



Wan Nor Arifin

Curriculum Vitae

Education and Skills

Degrees

- 2023 **PhD (Intelligence System Techniques)**, *Universiti Sains Malaysia*, Malaysia.
Partial verification bias correction in diagnostic accuracy studies using propensity score-based methods
- 2012 **M.Sc. (Medical Statistics)**, *Universiti Sains Malaysia*, Malaysia.
Confirmatory Factor Analysis (CFA) of USM Emotional Quotient Inventory (USMEQ-i) Among Medical Degree Program Applicants in Universiti Sains Malaysia (USM)
- 2006 **M.B.B.S. Bachelor of Medicine, Bachelor of Surgery**, *International Islamic University of Malaysia*, Malaysia.

Other skills

Programming R, Python, C++ (basic), Javascript, Bash script, HTML, CSS, Markdown
Software RStudio, Linux, LibreOffice, Texmaker
Language Malay, English, Arabic, Japanese (basic), Thai (basic)

Research Interests

- Development and validation of measurement and diagnostic tools in clinical and public health settings
- Large language models and machine learning applications in clinical and public health settings
- item Partial verification bias correction methods
- R programming language and R function/package development
- Statistical methods and computational algorithms
- Sample size determination methods

Professional Experience

Positions

- 2013-present Senior Lecturer. Biostatistics and Research Methodology Unit, Universiti Sains Malaysia.
- 2012-2013 Lecturer. Biostatistics and Research Methodology Unit, Universiti Sains Malaysia.
- 2009-2012 Trainee Lecturer. Biostatistics and Research Methodology Unit, Universiti Sains Malaysia.
- 2009 Medical and Health Officer. Ayer Lanas Health Clinic, Jeli, Kelantan, Malaysia.
- 2008-2009 Medical Officer. Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan, Malaysia.
- 2007-2008 House Officer. Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan, Malaysia.

Professional Memberships

- 2016-present Fellow Member, Royal Statistical Society, UK.
- 2017-present Lifetime Member, Malaysian Psychometrics Association, Malaysia.
- 2015-2016 Member, Malaysian Psychometrics Association, Malaysia.

Relevant Administrative Positions

- 2025-present Unit Coordinator, Biostatistics and Research Methodology Unit, Universiti Sains Malaysia.
- 2014-2019 Year 2 Coordinator, M.Sc. (Medical Statistics) programme, Universiti Sains Malaysia.
- 2012-2014 Year 1 Coordinator, M.Sc. (Medical Statistics) programme. Universiti Sains Malaysia.

Awards, Fellowships and Scholarships

- 2019-2022 SLAI Scholarship (PhD Degree), Ministry of Education of Malaysia. 16/9/2019-15/9/2022.
- 2017 Excellent Service Award, Universiti Sains Malaysia. 16/4/2017.
- 2010-2012 SLAB Scholarship (Masters Degree), Ministry of Education of Malaysia. 7/2010-6/2012.
- 2001-2006 JPA Scholarship (Undergraduate Degree), Public Service Department of Malaysia. 7/2001-12/2006.

Research Experience

Research Attachments/Sabbaticals

- 2018 **Academic visitor**, *Clinical Research Centre, Hospital Raja Perempuan Zainab II*, Kota Bharu, Kelantan, Malaysia, 15/5/2018-14/9/2018.
Activities: Delivering a series of lecture on medical statistics using R to medical personel; writing book drafts on medical statistics using R.
- 2017-2018 **Academic visitor**, *School of Mathematics, Statistics and Physics, Newcastle University*, Newcastle Upon Tyne, United Kingdom, 15/12/2017-14/5/2018.
Collaborator: Dr. Malcolm Farrow, Senior Lecturer in Statistics, School of Mathematics, Statistics and Physics, Newcastle University. Research focus: Bayesian statistics, finite mixture modelling, Dirichlet process.

Research Grants

As Principal Investigator

- 2024-present Wan Nor Arifin, Najib Majdi Bin Yaacob, Muhammad Saiful Bahri Yusoff, Iza Sazanita Binti Isa, Che Rahimah Che Razak. *Elucidating Knowledge-Driven Automated Item Generation Algorithms via Transformer-Based Machine Learning Models for Generating Questionnaire Items in the Malay Language for Public Health Surveys*. Ministry of Higher Education, Fundamental Research Grant FRGS/1/2024/SKK04/USM/02/3, RM116,100. 1/8/2024-31/7/2027.
- 2010-2011 Wan Nor Arifin. *A Randomized Controlled Trial of Effectiveness of "One Minute Exercise" in Reducing Blood Pressure Among Hypertensive Patients*. Universiti Sains Malaysia, Incentive Grant 2010/0728, RM5000.00. 25/5/2010-24/5/2011.
- 2014-2017 Wan Nor Arifin, Muhammad Saiful Bahri Yusoff, Sarimah Abdullah. *Attitude towards statistics among postgraduate students in Universiti Sains Malaysia*. Universiti Sains Malaysia, Short Term Grant 304/PPSP/61313055, RM23,405.20. 1/9/2014- 31/8/2017.

