

ASRUL AKMAL SHAFIE

BPharm (Hons) (USM), Pg Dip Health Econ (Trefforest), PhD (Cardiff), FISPOR, RPh (Malaysia)
DISCIPLINE OF SOCIAL AND ADMINISTRATIVE PHARMACY
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Name	Asrul Akmal Shafie	
Date of Birth	29 th December 1978	
Place of Birth	Kelantan, MALAYSIA	
Identification	781229035741	

CURRENT POSITION

Associate Professor in Discipline of Social and Administrative Pharmacy, School of Pharmaceutical Science, Universiti Sains Malaysia.

Adjunct Associate Professor in Health Economics, School of Pharmacy, Monash University.

SUMMARY

Asrul Akmal Shafie BPharm, PG Dip Health Econ, PhD is a registered pharmacist in Malaysia since 2001. His research interests are in the application of economic evaluation in pharmaceutical services and product, and pharmacy practice. He is now leading and co-investigating a number of researches in pharmacy practice, PRO instrument validation and valuation, and health technology assessment where he has published peer reviewed journal articles/abstracts in various international journals including *Value in Health*, *Social Science & Medicine*, *Quality of Life Research*, *BMC Public Health* and *Pharmacoeconomics*, and six books/monographs. He regularly reviewed manuscripts for international and local publications including *British Medical Journal*, *Bulletin WHO* and *Value in Health*. He is the Editor-in-Chief for the Malaysian Journal of Pharmacy, and member of editorial board for *Pharmacoeconomics* and *Value in Health Asian Region* journal. He was invited to speak in various international and domestic scientific events in UK, US, South Korea, Indonesia, Japan, China, Thailand and Singapore. He is also an appointed expert member for the *UK National Institute for Health Research Committee*, *Malaysia Health Technology Assessment Agency (MaHTAS)*, *Malaysia Pharmacoeconomic Guidelines Development Committee*, *Malaysia National Medicine Policy Steering Committee*, *Ministry of Health's Quality Use of Medicine Committee*, *Malaysia Health Promotion Board*, *Institute of Health Service Research*, *Malaysia Pharmacy Advisory Board* and *Malaysia Pharmacoeconomic Technical Committee*. He plays an active and vital role in professional societies and previously served as the Chair-Elect for *ISPOR Good Outcomes Research Practices & Publications Committee*, Co-editor for *ISPOR News Across Asia*, and Chairman for *Malaysian Pharmaceutical Society (Penang Branch)*. He is currently the Board Member for HTAsiaLink Network, core member of ISPOR Code of Ethics Task Force and Co-Chair for the Science Leadership Committee in Young Scientist Network – Academy of Sciences Malaysia. He is the recipient of the prestigious International Fellowship for *International Society of Pharmacoeconomics and Outcomes Research*, Young Scientists for the Academy of Sciences Malaysia and Cancer Research Award by the Cancer Council Malaysia. At present, Dr Asrul is an Associate Professor in social and administrative pharmacy in Universiti Sains Malaysia, where he teaches pharmacoeconomic, statistic and

epidemiology to both undergraduates and postgraduates in the university and four other local institutions.

AREA OF INTEREST

Summary

Health economics particularly the use of generalized linear mixed model (GLMM) statistical methods for assessing cost and cost-effectiveness, the use of Markov modelling for making treatment decisions and guiding policy; quality of life assessment; pharmacoepidemiology; and pharmacy practice.

Statistical Interest

Survival analysis, multilevel model, Markov model

Research Software Experience

SPSS, Stata, Treeage Pro, Microsoft Office Access, Microsoft Office Excel, Endnote.

EDUCATION

Professional qualifications, degrees, diplomas

QUALIFICATION	INSTITUTION	YEAR
PhD for thesis titled, "Economic evaluation of initial HAART regimen for HIV patients."	Cardiff University, UNITED KINGDOM	2007
Postgraduate Diploma in Health Economics	University of Glamorgan, Wales, UNITED KINGDOM	2005
Registered Pharmacist	Malaysia Pharmacy Board, MALAYSIA	2002 to date
Bachelor of Pharmacy (Hons)	Universiti Sains Malaysia, Penang, MALAYSIA	2001

Additional Certified Courses

COURSE TITLE	INSTITUTION	PLACE	DATE
Cost Estimation and Assessing Financial (Budget) Impact of New Health Care Technologies	International Society of Pharmacoeconomics and Outcomes Research	Madrid, Spain	5 - 8 November 2011
Advanced Retrospective Database Analysis: Econometric Methods	International Society of Pharmacoeconomics and Outcomes Research	Madrid, Spain	5 - 8 November 2011
Introduction to Design & Analysis of CE Studies Using Retrospective Database	International Society of Pharmacoeconomics and Outcomes Research	Madrid, Spain	5 - 8 November 2011
Statistical Methods for Pharmacoeconomics & Outcomes Research	International Society of Pharmacoeconomics and Outcomes Research	Prague, Czech	6 - 9th November 2010
Pharmacoeconomics Modeling - Applications	International Society of Pharmacoeconomics and Outcomes Research	Prague, Czech	6 - 9th November 2010
Advanced Patient-Reported Outcome	International Society of Pharmacoeconomics and Outcomes Research	Prague, Czech	6 - 9th November 2010

Assessment: Psychometric Methods	Outcomes Research		
Advanced Modeling Methods for Economic Evaluation Course	University of Glasgow	Glasgow, UK	15 – 17 th September 2008
Teaching and Learning	Universiti Sains Malaysia	Penang, Malaysia	6 – 15 th May 2008
Good Clinical Practice Workshop	Clinical Research Centre	Penang, Malaysia	23 – 25 th April 2008
Transferability of Cost-Effectiveness Data between Countries	International Society of Pharmacoeconomics and Outcomes Research	Florence, Italy	6 th November 2005
Pharmacoeconomic Modeling	International Society of Pharmacoeconomics and Outcomes Research	Florence, Italy	5 th November 2005
Analysis and Interpretation of Quality of Life/Patient-Reported Outcomes	International Society of Pharmacoeconomics and Outcomes Research	Florence, Italy	5 th November 2005
Utility Approach to the Assessment of HRQoL	International Society of Quality of Life	San Francisco, USA	18 th October 2005
Symptom Measurement: Methods and Utilization	International Society of Quality of Life	San Francisco, USA	18 th October 2005

Honors or Awards

1. Award's Name: Sijil Perkhidmatan Cemerlang. Date: 2000. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
2. Award's Name: Commended Poster Award. Date: 2005. Level: International. Awarding Body: The Royal Pharmaceutical Society of Great Britain. Country: United Kingdom
3. Award's Name: Sijil Perkhidmatan Cemerlang. Date: 2008. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
4. Award's Name: WHO - HTAi Travel Grant Award. Date: 2010. Level: International. Awarding Body: World Health Organization. Country: Switzerland
These grants are intended to provide financial support to recognized individuals from low and middle income countries to attend the HTAi Annual Meeting.
5. Award's Name: Anugerah Sanggar Sanjung 2009 (Excellence Award in Journal Publication Category). Date: 19 March 2010. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
Awarded to recognize outstanding publication in top 15% ISI cited journals.
6. Award's Name: Hadiah Sanjungan 2009 (Excellence Prize in Journal Publication Category). Date: 19 March 2010. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
Awarded to recognize outstanding publication in ISI cited journals.
7. Award's Name: Hadiah Sanjungan 2010 (Excellence Prize in Journal Publication Category). Date: 17 Mac 2011. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
8. Award's Name: 1st Prize Paper Presentation Award for paper entitled 'Should Malaysia separate dispensing role from doctors?' in the 10th Asia Pacific Pharmaceutical Symposium. Date: 2 – 8th July 2011. Level: International. Awarding Body: International Pharmaceutical Students' Federation. Venue: Indonesia.
9. Award's Name: Best Oral Presentation Award for paper entitled 'The role of medication beliefs in adherence among diabetic patients: a cross-sectional study' in the Diabetes Asia 2011 Conference. Date: 6 – 9th October 2011. Level: International. Awarding Body: National Diabetes Institute. Venue: Malaysia.

