

## BIBLIOGRAPHY

- Alamri, A., Althaqafi, A., Salawati, R., Asiri, R., Aldugman, M., Saleh, M. A., AlAsmari, B., AlBraik, M., & Ghazy, R. M. (2025). Awareness and uptake of herpes zoster vaccine among patients with diabetes mellitus in the Aseer Region, Saudi Arabia: A cross-sectional study. *Medicine*, 104(36), e44356. <https://doi.org/10.1097/md.00000000000044356>
- Alfandi, N., Alhassan, Z., Alfandi, N., Alsobie, S., Alkhalaf, B., Ahmed, F. B., & Alamer, S. (2024). Assessment of knowledge, attitudes, and practices of herpes zoster vaccination among the general population in Al-Ahsa, Saudi Arabia. *Journal of Healthcare Sciences*, 04(01), 11–22. <https://doi.org/10.52533/johs.2024.40102>
- Alhazmi, A. H., Jaafari, H., Hufaysi, A. H., Alhazmi, A. K., Harthi, F., Hakami, T. K. M., Hadadi, R. T., Gharwi, N., Bajawi, R. H., Hakami, E. F., Hakami, N. M., & Elfaki, M. M. (2024). Knowledge of herpes zoster virus and its vaccines among older adults in Jazan Province, Saudi Arabia: a Cross-Sectional study. *Cureus*, 16(9), e68726. <https://doi.org/10.7759/cureus.68726>
- Alici, D. E., Sayiner, A., & Unal, S. (2017). Barriers to adult immunization and solutions: Personalized approaches. *Human Vaccines & Immunotherapeutics*, 13(1), 213–215. <https://doi.org/10.1080/21645515.2016.1234556>
- Alleft, L. A., Alhosaini, L. S., Almutlaq, H. M., Alshayea, Y. M., Alshammari, S. H., Aldosari, M. A., & Alateeq, F. A. (2023). Public knowledge, attitude, and practice toward herpes zoster vaccination in Saudi Arabia. *Cureus*, 15(11), e49396. <https://doi.org/10.7759/cureus.49396>
- Almalki, M., Albatly, L., Almalki, A., Alroqy, A., Alruqi, F., Alhejaili, B., & Almalki, M. (2024). Knowledge, attitude, and practice regarding herpes zoster vaccination among PHC patients in the central region of Saudi Arabia; a cross-sectional study. *International Journal of Medicine in Developing Countries*, 2242–2249. <https://doi.org/10.24911/ijmdc.51-1724738261>
- AlMuammar, S., Albogmi, A., Alzahrani, M., Alsharef, F., Aljohani, R., & Aljilani, T. (2023). Herpes zoster vaccine awareness and acceptance among adults in Saudi Arabia: a survey-based cross-sectional study. *Tropical Diseases, Travel Medicine and Vaccines*, 9(1). <https://doi.org/10.1186/s40794-023-00202-z>
- American Psychological Association. (2018). *Attitude*. In APA dictionary of psychology. Retrieved September 3, 2025, from <https://dictionary.apa.org/attitude>
- Andrade, C. (2020). The inconvenient truth about convenience and purposive samples. *Indian Journal of Psychological Medicine*, 43(1), 86–88. <https://doi.org/10.1177/0253717620977000>
- Aslam, M. (2019). Introducing Kolmogorov–Smirnov Tests under Uncertainty: An Application to Radioactive Data. *ACS Omega*, 5(1), 914–917. <https://doi.org/10.1021/acsomega.9b03940>

- Baalbaki, N. A., Fava, J. P., Ng, M., Okorafor, E., Nawaz, A., Chiu, W., ... Kilgore, P. E. (2019). A community-based survey to assess knowledge, attitudes, beliefs and practices regarding herpes zoster in an urban setting. *Infectious Diseases and Therapy*, 8(4), 687–694. <https://doi.org/10.1007/s40121-019-00269-2>
- Bardach, A. E., Palermo, C., Alconada, T., Sandoval, M., Balan, D. J., Nieto Guevara, J., Gómez, J., & Ciapponi, A. (2021). Herpes zoster epidemiology in Latin America: A systematic review and meta-analysis. *PLOS ONE*, 16(8), e0255877. <https://doi.org/10.1371/journal.pone.0255877>
- Baumann, E., Czerwinski, F., & Reifegerste, D. (2017). Gender-Specific determinants and patterns of online health information seeking: Results from a representative German health survey. *Journal of Medical Internet Research*, 19(4), e92. <https://doi.org/10.2196/jmir.6668>