Publications

- 2025 Erwan Ershad Ahmad Khan, Wan Nor Arifin, and Kamarul Imran Musa. Translation, validity and reliability of the malay version of the adult carer quality of life questionnaire (ac-qol) in informal caregivers of stroke survivors in kelantan, malaysia. *BMC Public Health*, volume 25, page 982. BioMed Central London, 2025.
- 2025 Siti Mariam Ja'afar, Azriani Ab Rahman, and Wan Nor Arifin. Cross-cultural adaptation and validation of the malay version of the early childhood educators child abuse questionnaire in malaysia. *The Malaysian Journal of Medical Sciences*, volume 32, pages 122–134. Penerbit Universiti Sains Malaysia, 2025.
- 2025 Mohd Rujhan Hadfi Mat Daud, Nor Azwany Yaacob, Wan Nor Arifin, Jamiatul Aida Md Sani, and Wan Abdul Hannan Wan Ibadullah. A mixed-effects model of the determinants of measles incidence: a nationwide study in malaysia, 2018 to 2022. *Journal of Public Health and Development*, volume 23, pages 219–229. ASEAN Institute for Health Development, Mahidol University, Thailand, 2025.
- 2025 Wan Nor Arifin and Umi Kalsom Yusof. Partial verification bias correction using scaled inverse probability resampling for binary diagnostic tests. *medRxiv*, pages 2025–03. Cold Spring Harbor Laboratory Press, 2025.
- 2025 Wan Nor Arifin and Najib Majdi Yaacob. Sample size determination for machine learning in medical research. *arXiv preprint arXiv:2503.05809*, 2025.
- 2025 Wan Nor Arifin. A web-based sample size calculator for structural equation modelling. *Education in Medicine Journal*, volume 17, 2025.
- 2024 Siti Fatimah Samsury, Mohd Nazri Shafei, Mohd Ismail Ibrahim, Wan Nor Arifin, and Noriah Mahmud. Predictors of body image perceptions among healthcare providers in terengganu, malaysia. *Heliyon*, volume 10. Elsevier, 2024.

- 2024 Yee Cheng Kueh, Temitope Atamamen, Wan Nor Arifin, Nurzulaikha Abdullah, and Garry Kuan. Validation of the malay version of the recovery-stress questionnaire for athletes: Application of confirmatory factor analysis and exploratory structural equation modeling. *Asian Journal of Sport and Exercise Psychology*, volume 4, pages 65–72. Elsevier, 2024.
- 2024 Yee Cheng Kueh, Temitope Atamamen, Wan Nor Arifin, Nurzulaikha Abdullah, and Garry Kuan. Asian journal of sport and exercise psychology. *Asian Journal of Sport and Exercise Psychology*, volume 4, pages 65–72, 2024.
- 2024 Erwan Ershad Ahmad Khan, Wan Nor Arifin, and Kamarul Imran Musa. Stroke survivors' dependency level and informal caregivers' quality of life in kelantan, malaysia: Examining the mediating role of psychological distress. *Cureus*, volume 16. Cureus, 2024.
- 2024 Siti Mariam Ja'afar, Wan Nor Arifin, and Azriani Rahman. Factors associated with intention to report child abuse among early childcare providers in north-eastern preschools, malaysia. *IJUM Medical Journal Malaysia*, volume 23, 2024.
- 2024 Mohd Rujhan Hadfi Mat Daud, Nor Azwany Yaacob, Wan Nor Arifin, Jamiatul Aida Md Sani, and Wan Abdul Hannan Wan Ibadullah. Individual and contextual factors associated with measles infection in malaysia: a multilevel analysis. *Osong Public Health and Research Perspectives*, volume 15, page 429, 2024.
- 2023 Syahrul Faiz Zakaria, Mohd Nazri Shafei, Wan Nor Arifin, and Syahrul Faiz. Translation and validation of the risk perception on safety and health questionnaire among palm oil plantation workers in terengganu, malaysia. *Cureus*, volume 15. Cureus, 2023.
- 2023 Kamran Sattar, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Mohd Azhar Mohd Yasin, and Mohd Zarawi Mat Nor. A scoping review on the relationship between mental wellbeing and medical professionalism. *Medical Education Online*, volume 28, page 2165892. Taylor & Francis, 2023.
- 2023 Bachok Norsa'adah, Najib Majdi Yaacob, Sarimah Abdullah, Cheng Kueh Yee, Siti Azrin Ab Hamid, Anis Kausar Ghazali, and Wan Nor Arifin. Master of science in medical statistics programme at universiti sains malaysia: 20 years ongoing. *The Malaysian Journal of Medical Sciences: MJMS*, volume 30, page 1, 2023.
- 2023 Kamarul Imran Musa, Wan Nor Arifin Wan Mansor, and Tengku Muhammad Hanis. Data analysis in medicine and health using r. Chapman and Hall/CRC, 2023.
- 2023 Mohammad Nur Amin Kalil, Ariff Arithra Abdullah, Junainah Nor, and Wan Nor Arifin. Knowledge for awareness on early recognition of stroke among public (sktq-bm): Validation of questionnaire. *Journal of Emergency Medicine, Trauma & Acute Care*, volume 2023, page 8. HBKU Press Qatar, 2023.
- 2023 Suharzida Jusoh, Nyi Nyi Naing, Nadiah Wan-Arfah, WN Hajidah, Wan Nor Arifin, Ling Shing Wong, Sinouvassane Djearamane, Anto Cordelia Tanislaus Antony, Mohamed Saleem, and Siddharthan Selvaraj. Prevalence and factors influencing smoking behavior among female inmates in malaysia. In *Healthcare*, volume 11, page 203. MDPI, 2023.
- 2023 Tengku Muhammad Hanis, Nur Intan Raihana Ruhaiyem, Wan Nor Arifin, Juhara Haron, Wan Faiziah Wan Abdul Rahman, Rosni Abdullah, and Kamarul Imran Musa. Developing a supplementary diagnostic tool for breast cancer risk estimation using ensemble transfer learning. *Diagnostics*, volume 13, page 1780. MDPI, 2023.
- 2023 Mohammed Dauda Goni, Habsah Hasan, Nyi Nyi Naing, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, and Aisha Abubakar Baaba. Impact of a health education intervention on the incidence of influenza-like illnesses (ili) during hajj via smartphone application. *Journal of Immigrant and Minority Health*, volume 25, pages 870–881. Springer US New York, 2023.
- 2023 WN Arifin. Sample size calculator. *Computer software*]. <https://wnarifin.github.io/ssc/ssicc.html>, 2023.
- 2022 Kamran Sattar, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Mohd Azhar Mohd Yasin, and Mohd Zarawi Mat Nor. Effective coping strategies utilised by medical students for mental health disorders during undergraduate medical education-a scoping review. *BMC medical education*, volume 22, page 121. BioMed Central London, 2022.
- 2022 Kamran Sattar, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Mohd Azhar Mohd Yasin, and Mohd Zarawi Mat Nor. Correction to: Effective coping strategies utilised by medical students for mental health disorders during undergraduate medical education-a scoping review. *BMC Medical Education*, volume 22, page 164, 2022.

