

Daftar Pustaka

- Abdi, A. M., Meštrović, A., Demirdamar, R., & Basgut, B. (2019). Preparing competent graduates for delivering pharmaceutical care: An experience from Northern Cyprus. *BMC Medical Education*, 19(1), 1–8. <https://doi.org/10.1186/S12909-019-1875-5/TABLES/5>
- Abeyaratne, C., Bell, J. S., Dean, L., White, P., & Maher-Sturgess, S. (2020). Engaging older people as university-based instructors: A model to improve the empathy and attitudes of pharmacists in training. *Currents in Pharmacy Teaching and Learning*, 12(1), 58–64.
- Adams, N. E. (2015). OF INTEREST Bloom's taxonomy of cognitive learning objectives. *Journal of Medical Library Association*, 103(3). <https://doi.org/10.3163/1536-5050.103.3.010>
- Adekunle, O. A., Olson, A. W., Schommer, J. C., & Brown, L. M. (2023). Influence of patient-pharmacist relationship on willingness to accept pharmacist-provided services. *Journal of the American Pharmacists Association*, 63(3), 760-768.e1. <https://doi.org/10.1016/J.JAPH.2022.12.016>
- Al-Jundi, A., & Sakka, S. (2017). Critical Appraisal of Clinical Research. *Journal of Clinical and Diagnostic Research : JCDR*, 11(5), JE01. <https://doi.org/10.7860/JCDR/2017/26047.9942>
- Almanasreh, E., Moles, R., & Chen, T. F. (2019). Evaluation of methods used for estimating content validity. *Research in Social & Administrative Pharmacy : RSAP*, 15(2), 214–221. <https://doi.org/10.1016/J.SAPHARM.2018.03.066>
- Arrogante, O., Velarde-García, J. F., Blázquez-González, P., & Nieves Moro-Tejedor, M. (2022). The effects of high-fidelity simulation training on empathy and attitudes toward older people among undergraduate nursing students: A quasi-experimental study. *Nurse Education in Practice*, 64, 103441. <https://doi.org/10.1016/J.NEPR.2022.103441>
- Bajis, D., Chaar, B., & Moles, R. (2020). Rethinking Competence: A Nexus of Educational Models in the Context of Lifelong Learning. *Pharmacy 2020*, Vol. 8, Page 81, 8(2), 81. <https://doi.org/10.3390/PHARMACY8020081>
- Bas-Sarmiento, P., Fernandez-Gutierrez, M., & ... (2020). Empathy training in health sciences: A systematic review. *Nurse Education in ...*. <https://www.sciencedirect.com/science/article/pii/S1471595318300921>
- Batt-Rawden, S. A., Chisolm, M., Anton, B., & Flickinger, T. (2013). Teaching empathy to medical students: An updated, systematic review. *Academic Medicine*, 88(8), 1171–1177. <https://doi.org/10.1097/ACM.0b013e318299f3e3>
- Boarman EA, Nisly SA, & Martin D. (2017). Use of a health screening and education event to change student attitudes toward the elderly. *Currents in Pharmacy Teaching & Learning*, 9(1), 101–107. <https://doi.org/10.1016/J.CPTL.2016.08.041>
- Booth, L., Kada, S., Satinovic, M., Phillips, P., & Miller, P. K. (2017). Student radiographers' attitudes towards the older patient - A longitudinal study. *Radiography (London, England : 1995)*, 23(3), 229–234. <https://doi.org/10.1016/J.RADI.2017.03.014>
- Bozzola, E., Spina, G., Agostiniani, R., Barni, S., Russo, R., Scarpato, E., Di Mauro, A., Di Stefano, A. V., Caruso, C., Corsello, G., & Staiano, A. (2022). The Use of Social Media in

- Children and Adolescents: Scoping Review on the Potential Risks. *International Journal of Environmental Research and Public Health*, 19(16).
<https://doi.org/10.3390/IJERPH19169960>
- BPS. (2020). *Statistik Penduduk Lanjut Usia 2020*.
<https://www.bps.go.id/publication/2020/12/21/0fc023221965624a644c1111/statistik-penduduk-lanjut-usia-2020.html>
- Bratek, A., Bulska, W., Bonk, M., Seweryn, M., & Krysta, K. (2015). EMPATHY AMONG PHYSICIANS, MEDICAL STUDENTS AND CANDIDATES. *Psychiatria Danubina*, 27, 48–52.
- Burger, S., H Hay, Comabella CC, Poots A, & Perris A. (2018). Exploring education and training in relation to older people's health and social care. *Pickier Institute Europe, Handbook*. https://www.pickier.org/wp-content/uploads/2018/08/P3159_Dunhill-Medical-Trust_Older-peoples-care-staff-training_FULL-Report_SAB-HH-AJP-JK_120718_FINAL.pdf
- Cavinato, A. G., Hunter, R. A., Ott, L. S., & Robinson, J. K. (2021). Promoting student interaction, engagement, and success in an online environment. *Analytical and Bioanalytical Chemistry*, 413(6), 1513–1520. <https://doi.org/10.1007/S00216-021-03178-X/FIGURES/3>
- Chandio, M. T., Pandhiani, S. M., & Iqbal, S. (2016). Bloom's Taxonomy: Improving Assessment and Teaching-Learning Process. *Journal of Education and Educational Development*, 3(2), 203. <https://doi.org/10.22555/JOEED.V3I2.1034>
- Chen, B. Y., Kern, D. E., Kearns, R. M., Thomas, P. A., Hughes, M. T., & Tackett, S. (2019). From modules to MOOCs: Application of the six-step approach to online curriculum development for medical education. *Academic Medicine*, 94(5), 678–685.
