <https://doi.org/10.1038/srep38152>
- Lobban, F., Barrowclough, C., & Jones, S. (2004). The impact of beliefs about mental health problems and coping on outcome in schizophrenia. *Psychological Medicine*, *34*, 1165–1176. <https://doi.org/10.1017/S003329170400203X>
- Loots, E., Goossens, E., Vanwesemael, T., Morrens, M., Van Rompaey, B., & Dilles, T. (2021). Interventions to improve medication adherence in patients with schizophrenia or bipolar disorders: A systematic review and meta-analysis. *International Journal of Environmental Research and Public Health*, *18*, 1–22. <https://doi.org/10.3390/ijerph181910213>
- Lotfabadi, M. K., Bayazi, M. H., & Rajaei, A. R. (2021). The effect of cognitive-behavioral group training of self-care skills on self-care in patients with schizophrenia. *Nursing Practice Today*, *9*(1), 24–36. <https://doi.org/10.18502/npt.v9i1.7327>
- Lucca, J. M., Ramesh, M., Parthasarathi, G., & Ram, D. (2015). Incidence and factors associated with medication nonadherence in patients with mental illness: A cross-sectional study. *Journal of Postgraduate Medicine*, *61*(4), 251–256. <https://doi.org/10.4103/0022-3859.166514>
- Lundahl, B., Moleni, T., Burke, B. L., Butters, R., Tollefson, D., Butler, C., & Rollnick, S. (2013). Patient Education and Counseling Motivational interviewing in medical care settings : A systematic review and meta-analysis of randomized controlled trials. *Patient Education and Counseling*, *93*, 157–168. <https://doi.org/10.1016/j.pec.2013.07.012>
- Lutfiyya, M. N., Chang, L. F., McGrath, C., Dana, C., & Lipsky, M. S. (2019). The state of the science of interprofessional collaborative practice: A scoping review of the patient health-related outcomes based literature published between 2010 and 2018. *PLoS ONE*, *14*(6), 1–18. <https://doi.org/10.1371/journal.pone.0218578>

- Lyngdoh, L. A. ., Antony, S., Basavarajappa, C., Kalyanasundaram, J. ., & Ammapattian, T. (2023). Marriage in persons with severe mental illness: A narrative review-based framework for a supported relationship. *Journal of Family Medicine and Primary Care* /, 12(12), 3033–3041. <https://doi.org/10.4103/jfmpc.jfmpc>
- Marchira, C. R., Supriyanto, I., & Good, B. J. (2016). The association between duration of untreated psychosis in fi rst psychotic episode patients and help seeking behaviors in Jogjakarta , Indonesia. *International Journal of Culture and Mental Health*, 9(2), 120–126.
- Mari, J. D. J., Razzouk, D., Thara, R., Eaton, J., & Thornicroft, G. (2009). Packages of care for schizophrenia in low- and middle-income countries. *PLoS Medicine*, 6(10), 1–8. <https://doi.org/10.1371/journal.pmed.1000165>
- Marthoenis, M., Aichberger, M. C., & Schouler-ocak, M. (2016). Patterns and Determinants of Treatment Seeking among Previously Untreated Psychotic Patients in Aceh Province , Indonesia : A Qualitative Study. *Scientifica*, 2016, 1–7. <https://doi.org/10.1155/2016/9136079>
- Martin, V., Brereton, A., & Tang, J. (2020). Learning and Motivation for Rewards in Schizophrenia: Implications for Behavioral Rehabilitation. *Current Behavioral Neuroscience Reports*, 7, 147–157. <https://doi.org/10.1007/s40473-020-00210-9>
- Marwaha, S., Johnson, S., Bebbington, P., Stafford, M., Angermeyer, M. C., Brugha, T., Azorin, J. M., Kilian, R., Hansen, K., & Toumi, M. (2007). Rates and correlates of employment in people with schizophrenia in the UK, France and Germany. *British Journal of Psychiatry*, 191, 30–37. <https://doi.org/10.1192/bjp.bp.105.020982>
- Masoumi, T., Shafaroodi, N., & Razvan, Z. (2018). Participation of people with schizophrenia in everyday life: Family’s perspective. *Iranian Rehabilitation Journal*, 16(3), 297–305. <https://doi.org/10.32598/irj.16.3.297>
- McWilliams, S., Hill, S., Mannion, N., Fetherston, A., Kinsella, A., & O’Callaghan, E. (2012). Schizophrenia: a five-year follow-up of patient outcome following psycho-education for caregivers. *European Psychiatry*, 27, 56–61. <https://doi.org/10.1016/j.eurpsy.2010.08.012>
- Medalia, A., & Brekke, J. (2010). In search of a theoretical structure for understanding motivation in schizophrenia. *Schizophrenia Bulletin*, 36(5),