- Boateng, G. O., Neilands, T. B., Frongillo, E. A., Melgar-Quiñonez, H. R., & Young, S. L. (2018). Best practices for developing and validating scales for health, social, and behavioral research: A primer. *Frontiers in Public Health*, 6, 149. <https://doi.org/10.3389/fpubh.2018.00149>
- Bohamad, A. H., et al. (2023). Knowledge about the herpes zoster (HZ) vaccine and its acceptance among the population in Al-Ahsa City in the Kingdom of Saudi Arabia. *Cureus*, 15(12), e50329. <https://doi.org/10.7759/cureus.50329>
- Centers for Disease Control and Prevention. (2023). *Shingles (herpes zoster) vaccination: Vaccine use and safety*. U.S. Department of Health & Human Services. <https://www.cdc.gov/shingles/hcp/vaccine-considerations/index.html>
- Chaudhuri, K., Chakrabarti, A., Chandan, J. S., & Bandyopadhyay, S. (2022). COVID-19 vaccine hesitancy in the UK: a longitudinal household cross-sectional study. *BMC Public Health*, 22(1). <https://doi.org/10.1186/s12889-021-12472-3>
- Cheah, W. L., Francis Wing, C. B., Zahari, A. N., Idris, A. S., Maksul, N. A. A., Yusman, N. A. L., & John, W. (2021). Willingness to treat COVID-19 disease: What do medical & nursing students perceive?. *Ethics, medicine, and public health*, 17, 100651. <https://doi.org/10.1016/j.jemep.2021.100651>
- Chen, J., Shantakumar, S., Si, J., Gowindah, R., Parikh, R., Chan, F., ... Wong, A. T. (2024). Knowledge, attitude, and practice toward herpes zoster (HZ) and HZ vaccination: Concept elicitation findings from a multi-country study in the Asia Pacific. *Human Vaccines & Immunotherapeutics*, 20(1), 2317446. <https://doi.org/10.1080/21645515.2024.2317446>
- Conti, A. A. (2021). Vaccination through time: from the first smallpox vaccine to current vaccination campaigns against the COVID-19 pandemic. *Acta Bio-Medica: Atenei Parmensis*, 92(S6), e2021453. <https://doi.org/10.23750/abm.v92iS6.12211>
- Crawshaw, J., Konnyu, K., Castillo, G., Van Allen, Z., Grimshaw, J., & Presseau, J. (2022). Behavioural determinants of COVID-19 vaccination acceptance

- among healthcare workers: a rapid review. *Public Health*, 210, 123–133. <https://doi.org/10.1016/j.puhe.2022.06.003>
- Creswell, J. W., & Creswell, J. D. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches* (5th ed.). Sage.
- Cunningham, A. L., & Levin, M. J. (2018). Herpes zoster vaccines. *The Journal of Infectious Diseases*, 218(suppl\_2), S127–S133. <https://doi.org/10.1093/infdis/jiy382>
- Cunningham, A. L., Sandgren, K. J., & Truong, N. R. (2023). Advances in understanding the mechanism of action of adult vaccines. *The Journal of Clinical Investigation*, 133(23), e175378. <https://doi.org/10.1172/JCI175378>
- Dumez, V., & L'Espérance, A. (2024). Beyond experiential knowledge: a classification of patient knowledge. *Social Theory & Health*, 22(3), 173–186. <https://doi.org/10.1057/s41285-024-00208-3>
- Echeverria-Londono, S., Li, X., Toor, J., de Villiers, M. J., Nayagam, S., Hallett, T. B., ... Gaythorpe, K. A. M. (2021). How can the public health impact of vaccination be estimated? *BMC Public Health*, 21(1), 2049. <https://doi.org/10.1186/s12889-021-12040-9>
- Eiden, A. L., Barratt, J., & Nyaku, M. K. (2022). Drivers of and barriers to routine adult vaccination: A systematic literature review. *Human Vaccines & Immunotherapeutics*, 18(6). <https://doi.org/10.1080/21645515.2022.2127290>
- Etikan, I., Musa, S. A., & Alkassim, R. S. (2016). Comparison of convenience sampling and purposive sampling. *American Journal of Theoretical and Applied Statistics*, 5(1), 1–4.