<https://doi.org/10.1097/ACM.0000000000002580>
- Chen, Kiersma, M. E., Yehle, K. S., & Plake, K. S. (2015). Impact of an aging simulation game on pharmacy students' empathy for older adults. *American Journal of Pharmaceutical Education*, 79(5).
- Chua, J. Y. X., Ang, E., Lau, S. T. L., & Shorey, S. (2021). Effectiveness of simulation-based interventions at improving empathy among healthcare students: A systematic review and meta-analysis. *Nurse Education Today*.
<https://www.sciencedirect.com/science/article/pii/S0260691721002574>
- Cipolle RJ, Strand LM, & Morley PC. (2012). *Chapter 2. Pharmaceutical Care as the Professional Practice for Patient-Centered Medication Management Services / Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services, 3e | AccessPharmacy | McGraw Hill Medical*.
<https://accesspharmacy.mhmedical.com/content.aspx?bookid=491§ionid=39674902>
- Costa, F. A., van Mil, F., & Risco, A. A. (2019). The Pharmacist Guide to Implementing Pharmaceutical Care. In *The Pharmacist Guide to Implementing Pharmaceutical Care*. Springer International Publishing. <https://doi.org/10.1007/978-3-319-92576-9>
- Croft, H., Gilligan, C., Rasiah, R., Levett-Jones, T., & Schneider, J. (2019). *pharmacy Current Trends and Opportunities for Competency Assessment in Pharmacy Education-A Literature Review*. <https://doi.org/10.3390/pharmacy7020067>

- Cruess, S. R., Cruess, R. L., & Steinert, Y. (2008). Teaching Rounds: Role modelling—making the most of a powerful teaching strategy. *BMJ : British Medical Journal*, 336(7646), 718. <https://doi.org/10.1136/BMJ.39503.757847.BE>
- Dagli, R. J., & Sharma, A. (2014). Polypharmacy: A Global Risk Factor for Elderly People. *Journal of International Oral Health : JIOH*, 6(6), i. /pmc/articles/PMC4295469/
- Das, S., Das Mandal, S. K., & Basu, A. (2021). Classification of Action Verbs of Bloom's Taxonomy Cognitive Domain: An Empirical Study: <https://doi.org/10.1177/00220574211002199>. <https://doi.org/10.1177/00220574211002199>
- Davis, B., & Summers, M. (2014). Applying Dale's Cone of Experience to increase learning and retention: A study of student learning in a foundational leadership course. *Engineering Leaders Conference*. <https://doi.org/10.5339/qproc.2015.elc2014.6>
- Demirtas, A., & Basak, T. (2021). Daily life activities simulation: Improving nursing students' attitudes toward older patients. *Japan Journal of Nursing Science*, 18(1), e12375. <https://doi.org/10.1111/JJNS.12375>
- Derksen, F., Bensing, J., & Lagro-Janssen, A. (2013). Effectiveness of empathy in general practice: a systematic review. *The British Journal of General Practice*, 63(606), e76. <https://doi.org/10.3399/BJGP13X660814>
- Douglass, C., Henry, B. W., & Kostiwa, I. M. (2008). An aging game simulation activity for allied health students. *Educational Gerontology*, 34(2), 124–135. <https://doi.org/10.1080/03601270701700417>
- Duque, G., Demontiero, O., Whereat, S., Gunawardene, P., Leung, O., Webster, P., Sardinha, L., Boersma, D., & Sharma, A. (2013). Evaluation of a blended learning model in geriatric medicine: A successful learning experience for medical students. *Australasian Journal on Ageing*, 32(2), 103–109. <https://doi.org/10.1111/J.1741-6612.2012.00620.X>
- Ekong, G., Kavookjian, J., & Hutchison, A. (2017). Predisposition for Empathy, Intercultural Sensitivity, and Intentions for Using Motivational Interviewing in First Year Pharmacy Students. *American Journal of Pharmaceutical Education*, 81(8), 65–72. <https://doi.org/10.5688/AJPE5989>
- Ellis, G., Whitehead, M., Robinson, D., O'Neill, D., & Langhorne, P. (2011). Comprehensive geriatric assessment for older adults admitted to hospital: meta-analysis of randomised controlled trials. *BMJ*. <https://doi.org/10.1136/bmj.d6553>
- Everson, N., Levett-Jones, T., & Pitt, V. (2018). The impact of educational interventions on the empathic concern of health professional students: A literature review. *Nurse Education in Practice*, 31, 104–111. <https://doi.org/10.1016/J.NEPR.2018.05.015>
- Fashami, F. M., Nili, M., Mottaghi, M., & Vasheghani Farahani, A. (2022). Measuring Empathy in Iranian Pharmacy Students: Using The Jefferson Scale of Empathy-Health Profession Students. *American Journal of Pharmaceutical Education*, 8687. <https://doi.org/10.5688/AJPE8687>
- Finlayson, M. L., & Peterson, E. W. (2010). Falls, aging, and disability. *Physical Medicine and Rehabilitation Clinics of North America*, 21(2), 357–373. <https://doi.org/10.1016/J.PMR.2009.12.003>
- Fjortoft, N., van Winkle, L. J., & Hojat, M. (2011). Measuring Empathy in Pharmacy Students. *American Journal of Pharmaceutical Education*, 75(6). <https://doi.org/10.5688/AJPE756109>

- Fong, Z., Lee, S., Yap, K., & and, H. C. (2021). Impact of an aging simulation workshop with different debrief methods on the development of empathy in pharmacy undergraduates. *Current in Pharmacy Teaching and Learning*.