- 2022 Suriati Che Ros, Roslinda Isa, Rosuzeita Fauzi, Siti NorIsmalina Isa, and Wan Arifin Wan Mansor. Critical care nurses' competency in electrocardiogram interpretation: A cross-sectional study. *Malaysian Journal of Medicine & Health Sciences*, volume 18, 2022.
- 2022 Tengku Muhammad Hanis, Nur Intan Raihana Ruhaiyem, Wan Nor Arifin, Juhara Haron, Wan Faiziah Wan Abdul Rahman, Rosni Abdullah, and Kamarul Imran Musa. Over-the-counter breast cancer classification using machine learning and patient registration records. *Diagnostics*, volume 12, page 2826. MDPI, 2022.
- 2022 Tengku Muhammad Hanis, Nur Intan Raihana Ruhaiyem, Wan Nor Arifin, Juhara Haron, Wan Faiziah Wan, Abdul Rahman, Rosni Abdullah, and Kamarul Imran Musa. Developing an over-the-counter screening model for breast cancer among the asian women population. Preprints, 2022.
- 2022 Tengku Muhammad Hanis, Wan Nor Arifin, Kamarul Imran Musa, Wan Shakira Rodzlan Hasani, Che Muhammad Nur Hidayat Che Nawi, Shahnnon Anuar Shahrani, Xin Wee Chen, Mohd Azmi Suliman, Erwan Ershad Ahmad Khan, Wira Alfatah Ab Aziz, et al. Risk factors for covid-19 mortality in malaysia. *The Malaysian Journal of Medical Sciences: MJMS*, volume 29, page 123, 2022.
- 2022 Tengku Muhammad Hanis, Wan Nor Arifin, Juhara Haron, Wan Faiziah Wan Abdul Rahman, Nur Intan Raihana Ruhaiyem, Rosni Abdullah, and Kamarul Imran Musa. Factors influencing mammographic density in asian women: a retrospective cohort study in the northeast region of peninsular malaysia. *Diagnostics*, volume 12, page 860. MDPI, 2022.
- 2022 Ping Yi Chan, Zaidi Mohd Ripin, Sanihah Abdul Halim, Wan Nor Arifin, Ahmad Shukri Yahya, Gaik Bee Eow, Kenny Tan, Jyh Yung Hor, and Chee Keong Wong. Motion characteristics of subclinical tremors in parkinson's disease and normal subjects. *Scientific Reports*, volume 12, page 4021. Nature Publishing Group UK London, 2022.
- 2022 WN Arifin. Sample size calculator (web). Available from: Retrieved from <https://wnarifin.github.io/ssc/ssicc.html>, 2022.
- 2022 Wan Nor Arifin and Umi Kalsom Yusof. Partial verification bias correction using inverse probability bootstrap sampling for binary diagnostic tests. *Diagnostics*, volume 12, page 2839. MDPI, 2022.
- 2022 Wan Nor Arifin and Umi Kalsom Yusof. Correcting for partial verification bias in diagnostic accuracy studies: A tutorial using r. *Statistics in Medicine*, volume 41, pages 1709–1727, 2022.
- 2022 Wan Nor Arifin, Roslinda Isa, Jayah Kpubalan, and Fahisham Taib. Validity and reliability of a malay version of the management behaviour survey for familial caregivers among parents of asthmatic children in malaysia. *Malaysian Journal of Medicine & Health Sciences*, volume 18, 2022.
- 2022 Wan Nor Arifin. R conference 2022. 2022.
- 2022 Nurul Fateha Abd Rahman, Tuan Hairulnizam Tuan Kamauzaman, Wan Nor Arifin, and Abu Yazid Md Noh. Development and psychometric evaluation of triage questionnaire (qtrix): Exploratory factor analysis and item response theory analysis. *Hong Kong Journal of Emergency Medicine*, volume 29, pages 227–235. SAGE Publications Sage UK: London, England, 2022.
- 2021 Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Nurhanis Syazni, Siti Nurma Hanim Hadie Roslan, and Mohamad Nurman Yaman. Education in medicine journalgrows stronger and stronger! *Education in Medicine Journal*, volume 13, pages 1–2, 2021.
- 2021 Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, and Siti Nurma Hanim Hadie. Abc of questionnaire development and validation for survey research. *Education in Medicine Journal*, volume 13, 2021.
- 2021 Kamran Sattar, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Mohd Azhar Mohd Yasin, and Mohd Zarawi Mat Nor. Scoping review of frequently highlighted attributes of medical professionalism in an undergraduate medical education context. *Pakistan Journal of Medical Sciences*, volume 37, page 1221, 2021.
- 2021 CHAN PY, RIPIN ZM, et al. Motion characteristics of subclinical tremors in parkinson's disease and healthy subjects. 2021.
- 2021 Kamarul Imran Musa, Wan Nor Arifin, Mohd Hafiz Mohd, Mohammad Subhi Jamiluddin, Noor Atinah Ahmad, Xin Wee Chen, Tengku Muhammad Hanis, and Awang Bulgiba. Measuring time-varying effective reproduction numbers for covid-19 and their relationship with movement control order in malaysia. *International Journal of Environmental Research and Public Health*, volume 18, page 3273. MDPI, 2021.