- Medic, G., Higashi, K., Littlewood, K. J., Diez, T., Granström, O., & Kahn, R. S. (2013). Dosing frequency and adherence in chronic psychiatric disease: systematic review and meta-analysis. *Neuropsychiatric Disease and Treatment*, 9, 119–131.
- Meepring, S., Tulyakul, P., Sathagathonthun, G., & Supasri, J. (2021). A Review of Factors Relating to Medication Non-Adherence in Patients with Schizophrenia. *Global Journal of Health Science*, 13(10), 52–60. <https://doi.org/10.5539/gjhs.v13n10p52>
- Mihaljeviü-Peješ, A., Janoviü, M. B., Šagud, M., Živkoviü, M., Janoviü, Š., & Jevtoviü, S. (2019). Cognitive deficit in schizophrenia: An overview. *Psychiatria Danubina*, 31(2), S139–S142.
- Miller, W. R., & Rollnick, S. (2013). *Motivational Interviewing Helping People Change* (Third Edit). The Guilford Press.
- Millet, C. (2012). Sick Societies: responding to the Global Challenge of Chronic Disease. Stuckler D. Siegel K (eds). *International Journal of Epidemiology*, 41(2), 574. <https://doi.org/10.1093/ije/dys036>
- Milosavljevic, A., Aspden, T., & Harrison, J. (2018). Community pharmacist-led interventions and their impact on patients' medication adherence and other health outcomes: a systematic review. *International Journal of Pharmacy Practice*, 1–11. <https://doi.org/10.1111/ijpp.12462>
- Mishra, A., Sai Krishna, G., Sravani, A., Kurian, T. D., Kurian, J., Ramesh, M., & Kishor, M. (2017). Impact of pharmacist-led collaborative patient education on medication adherence and quality of life of schizophrenia patients in a tertiary care setting. *Bulletin of Faculty of Pharmacy, Cairo University*, 55, 345–349. <https://doi.org/10.1016/j.bfopcu.2017.08.001>
- Mohammed, F., Geda, B., Yadeta, T. A., & Dessie, Y. (2024). Antipsychotic medication non-adherence and factors associated among patients with schizophrenia in eastern Ethiopia. *BMC Psychiatry*, 24(108), 1–11. <https://doi.org/10.1186/s12888-024-05554-0>
- Mohiuddin, A. (2018). Patient Education: Effective Vision for True Compliance. *Advanced Nursing & Patient Care International Journal*, 1(3), 1–10. <https://chembiopublishers.com/ANPCIJ/ANPCIJ180012.pdf>
- Montes, J. M., Medina, E., Gomez-Beneyto, M., & Maurino, J. (2012). A short

- message service (SMS)-based strategy for enhancing adherence to antipsychotic medication in schizophrenia. *Psychiatry Research*, 200, 89–95. <https://doi.org/10.1016/j.psychres.2012.07.034>
- Moore, T. A., Buchanan, R. W., Buckley, P. F., Chiles, J. A., Conley, R. R., Crismon, M. L., Essock, S. M., Finnerty, M., Marder, S. R., Miller, D. D., McEvoy, J. P., Robinson, D. G., Schooler, N. R., Shon, S. P., Stroup, T. S., & Miller, A. L. (2007). The Texas Medication Algorithm Project antipsychotic algorithm for schizophrenia: 2006 update. *The Journal of Clinical Psychiatry*, 68(11), 1751–1762. <https://doi.org/10.4088/jcp.v68n1115>
- Moritz, S., Favrod, J., Andreou, C., Morrison, A. P., Bohn, F., Veckenstedt, R., Tonn, P., & Karow, A. (2013). Beyond the usual suspects: positive attitudes towards positive symptoms is associated with medication noncompliance in psychosis. *Schizophrenia Bulletin*, 39(4), 917–922. <https://doi.org/10.1093/schbul/sbs005>
- Moritz, S., Hünsche, A., & Lincoln, T. M. (2014). Nonadherence to antipsychotics: the role of positive attitudes towards positive symptoms. *European Neuropsychopharmacology*, 24, 1745–1752. <https://doi.org/10.1016/j.euroneuro.2014.09.008>
- Morony, S., McCaffery, K. J., Kirkendall, S., Jansen, J., & Webster, A. C. (2017). Health Literacy Demand of Printed Lifestyle Patient Information Materials Aimed at People With Chronic Kidney Disease: Are Materials Easy to Understand and Act On and Do They Use Meaningful Visual Aids? *Journal of Health Communication*, 00, 1–9. <https://doi.org/10.1080/10810730.2016.1258744>
- Mortimer, A. M. (2007). Symptom rating scales and outcome in schizophrenia. *The British Journal of Psychiatry. Supplement*, 50, s7-14. <https://doi.org/10.1192/bjp.191.50.s7>
- Muench, J., & Hamer, A. M. (2010). Adverse effects of antipsychotic medications. *In American Family Physician*.
- Nakane, Y., Jorm, A. F., Yoshioka, K., Christensen, H., Nakane, H., & Griffiths, K. M. (2005). Public beliefs about causes and risk factors for mental disorders : a comparison of Japan and Australia. *BMC Psychiatry*, 5(33), 1–9. <https://doi.org/10.1186/1471-244X-5-33>