<https://www.sciencedirect.com/science/article/pii/S187712972100040X>
- Gholamzadeh, S., Khastavaneh, M., Khademian, Z., & Ghadakpour, S. (2018). The effects of empathy skills training on nursing students' empathy and attitudes toward elderly people. *BMC Medical Education*, 18(1). <https://doi.org/10.1186/S12909-018-1297-9>
- Golbeck, J., & Klavans, J. L. (2015). Introduction to Social Media Investigation: A Hands-on Approach. *Introduction to Social Media Investigation: A Hands-on Approach*, 1–288.
<https://doi.org/10.1016/C2014-0-01104-5>
- Gonzales, A. L., & Hancock, J. T. (2011). Mirror, mirror on my Facebook wall: effects of exposure to Facebook on self-esteem. *Cyberpsychology, Behavior and Social Networking*, 14(1–2), 79–83. <https://doi.org/10.1089/CYBER.2009.0411>
- Griffiths, A. W., Cheong, W. L., Saw, P. S., & Parveen, S. (2020). Perceptions and attitudes towards dementia among university students in Malaysia. *BMC Medical Education*, 20(1).
<https://doi.org/10.1186/S12909-020-1972-5>
- Halaweh, H., Dahlin-Ivanoff, S., Svantesson, U., & Willén, C. (2018). Perspectives of Older Adults on Aging Well: A Focus Group Study. *Journal of Aging Research*, 2018.
<https://doi.org/10.1155/2018/9858252>
- Hall, M., Hanna, L.-A., Hanna, A., & McDevvit, C. (2015). *View of Empathy in UK pharmacy students: assessing differences by gender, level in the degree programme, part-time employment and medical status*. FIP Pharmacy Education.
<https://pharmacyeducation.fip.org/pharmacyeducation/article/view/393/342>
- Hamed, O. A. E., Alahwal, A. M. S., Basri, A. H., Bukhari, B. M., Hamed, O. A., Shaheen, A. M., & Basri, A. (2015). Personal, Cultural and Academic Factors Affecting Empathy Score in Third Year Medical Students. *International Journal of Education and Research*, 3(3).
www.ijern.com
- Hasan, S., Al-Sharqawi, N., Dashti, F., Abdulaziz, M., Abdullah, A., Shukkur, M., Bouhaimed, M., & Thalib, L. (2013). Level of Empathy among Medical Students in Kuwait University, Kuwait. *Medical Principles and Practice*, 22(4), 385–389.
<https://doi.org/10.1159/000348300>
- Hobeika, E., Hallit, S., Sacre, H., Obeid, S., Hajj, A., & Salameh, P. (2020). Factors associated with empathy among community pharmacists in Lebanon. *Journal of Pharmaceutical Policy and Practice*. <https://doi.org/10.1186/s40545-020-00237-z>
- Hojat, M., DeSantis, J., Shannon, S. C., Mortensen, L. H., Speicher, M. R., Bragan, L., LaNoue, M., & Calabrese, L. H. (2018a). The Jefferson Scale of Empathy: a nationwide study of measurement properties, underlying components, latent variable structure, and national norms in medical students. *Advances in Health Sciences Education*, 23(5), 899–920.
<https://doi.org/10.1007/S10459-018-9839-9/TABLES/5>
- Hojat, M., DeSantis, J., Shannon, S. C., Mortensen, L. H., Speicher, M. R., Bragan, L., LaNoue, M., & Calabrese, L. H. (2018b). The Jefferson Scale of Empathy: a nationwide study of measurement properties, underlying components, latent variable structure, and national norms in medical students. *Advances in Health Sciences Education : Theory and Practice*, 23(5), 899–920. <https://doi.org/10.1007/S10459-018-9839-9>

- Hojat, M., Louis, D. Z., Markham, F. W., Wender, R., Rabinowitz, C., & Gonnella, J. S. (2011). Physicians' empathy and clinical outcomes for diabetic patients. *Academic Medicine*, 86(3), 359–364. <https://doi.org/10.1097/ACM.0B013E3182086FE1>
- Ilardo, M. L., & Speciale, A. (2020). The Community Pharmacist: Perceived Barriers and Patient-Centered Care Communication. *International Journal of Environmental Research and Public Health*, 17(2). <https://doi.org/10.3390/IJERPH17020536>
- Jaul, E., & Barron, J. (2017). Age-Related Diseases and Clinical and Public Health Implications for the 85 Years Old and Over Population. *Frontiers in Public Health*, 5. <https://doi.org/10.3389/FPUBH.2017.00335>
- Jeon, S., & Cho, E. (2015). Assessment of Korean Pharmacy Students' Empathy Using the Jefferson Scale of Empathy. *American Journal of Pharmaceutical Education*, 79(5).