- 2021 Mohamad Masykurin Mafauzy, Tuan Hairulnizam Tuan Kamauzaman, Wan Nor Arifin, Hadi Fad-hil Mat Said, Fatimah Ismail, and Mohd Najib Abdul Ghani. Psychometric evaluation of flood disaster management questionnaire: Confirmatory factor analysis and item response theory analysis. *Malaysian Journal of Public Health Medicine*, volume 21, pages 133–140, 2021.
- 2021 Bee Chiu Lim, Yee Cheng Kueh, Wan Nor Arifin, and Kok Huan Ng. Modelling knowledge, health be-liefs, and health-promoting behaviours related to cardiovascular disease prevention among malaysian university students. *PLoS One*, volume 16, page e0250627. Public Library of Science San Francisco, CA USA, 2021.
- 2021 Siti Nurma Hanim Hadie, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Fazlina Kasim, Zul Izhar Mohd Ismail, Mohd Anizam Asari, Husnaida Abdul Manan@ Sulong, Asma’ Hassan, Tg Fatimah Murniwati Tg Muda, Yasrul Izad Abu Bakar, et al. Anatomy education environment measurement inventory (aeemi): a cross-validation study in malaysian medical schools. *BMC Medical Education*, volume 21, page 50. BioMed Central London, 2021.
- 2021 Siti Nurma Hanim Hadie, Muhamad Saiful Bahri Yusoff, Wan Nor Arifin, Zul Izhar Mohd Ismail Fazlina Kasim, Husnaida Abdul Manan Mohd Anizam Asari, Asma’Hassan Sulong, Yasrul Tg Fatimah Murniwati Tg Muda, Rasheeda Mohd Zamin Izad Abu Bakar, Elvy Suhana Mohd Ramli, Saiful Bahri Talip Rafidah Hod, et al. Additional file 1 of anatomy education environment measurement inventory (aeemi): a cross-validation study in malaysian medical schools. (*No Title*). figshare, 2021.
- 2021 Mohammed Dauda Goni, Nyi Nyi Naing, Habsah Hasan, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, Aisha Abubakar Baaba, Babagana Mohammed Adam, and Muhammad Rafie Arshad. Effectiveness of a novel smartphone health education intervention in enhancing knowledge, attitudes, and practices for the prevention of respiratory tract infections among private hajj pilgrims from malaysia. *Frontiers in Public Health*, volume 9, page 594204. Frontiers Media SA, 2021.
- 2021 Mohammed Dauda Goni, Habsah Hasan, Zakuan Zainy Deris, Wan Nor Arifin, and Aisha Abubakar Baaba. Hajj pilgrimage amidst covid-19 pandemic: a review. *Bangladesh Journal of Medical Science*, volume 20, pages 732–740, 2021.
- 2021 PING YI CHAN, ZAIDI MOHD RIPIN, Saniah Abdul Halim, Wan Nor Arifin, Ahmad Shukri Yahya, Gaik Bee Eow, and Kenny TAN. Motion characteristics of subclinical tremors in parkinson’s disease and healthy subjects. 2021.
- 2021 Wan Nor Arifin, Kamarul Imran Musa, Tengku Muhammad Hanis, Wan Shakira Rodzlan Hasani, Che Muhammad Nur Hidayat Che Naw, Erwan Ershad Ahmad Khan, Mohd Azmi Suliman, Sahrol Azmi Termizi, and Wira Alfatah Ab Aziz. A brief analysis of the covid-19 death data in malaysia. *MedRxiv*, pages 2021–09. Cold Spring Harbor Laboratory Press, 2021.
- 2021 Wan Nor Arifin. A web-based sample size calculator for structural equation modeling in psychological research. In *3rd Biennial International Psychology Conference*, 2021.
- 2020 Abdulwali Sabo, Yee Cheng Kueh, Wan Nor Arifin, YoungHo Kim, and Garry Kuan. The validity and reliability of the malay version of the social support for exercise and physical environment for physical activity scales. *PloS one*, volume 15, page e0239725. Public Library of Science San Francisco, CA USA, 2020.
- 2020 Muhammad Zulkefli Ramlay, Norkhafizah Saddki, Mon Mon Tin-Oo, and Wan Nor Arifin. Cross-cultural adaptation and validation of oral health literacy instrument (ohli) for malaysian adults. *International Journal of Environmental Research and Public Health*, volume 17, page 5407. MDPI, 2020.
- 2020 Suan Mei Ong, Wan Nor Arifin, Najib Majdi Yaacob, and Nyi Nyi Naing. An easy-to-use com-puter program for standardisation methods of population morbidity data. *International Journal of Computing Science and Mathematics*, volume 11, pages 40–53. Inderscience Publishers (IEL), 2020.
- 2020 Wan Mohd Zahiruddin Wan Mohammad, Wan Nor Arifin Wan Mansor, Noor Aman A Hamid, Suri-anti Sukeri, Habsah Hasan, Lee Yeong Yeh, Alwi Muhd Besari, Nani Draman, Rosnani Zakaria, and Zeehaida Mohamed. Effectiveness of community-based health education on preparedness for flood-related communicable diseases in kelantan. *Malaysian Journal of Public Health Medicine*, volume 20, pages 117–124, 2020.
- 2020 Kien Ting Liu, Yee Cheng Kueh, Wan Nor Arifin, Mohd Ismail Ibrahim, Mohd Nazri Shafei, and Garry Kuan. Psychometric properties of the decisional balance scale: a confirmatory study on malaysian university students. *International Journal of Environmental Research and Public Health*, volume 17, page 2748. MDPI, 2020.