10. Award's Name: Anugerah Sanggar Sanjung 2011 (Excellence Award in Journal Publication Category). Date: 10 July 2012. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
11. Award's Name: Hadiah Sanjungan 2011 (Excellence Prize in Journal Publication Category). Date: 10 July 2012. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
12. Award's Name: ISPOR International Fellowship Award. Awarding Organization: International Society of Pharmacoeconomics & Outcomes Research. Date Awarded: 3 June 2010. Duration: 2 years.
A prestigious award that recognizes key individuals who contribute to the development of pharmacoeconomics and outcomes research (POR) or the use of outcomes research in health care decision making in the country/region.
13. Award's Name: 1st Place Poster Presentation Competition for paper entitled 'Assessment of the Psychometric Properties of the EQ-5D in Opiate-Dependent Patients' in the Kedah Research Day 2012. Date: 2012. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia
14. Award's Name: 3rd Prize Poster Presentation Award for paper entitled 'Economic Evaluation of Methadone Maintenance Therapy and Long-term Residential Treatment Program for Drug Abuse Patients' in the 6th National Conference for Clinical Research. Date: 26 - 28 Sept 2012. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia
15. Award's Name: Anugerah Sanggar Sanjung 2012 (Excellence in Journal Publication Category). Date: 18 September 2013. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
16. Award's Name: 1st Prize Presentation Award (Economic Evaluation) for paper entitled 'Economic evaluation of asthma management on asthma patients: a systematic review' in the 2nd HTAsiaLink. Date: 13 - 15th May 2013. Level: International. Awarding Body: HTAsiaLink. Country: Malaysia
17. Award's Name: 1st Prize Poster Presentation Award for paper entitled Exploring willingness-to-pay for a Quality-Adjusted-Life-Year in Malaysia' in the 1st National Conference on Quality Use of Medicines. Date: 1 - 3rd July 2013. Level: National. Awarding Body: Pharmaceutical Services Division. Country: Malaysia
18. Award's Name: 1st Prize Young Investigators Award for paper entitled 'Determination of cost-effectiveness threshold for Malaysia' in the 8th National Conference for Clinical Research. Date: 30th September – 2nd October 2014. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia.
19. Award's Name: Shortlisted for Merdeka Award Grant for International Attachment. Date: 7th April 2014. Level: National. Awarding Body: Merdeka Award Trust. Country: Malaysia.
20. Award's Name: Anugerah Sanggar Sanjung 2013 (Excellence in Journal Publication Category). Date: 3 November 2014. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
21. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Systematic review of factors affecting pharmaceutical expenditures. Health Policy. 2014;116(2-3):137-46'. Date: 16 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
22. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Assessing quality of a worksite health promotion programme from participants' views: findings from a qualitative study in Malaysia. Health expectations. 2014;17(1):116-28.'. Date: 16 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
23. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Impact of tuberculosis treatment on health-related quality of life of pulmonary tuberculosis patients: a follow-up study. Health and Quality of Life Outcomes. 2014;12(1):19.'. Date: 13 - 15 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
24. Award's Name: Best Poster Award for poster 'Health economic impact and cost-effectiveness of future dengue vaccination program in Malaysia' in the 12th Malaysian Pharmaceutical Society Scientific Conference. Date: 16 November 2015. Level: National. Awarding Body: Malaysian Pharmaceutical Society. Country: Malaysia.
25. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Assessment of knowledge, attitude and practice of food allergies among food handlers in the state of Penang, Malaysia. Public Health. 2015;129(9):1278-84'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.

26. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Duration of treatment in pulmonary tuberculosis: are international guidelines on the management of tuberculosis missing something? Public Health. 2015'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
27. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Building intentions with the theory of planned behaviour: a qualitative assessment of salient beliefs about pharmacy value added services in Malaysia. Health expectations : an international journal of public participation in health care and health policy. 2015'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
28. Award's Name: Best Student Poster Research Presentation Award for poster 'Exploring the cost-effective threshold price of dengue vaccination programs in Malaysia: a value-based pricing assessment' in the International Society for Pharmacoeconomic & Outcomes Research 21st Annual International Meeting. Date: 21 – 25 May 2016. Level: International. Awarding Body: International Society for Pharmacoeconomic & Outcomes Research.
29. Award's Name: Cancer Research Award '16. Date: 27th April 2017. Level: National. Awarding Body: National Cancer Council. Country: Malaysia.
Awarded to commendable work towards the global quest of finding a cure for cancer.
- 30.
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Professional Membership

ASSOCIATION	POSITION	YEAR
International Health Economic Association	Ordinary member	2009 -
International Society for Pharmacoeconomics and Outcomes Research	International fellow; Co-editor	2005 –
Health Technology Assessment International	Ordinary member	2010 -
International Society of Quality of Life	Ordinary member	2005 – 2007
Malaysia Pharmaceutical Society	Branch Chairman	1997 - 2013
Malaysian Society of Pharmacoeconomic Outcomes & Research	Life Member	2012 -
HTAsiaLink	Board Member	2012 -

Language Proficiency

LANGUAGE	EXAMINATION
ARABIC	GCE O'Level Arabic Communication
ENGLISH	First degree
MALAY	First degree

EMPLOYMENT HISTORY

EMPLOYER	POSITION	YEAR
Universiti Sains Malaysia, Malaysia	Research Assistant to Gan Siew Hua for project titled 'An investigation on the clinical Relevance of CYP2D6 Genetic Polymorphism in the Use of Tramadol HCL Among Orthopaedic Patients.'	2001
Hospital Universiti Sains Malaysia, Malaysia	House Pharmacist	2001 - 2002
Universiti Sains Malaysia, Malaysia	Research Fellow to AP Dr Mohd Rusli for project entitled, 'MRSA in HUSM: A Study on the Prevalence, Risk Factors and Cost Incurred by	2002 - 2003

		MRSA Infections.'	
Apex Pharmacy, Malaysia		Part Time Retail Pharmacist	2002 - 2003
Universiti Malaysia	Sains	Lecturer	2008
Universiti Malaysia	Sains	Senior Lecturer	2008 - 2012
Universiti Malaysia	Sains	Associate Professor	2012 -
Universiti Malaysia	Sains	Program Chairman	2013 - 2016
Monash University		Adjunct Associate Professor	2014 -

RESEARCH & PUBLICATION

Research Publication

Research Book

1. Shafie AA, Khor XY, Ahmad Hassali MA. Economic evaluation of dispensing separation policy in Malaysia: a decision analysis approach. Penang: Penerbit Universiti Sains Malaysia; 2013. International Standard Book Number: 978-983-861-605-8
2. Masood I, Ahmad Hassali MA, Mohamed Ibrahim MI, Shafie AA. Doctors and pharmaceutical industry: insight from Malaysian scenario. Pulau Pinang: Penerbit Universiti Sains Malaysia; 2012. International Standard Book Number: 978-983-861-648
3. Nik Mohamed MH, Ab Rahman J, Kartiwi M, Draman S, Ab Rahman NS, Aris T, Mohd Yusoff MF, Lim KH, Tee GH, Hassan N, Baharom N, Mahdi A, Abd Ghani AA, Ling MY, Safura M, Rodzlan Hasani WS, Mahathir Naidu B, Shafie AA, Daud A, Yasin SM, Phang FA, Su Ting A, Robinson F. National E-Cigarette Survey (NECS) 2016: Prevalence, pattern and perception regarding e-ciagrette and vape use among Malaysian adults. Kuantan: International Islamic University Malaysia; 2017. ISBN: 978-967-0622-63-7.

Journal/E-Journal/Journal Proceeding

1. Shafie AA, Salek MS, Evans RH, Freedman AR, Birley H, Browning M, et al. Self assessed health-related quality of life among HIV patient in UK. *Value in Health (ISI IF 3.03)*. 2005;8(6):A62.
2. Shafie AA, Salek MS, Evans RH, Freedman AR, Browning M, Birley H, et al. Assessment of health related quality of life in patient with HIV: is it practical? *International Journal of Pharmacy Practice*. 2005;13(Supp).
3. Shafie AA, Salek MS, Evans RH, Freedman AR, Browning M, Birley H, et al. Cross-cultural validity and reliability of Health Utility Index 3 in patients with HIV. *Quality of Life Research (ISI IF 2.38)*. 2005;14(9):2153.
4. Salek MS, Shafie AA, Evans RH, Freedman AR, Birley H, Browning M. Does presence of meaningful QoL data influence dermatology outpatient consultation? *Quality of Life Research (ISI IF 2.38)*. 2006;15(Supp. 1).
5. Salek MS, Shafie AA, Evans RH, Freedman AR, Birley H, Browning M, et al. The case for HRQoL assessment: key to successful HIV treatment. *Pharmacy World and Science (ISI IF 0.92)*. 2007;29(5):491.