- Jubraj, B., Barnett, N. L., Grimes, L., Varia, S., Chater, A., & Auyeung, V. (2016). Why we should understand the patient experience: clinical empathy and medicines optimisation. *International Journal of Pharmacy Practice*, 24(5), 367–370. <https://doi.org/10.1111/IJPP.12268>
- Kaczmarek, U. (2011). *Assessment methods of the effects of dental students' education*. Journal of Stomatology. https://www.researchgate.net/publication/287831649_Assessment_methods_of_the_effects_of_dental_students%27_education
- Karimi, F. Z., & Abdollahi, M. (2019). Factors Affecting Empathy with Patient among Healthcare Provider Students: A Structural Equation Modeling Study. *Indian Journal of Critical Care Medicine : Peer-Reviewed, Official Publication of Indian Society of Critical Care Medicine*, 23(9), 396. <https://doi.org/10.5005/IP-JOURNALS-10071-23232>
- Kemdikbud RI. (2020). DI ERA INDUSTRI 4.0 UNTUK MENDUKUNG MERDEKA BELAJAR-KAMPUS MERDEKA. *Direktorat Jenderal Pendidikan Tinggi, Kementrian Pendidikan Dan Kebudayaan*.
- Kemenkes RI. (2014a). Peraturan Menteri Kesehatan RI No 79 tahun 2014 Tentang Penyelenggaraan Pelayanan Geriatri di Rumah Sakit. In *Kementrian Kesehatan RI*. <http://bprs.kemkes.go.id/v1/uploads/pdffiles/peraturan/47%20PMK%20No.%2079%20ttg%20Penyelenggaraan%20Pelayanan%20Geriatri%20di%20RS.pdf>
- Kemenkes RI. (2014b). *Permenkes RI No. 79 Tahun 2014 tentang Penyelenggaraan Pelayanan Kesehatan Geriatri di Rumah Sakit*.
- Kennedy, B. M., Rehman, M., Johnson, W. D., Magee, M. B., Leonard, R., & Katzmarzyk, P. T. (2017). Healthcare Providers versus Patients' Understanding of Health Beliefs and Values HHS Public Access. *J*, 4(3), 29–37.
- Kerr, J. L., Stahnke, A. M., & Behnen, E. M. (2015). Assessing Empathy and Self-Efficacy Levels of Pharmacy Students in an Elective Diabetes Management Course. *American Journal of Pharmaceutical Education*, 79(3). <https://doi.org/10.5688/AJPE79342>
- Klein, K. J. K., & Hodges, S. D. (2001). Gender Differences, Motivation, and Empathic Accuracy: When It Pays to Understand. *University of Oregon*.
- Kobayashi, M., Katayama, M., Hayashi, T., Hashiyama, T., Iyanagi, T., Une, S., & Honda, M. (2023). Effect of multimodal comprehensive communication skills training with video analysis by artificial intelligence for physicians on acute geriatric care: a mixed-methods study. *BMJ Open*, 13(3), e065477. <https://doi.org/10.1136/BMJOPEN-2022-065477>

- Krieger, T., Specht, R., Errens, B., Hagen, U., & Dorant, E. (2020). Caring for Family Caregivers of Geriatric Patients: Results of a Participatory Health Research Project on Actual State and Needs of Hospital-Based Care Professionals. *International Journal of Environmental Research and Public Health*, 17(16), 1–17. <https://doi.org/10.3390/IJERPH17165901>
- Lau, Y., & Wang, W. (2014). Development and evaluation of a learner-centered educational summer camp program on soft skills for baccalaureate nursing students. *Nurse Educator*, 39(5), 246–251. <https://doi.org/10.1097/NNE.0000000000000065>
- Lee, K. C., Yu, C. C., Hsieh, P. L., Li, C. ching, & Chao, Y. F. C. (2018). Situated teaching improves empathy learning of the students in a BSN program: A quasi-experimental study. *Nurse Education Today*, 64, 138–143. <https://doi.org/10.1016/J.NEDT.2018.02.013>
- Lee, M., & Ihm, J. (2021). Empathy and attitude toward communication skill learning as a predictor of patient-centered attitude: a cross-sectional study of dental students in Korea. *BMC Medical Education*, 21(1), 1–11. <https://doi.org/10.1186/S12909-021-02674-Z/TABLES/5>