- 2020 Muhammad Izzad Johari, Khairiah Yusoff, Juhara Haron, Chandran Nadarajan, Khairun Nisah Ibrahim, Mung Seong Wong, Muhammad Ilham Abdul Hafidz, Bee Eng Chua, Nurhazwani Hamid, Wan Nor Arifin, et al. Author correction: a randomised controlled trial on the effectiveness and adherence of modified alternate-day calorie restriction in improving activity of non-alcoholic fatty liver disease. *Scientific Reports*, volume 10, page 10599. Nature Publishing Group UK London, 2020.
- 2020 Aizuddin Bin Hidrus, Yee Cheng Kueh, Wan Nor Arifin, Erkut Konter, and Garry Kuan. Sports courage in malaysian silat athletes: Confirmatory factor analysis of the malay language version. *International Journal of Environmental Research and Public Health*, volume 17, page 1736. MDPI, 2020.
- 2020 Siti Rubiahtul Hassim, Wan Nor Arifin, Yee Cheng Kueh, and Nor Azwany Yaacob. Confirmatory factor analysis of the malay version of the smartphone addiction scale among medical students in malaysia. *International journal of environmental research and public health*, volume 17, page 3820, 2020.
- 2020 Mohammed Dauda Goni, Nyi Nyi Naing, Habsah Hasan, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, Tengku Mohammad Ariff Raja Hussin, Abdulwali Sabo Abdulrahman, Aisha Abubakar Baaba, and Muhammad Rafie Arshad. Development and validation of knowledge, attitude and practice questionnaire for prevention of respiratory tract infections among malaysian hajj pilgrims. *BMC public health*, volume 20, page 189. BioMed Central London, 2020.
- 2020 Mohammed Dauda Goni, Nyi Nyi Naing, Habsah Hasan, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, Aisha Abubakar Baaba, and Stanley Njaka. A confirmatory factor analysis of the knowledge, attitude and practice questionnaire towards prevention of respiratory tract infections during hajj and umrah. *BMC Public Health*, volume 20, page 1684. BioMed Central London, 2020.
- 2020 Mohammed Dauda Goni, Nyi Nyi Naing, Habsah Hasan, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, and Aisha Abubakar Baaba. Impact of a smartphone-based health education intervention in reducing the incidence of influenza-like illnesses (ili) during hajj. 2020.
- 2020 Mohammed Dauda Goni, Habsah Hasan, Nadiah Wan-Arfah, Nyi Nyi Naing, Zakuan Zainy Deris, Wan Nor Arifin, Aisha Abubakar Baaba, Abdulwahab Aliyu, and Babagana Mohammed Adam. Health education intervention as an effective means for prevention of respiratory infections among hajj pilgrims: a review. *Frontiers in Public Health*, volume 8, page 449. Frontiers Media SA, 2020.
- 2020 Wan Nor Arifin, Weng Howe Chan, Safiya Amaran, and Kamarul Imran Musa. A susceptible-infected-removed (sir) model of covid-19 epidemic trend in malaysia under movement control order (mco) using a data fitting approach. *medrxiv*, pages 2020–05. Cold Spring Harbor Laboratory Press, 2020.
- 2020 Muhammad Imran Ahmad, Ramzuzaman Ismail, Wan Nor Arifin, Nur Amirah Md Noordin, et al. Sexual assault: A descriptive study of victims attending a public hospital in ipoh. *Malaysian Journal of Medicine & Health Sciences*, volume 16, 2020.
- 2020 Azriani Ab Rahman, Mohd Ismail Ibrahim, Razlina Abdul Rahman, Wan Nor Arifin, and Mokhtar-rudin Ahmad. Development and validation of a malay version of the questionnaire on pornography attitudes and exposure for youth in kelantan. *The Malaysian Journal of Medical Sciences: MJMS*, volume 27, page 129, 2020.
- 2020 Ahmad Shahril Ab Halim, Azizah Othman, Sharifah Zubaidiah Syed Jaapar, Azidah Abdul Kadir, Juwita Shaaban, Norzila Zakaria, Mohd Azhar Mohd Yasin, Azwany Yaacob, Wan Nor Arifin, and Asrenee Ab Razak. Validation of the malay version of impact of event scale-revised (ies-r) among flood disaster victims in malaysia. *Malaysian Journal of Psychiatry*, volume 29, pages 58–72. Medknow, 2020.
- 2019 Ahmad Badruridzwanullah Zun, Mohd Ismail Ibrahim, Ariffin Marzuki Mokhtar, Ahmad Sukari Halim, and Wan Nor Arifin Wan Mansor. Translation, cross-cultural adaptation, and validation of the hospital consumer assessment of healthcare providers and systems (hcahps) into the malay language. *International Journal of Environmental Research and Public Health*, volume 16, page 2054. MDPI, 2019.
- 2019 Najihah Mahfuzah Zakria, Tengku Alina Tengku Ismail, Wan Nor Arifin Wan Mansor, and Zaharah Sulaiman. Validation of infant and young child feeding questionnaire for the assessment of knowledge, attitudes and practices among child care providers: the icyf-ccpq. *International Journal of Environmental Research and Public Health*, volume 16, page 2147. MDPI, 2019.