6. Salek MS, Shafie AA, Evans RH, Freedman AR, Birley H, Browning M, et al. Can systematic assessment of patients' quality of life influence optimisation of HIV treatment? *Pharmacy World and Science (ISI IF 0.92)*. 2007;29(5):490.
7. Al-Gedadi NA, Hassali MA, Shafie AA. A pilot survey on perceptions and knowledge of generic medicines consumers in Penang, Malaysia. *Pharmacy Practice*. 2008; 6(2); 93-97.
8. Ahmad Hassali MA, Shafie AA, Saeed M. A pilot study on the perceptions of general medical practitioners in the state of Penang, Malaysia, towards the professional training and roles of community pharmacists. *International Journal of Pharmacy Practice*. 2008;16(Supp 2):B24-B5.
9. Shafie AA, Ahmad Hassali MA, Ibrahim B, Ahmad Hassali JB. Evaluation of asthma knowledge and management among rural adult patients in a Malaysian district hospital. *International Journal of Pharmacy Practice*. 2008;16(Supp 2).
10. Shafie AA, Hassali MA. Price comparison between innovator and generic medicines sold by community pharmacies in the state of Penang, Malaysia. *J Generic Med*. 2008; 6(1).
11. Hassali MA, Shafie AA, Jamshed S, Ibrahim MI, Awaisu A. Consumers' views on generic medicines: a review of the literature. *International Journal of Pharmacy Practice* 2009;17:79-88.
12. Hassali MA, Khan TM, Shafie AA. Motivational factors to choose pharmacy as a career; findings of a preliminary survey conducted among pharmacy undergraduate students. *Technics Technologies Education Management (ISI)*. 2009;1(1):21-5.
13. Hassali MA, Subish P, Shafie AA, Ibrahim MIM. Perceptions and barriers towards provision of health promotion activities among community pharmacists in the state of Penang, Malaysia. *Journal of Clinical and Diagnostic Research*. 2009; online first.
14. Shafie AA, Ahmad Hassali MA. Willingness to pay for pharmacist's dispensing service: a cross sectional pilot study in the state of Penang, Malaysia. *Value in Health (ISI IF 3.03)*. 2009;12(3):A86.
15. Hassali MA, Khan TM, Shafie AA, Nazir M. Public knowledge about herbal beverages in Malaysia. *Australian Medical Journal*. 2009;1(5):1-12.
16. Taha NA, Mohammed Ibrahim MI, Ab Rahman AF, Shafie AA, Abdul Rahman AH. Use of pharmacy refill records to measure adherence with antipsychotic medications among chronic schizophrenia outpatients in a teaching hospital. *Malaysian Journal of Pharmacy*. 2009;1(7):S34.
17. Syed Sulaiman SA, Ahmad Hassali MA, Mohammed Ibrahim MI, Ahmad M, Shafie AA, Saleem F, et al. Evaluating perception of doctors toward the role of pharmacist in Paksitan's healthcare system. *Malaysian Journal of Pharmacy*. 2009;1(7):S105.
18. Shafie AA, Ahmad Hassali MA. A systematic review of insulin as the first line therapy in Type 2 diabetes. *Malaysian Journal of Pharmacy*. 2009;1(7):S107.
19. Shafie AA, Ahmad Hassali MA. Nationwide survey on the required pharmacist competency among stakeholders in Malaysia. *Malaysian Journal of Pharmacy*. 2009;1(7):S16.
20. Liau SY, Mohammed Ibrahim MI, Ahmad Hassali MA, Shafie AA, Othman AT, Hamdi MA. Prevalence of cardiovascular risk factors among employees of engineering campus, USM: where do we stand? *Malaysian Journal of Pharmacy*. 2009;1(7):S33.
21. Abdul Hadi M, Hassali MA, Shafie AA, Awaisu A, Khan AH. Evaluation of breast cancer awareness among female university students. *Malaysian Journal of Pharmacy*. 2009;1(7):S17.
22. Hassali MA, Shafie AA, Khalid Y. Assessment of knowledge and perception of erectile dysfunction among diabetic and non-diabetic patients at a university health center in Malaysia. *Asian Journal of Pharmaceutical and Clinical Research*. 2009;2(3):60-5.
23. Yahaya AHM, Hassali MA, Awaisu A, Shafie AA. Factors associated with warfarin therapy knowledge and anticoagulation control among patients attending a warfarin clinic in Malaysia. *Journal of Clinical and Diagnostic Research*. 2009;3:1663-70.
24. Neoh CF, Hassali MA, Shafie AA, Awaisu A, Tambyappa J. Compliance towards dispensed medication labelling standards: a cross-sectional study in the State of Penang, Malaysia. *Current Drug Safety*. 2009;4:199-203.

25. Sharrad AK, Hassali MA, Shafie AA. Generic medicines: perception of physicians in Basrah, Iraq. *Australasian Medical Journal*. 2009;1(8):58-64.
26. Alkalmi RM, Hassali MA, Ibrahim MI, Shafie AA. A qualitative study evaluating perception of the community pharmacist towards ADR reporting in northern Malaysia. *Drug Safety (ISI IF 3.52)*. 2009;32(10):878.
27. Hassali MA, Shafie AA, Nazir MA. Herbal beverages: perception and knowledge among general public towards its safety and efficacy. *Drug Safety (ISI IF 3.52)*. 2009;32(10):884.
28. Hassali MA, Palaian S, Shafie AA, Mohamed Elkalmi R, Shrestha R. Medicine safety seminar for Malaysian community pharmacists. *Journal of Pharmacy Practice and Research*. 2009;39(3):245.
29. Hassali MA, Shafie AA, Palaian S, Awaisu A. Public opinion on dispensing doctors in Malaysia. *Journal of Clinical and Diagnostic Research (SCOPUS)*. 2009;3:1776-8.
30. Azhar S, Hassali M, Ibrahim M, Ahmad M, Masood I, Shafie A. The role of pharmacists in developing countries: the current scenario in Pakistan. *Human Resources for Health (ISI IF 1.35)*. 2009;7(1):54.
31. Hassali MA, Shafie AA, Awaisu A, Mohamed Ibrahim MI, Ahmed SI. A public health pharmacy course at a Malaysian pharmacy school. *American Journal of Pharmaceutical Education (ISI IF 1.07)*. 2009;73(7):Article 136.
32. Hassali MA, Shafie AA. Status of generic medicine use in Malaysia. *Journal of Pharmacy Practice and Research*. 2009;39(4):331.
33. Hassali MA, Awaisu A, Shafie AA, Saeed M. Professional training and roles of community pharmacists in Malaysia: views from general medical practitioners. *Malaysian Family Physician*. 2009;4(2 & 3).
34. Khanizadeh H, Izham M, Shafie AA, Nikkiah K. PND4 The features of multiple sclerosis in Iran. *Value in Health*. 2009;12(7):A366.
35. Hassali MAA, Shafie AA, Jamshed S, Ibrahim MIM, Awaisu A. Consumers' views on generic medicines: A review of the literature. *International Journal of Pharmacy Practice*. 2009;17(2):79-88.
36. Chong CP, Hassali MA, Bahari MB, Shafie AA. Evaluating community pharmacists' perceptions of future generic substitution policy implementation: A national survey from Malaysia. *Health Policy (ISI IF 1.35)*. 2010;94:68-75.
37. Hassali MA, Shafie AA, Awaisu A, Ibrahim MI, Chong CP, Jamshed S. Physicians' views on generic medicines: a narrative review. *Journal of Generic Medicines*. 2010;7:30-9.
38. Abdul Hadi M, Hassali MA, Shafie AA, Awaisu A. Knowledge and perception of breast cancer among women of various ethnic groups in the state of Penang: a cross-sectional survey. *Medical Principles and Practice (ISI IF 0.82)*. 2010;19:61-7.
39. Hadi MA, Hassali MA, Shafie AA, Awaisu A. Evaluation of breast cancer awareness among female university students in Malaysia. *Pharmacy Practice*. 2010;8(1):29-34.
40. Permala J, Hassali MA, Awaisu A, Shafie AA. Dosing information in a standard drug reference: are pediatrics still therapeutically neglected? *Pediatrics International (ISI IF 0.71)*. 2010;52(1):290-5.
41. Sharrad AK, Hassali MA, Shafie AA. Generic medicines: perceptions of pharmacists in Basrah, Iraq. *HealthMED (ISI IF 0.2)*. 2010;4(1):38-44.
42. Chua GN, Hassali MA, Shafie AA, Awaisu A. A survey exploring knowledge and perceptions of general practitioners towards the use of generic medicines in the northern state of Malaysia. *Health Policy (ISI IF 1.35)*. 2010;95:229-35.
43. Saleem F, Ahmad Hassali A, Shafie AA. Hypertension in Pakistan: time to take some serious action. *British Journal of General Practice (ISI IF 2.44)*. 2010:449-50.
44. Shafie AA. Economic evaluation in developing countries: time to move forward. *The Journal of Medicine Use in Developing Countries*. [Editorial]. 2010;2(1):1-2.