- Lee, S. W. H., Chong, C. S., & Chong, D. W. K. (2016). Identifying and addressing drug-related problems in nursing homes: an unmet need in Malaysia? *International Journal of Clinical Practice*, 70(6), 512–512. <https://doi.org/10.1111/IJCP.12826>
- Lee, S. W. H., & Teh, P. L. (2020a). “Suiting Up” to Enhance Empathy Toward Aging: A Randomized Controlled Study. *Frontiers in Public Health*, 8. <https://doi.org/10.3389/FPUBH.2020.00376>
- Lee, S. W. H., & Teh, P.-L. (2020b). “Suiting Up” to Enhance Empathy Toward Aging: A Randomized Controlled Study. *Frontiers in Public Health*, 8, 376. <http://www.ncbi.nlm.nih.gov/pubmed/32984232>
- Leedahl, S., Brasher, M., LoBuono, D., Sustainability, B. W.-, & 2020, undefined. (2020). Reducing ageism: Changes in students’ attitudes after participation in an intergenerational reverse mentoring program. *Mdpi.Com*. <https://doi.org/10.3390/su12176870>
- Li, L., Wang, J., Hu, X. M., Hu, X. M., & Xu, C. (2015). Empathy In Chinese Pharmacy Undergraduates: Implication for Integrating Humanities Into Professional Pharmacy Education. *Indian Journal of Pharmaceutical Education and Research*, 49(1), 31–39. <https://doi.org/10.5530/ijper.49.1.5>
- Liew, N. Y., Chong, Y. Y., Yeow, S. H., Kua, K. P., Saw, P. S., & Lee, S. W. H. (2019). Prevalence of potentially inappropriate medications among geriatric residents in nursing care homes in Malaysia: a cross-sectional study. *International Journal of Clinical Pharmacy*, 41(4), 895–902. <https://doi.org/10.1007/S11096-019-00843-1>
- Liu, J. Y. W., Mak, P. Y., Chan, K., Cheung, D. S. K., Cheung, K., Fong, K. N. K., Kor, P. P. K., Lai, T. K. H., & Maximo, T. (2024). The Effects of Immersive Virtual Reality–Assisted Experiential Learning on Enhancing Empathy in Undergraduate Health Care Students Toward Older Adults With Cognitive Impairment: Multiple-Methods Study. *JMIR Medical Education*, 10(1). <https://doi.org/10.2196/48566>
- Lor, K. B., Truong, J. T., Ip, E. J., & Barnett, M. J. (2015). A Randomized Prospective Study on Outcomes of an Empathy Intervention among Second-year Student Pharmacists. *American Journal of Pharmaceutical Education*, 79(2). <https://doi.org/10.5688/AJPE79218>
- Lucchetti, A., ... G. L.-B. medical, & 2017, undefined. (n.d.). Experiencing aging or demystifying myths?—impact of different “geriatrics and gerontology” teaching strategies in

- first year medical students. *Bmcmededuc.Biomedcentral.Com*. Retrieved October 5, 2021, from <https://bmcmededuc.biomedcentral.com/articles/10.1186/s12909-017-0872-9>
- Lucchetti, A. L. G., Lucchetti, G., De Oliveira, I. N., Moreira-Almeida, A., & Da Silva Ezequiel, O. (2017). Experiencing aging or demystifying myths? - impact of different “geriatrics and gerontology” teaching strategies in first year medical students. *BMC Medical Education*, 17(1), 1–9. <https://doi.org/10.1186/S12909-017-0872-9>
- Magalhães, E., Costa, P., & Costa, M. (2012). Empathy of medical students and personality: Evidence from the Five-Factor Model. *Medical Teacher*, 34(10), 807–812. <https://doi.org/10.3109/0142159X.2012.702248>
- Maher, R. L., Hanlon, J., & Hajjar, E. R. (2014). Clinical consequences of polypharmacy in elderly. *Expert Opinion on Drug Safety*, 13(1), 57–65. <https://doi.org/10.1517/14740338.2013.827660>
- Mandegari Bamakan, Z., Nasiriani, K., Madadzadeh, F., & Keshmiri, F. (2021). Effect of an aged wearing suit on nursing student’s knowledge and attitude. *BMC Nursing*, 20(1), 1–8. <https://doi.org/10.1186/S12912-021-00668-2/TABLES/4>
- Masnoon, N., Shakib, S., Kalisch-Ellett, L., & Caughey, G. E. (2017). What is polypharmacy? A systematic review of definitions. *BMC Geriatrics*, 17(1), 1–10. <https://doi.org/10.1186/S12877-017-0621-2/TABLES/1>