- 2019 Zaidatul Zarina Mohd Zahidi, Sharifah Zubaidiah Syed Jaapar, Asrene Ab Razak, Mohd Azhar Mohd Yasin, Nor Asyikin Fadzil, Raishan Shafini Bakar, Wan Nor Arifin Wan Mansor, Yee Cheng Kueh, Azidah Abdul Kadir, Juwita Shaaban, et al. Validation of malay emotion thermometer (met) among adult victims involved in flood disaster. *International Medical Journal*, volume 26, pages 24–27, 2019.
- 2019 LIU Kien Ting, Garry Kuan, Wan Nor Arifin, and KUEH Yee Cheng. Psychometric properties of the self-efficacy scale among undergraduate students in malaysia. *The Malaysian Journal of Medical Sciences: MJMS*, volume 26, page 119, 2019.
- 2019 Nik Aida Nik Adib, Mohd Ismail Ibrahim, Azriani Ab Rahman, Raishan Shafini Bakar, Nor Azni Yahaya, Suria Hussin, and Wan Nor Arifin Wan Mansor. Predictors of caregivers' satisfaction with the management of children with autism spectrum disorder: A study at multiple levels of health care. *International Journal of Environmental Research and Public Health*, volume 16, page 1684. MDPI, 2019.
- 2019 Nik Aida Nik Adib, Mohd Ismail Ibrahim, Azriani Ab Rahman, Raishan Shafini Bakar, Nor Azni Yahaya, Suria Hussin, and Wan Nor Arifin Wan Mansor. Perceived stress among caregivers of children with autism spectrum disorder: A state-wide study. *International journal of environmental research and public health*, volume 16, page 1468. MDPI, 2019.
- 2019 Muhammad Izzad Johari, Khairiah Yusoff, Juhara Haron, Chandran Nadarajan, Khairun Nisah Ibrahim, Mung Seong Wong, Muhammad Ilham Abdul Hafidz, Bee Eng Chua, Nurhazwani Hamid, Wan Nor Arifin, et al. A randomised controlled trial on the effectiveness and adherence of modified alternate-day calorie restriction in improving activity of non-alcoholic fatty liver disease. *Scientific Reports*, volume 9, page 11232. Nature Publishing Group UK London, 2019.
- 2019 Mohammed Dauda Goni, Nyi Nyi Naing, Habsah Hasan, Nadiah Wan-Arfah, Zakuan Zainy Deris, Wan Nor Arifin, and Aisha Abubakar Baaba. Uptake of recommended vaccines and its associated factors among malaysian pilgrims during hajj and umrah 2018. *Frontiers in public health*, volume 7, page 268. Frontiers Media SA, 2019.
- 2019 Mohammed Dauda Goni, Habsah Hasan, Nyi Nyi Naing, Nadiah Wan-Arfah, Zakuan Zeiny Deris, Wan Nor Arifin, and Aisha Abubakar Baaba. Assessment of knowledge, attitude and practice towards prevention of respiratory tract infections among hajj and umrah pilgrims from malaysia in 2018. *International journal of environmental research and public health*, volume 16, page 4569. MDPI, 2019.
- 2019 Ping Yi Chan, Zaidi Mohd Ripin, Sanisah Abdul Halim, Muhammad Imran Kamarudin, Kwang Sheng Ng, Gaik Bee Eow, Kenny Tan, Chun Fai Cheah, Linda Then, Nelson Soong, et al. Biomechanical system versus observational rating scale for parkinson's disease tremor assessment. *Scientific Reports*, volume 9, page 8117. Nature Publishing Group UK London, 2019.
- 2019 Wan Nor Arifin. More validity evidence, please! *Education in Medicine Journal*, volume 11, pages 1–2, 2019.
- 2019 Nurul Munirah Abdullah, Wan Mohd Zahiruddin Wan Mohammad, Mohd Nazri Shafei, Surianti Sukeri, Zawaha Idris, Wan Nor Arifin, Noramira Nozmi, Siti Nor Sakinah Saudi, Suhailah Samsudin, Abdul-Wahab Zainudin, et al. Leptospirosis and its prevention: knowledge, attitude and practice of urban community in selangor, malaysia. *BMC public health*, volume 19, page 628. BioMed Central London, 2019.
- 2018 Wan Mohd Zahiruddin, Wan Nor Arifin, Shafei Mohd-Nazri, Surianti Sukeri, Idris Zawaha, Rahman Abu Bakar, Rukman Awang Hamat, Osman Malina, Tengku Zetty Maztura Tengku Jamaludin, Arumugam Pathman, et al. Development and validation of a new knowledge, attitude, belief and practice questionnaire on leptospirosis in malaysia. *BMC Public Health*, volume 18, page 331. BioMed Central London, 2018.
- 2018 Nasir Yusoff, NN Anuar, Wan Nor Arifin, Tahamina Begum, and Faruque Reza. Emotional arousal substrate in relation to eysenck theory of extraversion. *International Journal of Engineering and Technology (UAE)*, volume 7, pages 14–20, 2018.
- 2018 Noramira Nozmi, Suhailah Samsudin, Surianti Sukeri, Mohd Nazri Shafei, Wan Mohd Zahiruddin Wan Mohd, Zawaha Idris, Wan Nor Arifin, Norazlin Idris, Siti Nor Sakinah Saudi, Nurul Munirah Abdullah, et al. Low levels of knowledge, attitudes and preventive practices on leptospirosis among a rural community in hulu langat district, selangor, malaysia. *International journal of environmental research and public health*, volume 15, page 693. MDPI, 2018.