National Institute for Health and Care Excellence. (2014). *Psychosis and schizophrenia in adults: prevention and management*. Nice.
<https://www.nice.org.uk/guidance/cg178>

Ng, R., El-Den, S., Stewart, V., Collins, J. C., Roennfeldt, H., McMillan, S. S., Wheeler, A. J., & O'Reilly, C. L. (2021). Pharmacist-led interventions for people living with severe and persistent mental illness: A systematic review. *Australian & New Zealand Journal of Psychiatry*, 00(0), 1–24.
<https://doi.org/10.1177/00048674211048410>

Ngoc, T. N., Weiss, B., & Trung, L. T. (2016). Effects of the family schizophrenia psychoeducation program for individuals with recent onset schizophrenia in Viet Nam. *Asian Journal of Psychiatry*, 22, 162–166.
<https://doi.org/10.1016/j.ajp.2016.06.001>

Nguyen, T., Caze, A. La, & Cottrell, N. (2013). What are validated self-report adherence scales really measuring?: a systematic review. *British Journal of Clinical Pharmacology*, 77(3), 427–445. <https://doi.org/10.1111/bcp.12194>

Nicolino, P. S., Vedana, K. G. G., Miasso, A. I., Cardoso, L., & Galera, S. A. F. (2011). Schizophrenia : adherence to treatment and beliefs about the disorder and the drug treatment. *Revisa Da Escpola de Enfermagen Da USP*, 45(3), 706–713.

Novak-Grubic, V., & Tavcar, R. (2002). Predictors of noncompliance in males with first-episode schizophrenia, schizophreniform and schizoaffective disorder. *European Psychiatry*, 17, 148–154. [https://doi.org/10.1016/S0924-9338\(02\)00645-4](https://doi.org/10.1016/S0924-9338(02)00645-4)

Novitayani, S., Chanchong, W., & Suttharangsee, W. (2018). Illness perception of schizophrenia among schizophrenic outpatients. *Aceh International Nursing Conference (AINC 2018)*, 242–249.
<https://doi.org/10.5220/0008397002420249>

Nyer, M., Kasckow, J., Fellows, Di., Lawrence, E. C., Golshan, S., Solorzano, E., & Zisook, S. (2010). The relationship of marital status and clinical characteristics in middle-aged and older patients with schizophrenia and depressive symptoms. *Annals of Clinical Psychiatry*, 22(3), 172–179.

O'Brien, B. C., Harris, I. B., Beckman, T. J., Reed, D. A., & Cook, D. A. (2014). Standards for reporting qualitative research: A synthesis of recommendations. *Academic Medicine*, 89(9), 1245–1251.

- O'Reilly, C. L., Bell, J. S., Kelly, P. J., & Chen, T. F. (2011). Impact of mental health first aid training on pharmacy students' knowledge, attitudes and self-reported behaviour: a controlled trial. *Australian and New Zealand Journal of Psychiatry*, *45*, 549–557. <https://doi.org/10.3109/00048674.2011.585454>
- Odinka, P. C., Muomah, R. C., Ndukuba, C. A., Oche, M., Osika, M. U., Bakare, M. O., Agomoh, A. O., & Uwakwe, R. (2015). The sociocultural conceptualisations of schizophrenia and patterns of help seeking in south-east Nigeria. *Mental Health, Religion & Culture*, 1–14. <https://doi.org/10.1080/13674676.2014.1000842>
- Ogorchukwu, J. M., Sekaran, V. C., Nair, S., & Ashok, L. (2016). Mental Health Literacy Among Late Adolescents in South India : What They Know and What Attitudes Drive Them. *Indian Pschiatric Society*, *38*, 234–241. <https://doi.org/10.4103/0253-7176.183092>
- Oh, S., Lee, T. Y., Kim, M., Kim, S. H., Lee, S., Cho, S., Kim, J. H., & Kwon, J. S. (2020). Effectiveness of antipsychotic drugs in schizophrenia: a 10-year retrospective study in a Korean tertiary hospital. *Npj Schizophrenia*, *6*(32), 1–7. <https://doi.org/10.1038/s41537-020-00122-3>
- Opler, M. G. ., Yavorsky, C., & Daniel, D. G. (2017). Positive and Negative Syndrome Scale (PANSS) Training: Challenges, Solutions, and Future Directions. *Innovations in Clinical Neuroscience*, *14*(11–12), 77–81.
- Oum, V., Kobashi, Y., Tsubokura, M., Hori, A., Hayashi, Y., & Chhim, S. (2020). Factors Affecting the Help-Seeking Behaviours of Patients with Schizophrenia in Rural Cambodia. *Case Reports in Psychiatry*, *2020*, 1–3.
- Pajaree, M., & Chuenjid, K. (2017). Medication Non-Adherence Identified at Home: A Systematic Review and Meta-analysis. *Quality in Primary Care*, *25*(2), 73–80. <http://www.epistemonikos.org/documents/0990d3e372dabbfc8f0f08b7564dd5408ea10845>
- Park, H. Y., Seo, S. A., Yoo, H., & Lee, K. (2018). Medication adherence and beliefs about medication in elderly patients living alone with chronic diseases. *Patient Preference and Adherence*, *12*, 175–181. <https://doi.org/10.2147/PPA.S151263>
- Patel, K. R., Cherian, J., Gohil, K., & Atkinson, D. (2014a). Schizophrenia:

- Patel, K. R., Cherian, J., Gohil, K., & Atkinson, D. (2014b). Schizophrenia: overview and treatment options. *P & T Pharmacy and Therapeutics*, 39(9), 638–645. <https://pubmed.ncbi.nlm.nih.gov/25210417>
- Paterson, D. L., Swindells, S., Mohr, J., Brester, M., & Vergis, E. N. (2000). Adherence to Protease Inhibitor Therapy and Outcomes in Patients with HIV Infection. *Annals of Internal Medicine*, 133, 21–30.
- PCNE. (2013). *Position Paper on the definition of Pharmaceutical Care 2013*.
- Peluso, M. J., Lewis, S. W., Barnes, T. R. E., & Jones, P. B. (2012). Extrapiramidal motor side-effects of first-and second-generation antipsychotic drugs. *British Journal of Psychiatry*, 200, 387–392. <https://doi.org/10.1192/bjp.bp.111.101485>
- Pérez-Surio, A. F. (2017). Second-Generation Antipsychotics Clinical Pharmacy Plan Developed from Hospital Pharmacy to Primary Health Care. *Pharmacy & Pharmacology International Journal*, 5(4), 127–129. <https://doi.org/10.15406/ppij.2017.05.00126>
- Petrie, K. J., Jago, L. A., & Devcich, D. A. (2007). The role of illness perceptions in patients with medical conditions. *Curr Opin Psychiatry*, 20, 163–167.
- Petrie, K. J., & Weinman, J. (2012). Patients' perceptions of their illness: The dynamo of volition in health care. *Current Directions in Psychological Science*, 21(1), 60–65.
- Petrie, K. J., & Weinman, J. A. (2013). *Perceptions of Health and Illness*. Taylor & Francis. <https://books.google.co.id/books?id=875kAgAAQBAJ>
- Pfeiffer, P. N., Ganoczy, D., & Valenstein, M. (2008). Dosing Frequency and Adherence to Antipsychotic Medications. *Psychiatric Services*, 59(10), 1207–1210.
- Phan, S. V. (2016). Medication adherence in patients with schizophrenia. *The International Journal of Psychiatry in Medicine*, 51(2), 211–219. <https://doi.org/10.1177/0091217416636601>
- Phillips, M. R., Li, Y., Stroup, T. S., & Xin, L. (2000). Causes of schizophrenia reported by patients' family members in China. *The British Journal of Psychiatry*, 177(1), 20–25.
- Pote, H. L., & Orrell, M. W. (2002). Perceptions of Schizophrenia in Multi-Cultural Britain. *Ethnicity & Health*, 7(1), 7–20.

- Pushpa, Prasad, D., Hemrom, S., Jahan, M., Verma, A. N., & Singh, A. R. (2009). Efficacy of psycho-education with the patients of schizophrenia. *Eastern J. Psychiatry*, *12*, 37–40.
- Putri, N. A. R., Kurnianingsih, T., & Andayani, S. (2020). Daily Living Performance in Schizophrenic Patients in Correlation with Positive and Negative Symptoms. *Althea Medical Journal*, *7*(2), 72–78. <https://doi.org/10.15850/amj.1870>
- Raghavan, V., Mohan, G., Gopal, S., Ramamurthy, M., & Rangaswamy, T. (2019). Medication adherence in first-episode psychosis and its association with psychopathology. *Indian Journal of Psychiatry*, *61*(4), 342–346. https://doi.org/10.4103/psychiatry.IndianJPsychiatry_148_17
- Ramadan, A. A., Taha, A. T., Madbouly, N., & Albasosi, A. I. (2018). Effect of Motivational Interviewing- Based Intervention on Medication Attitude and Adherence in Patients with Mental Illness. *Journal of Nursing and Health Science*, *7*(5), 13–24. <https://doi.org/10.9790/1959-0705101324>
- Rasool, S., Zafar, M. Z., Ali, Z., & Erum, A. (2018). Schizophrenia: An Overview. *Clin.Pract*, *15*(5), 847–851. <https://doi.org/10.1001/jamapsychiatry.2019.3360>
- Raynsford, J., Dada, C., Stansfield, D., & Cullen, T. (2020). Impact of a specialist mental health pharmacy team on medicines optimisation in primary care for patients on a severe mental illness register: a pilot study. *European Journal of Hospital Pharmacy: Science and Practice*, *27*, 31–35. <https://doi.org/10.1136/ejhpharm-2018-001514>
- Razali, M. S., & Yahya, H. (1995). Compliance with treatment in schizophrenia: a drug intervention program in a developing country. *Acta Psychiatrica Scandinavica*, *91*, 331–335. <https://doi.org/10.1111/j.1600-0447.1995.tb09790.x>
- Remington, G., Foussias, G., Agid, O., Fervaha, G., Takeuchi, H., & Hahn, M. (2014). The neurobiology of relapse in schizophrenia. *Schizophrenia Research*, *152*(2–3), 381–390. <https://doi.org/10.1016/j.schres.2013.10.009>
- Richardson, T. E., O'Reilly, C. L., & Chen, T. F. (2013). A comprehensive review of the impact of clinical pharmacy services on patient outcomes in mental health. *Int J Clin Pharm*. <https://doi.org/10.1007/s11096-013-9900-y>