45. Awaisu A, Samsudin S, Amir N, Omar C, Hashim M, Mohamad M, Shafie AA, Hassali M. Measurement of nicotine withdrawal symptoms: linguistic validation of the Wisconsin Smoking Withdrawal Scale (WSWS) in Malay. *BMC Medical Research Methodology (ISI IF 2.30)*. 2010;10(1):46.
46. Al-Haddad M, Ibrahim MMI, Sulaiman SAS, Shafie AA, Maarup N. Cost benefit analysis of the diabetes self management program at a university health centre in Malaysia. *Journal of Clinical and Diagnostic Research (SCOPUS)*. 2010; 4(3):2521-30.
47. Shafie AA, Hassali MA. Willingness to pay for a pharmacist's dispensing service: a cross-sectional pilot study in the state of Penang, Malaysia. *Pharmacy Practice*. 2010;8(2):116-21.
48. Siow YL, Mohamed Izham MI, Hassali MA, Shafie AA. A literature review of the cardiovascular risk-assessment tools: applicability among Asian populations. *Heart Asia*. 2010;2:15-8.
49. Jamshed SQ, Hassali MA, Ibrahim MI, Shafie AA, Babar Z. Knowledge, perception and attitude of community pharmacists towards generic medicines in Karachi, Pakistan: a qualitative insight. *Tropical Journal of Pharmaceutical Research*. 2010;9(4):409-15.
50. Chong C, Hassali M, Bahari M, Shafie AA. Generic medicine substitution practices among community pharmacists: a nationwide study from Malaysia. *Journal of Public Health (ISI IF 1.23)*. 2010:1-10.
51. Khanizadeh H, Izham M, Shafie AA, Nikkiah K, Ebrahimzadeh S. Report of the multiple sclerosis treatments in Iran (Khorasan provinces). *Journal of Clinical and Diagnostic Research (SCOPUS)*. 2010;4:2822-5.
52. Elkalmi RE, Hassali MA, Ibrahim MI, Shafie AA. Community pharmacists involvement in the pharmacovigilance program in Malaysia. *Journal of Pharmacy Practice and Research*. 2010;40(3).
53. Saleem F, Ahmad Hassali MA, Shafie AA. Patients' perceptions of hypertension management: a concern for healthcare practitioners. *British Journal of General Practice (ISI IF 2.44)*. [Letters]. 2010;60(578):691-2.
54. Saleem F, Ahmad Hassali MA, Shafie AA. Authors' response. *British Journal of General Practice (ISI IF 2.44)*. [Letters]. 2010;60(577):616-7.
55. Al-Qazaz HK, Hassali MA, Shafie AA, Sulaiman SA, Sundram S, Morisky DE. The eight-item Morisky Medication Adherence Scale MMAS: Translation and validation of the Malaysian version. *Diabetes Research and Clinical Practice (ISI IF 2.16)*. 2010;90(2):216-21.
56. Hassali MA, Shafie AA, Al-Haddad M, Balamurugan T, Awaisu A, Siow YL. A qualitative study exploring the impact of the pharmaceutical price war among community pharmacies in the state of Penang, Malaysia. *Journal of Clinical and Diagnostic Research (SCOPUS)*. 2010;4(5).
57. Abdul Ghani N, Shafie AA, Hassali MA. Cost analysis of methadone maintenance therapy (MMT) program in Malaysia. *Value in Health (ISI IF 3.03)*. 2010;13(7):A450.
58. Abdul Ghani N, Shafie AA, Hassali MA. Comparison of HRQoL between patient receiving methadone maintenance therapy (MMT) and rehabilitation program. *Value in Health (ISI IF 3.03)*. 2010;13(7):A556.
59. Al-Haddad MS, Hassali MA, Izham MI, Shafie AA. General public satisfaction toward the provision of health-care delivery by government hospitals and clinics in the state of Penang. *Value in Health (ISI IF 3.03)*. 2010;13(7):A542.
60. Al-Qazaz HK, Hassali MA, Shafie AA, Sulaiman SA, Sundram S. Translation and validation of Michigan diabetes knowledge scale into Malaysian version. *Value in Health (ISI IF 3.03)*. 2010;13(7):A507.
61. Al-Qazaz HK, Hassali MA, Shafie AA, Sulaiman SA, Sundram S, Morisky DE. The 8-item Morisky medication adherence scale MMAS: translation and validation study of the Malaysian version. *Value in Health (ISI IF 3.03)*. 2010;13(7):A296.
62. Al-Qazaz HK, Sulaiman SA, Hassali MA, Shafie AA, Sundram S, Morisky DE. Use of 8-item Morisky medication adherence scale for the assessment of medication adherence in type 2 diabetes mellitus. *Value in Health (ISI IF 3.03)*. 2010;13(7):A527.
63. Chiew GP, Shafie AA, Hassali MA, Awaisu A, Cheah WK. Pharmacist-run methadone clinic in a Malaysian public health center: evaluating patient satisfaction and quality of life outcomes. *Value in Health (ISI IF 3.03)*. 2010;13(7):A556.

64. Hassali MA, Haddad MS, Shafie AA. Role of community pharmacists in health-related education and counseling: views from general public in the state of Penang, Malaysia. *Value in Health (ISI IF 3.03)*. 2010;13(7):A524.
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68. Yeo HY, Shafie AA, Coudeville L, Steinberg L, Gill BS, Jahis R. Should Malaysia introduce the new dengue vaccine into the national immunization program? A cost effectiveness evaluation using the value-based pricing method. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
69. Yong YV, Shafie AA. Cost-effectiveness of Respiratory Medication Therapy Adherence Clinic (RMTAC) on asthma patients in Malaysia. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
70. Shafie AA, Tan YP, Ng CH. Systematic review of economic burden of heart failure. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
71. Ng CH, Shafie AA, Chaiyakunapruk N, Tan YP. Systematic review of the cost-effectiveness of analogues insulin in Type 1 and Type 2 diabetes mellitus. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
72. Supian A, Shafie AA, Ahmad Hassali MA, Chaiyakunapruk N, Lim J, Zafra M. State of rare disease management in Southeast Asia. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
73. Vasan Thakumar A, Shafie AA, Lim CJ. Exploratory study on EQ-5D bolt-on in Malaysia. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.
74. Tan BY, Shafie AA, Hassali MA, Saleem F, Munesarao, Mohd Hussein F, Mohamad N. Impacts of calendar packaging among hypertensive patients in Malaysia. 5th HTAsiaLink Annual Conference; 3 – 6 May 2016; Singapore; HTAsiaLink.

75. Shafie AA, Tan YP. Economic burden of heart failure in Hospital Queen Elizabeth II, Malaysia. *CardioRhythm* 2017; 24 – 26 February 2017; Hong Kong; Hong Kong College of Cardiology.

Conference Presentation (no proceedings)

1. Shafie AA, Salek MS. Economic evaluation of HIV treatment (poster presentation). *Postgraduate Research Day*; 2004; Cardiff, Cardiff University.
2. Shafie AA, Salek MS. A cross sectional study of Health Utilities in HIV infection (oral presentation). *Postgraduate Research Day*. 2005; Cardiff, Cardiff University.
3. Thambyappa J, Al-Haddad M, Ahmad Hassali MA, Shafie AA. The flip side of medical tourism. *2nd National Symposium on Tourism Research*; 2009 18 July 2009; Penang, Malaysia. 2009.
4. Abdul Hadi M, Hassali MA, Shafie AA, Awaisu A. Breast cancer knowledge and perception: outcomes of a cross sectional survey in Penang, Malaysia. *69th International Congress of FIP*; 3 - 8 September 2009; Istanbul, Turkey 2009.
5. Shafie AA, Hassali MA. Willingness to pay for Voluntary Community-Based Health Insurance in Malaysia. *7th Annual Meeting of Health Technology Assessment International*; 6 - 9th June; Dublin: HTAi; 2010.
6. Khanizadeh H, Izham M, Shafie AA, Faravani M. An exploration of the herbal medicines in multiple sclerosis treatment. *6th Conference on Medicinal and Aromatic Plants of Southeast European Countries*; 18 - 22th April; Antalya, Turkey 2010.
7. Shafie AA, Jamshed S, Izham M, Hassali MA. Understanding of pharmacists about their role in the healthcare system of Pakistan. 5th Singapore Public Health & Occupational Medicine Conference and 4th Asian Regional Health Technology Assessment Conference; 19 – 20th August; Singapore 2010.
8. Shafie AA, Liau SY, Izham M, Hassali MA. Stages of change and health-related quality of life among employees of an institution: a cross sectional study. 5th Singapore Public Health & Occupational Medicine Conference and 4th Asian Regional Health Technology Assessment Conference; 19 – 20th August; Singapore 2010.
9. Shafie AA, Khor XY, Hassali MA. Dispensing separation - Is It Worthwhile?: A Decision Modelling Approach. *Health System Reform in Asia*; 9 - 12 December; University of Hong Kong, Hong Kong 2011.
10. Shafie AA, Hassali MA. Exploring the Willingness to Pay for Voluntary Community-Based Health Insurance in Malaysia. *Health System Reform in Asia*; 9 - 12 December; University of Hong Kong, Hong Kong 2011.
11. Shafie AA, Shafie F, Hassali MA. The impact of medication adherence on quality of life among type 2 diabetic patients. *5th Asian Association of Schools of Pharmacy (AASP) Conference*; 16 – 19 June; Indonesia 2011.
12. Shafie AA, Liau SY, Hassali MA, Ibrahim MI. Cost-effectiveness analysis of a risk factor reduction program at a worksite: experience from a public university in Malaysia. *Health Technology Assessment International 2011 Conference*; 27 – 29 June; Rio de Janeiro, Brazil 2011.
13. Shafie AA, Liau SY, Hassali MA, Ibrahim MI. Role of health care system in promoting rational drug use in malaria control in Pakistan; the missing link. *Health Technology Assessment International 2011 Conference*; 27 – 29 June; Rio de Janeiro, Brazil 2011.
14. Shafie F, Shafie AA, Hassali MA. Correlation between health-related quality of life (HRQoL) and medication adherence in patients with type 2 diabetes. *ISQua 28th International Conference*. Hong Kong 2011.
15. Chua GN, Othman E, Hassali MA, Shafie AA, Ang HA, A Pilot Study Evaluating In-patient Glycemic Control Using Sliding-Scale Insulin among Non-critically Ill Type 2 Diabetics at Hospital Sungai Bakap, Penang. *Diabetes Asia Conference*; 6 - 9 October; Kuala Lumpur, Malaysia 2011.
16. Saleem F, Ahmad Hassali MA, Shafie AA. Association between knowledge and health-related quality of life. *2nd Symposium of USM Fellowship*. Penang, Malaysia: Universiti Sains Malaysia; 2011:39.