- 2018 Nik Aida Nik Adib, Mohd Ismail Ibrahim, Azriani Ab Rahman, Raishan Shafini Bakar, Nor Azni Yahaya, Suria Hussin, and Wan Nor Arifin. Translation and validation of the malay version of the parents' satisfaction scale (pss-m) for assessment of caregivers' satisfaction with health care services for children with autism spectrum disorder. *International journal of environmental research and public health*, volume 15, page 2455. MDPI, 2018.
- 2018 Nor Asiah Muhamad, Omar Mihat, Rushidi Ramly, Aniza Abdul Aziz, Rozanim Kamaruddin, Wan Nor Arifin Wan Mansor, Noor Hashimah Abdullah, Mohd Arif Mohd Noor, Rohaida Ismail, Widya As-trina Wisman, et al. Translation, cross-cultural adaptation, reliability and validity of the malay version of alcohol, smoking and substance involvement screening test (assist) v3. 1. *Health*, volume 10, page 985. Scientific Research Publishing, 2018.
- 2018 Kien Ting Liu, Yee Cheng Kueh, Wan Nor Arifin, Youngho Kim, and Garry Kuan. Application of transtheoretical model on behavioral changes, and amount of physical activity among university's students. *Frontiers in psychology*, volume 9, page 2402. Frontiers Media SA, 2018.
- 2018 Tengku Alina Tengku Ismail, Rohana Abdul Jalil, Wan Rosli Wan Ishak, Noor Fadzlina Hamid, Wan Suriati Wan Nik, Hamid Jan Jan Mohamed, Nor Haslina Mohd, Wan Nor Arifin, Wan Mohd Izani Wan Mohamed, Mohd Ismail Ibrahim, et al. Understanding dieting and previous weight loss attempts among overweight and obese participants: insights into my body is fit and fabulous at work program. *Korean journal of family medicine*, volume 39, page 15, 2018.
- 2018 Hazwan Mat Din, Wan Nor Arifin, Sarimah Abdullah, Muhammad Saiful Bahri Yusoff, and Aniza Abd Aziz. The internal structure of new attitudes towards statistics inventory among postgraduate students in medical and health sciences. *Education in Medicine Journal*, volume 10, 2018.
- 2018 IZYAN HAZWANI Baharuddin, Wan Nor Arifin, Yee Cheng Kueh, and NORMASTURA Abd Rahman. Adaptation and validation of the malay version of the index of dental anxiety and fear (idaf-4c+) for malaysian secondary school children. *The Malaysian Journal of Medical Sciences: MJMS*, volume 25, page 111, 2018.
- 2018 Wan Nor Arifin. A web-based sample size calculator for reliability studies. *Education in medicine journal*, volume 10, 2018.
- 2018 Wan Nor Arifin. Calculating the cronbach's alpha coefficients for measurement scales with" not applicable" option. *Preprint*, pages 1–8, 2018.
- 2018 NF Ab Rashid, WN Arifin, YC Kueh, and N Yusoff. Translation and validity of the malay version of the five-factor nonverbal personality questionnaire (ffnpq). *IIUM Medical Journal Malaysia*, volume 17, 2018.
- 2017 Tan Sin Yew, Mohd Yusof Sidek, Rohana Abdul Jalil, and Wan Nor Arifin. Confirmatory factor analysis of the malay version of utrecht work engagement scale (uwes-m). *International Journal of Public Health and Clinical Sciences*, volume 4, pages 77–86, 2017.
- 2017 Siti Nurma Hanim Hadie, Asma' Hassan, Zul Izhar Mohd Ismail, Mohd Asnizam Asari, Aai-jaz Ahmed Khan, Fazlina Kasim, Nurul Aiman Mohd Yusof, Husnaida Abdul Manan@ Sulong, Tg Fatimah Murniwati Tg Muda, Wan Nor Arifin, et al. Anatomy education environment measurement inventory: A valid tool to measure the anatomy learning environment. *Anatomical sciences education*, volume 10, pages 423–432, 2017.
- 2017 Wan Nor Arifin and Wan Mohd Zahiruddin. Sample size calculation in animal studies using resource equation approach. *The Malaysian journal of medical sciences: MJMS*, volume 24, page 101, 2017.
- 2017 Wan Nor Arifin and Muhamad Saiful Bahri Yusoff. Item response theory for medical educationists. *Education in Medicine Journal*, volume 9, 2017.
- 2017 Wan Nor Arifin, Z Izani Uzair, I Mohd Ismail, and S Mohd Nazri. Validity of backs tool in assessing low back pain among nurses in malaysia. In *Proceedings of the 9th World Conference on Educational Sciences, Nice, France*, pages 1–4, 2017.
- 2016 Z Zunura'in, AR Ainaa Almardhiyah, SH Gan, Wan N Arifin, KNS Sirajudeen, VMK Bhavaraju, Suzana Shahar, and JM Hamid Jan. Anthropometric and reproductive factors among newly-diagnosed breast cancer patients and healthy women: a case-control study. *Asian Pacific Journal of Cancer Prevention*, volume 17, pages 4439–4444. West Asia Organization for Cancer Prevention (WAOCP), 2016.