- Riordan, H. J., Antonini, P., & Murphy, M. F. (2011). Atypical antipsychotics and metabolic syndrome in patients with schizophrenia: risk factors, monitoring, and healthcare implications. *American Health & Drug Benefits*, 4(5), 292–302. <https://pubmed.ncbi.nlm.nih.gov/25126357>
- Robinson, D. G., Woerner, M. G., Alvir, J. M. J., Bilder, R. M., Hinrichsen, G. A., & Lieberman, J. A. (2002). Predictors of medication discontinuation by patients with first-episode schizophrenia and schizoaffective disorder. *Schizophrenia Research*, 57, 209–219. [https://doi.org/10.1016/s0920-9964\(01\)00312-7](https://doi.org/10.1016/s0920-9964(01)00312-7)
- Rognoni, C., Bertolani, A., & Jommi, C. (2021). Second-Generation Antipsychotic Drugs for Patients with Schizophrenia: Systematic Literature Review and Meta-analysis of Metabolic and Cardiovascular Side Effects. *Clinical Drug Investigation*, 1–17. <https://doi.org/10.1007/s40261-021-01000-1>
- Roquini, G. R., Avelar, N. R. N., Santos, T. R., Oliveira, M. R. A. de C., Neto, N. M. G., de Sousa, M. R. M. G. C., & Trevisan, D. D. (2021). Construction and validation of an educational booklet to promote adherence to oral antidiabetics. *Cogitare Enfermagem*, 26, 1–12. <https://doi.org/10.5380/CE.V26I0.80659>
- Rosenheck, R., Leslie, D., Keefe, R., McEvoy, J., Swartz, M., Perkins, D., Stroup, S., Hsiao, J. K., & Lieberman, J. (2006). Barriers to employment for people with schizophrenia. *American Journal of Psychiatry*, 163, 411–417. <https://doi.org/10.1176/appi.ajp.163.3.411>
- Rubio-valera, M., Chen, T. F., & O’ Reilly, C. L. (2014). New Roles for Pharmacists in Community Mental Health Care: A Narrative Review. *Int.J. Environ. Res. Public Health*, 11, 10967–10990. <https://doi.org/10.3390/ijerph111010967>
- Rubio-Valera, M., Serrano-Blanco, A., Magdalena-Belío, J., Fernández, A., García-Campayo, J., Pujol, M. M., & Hoyo, Y. L. Del. (2011). Effectiveness of pharmacist care in the improvement of adherence to antidepressants: A systematic review and meta-analysis. *Annals of Pharmacotherapy*, 45(1), 39–48. <https://doi.org/10.1345/aph.1P429>
- Ryan, R. M., & Deci, E. L. (2000). Self-Determination Theory and the Facilitation of Intrinsic Motivation, Social Development, and Well-Being. *American Psychological Association*, 55(1), 68–78.

Saba, N. U., & Muraraiah, S. (2022). Medication Adherence And Its Associated Factor: A Cross-Sectional Study Among Patients with Schizophrenia. *Pharmacology and Clinical Pharmacy Research*, 7(1), 31–39. <https://doi.org/10.15416/pcpr.v7i1.35121>

Sadock, B. J., Sadock Alcott, V., & Ruiz, P. (2015). Synopsis of psychiatry behavioral sciences/clinical psychiatry. In *Psychiatry*. <https://doi.org/10.1002/9781118753378.ch73>

Sadock, B. J., Sadock Alcott, V., & Ruiz, P. (2017). *Kaplan & Sadock's Comprehensive TextBook of Psychiatry Tenth Edition* (10th ed.). Wolters Kluwer.