17. Lee SW, Ahmad Hassali MA, Shafie AA. Knowledge, perception and attitude of senior year pharmacy students about generic medicines in public universities of Malaysia. *2nd Symposium of USM Fellowship*. Penang, Malaysia: Universiti Sains Malaysia; 2011:52.
18. Abd Alwahed Abdul Ameer S, Hassali MA, Thamyappa J, Shafie AA. A pilot study assessing perceptions of the health status among low socio-economic urban population in the state of Penang, Malaysia. *2nd Symposium of USM Fellowship*. Penang, Malaysia: Universiti Sains Malaysia; 2011:85.
19. Shafie AA, Hassali MA, Chua G. Applicability of the REALM health literacy test to an English second-language population: a case of Malaysia. *12th Asian Conference on Clinical Pharmacy*; 7 - 9 July 2012; Hong Kong: Asian College of Clinical Pharmacy.
20. Shafie AA, Hassali MA, Chua G. Does statistic subject improve pharmacy students' attitude towards statistics? *12th Asian Conference on Clinical Pharmacy*; 7 - 9 July 2012; Hong Kong: Asian College of Clinical Pharmacy.
21. Said SH, Shafie AA, Abdul-Aziz F. Relationship between beliefs, adherence and health-related quality of life among chronic kidney disease patients on hemodialysis in Penang General Hospital. *12th Asian Conference on Clinical Pharmacy*; 7 - 9 July 2012; Hong Kong: Asian College of Clinical Pharmacy.
22. Mohamed Ikbar Z, Syed Sulaiman SA, Shafie AA, Chow TS, Cheang LF, Lee JS. The prevalence and the risk factors associated with hyperlipidaemia among HIV-infected patients treated with HAART. *12th Asian Conference on Clinical Pharmacy*; 7 - 9 July 2012; Hong Kong: Asian College of Clinical Pharmacy.
23. Albaroodi K, Syed Sulaiman SA, Shafie AA. Translation process for patient-reported outcomes measures. *24th Federation of Asian Pharmaceutical Associations Congress (FAPA)*; 13 - 16 September; Bali:2012.
24. Lee ML, Hassali MA, Shafie AA. A qualitative study exploring perceptions among Quit Smoking Clinic (QSC) defaulters towards QSC service provision in the state of Malacca, Malaysia. *15th World Conference on Tobacco or Health (WCTOH)*; 20 – 24 March 2012; Singapore; International Union against Tuberculosis and Lung Disease (The Union).
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27. Atif, M., Sulaiman, S. A. S., Hassali, M. A., Shafie, A. A., & Saleem, F. (2012). Determination of chest x-ray cost using activity based costing approach at Penang General Hospital, Malaysia. *Value in Health*, 15(4), A66. "Poster resented at the ISPOR 17th Annual International Meeting, June, Washington DCA, United States of America".
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30. Chen LL, Chng ASH, Shafie AA, Hasali MA, Tangiisuran B. Prevalance and predictors of clinically undiagnosed cognitive impairment among older residents of nursing homes in Penang, Malaysia. *28th International Conference of Alzheimer's Disease International*; 18 – 20 April 2013; Taipei; Alzheimer's Disease International.
31. Shafie AA, Chua GN. Public willingness-to-pay for branded & generic medicines for acute and chronic disease. *9th World Congress of Health Economics*; 6 – 7 July 2013; Sydney, Australia; International Health Economic Association.
32. Lim YW, Shafie AA, Hassali MA. Exploring willingness-to-pay for a quality-adjusted life-year in Malaysia. *1st Quality Use of Medicine Conference 2013*; 1 – 3 July 2013; Selangor; Ministry of Health.

33. Siti Fauziah A, Abdul Haniff MY, Salmah B, Mohamed Azmi AH, Lai ST, Norazlin AK, Norazila AG, Yap YW, Chua GN, Mohd Dziehah M, Salmiah MA. A study on quality use of medicines among Malaysian consumers 2012. *74th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2014*; 31 August – 4 September 2014; Bangkok, Thailand; The International Pharmaceutical Federation.
34. Lim YW, Shafie AA. Determination of cost effectiveness threshold for Malaysia. *8th National Conference for Clinical Research*; 30 September – 2 October 2014; Kuching, Sarawak; Clinical Research Centre Malaysia.
35. Shafie AA, Vasan A, Lim CJ, Md Yusof MD, Nan L. Valuation of EQ-5D-5L for the Malaysian population. *EuroQol Group's 2nd Academy Meeting*; 7 – 9 March 2017; Noordwijk, Netherlands; EuroQol Group.

Publications Related to Teaching

First Edition

1. Shafie AA, Ahmad Hassali MA, Lim CC, Chua GN, Thomas PT, Chua SS, Nik Mohamed MH, Zaman Huri H, Yip SY. Training manual for pharmacists for management of obesity and overweight. Kuala Lumpur: Malaysian Pharmaceutical Society; 2012.

Teaching Modules

1. Ahmad Hassali MA, Mohamed Ibrahim MI, Bahari MB, Shafie AA. *Instructor's Manual for External Degree Programme Bachelor of Pharmacy (Hons): FEL372/2 Pharmaceutical Marketing*. July 2008.
2. Bahari MB, Lajis R, Ahmad Hassali MA, Shafie AA. *Instructor's Manual for External Degree Programme Bachelor of Pharmacy (Hons): FEL374/2 Drug of Abuse and Society*. Oct 2008.
3. Mohd Yusoff Z, Ab Rahman AF, Bahari MB, Abd Aziz N, Shafie AA. *Instructor's Manual for External Degree Programme Bachelor of Pharmacy (Hons): FAR451.3 Introduction to Clinical Pharmacy Concept*. June 2009.
4. Mohamed Ibrahim MI, Ahmad Hassali MA, Shafie AA, Riazi M, Al-Haddad MS. *Instructor's Manual for External Degree Programme Bachelor of Pharmacy (Hons): FAR151/4 Statistics for Pharmacy*. July 2009.
5. Shafie AA, Ibrahim MI, Hassali MA, Al-Haddad MS. *Instructor's Manual for External Degree Programme Bachelor of Pharmacy (Hons): FEL474.2 Introduction to Pharmacoeconomics*. October 2009.
6. Shafie AA, Ahmad Hassali MA, Mohamed Ibrahim MI, Al-Haddad MS, Kaur S. *DSAP Coursework Guidelines*. 2010/11. School of Pharmaceutical Sciences, USM.
7. Shafie AA. *DSAP Coursework Guidelines*. 2013/14. School of Pharmaceutical Sciences, USM.
8. Shafie AA, Ahmad Hassali MA, Saleem F. Instructor's manual for FAR391 Pharmacoeconomics And Pharmacoeconomics In Developing Countries. July 2014. School of Pharmaceutical Sciences, USM.
9. Ahmad Hassali MA, Shafie AA, Othman AT, Saleem F. Instructor manual for FAR192 Social and Public Health Pharmacy. July 2014. School of Pharmaceutical Sciences, USM.