- Ferrara, G., Mudhune, S., Rogers, A., Mbeya, J., Achieng, A., Were, V., ... Starnes, J. (2025). Willingness to be vaccinated against COVID-19 and associated factors in Migori County, Kenya: Analysis of cross-sectional observational survey data. *PLOS Global Public Health*, 5(3), e0003699. <https://doi.org/10.1371/journal.pgph.0003699>
- Fiore, J., Co-van der Mee, M. M., Maldonado, A., Glasser, L., & Watson, P. (2021). Safety and reactogenicity of the adjuvanted recombinant zoster vaccine: experience from clinical trials and post-marketing surveillance. *Therapeutic Advances in Vaccines and Immunotherapy*, 9, 25151355211057479. <https://doi.org/10.1177/25151355211057479>
- Fishman, J., Yang, C., & Mandell, D. (2021). Attitude theory and measurement in implementation science: a secondary review of empirical studies and opportunities for advancement. *Implementation Science*, 16(1), 87. <https://doi.org/10.1186/s13012-021-01153-9>
- Good, C. B., Parekh, N., & Hernandez, I. (2018). Avoiding rash decisions about zoster vaccination: insights from cost-effectiveness evidence. *BMC Medicine*, 16(1). <https://doi.org/10.1186/s12916-018-1231-3>
- Grudziąż-Sękowska, J., Sękowski, K., Grześczyk-Nojszewska, Z., Kamińska, A., Sierpiński, R., Ostrowski, J., Pinkas, J., & Jankowski, M. (2024). Public awareness and willingness to vaccinate against herpes zoster: A

- nationwide cross-sectional study in Poland. *Vaccines*, *12*(12), 1393. <https://doi.org/10.3390/vaccines12121393>
- Habibzadeh, F. (2024). Data distribution: normal or abnormal? *Journal of Korean Medical Science*, *39*(3), e35. <https://doi.org/10.3346/jkms.2024.39.e35>
- Hadisoemarto, P. F., Reich, M. R., & Castro, M. C. (2016). Introduction of pentavalent vaccine in Indonesia: a policy analysis. *Health Policy and Planning*, *31*(8), 1079–1088. <https://doi.org/10.1093/heapol/czw038>
- Harbecke, R., Cohen, J. I., & Oxman, M. N. (2021). Herpes zoster vaccines. *The Journal of Infectious Diseases*, *224*(12 Suppl 2), S429–S442. <https://doi.org/10.1093/infdis/jiab387>
- Hotifah, Y., Suryanto, Hamidah, & Yoenanto, N. H. (2020). *Determinant factors of willingness to learn: Systematic literature review*. In *Advances in Social Science, Education and Humanities Research* (Vol. 508). Atlantis Press. <https://doi.org/10.2991/assehr.k.201214.322>
- Jin, W., Fang, M., Sayin, I., Smith, C., Hunter, J. L., Richardson, B., ... Canaday, D. H. (2023). Differential CD4+ T-cell cytokine and cytotoxic responses between reactivation and latent phases of herpes zoster infection. *Pathogens & Immunity*, *7*(2), 171–188. <https://doi.org/10.20411/pai.v7i2.560>
- Kawai, K., Yawn, B. P., Wollan, P., & Harpaz, R. (2016). Increasing incidence of herpes zoster over a 60-year period from a population-based study. *Clinical Infectious Diseases*, *63*(2), 221–226. <https://doi.org/10.1093/cid/ciw296>
- Kotronoulas, G., & Papadopoulou, C. (2023). A primer to experimental and nonexperimental quantitative research: the example case of tobacco-related mouth cancer. *Seminars in Oncology Nursing*, *39*(2), 151396. <https://doi.org/10.1016/j.soncn.2023.151396>