Sawyer, A. T., Harris, S. L., & Koenig, H. G. (2019). Illness perception and high readmission health outcomes. *Health Psychology Open*, 1–11. <https://doi.org/10.1177/2055102919844504>

Schulz, M., Gray, R., Spiekermann, A., Abderhalden, C., Behrens, J., & Driessen, M. (2013). Adherence therapy following an acute episode of schizophrenia: a multi-centre randomised controlled trial. *Schizophrenia Research*, 146(1–3), 59–63. <https://doi.org/10.1016/j.schres.2013.01.028>

Semahegn, A., Torpey, K., Manu, A., Assefa, N., Tesfaye, G., & Ankomah, A. (2020). Psychotropic medication non-adherence and its associated factors among patients with major psychiatric disorders: A systematic review and meta-analysis. *Systematic Reviews*, 9(17), 1–18. <https://doi.org/10.1186/s13643-020-1274-3>

Sendt, K. V., Tracy, D. K., & Bhattacharyya, S. (2015). A systematic review of factors influencing adherence to antipsychotic medication in schizophrenia-spectrum disorders. *Psychiatry Research*, 225, 14–30. <https://doi.org/10.1016/j.psychres.2014.11.002>

Shakya, R., Shrestha, S., Gautam, R., Rai, L., Maharjan, S., Satyal, G. K., Bhuvan, K., & Rai, M. K. (2020). Perceived Illness and Treatment Adherence to Hypertension Among Patients Attending a Tertiary Hospital in Kathmandu, Nepal. *Patient Preference and Adherence*, 14, 1–14. <https://doi.org/10.2147/PPA.S270786>

Shepard-Smith, A., Vuksic, O., & Ernest, D. (2017). *Schizophrenia: An Information Guide*. CENTRE FOR ADDICTION AND MENTA. <https://books.google.co.id/books?id=eQq7tAEACAAJ>

- Shimada, T., Ohori, M., Inagaki, Y., Shimooka, Y., Sugimura, N., Ishihara, I., Yoshida, T., & Kobayashi, M. (2018). A multicenter, randomized controlled trial of individualized occupational therapy for patients with schizophrenia in Japan. *PloS One*, *13*(4), e0193869. <https://doi.org/10.1371/journal.pone.0193869>
- Smeerdijk, M., Keet, R., de Haan, L., Barrowclough, C., Linszen, D., & Schippers, G. (2014). Feasibility of teaching motivational interviewing to parents of young adults with recent-onset schizophrenia and co-occurring cannabis use. *Journal of Substance Abuse Treatment*, *46*(3), 340–345. <https://doi.org/10.1016/j.jsat.2013.09.006>
- Smith-East, M. (2020). *Geographic Access to Community Mental Healthcare and Adherence to Treatment Among Patients with Schizophrenia Spectrum Disorders*.
- Spaniel, F., Bakstein, E., Anyz, J., Hlinka, J., Sieger, T., Hrdlicka, J., Görnerová, N., & Höschl, C. (2016). Relapse in schizophrenia: Definitely not a bolt from the blue. *Neuroscience Letters*, 1–7. <https://doi.org/10.1016/j.neulet.2016.04.044>
- Stroup, T. S., & Gray, N. (2018). Management of common adverse effects of antipsychotic medications. *World Psychiatry*, *17*, 341–356. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6127750/>
- Stuhec, M., Bratović, N., & Mrhar, A. (2019). Impact of clinical pharmacist’s interventions on pharmacotherapy management in elderly patients on polypharmacy with mental health problems including quality of life: A prospective non-randomized study. *Scientific Reports*, *9*(16856), 1–8. <https://doi.org/10.1038/s41598-019-53057-w>
- Subramaniam, M., Abdin, E., Jeyagurunathan, A., Chang, S., Samari, E., Shafie, S., Wei, K. C., Verma, S., & Chong, S. A. (2018). Exploration of illness perception among patients with mental illness in a multi-ethnic Asian sample. *Psychiatry Research*, *267*, 516–527. <https://doi.org/10.1016/j.psychres.2018>
- Tak, Y., Jungsun, J., Yeon, L., & Joo, H. (2021). Fever as a Side Effect after Electroconvulsive Therapy. *Neuropsychobiology*, 1–9. <https://doi.org/10.1159/000511542>
- Tan, Y. M., Chong, C. P., & Cheah, Y. C. (2019). Impact of hospital pharmacist-led home medication review program for people with schizophrenia: A

prospective study from Malaysia. *Journal of Applied Pharmaceutical Science*, 9(07), 34–41. <https://doi.org/10.7324/JAPS.2019.90705>

Tauscher-wisniewski, S., & Zipursky, R. B. (2002). The role of maintenance pharmacotherapy in achieving recovery from a first episode of schizophrenia. *International Review of Psychiatry*, 14, 284–292. <https://doi.org/10.1080/0954026021000016923>

Tesli, M., Degerud, E., Plana-Ripoll, O., Gustavson, K., Torvik, F. A., Ystrom, E., Ask, H., Tesli, N., Høyve, A., Stoltenberg, C., Reichborn-Kjennerud, T., Nesvåg, R., & Næss, Ø. (2022). Educational attainment and mortality in schizophrenia. *Acta Psychiatrica Scandinavica*, 145, 481–493. <https://doi.org/10.1111/acps.13407>

Thara, R., & Kamath, S. (2015). Women and schizophrenia. *Indian Journal of Psychiatry*, 57(Suppl 2), S246–S251. <https://doi.org/10.4103/0019-5545.161487>

The Institute for Health Metrics and Evaluation. (2019). Schizophrenia-Level 3 cause. In *The Lancet* (Vol. 393).