CAI/Multimedia/Software/Courseware

1. Hassali MA, Hari R, Shafie AA. Pharmbee e-learning management system. 2011.

Research Grant

International

1. Shafie AA, Nan L, Md Yusof FA, Lim CJ, Vasan Thakumar A. Valuation of EQ-5D-5L for the Malaysian population. EQVT Grant Scheme. EuroQoL Research Foundation. EUR85193. Aug 2016 – July 2018.
2. Shafie AA, Nan L, Md Yusof FA, Lim CJ, Vasan Thakumar A. Natioal EQ-5D Symposium and Valuation Workshop. EuroQoL Research Foundation. EUR14518.77. 3 – 6 Aug 2016.

National

1. Shafie AA, Nan L, Md Yusof FA, Lim CJ, Vasan Thakumar A. Prioritizing optimal access to cancer treatment in Malaysia: a multicriteria analysis approach. MAKNA Cancer Research Award 2016. Majlis Kanser Nasional (MAKNA). MYR29800. 15 February 2017 – May 2019.

Co-Researcher

1. Tengku Abdul Hamid TA, Aljunid SM, Ong FS, Kamaruzzaman SB, Yunus F, Mohamed Shariff AR, Haron SA, Shafie AA, Ismail NW, Masud J, Ibrahim R, Yusuff S, Mustafa CN, Mohamed Nor Saad N, Madon Z, Mastura A, Azman A. Identifying Psychosocial and Economic Risk Factors and Quantifying the Costs of Age-related Cognitive Impairment: Implications of Population Ageing in Malaysia. Long Term Research Grant Scheme (Ministry of Higher Education). MYR830461. 1 July 2012 - 30 June 2016.
2. Haniff J, Ramli AS, Shafie AA, Lakshmanan S, Ismail M et al. Empowering primary care providers and patients to improve chronic disease outcomes: the EMPOWER Participatory Action Research (EMPOWER-PAR). Long Term Research Grant Scheme (Ministry of Higher Education). MYR124785. July 2012 - Dec 2014.

University

Project Manager

1. Shafie AA, Mohamed Ibrahim MI, Ahmad Hassali MA, Othman AT, Nik Mohamed MH, Hamdi M. Sustainable health: worksite health promotion program using transtheoretical model. Research University Grant (Research Creativity and Management Office, USM). MYR173490. (2008; 3 years). 1001/PFARMASI/813018.
2. Shafie AA. Systematic review of methodological quality and themes in economic evaluation in Malaysia. Incentive Grant (Research Creativity and Management Office, USM). MYR5000. (2008; 1 year).
3. Shafie AA, Shafie F. Comparison of cost and HRQoL between patient that adhere and non-adhere to diabetic regimen. Incentive Grant (Research Creativity and Management Office, USM). MYR5000. (2009; 2 years). 1001/PFARMASI/822127.
4. Shafie AA, Ahmad Hassali MA, Mohamed Ibrahim MI. Development of Malaysia EQ-5D social tariff. Research University Grant (Research Creativity and Management Office, USM). MYR100000. (2009; 2 years). 1001/PFARMASI/816114.
5. Shafie AA, Ahmad Hassali MA, Abdul Ghani N. Assessment of cost and HRQoL among patient receiving methadone maintenance therapy. Short Term Grant (Research Creativity and Management Office, USM). MYR33900. (2010; 1 year). 304/PFARMASI/6310034.
6. Shafie AA, Ahmad Hassali MA. Determination of cost-effectiveness threshold for Malaysia. NADI Centre. MYR120000. (2012; 2 years). 1001/PFARMASI/910330.
7. Shafie AA, Ahmad Hassali MA, Jeyaindran, S. A comparative study evaluating economic outcomes of pharmacists managed anticoagulation clinic versus usual medical care at Kuala Lumpur Hospital. Research University Grant (Research Creativity and Management Office, USM). MYR113400. (2012; 2 years). 1001/PFARMASI/816206.

8. Shafie AA, Ahmad Hassali MA, Nan L, Md Yusof FA, Lim CJ. An investigation into the definition and value of health related quality of life among Malaysian general public. Research University Grant (Research Creativity and Management Office, USM). MYR100000. (2014; 3 years). 1001/PFARMASI/811287.

Co-researcher

1. Ahmad Hassali MA, Mohamed Ibrahim MI, Shafie AA. Evaluating promotional practices of pharmaceutical industries in Malaysia. Short Term Grant (Research Creativity and Management Office, USM). MYR30961. (2008; 2 years). 304/PFARMASI/638142
2. Ahmad Hassali MA, Shafie AA. Population-based study on the medicine utilization in the community setting. Research University Grant (Research Creativity and Management Office, USM) MYR132500. (2007; 3 years).
3. Ahmad Hassali MA, Shafie AA. Assessment of knowledge and adherence to medication: a mixed methodology study among patients with type-2 diabetes in Penang. Research University Grant (Research Creativity and Management Office, USM). MYR98100. (2009; 3 years)
4. Ahmad Hassali MA, Shafie AA, Kong DCM, Chua GN. Involvement of Malaysian community pharmacists in public health workforce: perspectives from health practitioners and policy makers. Research University Grant (Research Creativity and Management Office, USM). MYR123100. (2011; 3 years). 1001/PFARMASI/816195
5. Ahmad Hassali MA, Shafie AA, Chua GN. 'Memperkasakan kesihatan golongan berpendapatan sederhana dan rendah di Pulau Pinang – satu pendekatan perkongsian pintar antara university dan masyarakat. Division of Industry and Community Network, USM). MYR50000. (2011).
6. Ahmad Hassali MA, Shafie AA, Neoh CF, Saleem F. Diabetes Self-Management Education (DSME): a smart community-universities partnership programme. Knowledge Transfer Programme Grant (Bahagian Jaringan Industri & Masyarakat, USM). MYR123962.50. (15 Feb 2014 – 14 Feb 2016). 203/PFARMASI/6750054.

Other Publications

Popular Academic Books

1. Liau SY, Mohammed Ibrahim MI, Ahmad Hassali MA, Shafie AA, Othman AT, Nik Mohamed MH, Hamdi MA. Road to a healthy heart. Minden: Pusat Pengajian Sains Farmasi; 2009. International Standard Book Number: 978-983-44596-0-4.
2. Ahmad Hassali MA, Thambyappa J, Shafie AA. What you should know about generic medicines. USM: Penerbit Universiti Sains Malaysia; 2012. International Standard Book Number: 978-983-861-543-3.
3. Hassali MA, Thambyappa J, Shafie AA, Masood I, Chua GN, Saleem F, Jaki S, Mustapa D, Rusli AR. What should you know about antibiotics. Discipline of Social & Administrative Pharmacy, School of Pharmaceutical Sciences, Universiti Sains Malaysia; ISBN: 978-983-44596-9-7, 2012.
4. Hassali MA, Sattar MZA, Shafie AA, Saleem F, Ho RY, Jaki MS. Empowering Community In Quality Use of Medicines: Initiatives from Smart Partnership Programmes Between Local Communities and Universiti Sains Malaysia. School of Pharmaceutical Sciences, Universiti Sains Malaysia; ISBN: 978-967-11964-5-B, 2013.
5. Hassali MA, Shafie AA, Thambyappa J, Chua GN, Masood I. Sirih Pulang ke Gagang: Libatsama Bestari USM-Komuniti. Penghakupayaan Kesihatan Diri dalam kalangan Golongan Berpendapatan Sederhana dan Rendah di Jelutong, Pulau Pinang. Edited by Network of Industry and Community Division Universiti Sains Malaysia. Penerbit Universiti Sains Malaysia. ISBN: 978-983-861-623-2, 2013.
6. Hassali MA, Thambyappa J, Nambiar S, Shafie AA. TRIPS, Free Trade Agreements and the pharmaceutical industry in Malaysia. In: Lofgren H, Williams OD, editors. The new political economy of pharmaceuticals: production, innovation and TRIPS in the global south: Palgrave Macmillan; 2013. International Standard Book Number: 978-0-230-28463-0

7. Shafie AA. EuroQol 5-Dimension measures in Malaysia. In: Michalos AC, editor. Encyclopedia of Quality of Life and Well-Being Research: Springer; 2014. International Standard Book Number: 978-94-007-0752-8.
8. Shafie AA, Chua GN, Yong YV. Steps in conducting an economic evaluation. In: Babar ZU, editor. Economic evaluation of pharmacy services. London: Elsevier; 2016. International Standard Book Number: 978-0-12-803659-4.
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Mass Media (Main Stream)