- McRobbie, D., Webb, D. G., Bates, I., Wright, J., & Davies, J. G. (2001). Assessment of Clinical Competence: Designing a Competence Grid for Junior Pharmacists. *Pharmacy Education*, 1(2), 67–76. <https://doi.org/10.1080/15602210210332>
- Neumann, M., Edelhäuser, F., Tauschel, D., Fischer, M. R., Wirtz, M., Woopen, C., Haramati, A., & Scheffer, C. (2011). Empathy decline and its reasons: a systematic review of studies with medical students and residents. *Academic Medicine : Journal of the Association of American Medical Colleges*, 86(8), 996–1009. <https://doi.org/10.1097/ACM.0B013E318221E615>
- Numanee, I. Z., Zafar, N., Karim, A., & Ismail, S. A. M. M. (2020). Developing empathy among first-year university undergraduates through English language course: A phenomenological study. *Heliyon*, 6(6). <https://doi.org/10.1016/J.HELİYON.2020.E04021>
- Nunes, P., Williams, S., Sa, B., & Stevenson, K. (2011). A study of empathy decline in students from five health disciplines during their first year of training. *Int J Med Educ*, 2, 12–17. <https://doi.org/10.5116/IJME.4D47.DDB0>
- Ojha, A., Bista, D., & Kc, B. (2023). Patients’ Perceptions on Community Pharmacy Services of a Ward (10) of Kathmandu Metropolitan. *Patient Preference and Adherence*, 17, 1487. <https://doi.org/10.2147/PPA.S395774>
- Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Shamseer, L., Tetzlaff, J. M., Akl, E. A., Brennan, S. E., Chou, R., Glanville, J., Grimshaw, J. M., Hróbjartsson, A., Lalu, M. M., Li, T., Loder, E. W., Mayo-Wilson, E., McDonald, S., ... Moher, D. (2021). The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. *The BMJ*, 372. <https://doi.org/10.1136/BMJ.N71>
- Paro, H. B. M. S., Silveira, P. S. P., Perotta, B., Gannam, S., Enns, S. C., Giaxa, R. R. B., Bonito, R. F., Martins, M. A., & Tempiski, P. Z. (2014). Empathy among Medical Students: Is There a Relation with Quality of Life and Burnout? *PLOS ONE*, 9(4), e94133. <https://doi.org/10.1371/JOURNAL.PONE.0094133>

- Pereira, F., Bieri, M., del Rio Carral, M., Martins, M. M., & Verloo, H. (2022). Collaborative medication management for older adults after hospital discharge: a qualitative descriptive study. *BMC Nursing*, 21(1), 1–16. <https://doi.org/10.1186/S12912-022-01061-3/FIGURES/1>
- Permenkes RI. (2016). *Permenkes No. 73 Tahun 2016 tentang Standar Pelayanan Kefarmasian di Apotek [JDIH BPK RI]*. Permenkes RI. <https://peraturan.bpk.go.id/Home/Details/114626/permenkes-no-73-tahun-2016>
- Plano Clark, V. L. (2017). Mixed methods research. *The Journal of Positive Psychology*, 12(3), 305–306. <https://doi.org/10.1080/17439760.2016.1262619>
- Quay, C., & Ramakrishnan, A. (2023). Innovative Use of Virtual Reality to Facilitate Empathy Toward Older Adults in Nursing Education. *Nursing Education Perspectives*, 44(5), 300–302. <https://doi.org/10.1097/01.NEP.0000000000001174>
- Razi, M. O., Fouzia, R., & Razzaque, M. S. (2023). Decline of Empathy among Healthcare Apprentices. *International Medical Education 2023, Vol. 2, Pages 232-238*, 2(4), 232–238. <https://doi.org/10.3390/IME2040022>
- Reed, B. N., Haines, S. T., & Holmes, E. R. (2021). The Impact of Two Longitudinal Professionalism Courses on Student Pharmacists' Empathy. *American Journal of Pharmaceutical Education*, 85(2), 123–130. <https://doi.org/10.5688/AJPE8083>
- Reed, D. A., Beckman, T. J., Wright, S. M., Levine, R. B., Kern, D. E., & Cook, D. A. (2008). *QUALITY OF MEDICAL EDUCATION SCHOLARSHIP Predictive Validity Evidence for Medical Education Research Study Quality Instrument Scores: Quality of Submissions to JGIM's Medical Education Special Issue*. <https://doi.org/10.1007/s11606-008-0664-3>
- Reeves, S. J. L. and T. C. (2017). *Edgar Dale and the Cone of Experience*.