Tiwari, R. R., Pandey, B., & Chaudhari, K. S. (2023). Image-Based Communication for Strengthening Patient Health Education in Rural and Underserved Settings. *Cureus*, 15(7), 1–5. <https://doi.org/10.7759/cureus.41279>

Torras, M. G., & Tomàs, E. P. (2018). Interventions to improve therapeutic adherence in subjects with schizophrenia. *Papeles Del Psicologo*, 39(1), 31–39. <https://doi.org/10.23923/pap.psicol2018.2850>

Tran Nhu Minh, H., Nguyen Van, T., & Nguyen Ngoc Quang, L. (2024). Medication adherence and related psychosocial and clinical factors among schizophrenic patients: a cross - sectional analytical study in National Psychiatric Hospital 2, Vietnam. *Hue Journal of Medicine and Pharmacy*, 14(2), 43–50. <https://doi.org/10.34071/jmp.2024.2.6>

Tranulis, C., Goff, D., Henderson, D. C., & Freudenreich, O. (2011). Becoming adherent to antipsychotics: A qualitative study of treatment-experienced schizophrenia patients. *Psychiatric Services*, 62(8), 888–892. https://doi.org/10.1176/ps.62.8.pss6208_0888

Uppinkudru, C., Gopalakrishnan, R., Noel, J., & Kuruvilla, A. (2023). Prevalence, correlates and explanatory models of cognitive deficits in patients with

schizophrenia - A cross sectional study. *Indian Journal of Psychiatry*, 65, 1025–1034.

https://doi.org/10.4103/indianjpsychiatry.indianjpsychiatry_102_23

Valenstein, M., Kavanagh, J., Lee, T., Reilly, P., Dalack, G. W., Grabowski, J., Smelson, D., Ronis, D. L., Ganoczy, D., Woltmann, E., Metreger, T., Wolschon, P., Jensen, A., Poddig, B., & Blow, F. C. (2011). Using a pharmacy-based intervention to improve antipsychotic adherence among patients with serious mental illness. *Schizophrenia Bulletin*, 37(4), 727–736.

<https://doi.org/10.1093/schbul/sbp121>

Vallet, T., Michelon, H., Orlu, M., Jani, Y., Leglise, P., Laribe-Caget, S., Piccoli, M., Fur, A. Le, Liu, F., Ruiz, F., & Boudy, V. (2020). Acceptability in the older population: The importance of an appropriate tablet size. *Pharmaceutics*, 12, 1–11. <https://doi.org/10.3390/pharmaceutics12080746>

Vargas, T., Conley, R. E., & Mittal, V. A. (2020). Chronic stress, structural exposures and neurobiological mechanisms: A stimulation, discrepancy and deprivation model of psychosis. *International Review of Neurobiology*, 152, 41–69. <https://doi.org/10.1016/bs.irn.2019.11.004>

Varkey, B. (2021). Principles of Clinical Ethics and Their Application to Practice. *Medical Principles and Practice*, 30, 17–28. <https://doi.org/10.1159/000509119>

Vega, D., Acosta, F. J., & Saavedra, P. (2021). Nonadherence after hospital discharge in patients with schizophrenia or schizoaffective disorder: A six-month naturalistic follow-up study. *Comprehensive Psychiatry*, 108, 1–8. <https://doi.org/10.1016/j.comppsy.2021.152240>

Velligan, D. I., Weiden, P. J., Sajatovic, M., Scott, J., Carpenter, D., Ross, R., & Docherty, J. P. (2009). The expert consensus guideline series: Adherence problems in patients with serious and persistent mental illness. *The Journal of Clinical Psychiatry*, 70(SUPPL. 4), 1–46. <https://doi.org/10.4088/JCP.7090su1cj>

Velligan, D., Mintz, J., Maples, N., Xueying, L., Gajewski, S., Carr, H., & Sierra, C. (2013). A randomized trial comparing in person and electronic interventions for improving adherence to oral medications in schizophrenia. *Schizophrenia Bulletin*, 39(5), 999–1007. <https://doi.org/10.1093/schbul/sbs116>