- Lam, A. C., Chan, M., Chou, H., Ho, S., Li, H., Lo, C., ... Yeung, I. (2017). A cross-sectional study of the knowledge, attitude, and practice of patients aged 50 years or above towards herpes zoster in an out-patient setting. *Hong Kong Medical Journal*. <https://doi.org/10.12809/hkmj165043>
- Li, H., Cheng, L., Tao, J., Chen, D., & Zeng, C. (2022). Knowledge and willingness to receive a COVID-19 vaccine: a survey from Anhui Province, China. *Human Vaccines & Immunotherapeutics*, *18*(1), 2024064. <https://doi.org/10.1080/21645515.2021.2024064>
- Lim, D. Z. J., et al. (2024). Herpes zoster and post-herpetic neuralgia—Diagnosis, treatment, and vaccination strategies. *Pathogens*, *13*(7), 596. <https://doi.org/10.3390/pathogens13070596>
- Lin, J., Wood, J. G., Bernardo, C., Stocks, N. P., & Liu, B. (2020). Herpes zoster vaccine coverage in Australia before and after introduction of a national vaccination program. *Vaccine*, *38*(20), 3646–3652. <https://doi.org/10.1016/j.vaccine.2020.03.036>
- Meyers, J. L., Madhwani, S., Rausch, D., Candrilli, S. D., Krishnarajah, G., & Yan, S. (2017). Analysis of real-world health care costs among immunocompetent patients aged 50 years or older with herpes zoster in the

- United States. *Human Vaccines & Immunotherapeutics*, 13(8), 1861–1872. <https://doi.org/10.1080/21645515.2017.1324373>
- Montero, D. A., Vidal, R. M., Velasco, J., Carreño, L. J., Torres, J. P., Benachi O, M. A., ... O’Ryan, M. (2024). Two centuries of vaccination: historical and conceptual approach and future perspectives. *Frontiers in Public Health*, 11, 1326154. <https://doi.org/10.3389/fpubh.2023.1326154>
- Oxford University Press. (n.d.). *Willingness*. Oxford Learner’s Dictionaries. Retrieved September 3, 2025, from <https://www.oxfordlearnersdictionaries.com/definition/english/willingness>
- Ranganathan, P., & Aggarwal, R. (2019). Study designs: Part 3 - Analytical observational studies. *Perspectives in Clinical Research*, 10(2), 91. [https://doi.org/10.4103/picr.picr\\_35\\_19](https://doi.org/10.4103/picr.picr_35_19)
- Rincón Uribe, F. A., Godinho, R. C. S., Machado, M. A. S., Oliveira, K. R. D. S. G., Neira Espejo, C. A., de Sousa, N. C. V., ... Pedroso, J. D. S. (2021). Health knowledge, health behaviors and attitudes during pandemic emergencies: A systematic review. *PLOS ONE*, 16(9), e0256731. <https://doi.org/10.1371/journal.pone.0256731>
- Rodrigues, C. M. C., & Plotkin, S. A. (2020). Impact of vaccines; health, economic and social perspectives. *Frontiers in Microbiology*, 11, 1526. <https://doi.org/10.3389/fmicb.2020.01526>
- Rubaian, N. F. B., Alghamdi, N., Alquorain, N., Almuheidib, S. R., AlShamlan, N. A., AlAbdulKader, A. M., Wahab, M. M. A., & Al-Shammari, M. A. (2024). Community-Based Cross-Sectional Assessment Survey on herpes zoster vaccination practices. *Medical Archives*, 78(2), 95. <https://doi.org/10.5455/medarh.2024.78.95-99>
- Scholtz, S. E. (2021). Sacrifice is a step beyond convenience: A review of convenience sampling in psychological research in Africa. *SA Journal of Industrial Psychology*, 47. <https://doi.org/10.4102/sajip.v47i0.1837>
- Setia, M. S. (2016). Methodology series module 3: Cross-sectional studies. *Indian Journal of Dermatology*, 61(3), 261–264. <https://doi.org/10.4103/0019-5154.182410>