1. Shafie AA. Re: Crying son 'ordered' of the bus. BBC News 24, 3 September 2004
2. Shafie AA. Re: Is the world doing enough for quake areas? BBC News 24, 11 January 2005
3. Shafie AA. Re: Do you agree with European vitamin ruling? BBC News 24, 14 July 2005
4. Ahmad Hassali MA, Shafie AA. Be wary of alternative health products. *The Star*. 7 November 2008
5. Shafie AA. Blame the system. *The Star*. 20 November 2008
6. Shafie AA. Show more care for citizens' health needs. *The Star*. 13 January 2009
7. Shafie AA. Lintah berisiko sebar virus HIV. *Berita Harian*. 14 January 2009.
8. Hassali MA, Shafie AA, Jayabalan T. Medication error cause for concern. *The Star*. 2 May 2009.
9. Ahmad Hassali MA, Shafie AA, Jayabalan T. Dispensing medicine: a case for a separation of roles. *New Straits Times*. 10 July 2009.
10. Ahmad Hassali MA, Jayabalan T, Shafie AA. Laudable move to limit medications. *The Star*. 20 July 2009.
11. Ahmad Hassali MA, Jayabalan T, Shafie AA. Healthcare: a long way to go on drug safety information. *New Straits Times*. 12 November 2009.
12. Ahmad Hassali MA, Shafie AA. Pharmacists as opinion leaders. *MPS i-Bulletin*. 10 Dec 2009.
13. Ahmad Hassali MA, Shafie AA. Quality of medical varsities in doubt. *The Star*. 28 December 2009.
14. Ahmad Hassali MA, Shafie AA. Value pharmacists, not sideline them. *The Star*. 15 November 2009.
15. Jayabalan T, Ahmad Hassali MA, Shafie AA. Seek views of all parties first. *The Star*. 7 January 2010.
16. Shafie AA. Inject new life into healthcare. *The Star*. 15 June 2010.
17. Shafie AA. Stop the bullying before it gets out of hand. *The Star*. 29 June 2010.
18. Ahmad Hassali MA, Shafie AA. About time ministry checked hospital fees. *The Star*. 2011 13 Jan.
19. Shafie AA. Education system needs a complete overhaul. *The Star*. 2011 9 Aug.
20. Hassali MA, Thambyappa J, Shafie AA. Closer collaboration can curb medicine waste. *The Star*. 19 Aug, 2011.
21. Hassali MA, Shafie AA. A case for separation of roles. *The Star*. 2 July, 2014;Letters.
22. Shafie AA, Supian A, Hassali MA. Rare diseases in Malaysia. *The Star*. 29 Feb 2016;Letters.

Technical Reports

1. Ahmad Hassali MA, Shafie AA, Mohamed Ibrahim MI, Bahri S, Othman NH. A national survey on the use of medicines (NSUM) by Malaysian consumers 2008. Petaling Jaya: Pharmaceutical Services Division; 2009, ISBN 978-967-5570-01-8.
2. Ahmad Hassali MA, Shafie AA, Syed Sulaiman SA, Al-Haddad MA, Tambyappa J, Masood I, Saleem F, Hari R, Al-Qazaz HK, Chua GN, Mohd Jaki MS, Heddini A, Murray M, Chai M, Kong D, Kiatying-Angsulee N. Education on antibiotic resistance in medical and pharmacy schools: findings from curriculum survey in selected Southeast Asian universities. Universiti Sains Malaysia; 2011, ISBN 978-967-394-065-3.
3. Ahmad Hassali MA, Masood I, Chua GN, Tambyappa J, Mohd Jaki MS, Shafie AA, Saleem F, Syed Sulaiman SA. Empowering health among middle- and low- income earners in Penang, Malaysia: a report on a smart partnership approach between university and community. Penang: Universiti Sains Malaysia; 2012, ISBN 978-983-44596-7-3.
4. Ahmad Hassali MA, Shafie AA, Chua GN, Siti Fauziah A, Lai ST, Norazlin AK, Norazila AG, Abdul Haniff MY, Yap YW, Leow CY, Bahri S, Salmiah MA, Che Pun B, Mohd Dziehhan M, Siew LJ. A national survey on the use of medicines (NSUM) by Malaysian consumers 2012. Petaling Jaya: Pharmaceutical Services Division; 2013, ISBN 978-967-570-38-4.
5. Sabirin J, Md Fuzi S, Shafie AA. Health technology assessment report: single use dialyser versus reuse dialyser. Putrajaya: Ministry of Health Malaysia; 2014.

Standard Operating Procedure

1. Expert Committees for Pharmaceutical Services Division. Pharmacoeconomic guideline for Malaysia (March 2012). 2012. Petaling Jaya. http://www.pharmacy.gov.my/aeimages/File/Publication/Pharmacoeconomic_Guideline_For_Malaysia_-_March_2012.pdf.
2. Expert Committees for Malaysian Health Technology Assessment Section (MaHTAS). Manual of Economic Evaluation for Health Technologies in Malaysia (2015). Putrajaya.

TEACHING AND SUPERVISION

Underg/Post-Graduate Teaching

1. COURSE TITLE: FCP554 (Clinical Pharmacy Practice); SEMESTER: 2; YEAR: 2; LEVEL: Master; NUMBER OF LECTURERS:9; NUMBER OF STUDENTS: 30; DURATION: 2007 – NOW.
2. COURSE TITLE: FCP660 (Advanced in Biostatistics) YEAR: 2; LEVEL: PhD; NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS:1; DURATION: 2007 – 2010.
3. COURSE TITLE: FAR151 (Statistics for Pharmacy); SEMESTER:1; YEAR: 1; LEVEL: Undergraduate; NUMBER OF LECTURERS: 4; NUMBER OF STUDENTS:130; ; DURATION: 2007 – 2013.
4. COURSE TITLE: FAR152 (Public Health Pharmacy); SEMESTER: 1; YEAR: 1; LEVEL: Undergraduate; NUMBER OF LECTURERS: 5; NUMBER OF STUDENTS:130; ; DURATION: 2007 – 2013.
5. COURSE TITLE: FEL271 (Pharmaceutical Biotechnology); SEMESTER: 1; YEAR: 2; LEVEL: Undergraduate; NUMBER OF LECTURERS: 4; NUMBER OF STUDENTS: 130; DURATION: 2007 – 2013.
6. COURSE TITLE: FAR451 (Introduction to Clinical Pharmacy); SEMESTER: 1; YEAR: 4; LEVEL: Undergraduate; NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS: 130; DURATION: 2007 – 2015.
7. COURSE TITLE: FEL372 (Pharmaceutical Marketing); SEMESTER: 1; YEAR: 3; LEVEL: Undergraduate; NUMBER OF LECTURERS: 4; NUMBER OF STUDENTS: 130; ; DURATION: 2007 – 2014.
8. COURSE TITLE: FEL272 (Pharmacy Management); SEMESTER: 1; YEAR: 4; LEVEL: Undergraduate; NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS: 130; DURATION: 2007 – 2015.
9. COURSE TITLE: FEL471 (Pharmacoepidemiology); SEMESTER: 1; YEAR: 4; LEVEL: Undergraduate (Co-ordinator); NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS: 130; DURATION: 2007 – 2015.

10. COURSE TITLE: FEL474 (Pharmacoeconomics); SEMESTER: 2; YEAR: 4; LEVEL: Undergraduate (Co-ordinator); NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS: 130; DURATION: 2007 – 2015.
11. COURSE TITLE: FAR191 (Research Methodology & Statistics in Pharmacy); SEMESTER: 1; YEAR: 1; LEVEL: Undergraduate; NUMBER OF LECTURERS: 4; NUMBER OF STUDENTS: 130; DURATION: 2012 – NOW.
12. COURSE TITLE: FAR192 (Social & Public Health Pharmacy); SEMESTER: 1; YEAR: 1; LEVEL: Undergraduate; NUMBER OF LECTURERS: 6; NUMBER OF STUDENTS: 130; DURATION: 2012 – NOW.
13. COURSE TITLE: FAR291 (Pharmaceutical Management & Marketing); SEMESTER: 1; YEAR: 2; LEVEL: Undergraduate; NUMBER OF LECTURERS: 4; NUMBER OF STUDENTS: 130; DURATION: 2012 – NOW.
14. COURSE TITLE: FAR391 (Pharmacoepidemiology and Pharmacoeconomics in Developing Countries); SEMESTER: 2; YEAR: 4; LEVEL: Undergraduate (Co-ordinator); NUMBER OF LECTURERS: 3; NUMBER OF STUDENTS: 130; DURATION: 2012 – NOW.