- Ventriglio, A., Ricci, F., Magnifico, G., Chumakov, E., Torales, J., Watson, C., Castaldelli-Maia, J. M., Petito, A., & Bellomo, A. (2020). Psychosocial interventions in schizophrenia: Focus on guidelines. *International Journal of Social Psychiatry, 00(0)*, 1–13. <https://doi.org/10.1177/0020764020934827>
- Verma, P. K., Walia, T. S., Chaudhury, S., & Srivastava, S. (2019). Family psychoeducation with caregivers of schizophrenia patients: Impact on perceived quality of life. *Industry Psychiatry Journal, 28*, 19–23. <https://doi.org/10.4103/ipj.ipj>
- Walsh, C. A., Cahir, C., Tecklenborg, S., Byrne, C., Culbertson, M. A., & Bennett, K. E. (2019). The association between medication non-adherence and adverse health outcomes in ageing populations: A systematic review and meta-analysis. *British Journal of Clinical Pharmacology, 85*, 2464–2478. <https://doi.org/10.1111/bcp.14075>
- Wardani, L. K., & Priyanto. (2022). The Influence of Family Psychoeducation on the Ability of Families in Careing for Schizophrenia Patients in Sumberpucung Village Community Health Center, Sambigede Village Kecamatan Sumberpucung, District. Poor. *Journal of Global Research in Public Health, 7(2)*, 141–148. <https://doi.org/10.30994/jgrph.v7i2.408>
- Weinberger, D. R., & Harrison, P. (2011). *Schizophrenia*. Wiley. <https://books.google.co.id/books?id=B3smwFtVRjYC>
- WHO. (2003). Adherence to Long -Term Therapies Evidence for action. In *Applied Mechanics and Materials*. <https://doi.org/10.4028/www.scientific.net/AMM.321-324.1779>
- WHO. (2022). *Schizophrenia*. [Www.Who.Int/News-Room/Fact-Sheets/Detail/Schizophrenia. https://www.who.int/news-room/fact-sheets/detail/schizophrenia](https://www.who.int/news-room/fact-sheets/detail/schizophrenia)
- Wiesjahn, M., Jung, E., Lamster, F., Rief, W., & Lincoln, T. M. (2014). Explaining attitudes and adherence to antipsychotic medication: the development of a process model. *Schizophrenia Research and Treatment, 2014*, 1–11. <https://doi.org/10.1155/2014/341545>
- Williams, A. B., Amico, K. R., Bova, C., & Womack, J. A. (2013). A proposal for quality standards for measuring medication adherence in research. *AIDS Behavior, 17(1)*, 284–297. <https://doi.org/10.1007/s10461-012-0172-7>
- Winklbaur, B., Ebner, N., Sachs, G., Thau, K., & Fischer, G. (2006).

Pharmacological aspects. Substance abuse in patients with schizophrenia.

Dialogues in Clinical Neuroscience, 8(1), 37–43.

<https://doi.org/10.31887/dcms.2006.8.1/bwinklbaur>

Wong, D. T. L., Tong, S. F., Daud, T. I. M., Aziz, S. A., & Midin, M. (2020).

Factors Influencing Professional Help-Seeking Behavior During First Episode Psychosis in Schizophrenia : An Exploratory Study on Caregivers' Perspective. *Frontiers in Psychiatry*, 10, 1–12.

<https://doi.org/10.3389/fpsy.2019.00962>

Wong, Y. X., Khan, T. M., Wong, Z. J., Ab Rahman, A. F., & Jacob, S. A. (2020).

Perception of Community Pharmacists in Malaysia About Mental Healthcare and Barriers to Providing Pharmaceutical Care Services to Patients with Mental Disorders. *Community Mental Health Journal*, 56, 88–98.

<https://doi.org/10.1007/s10597-019-00496-4>

World Health Organization. (2003). Mental health policy and service guidance

package. *Organization of Services for Mental Health*. Geneva.

<https://iris.who.int/handle/10665/333104>

Xu, D., Xiao, S., He, H., Caine, E. D., Gloyd, S., Simoni, J., Hughes, J. P., Nie, J.,

Lin, M., He, W., Yuan, Y., & Gong, W. (2019). Lay health supporters aided by mobile text messaging to improve adherence, symptoms, and functioning among people with schizophrenia in a resource-poor community in rural China (LEAN): A randomized controlled trial. *PLoS Medicine*, 16(4), 1–21.

<https://doi.org/10.1371/journal.pmed.1002785>

Yıldız, M., Kaytaç Yılmaz, B. N., İncedere, A., Abut, F. B., Aydın, A. Ö.,

Sarandöl, A., Örum, T. G. Y., Kurt, A., & Erşan, E. E. (2019). Rates and correlates of employment in patients with schizophrenia: A multicenter study in Turkey. *International Journal of Social Psychiatry*, 00(0), 1–10.

<https://doi.org/10.1177/0020764019839082>

Z, N. U. S., Muraraiah, S., & H, C. (2019). Medication adherence in schizophrenia:

Understanding patient's views. *National Journal of Physiology, Pharmacy and Pharmacology*, 9(5), 373–378.

<https://doi.org/10.5455/njppp.2019.9.0206002032019>

Zafar, S. N., Syed, R., Tehseen, S., Gowani, S. A., Waqar, S., Zubair, A., Yousaf,

W., Zubairi, A. J., & Naqvi, H. (2008). Perceptions about the cause of schizophrenia and the subsequent help seeking behavior in a Pakistani



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population- results of cross-sectional survey. *BMC Psychiatry*, 8(56), 1–8.

<https://doi.org/10.1186/1471-244X-8-56>

Zanin, G. B., & Morejón, A. J. V. (2013). Causal Attribution in Psychosis : A Study on Patients and Relatives. *Annuary of Clinical and Health Psychology*, 09, 7–8.