- Reid-Searl, K., Levett-Jones, T., Lapkin, S., Jakimowicz, S., Hunter, J., & Rawlings-Anderson, K. (2020). Evaluation of the “Empathic Care of a Vulnerable Older Person” e-simulation. *Nurse Education Today*, 88. <https://doi.org/10.1016/J.NEDT.2020.104375>
- Sahin, S., Mandiracioglu, A., Tekin, N., Senuzun, F., & Akcicek, F. (2012). Attitudes toward the elderly among the health care providers: Reliability and validity of Turkish version of the UCLA Geriatrics Attitudes (UCLA-GA) scale. *Archives of Gerontology and Geriatrics*, 55(1), 205–209. <https://doi.org/10.1016/J.ARCHGER.2011.08.015>
- Sales, I., Jonkman, L., Connor, S., & Hall, D. (2013). A Comparison of Educational Interventions to Enhance Cultural Competency in Pharmacy Students. *American Journal of Pharmaceutical Education*, 77(4). <https://doi.org/10.5688/AJPE77476>
- Sam, A. T., & Parasuraman, S. (2015). The nine-star pharmacist: An overview. *Journal of Young Pharmacists*, 7(4), 281–284. <https://doi.org/10.5530/JYP.2015.4.1>
- Samra, R., Griffiths, A., Cox, T., Conroy, S., & Knight, A. (2013). Changes in Medical Student and Doctor Attitudes Toward Older Adults After an Intervention: A Systematic Review. *Journal of the American Geriatrics Society*, 61(7), 1188. <https://doi.org/10.1111/JGS.12312>
- Sancho-Cantus, D., Cubero-Plazas, L., Botella Navas, M., Castellano-Rioja, E., & Cañabate Ros, M. (2023). Importance of Soft Skills in Health Sciences Students and Their Repercussion after the COVID-19 Epidemic: Scoping Review. *International Journal of Environmental Research and Public Health*, 20(6). <https://doi.org/10.3390/IJERPH20064901>

- Sari, D., Taskiran, N., Baysal, E., Acar, E., & Cevik Akyil, R. (2020). Effect of an aged simulation suit on nursing students' attitudes and empathy. *European Geriatric Medicine*, 11(4), 667–675. <https://doi.org/10.1007/S41999-020-00316-Z>
- Sathaporn, K., & Pitanupong, J. (2022). Factors associated with the improvement of the empathy levels among clinical-year medical students in Southern Thailand: a university-based cross-sectional study. *BMC Psychology*, 10(1), 1–10. <https://doi.org/10.1186/S40359-022-00842-4/TABLES/4>
- Saunders, B., Sim, J., Kingstone, T., Baker, S., Waterfield, J., Bartlam, B., Burroughs, H., & Jinks, C. (2018). Saturation in qualitative research: exploring its conceptualization and operationalization. *Quality and Quantity*, 52(4), 1893–1907. <https://doi.org/10.1007/s11135-017-0574-8>
- Schneiderhan, J., Guetterman, T. C., & Dobson, M. L. (2019). Curriculum development: a how to primer. *Fam Med Com Health*, 7, 46. <https://doi.org/10.1136/fmch-2018-000046>
- Shahzad Hasan, S., Gohar Babar, M., & Imran Ahmed, S. (2013). An assessment of pharmacy students' empathy levels in Malaysia. *Article in Journal of Advanced Pharmacy Education & Research*. <https://www.researchgate.net/publication/259694685>
- Shin, S., Park, J. H., & Kim, J. H. (2015). Effectiveness of patient simulation in nursing education: Meta-analysis. *Nurse Education Today*, 35(1), 176–182. <https://doi.org/10.1016/J.NEDT.2014.09.009>
- Sianturi, E. I., Latifah, E., Pane, M., Perwitasari, D. A., Kristina, S. A., Hastuti, E. B., Pavlovich, J., & Taxis, K. (2022). Knowledge, empathy, and willingness to counsel patients with HIV among Indonesian pharmacists: a national survey of stigma. *AIDS Care*, 34(1), 21–28. <https://doi.org/10.1080/09540121.2021.1883506>
- Silva, D. da, Pereira, A., ... R. S.-A. J. of, & 2019, undefined. (2021). Effect of the Virtual Patient for Geriatric Education Software on Pharmacy Students' Knowledge and Attitudes. *Ajpe.Org*. <https://www.ajpe.org/content/early/2019/12/10/ajpe7230?versioned=true>
- Silva, D. da, Pereira, A., ... R. S.-A. J. of, & 2020, undefined. (2020). Using virtual patient software to improve pharmacy students' knowledge of and attitudes toward geriatric patients. *Ajpe.Org*. <https://doi.org/10.5688/ajpe7230>
- Simko, L. C., Rhodes, D. C., Gumireddy, A., Schreiber, J., Booth, A., & Hawkins, M. (2021). Effects of a Chronic Pain Simulation Empathy Training Kit on the Empathy of Interprofessional Healthcare Students for Chronic Pain Patients. *Clinical Simulation in Nursing*, 56, 66–75. <https://doi.org/10.1016/J.ECNS.2021.04.003>
- Sinha, A., Mukherjee, S., Tripathi, S., & Dutta, S. (2021). Issues and challenges of polypharmacy in the elderly: A review of contemporary Indian literature. *Journal of Family Medicine and Primary Care*, 10(10), 3544. https://doi.org/10.4103/JFMPC.JFMPC_2581_20
- Smith, R. P., & Learman, L. A. (2017). A Plea for MERSQI: The Medical Education Research Study Quality Instrument. *Obstetrics and Gynecology*, 130(4), 686–690. <https://doi.org/10.1097/AOG.0000000000002091>
- Son, H. K. (2021). The Effects of Simulation Problem-Based Learning on the Empathy, Attitudes toward Caring for the Elderly, and Team Efficacy of Undergraduate Health Profession Students. *International Journal of Environmental Research and Public Health*, 18(18). <https://doi.org/10.3390/IJERPH18189658>

- Sugiyono. (2018). *Metode Penelitian Kuantitatif*. Bandung: Alfabeta. <https://inlislite.uin-suska.ac.id/opac/detail-opac?id=22862>
- Surahman, E., & Husen, I. (2011). *Konsep Dasar Pelayanan Kefarmasian Berbasiskan Pharmaceutical Care*. Widya Padjajaran, Bandung.