- 2016 Suan Mei Ong, Najib Majdi Yaacob, Wan Nor Arifin, Muhammad Radzi Abu Hassan, and Nyi Nyi Naing. Comparison of tb-hiv coinfection standardised morbidity rates in malaysia using direct standardisation method. *ARPJ Journal of Engineering and Applied Sciences*, volume 11, pages 10368–10373. Asian Research Publishing Network (ARPJ), 2016.
- 2016 Siti Nur-Fariza, Wan Nor Arifin, Muhamad Saiful Bahri Yusoff, Nor Azwany Yaacob, et al. A confirmatory factor analysis of usm personality inventory (usmap-i) among medical degree program applicants in universiti sains malaysia. *Education in Medicine Journal*, volume 8, 2016.
- 2016 Bee Chiu Lim, Yee Cheng Kueh, Wan Nor Arifin, and Kok Huan Ng. Validation of health promoting lifestyle profile-ii: A confirmatory study with a malaysian undergraduate students sample. *Education in Medicine Journal*, volume 8, 2016.
- 2016 Bee Chiu Lim, Yee Cheng Kueh, Wan Nor Arifin, and Kok Huan Ng. Psychometric properties of the heart disease knowledge scale: Evidence from item and confirmatory factor analyses. *The Malaysian journal of medical sciences: MJMS*, volume 23, page 33, 2016.
- 2016 Abdul Ghani, T Th, W Arifin, and K Chew. Development and psychometric evaluation of flood disaster management questionnaire-(floodmq-bm): Exploratory factor analysis and item response theory analysis. *International Journal of Public Health and Clinical Sciences*, volume 3, pages 59–70, 2016.
- 2016 Xinwee Chen, Wan N Arifin, Nani Draman, Nadiah Wan-Arfah, Muhammad I Ajalal, Han H Chen, and Nyi N Naing. A placebo-controlled trial of ‘one-minute qigong exercise’ on the reduction of blood pressure among patients with essential hypertension. *Focus on Alternative and Complementary Therapies*, volume 21, pages 82–88, 2016.
- 2016 Wan Nor Arifin and Muhamad Saiful Bahri Yusoff. Confirmatory factor analysis of the universiti sains malaysia emotional quotient inventory among medical students in malaysia. *Sage Open*, volume 6, page 2158244016650240. SAGE Publications Sage CA: Los Angeles, CA, 2016.
- 2016 Wan Nor Arifin, Abdullah Sarimah, Bachok Norsahadah, Yaacob Najib Majdi, Ab Hamid Siti-Azrin, Musa Kamarul Imran, Abd Aziz Aniza, and Lin Naing. Reporting statistical results in medical journals. *The Malaysian journal of medical sciences: MJMS*, volume 23, page 1, 2016.
- 2015 Muhamad SB Yusoff and Wan N Arifin. Educational environment and psychological distress of medical students: The role of a deep learning approach. *Journal of Taibah University Medical Sciences*, volume 10, pages 411–418. Elsevier, 2015.
- 2015 Lim Bee Chiu, Kueh Yee-Cheng, Wan Nor Arifin, and Ng Kok Huan. A confirmatory factor analysis of the health beliefs related to cardiovascular disease scale among malaysian undergraduate university students. In *E-Proceeding of the International Conference on Social Science Research, ICSSR 2015*, pages 330–339. <http://WorldConferences.net>, 2015.
- 2015 Izyan Hazwani Baharuddin, Wan Nor Arifin, Kueh Yee-Cheng, and Normastura Abd Rahman. An exploratory factor analysis of the malay translated version of the index of dental anxiety and fear questionnaire (idaf-4c+) anxiety and fear module among secondary school children in negeri sembilan. In *E-Proceeding of the International Conference on Social Science Research, ICSSR 2015*, pages 351–358. <http://WorldConferences.net>, 2015.
- 2015 Wan Nor Arifin, Mohamad Saiful Bahri Yusoff, Aniza Abd Aziz, Hazwan Mat Din, and Sarimah Abdullah. Development of a new inventory of attitude towards statistics among postgraduate students. In *The Asian Conference on Education 2014: Official Conference Proceedings*, pages 577–584. The International Academic Forum (IAFOR), 2015.
- 2015 Wan Nor Arifin. The graphical assessment of multivariate normality using spss. *Education in Medicine Journal*, volume 7, pages e71–e75. Medical Education Department, School of Medical Sciences, Universiti Sains ..., 2015.
- 2014 Siti Nurma Hanim Hadie, Asma Hassan, Zul Izhar Mohd Ismail, Mohd Asnizam Asari, Aaijaz Ahmed Khan, Fazlina Kasim, Nurul Aiman Mohd Yusof, Husnaida Abdul Manan, Tengku Fatimah Murni-wati Tengku Muda, Wan Nor Arifin, et al. Developing constructs of anatomy education environment measurement: A delphi study. *Procedia-Social and Behavioral Sciences*, volume 116, pages 4219–4223. Elsevier, 2014.
- 2014 Tengku Ahmad Damitri Al-Astani Tengku Din, Shazana Hilda Shamsuddin, Fauziah Mohamad Idris, Wan Nor Ariffin Wan Mansor, Muhammad Irfan Abdul Jalal, and Hasnan Jaafar. Rapamycin and pf4 induce apoptosis by upregulating bax and down-regulating survivin in mnu-induced breast cancer. *Asian Pac J Cancer Prev*, volume 15, pages 3939–3944, 2014.

- 2014 Wan Nor Arifin. Calculating standard deviation of difference for determination of sample size for planned paired t-test analysis. *Education in Medicine Journal*, volume 6, 2014.
- 2013 Muhamad Saiful Bahri Yusoff, Rogayah Ja'afar, Hafiza Arzuman, Wan Nor Arifin, and Mohamad Najib Mat Pa. Perceptions of medical students regarding educational climate at different phases of medical training in a malaysian medical school. *Education in Medicine Journal*, volume 5, 2013.
- 2013 Siti Nurma Hanim Hadie, Asma' Hassan, Zul Izhar Mohd Ismail, Mohd Asnizam Asari, Aaijaz Ahmed Khan, Fazlina Kasim, Nurul Aiman Mohd Yusof, Husnaida Abdul Manan, Tg Fatimah Murniwati Tg Muda, Wan Nor Arifin Wan Mansor, et al. The need to have a valid and reliable tool to measure the anatomy education environment. *Education in Medicine Journal*, volume 5, pages 81–85. Medical Education Department, School of Medical Sciences, Universiti Sains ..., 2013.
- 2013 Roohallah Bay, Shaiful Bahari Ismail, Wan Mohd Zahiruddin, and Wan Nor Arifin. Effect of combined psycho-physiological stretching and breathing therapy on sexual satisfaction. *BMC urology*, volume 13, page 16. BioMed Central London, 2013.
- 2013 Wan Nor Arifin. Introduction to sample size calculation. *Education in Medicine Journal*, volume 5, 2013.
- 2013 Aniza Abd Aziz, Wan Nor Arifin, Siti Nor Ismalina Isa, Norsa'adah Bachok, Sarimah Abdullah, and Nyi Nyi Naing. Structural equation modeling (sem) workshop for lecturers and postgraduate students. *Education in Medicine Journal*, volume 5, 2013.
- 2012 Wan Nor Arifin, Muhamad Saiful Bahri Yusoff, and Nyi Nyi Naing. Confirmatory factor analysis (cfa) of usm emotional quotient inventory (usmeq-i) among medical degree program applicants in universiti sains malaysia (usm). *Education in Medicine Journal*, volume 4, 2012.
- 2012 Wan Nor Arifin. Random sampling and allocation using spss. *Education in Medicine Journal*, volume 4, 2012.
- 2012 Wan Nor Arifin. Educational resource. *Education in Medicine Journal*, volume 4, 2012.
- 2011 Wan Nor Arifin, Wan Arfah Nadiah, Muhammad Irfan, Nani Draman, et al. Intraclass correlation in practice: Assessment of reliability of manual blood pressure measurement among assessors in a clinical trial. *Education in Medicine Journal*, volume 3, 2011.
- 2011 Wan Nor Arifin. Creating artificial data for teaching of statistics. *Education in Medicine Journal*, volume 3, 2011.