- Singer, D., Sweeney, C., Stempniewicz, N., Reynolds, M., Garbinsky, D., & Poston, S. (2024). Knowledge, attitudes, and practices regarding herpes zoster vaccination among specialists. *Population Health Management*, 27(4), 231–240. <https://doi.org/10.1089/pop.2023.0284>
- Stempniewicz, N., Davenport, E., Wang, J., & Sweeney, C. (2025). Herpes zoster vaccination: Primary care provider knowledge, attitudes, and practices. *Human Vaccines & Immunotherapeutics*, 21(1), 2488093. <https://doi.org/10.1080/21645515.2025.2488093>
- Tavakol, M., & Dennick, R. (2011). Making sense of Cronbach's alpha. *International Journal of Medical Education*, 2, 53–55. <https://doi.org/10.5116/ijme.4dfb.8dfd>
- Trevethan, R. (2017). Deconstructing and assessing knowledge and awareness in public health research. *Frontiers in Public Health*, 5, 194. <https://doi.org/10.3389/fpubh.2017.00194>

- Tyrer, S., & Heyman, B. (2016). Sampling in epidemiological research: issues, hazards and pitfalls. *BJPsych Bulletin*, 40(2), 57–60. <https://doi.org/10.1192/pb.bp.114.050203>
- Varghese, L., Standaert, B., Olivieri, A., & Curran, D. (2017). The temporal impact of aging on the burden of herpes zoster. *BMC Geriatrics*, 17(1), 30. <https://doi.org/10.1186/s12877-017-0420-9>
- Wollina, U. (2017). Variations in herpes zoster manifestation. *Indian Journal of Medical Research*, 145(3), 294–298. [https://doi.org/10.4103/ijmr.IJMR\\_1622\\_16](https://doi.org/10.4103/ijmr.IJMR_1622_16)
- World Health Organization. (2024). *Vaccines and immunization: What is vaccination?* <https://www.who.int/news-room/questions-and-answers/item/vaccines-and-immunization-what-is-vaccination>
- World Health Organization: WHO. (2025, March 24). Shingles (herpes zoster). Retrieved December 1, 2025, from [https://www.who.int/news-room/fact-sheets/detail/shingles-\(herpes-zoster\)](https://www.who.int/news-room/fact-sheets/detail/shingles-(herpes-zoster))
- World Health Organization (WHO). (2025, March 24). Shingles (herpes zoster). [http://who.int/news-room/fact-sheets/detail/shingles-\(herpes-zoster\)](http://who.int/news-room/fact-sheets/detail/shingles-(herpes-zoster))
- Wu, J., Cai, G., Fan, Y., Arima, K., Lin, Y., Wong, L., Zhang, Z., Yamamoto, T., Morita, K., Yoshikawa, A., Lu, Y., & Aoyagi, K. (2023). Acceptance and Preference for COVID-19 Vaccine among Japanese Residents at Early Stage of the Epidemic in Japan. *Vaccines*, 11(1), 157. <https://doi.org/10.3390/vaccines11010157>
- Xia, Y., Ye, X., Zhu, W., Ai, J., Shen, Y., Shi, Z., Cui, C., Yuan, Y., Zhu, D., & He, P. (2025). Epidemiology of herpes zoster and post-herpetic neuralgia in China: A nationwide population-based survey. *International Journal of Infectious Diseases*, 159, 108005. <https://doi.org/10.1016/j.ijid.2025.108005>
- Yang, T. U., Cheong, H. J., Song, J. Y., Noh, J. Y., & Kim, W. J. (2015). Survey on public awareness, attitudes, and barriers for herpes zoster vaccination in South Korea. *Human Vaccines & Immunotherapeutics*, 11(3), 719–726. <https://doi.org/10.1080/21645515.2015.1008885>
- Zhang, J., Zhang, S., Jia, B., Bai, Y., Li, Z., Liu, F., Hu, Y., Guo, X., Ma, J., Li, S., & Shi, Q. (2025). A cross-sectional study exploring the predictors of herpes zoster vaccination for people aged over 50 years old in Chaoyang district, Beijing. *Frontiers in Public Health*, 12, 1486603. <https://doi.org/10.3389/fpubh.2024.1486603>