<http://library.poltekkesjambi.ac.id/opac/detail-opac?id=3517>
- Sweet, L. R., & Palazzi, D. L. (2015). Application of Kern's Six-step Approach to Curriculum Development by Global Health Residents. *Education for Health* •, 28(2).
<https://doi.org/10.4103/1357-6283.170124>
- SWH, L., & PL, T. (2020). "Suiting Up" to Enhance Empathy Toward Aging: A Randomized Controlled Study. *Frontiers in Public Health*, 8.
<https://doi.org/10.3389/FPUBH.2020.00376>
- Tamayo, C. A., Rizkalla, M. N., & Henderson, K. K. (2016). Cognitive, behavioral and emotional empathy in pharmacy students: Targeting Programs for Curriculum Modification. *Frontiers in Pharmacology*, 7(APR), 96.
<https://doi.org/10.3389/FPHAR.2016.00096/BIBTEX>
- Thomas, P. A., Kern, D. E., Hughes, M. T., & Chen, B. Y. (2016). *Curriculum Development for Medical Education: A Six-Step Approach*. The John Hopkins University Press, Baltimore.
https://books.google.co.id/books?hl=en&lr=&id=UxF4CwAAQBAJ&oi=fnd&pg=PP1&dq=Curriculum+development+for+medical+education:+A+six-step+approach&ots=1fNyWYI3LD&sig=2t77G2S-ZTIOz5mWoFK7pwh0AL0&redir_esc=y#v=onepage&q=Curriculum%20development%20for%20medical%20education%3A%20A%20six-step%20approach&f=false
- Tisdale, C. E., Black, A. C., Jain, S., Lowther, E., Madeline, L., Troup, C., Nathaniel, T., & Fowler, L. A. (2020). The Impact of Meeting Patients with Neurological Disorders on Medical Student Empathy. *Medical Science Educator*, 30(4), 1561–1568.
<https://doi.org/10.1007/S40670-020-01102-Z/FIGURES/2>
- van Winkle, L. J., Fjortoft, N., & Hojat, M. (2012). Impact of a workshop about aging on the empathy scores of pharmacy and medical students. *American Journal of Pharmaceutical Education*, 76(1). <https://doi.org/10.5688/AJPE7619>
- Wallman, A., Vaudan, C., & Källemark Sporrang, S. (2013). Communications training in pharmacy education, 1995-2010. *American Journal of Pharmaceutical Education*, 77(2).
<https://doi.org/10.5688/AJPE77236>
- Ward, J., Cody, J., Schaal, M., & Hojat, M. (2012). The empathy enigma: an empirical study of decline in empathy among undergraduate nursing students. *Journal of Professional Nursing : Official Journal of the American Association of Colleges of Nursing*, 28(1), 34–40. <https://doi.org/10.1016/J.PROFNURS.2011.10.007>
- Wen, D., Ma, X., Li, H., Liu, Z., Xian, B., & Liu, Y. (2013). Empathy in Chinese medical students: Psychometric characteristics and differences by gender and year of medical education. *BMC Medical Education*, 13(1), 1–6. <https://doi.org/10.1186/1472-6920-13-130/TABLES/4>
- Williams, B., Brown, T., McKenna, L., Boyle, M. J., Palermo, C., Nestel, D., Brightwell, R., McCall, L., & Russo, V. (2014). Empathy levels among health professional students: a cross-sectional study at two universities in Australia. *Advances in Medical Education and Practice*, 5, 107. <https://doi.org/10.2147/AMEP.S57569>

- Williams, C. R., Rodgers, P. T., McLaughlin, J. E., & ... (2020). Comparing empathy levels in doctor of pharmacy students and exemplary pharmacist preceptors. *American Journal of ...*. <https://www.ajpe.org/content/84/3/7497.short>
- Wilson, S. E., Prescott, J., & Becket, G. (2012). Empathy levels in first- and third-year students in health and non-health disciplines. *American Journal of Pharmaceutical Education*, 76(2), 1–4.
- Yang, Y. S., Liu, P. C., Lin, Y. K., Lin, C. Der, Chen, D. Y., & Lin, B. Y. J. (2021). Medical students' preclinical service-learning experience and its effects on empathy in clinical training. *BMC Medical Education*, 21(1), 1–11. <https://doi.org/10.1186/S12909-021-02739-Z/TABLES/4>
- Yap, A. F., Thirumoorthy, T., & Kwan, Y. H. (2016). Systematic review of the barriers affecting medication adherence in older adults. *Geriatrics & Gerontology International*, 16(10), 1093–1101. <https://doi.org/10.1111/GGI.12616>
- Yorra, M. L. (2014). Self-Efficacy and Self-Esteem in Third-Year Pharmacy Students. *American Journal of Pharmaceutical Education*, 78(7). <https://doi.org/10.5688/AJPE787134>