Graduate Supervision

PhD Degree

1. Liau SY. Clinical, economic and humanistic evaluation of a worksite health promotion program conducted among employees of a public university in Malaysia. 2011; Main supervisor (3 involved).
2. Taha NA (PFD-0026/06). Assessment of quality of life, economic and clinical outcomes among patients with schizophrenia in Universiti Kebangsaan Malaysia Medical Centre, 2011; Co-supervisor (3 involved).
3. Al-Qazaz HK. Assessment of knowledge and adherence to medication: a mixed methodology study among patients with type-2 diabetes mellitus in Penang; 2011; Co-supervisor (3 involved)
4. M-Salih M. Pharmacotherapy outcomes and cost evaluation of paediatric epilepsy in Penang Hospital. 2012; Co-supervisor (3 involved).
5. Abd Aziz Mousnad MA. Medicines utilization and expenditures determinants of Sudan National Health Insurance Fund; 2013; Co-supervisor (2 involved).
6. Saleem F. Assessment of a pharmacist initiated health education programme in improving hypertension patients' health related quality of life, disease state knowledge and medication adherence in Quetta city, Pakistan; 2013; Co-supervisor (2 involved).
7. Malik M. A comparative study evaluating rational drug use among public and private healthcare facilities in Pakistan's malaria control programme; 2013; Co-supervisor (2 involved)
8. Nasution A. Clinical and economic impacts of clinical pharmacy education on improvement of antibiotics usage among patients with chronic kidney disease (CKD) in Haji Adam Malik Hospital; 2014; Co-supervisor (2 involved).
9. Haq N. Assessment of a pharmacist initiated health education programme for improving Hepatitis-B patients' disease state knowledge and health related quality of life in Quetta city, Pakistan; 2014; Co-supervisor (2 involved).
10. Atif M. Evaluation of treatment outcome, health-related quality of life and cost of treatment in smear positive pulmonary tuberculosis patients; 2014; Co-supervisor (2 involved).
11. Farooqui M. Use of complementary and alternative medicines among cancer patients in Penang, Malaysia: a qualitative and quantitative assessment of health beliefs, treatment disclosure and health related quality of life; 2014; Co-supervisor (3 involved).
12. Ibrahim KA. The effectiveness of a tobacco cessation intervention program among patients with diabetes at Hospital Pulau Pinang. ; 2014; Co-supervisor (2 involved).
13. Lim CC. Cost-effectiveness modelling of childhood obesity prevention programs: comparison between Sahabat Sihat and Be Best 2012; 2015; Main Supervisor (2 involved).

14. Bashaar M. Assessment of medicine prices, availability and affordability in six provinces of Afghanistan; 2015; Co-Supervisor (2 involved).
15. Mohamad Yahaya AH. A pharmacoepidemiological study on the use of non-prescription medicines utilization in Malaysia; 2015; Co-supervisor (3 involved)
16. Ooi Guat See. Assessment of Malaysian Community Pharmacists' Involvement in Extended Pharmacy Services; 2015; Co-supervisor (4 involved).
17. Abdul Kareem Mohammed Ahmed Al-Shami. Development of a sustainable health care financing model for Universiti Sains Malaysia; 2016; Co-supervisor (2 involved).
18. Goh SL. Evaluation of an Innovative Workplace Quit Smoking Program for Smoking Employees in a Manufacturing Company; 2016; Co-supervisor (4 involved)

Master Degree (Research)

1. Alam K. Evaluation of the awareness of dengue fever among the general population and its management in General Hospital Penang. 2010; Co-supervisor (2 involved)
2. Lee ML. A qualitative exploration of perceptions among patients and health care professionals towards smoking cessation treatment failure and process and economic outcome assessment of Pharmacist Managed Quit Smoking Clinic in the State of Malacca, Malaysia. 2012; Co-supervisor (2 involved)
3. Hari R. Development and heuristic evaluation of an E-Learning Management System for a Pharmaceutical Biotechnology course. 2012; Co-supervisor (3 involved).
4. Chan BL. Identification of factors affecting medicine expenditures at a Malaysia public hospital in Johor. 2013; Co-supervisor (2 involved)
5. Chen LL. Potentially inappropriate medications use among older residents at Penang nursing homes. 2013; Co-supervisor (3 involved).
6. Abdul Ghani NA. Economic and quality of life evaluation of Methadone Maintenance Treatment versus Long Term Residential Treatment (LTRT) Program for drug abuse patients in two public health institutions in Malaysia. 2013; Main Supervisor (2 involved).
7. Shafie F. A study assessing the impact of medication adherence on health-related quality of life and disease management cost among Type 2 diabetes patients in Seremban, Malaysia. 2014; Main Supervisor (2 involved).
8. Lee SW. Development and assessment of an audio visual educational package for educating senior pharmacy students on issues related to generic medicines; 2014; Co-supervisor (2 involved).
9. Chow EP. Evaluation of pharmacist-led home-based intervention among Type 2 diabetes patients from a primary care center in the state of Penang, Malaysia; 2015; Co-supervisor (3 involved).
10. Tan LH. Assessment of public knowledge and perceptions on pharmacy value added services provided by government health facilities in Seremban, Negeri Sembilan, Malaysia; 2015; Co-supervisor (3 involved)
11. Lim YW. Determination of cost effectiveness threshold for Malaysia; 2015; Main supervisor (2 involved)
12. Subramaniam Thanimalai. Cost-effectiveness of Warfarin Medication Therapy Adherence Clinic (WMTAC) versus usual medical clinic (UMC) at Kuala Lumpur Hospital; 2015; Main supervisor (2 involved)
13. Yong Yee Vern. Economic evaluation of Respiratory Medication Therapy Adherence Clinic (RMTAC) on asthma patients in Malaysia; 2015; Main supervisor.
- 14.

Project (Coursework Mode)

1. Mohammed Abdul Hameed; 2008; Electronic medical records (EMR): use and satisfaction among health care providers at USM health clinic; Main Supervisor (2 involved)
2. Muhammad Abdul Hadi; 2008; Comparison of knowledge and perception of breast cancer among women of various ethnic groups In the state Of Penang, Malaysia; Co-supervisor (2 involved)
3. Chiew Geok Ping; 2009; A pilot study evaluating patient satisfaction, cost and humanistic outcome of pharmacist initiated methadone programme at Taiping Health Clinic; Main Supervisor (2 involved)
4. Chua Gin Nie; 2009; A survey on the knowledge and perceptions of general practitioners towards generic medicines; Co-supervisor (2 involved)
5. Yee Siew Mei; 2009; Evaluation of prescribing practices by medical assistants practicing in government healthcare facilities in Kampar district, Malaysia; Co-supervisor (2 involved)
6. Siti Hamisah Said; 2012; Relationship between beliefs, adherence and quality of life (QoL) among chronic kidney disease (CKD) patients on hemodialysis in Penang General Hospital; Co-supervisor (2 involved).

Undergraduate Supervision

Final Year

1. Mohd Amin MN. Use of herbal beverages: assesment of knowledge and self-reported health outcome among people in rural area of Malaysia. 2010
2. Zaid NA. A study exploring perceptions among recent Universiti Sains Malaysia pharmacy graduates toward their preparedness to enter pharmacy workforce and satisfaction towards pharmacy educational program. 2010.
3. Khor XY. Cost-benefit analysis of dispensing separation policy in Malaysia - a decision modelling approach; 2011.
4. Abd Karim A. Determining the unit cost of outpatient visit for diabetes and hypertensive patients in Malaysian health clinic. 2014.
5. Alias NI. Estimating the cost of outpatient consultation for diabetes and hypertension patient in EMPOWER intervention health clinic. 2016.
6. Ramli NH. Comparison of resource utilization and cost analysis between EMPOWER-PAR intervention and usual care of primary healthcare clinic in Sungai Buloh and Pandamaran. 2016.

Other Years

1. Ahmad Irsyaduddin Yamani, Chan Yi Jiun, Chua Li Yen, Khadijah Qistina Mat Shaleh , Nur Aiman Abdul Rahman, Siti Asma Siddiqa Saifuddin, Siti Aisyah Shannnon, Siti Fatimah Abu Kassim, Syarifah Nasuha Sayed Lawi, Tan Hooi Xin, Tey Pei Jin, Ting Huong Touh; 2011-12; Knowledge, attitude and practice in handling food allergy among food handlers in Penang; FAR151.
2. Aisyah Arshad, Aiman Zulkurnine, Chai Wan Jun, Chung Yin Ying, Lim Veen May, Lin Mee Teng, Mazida Katap, Nashrin Abdul Nazier, Nur Zulaika Ghazali, Siti Hani Omar, Syairah Suhaimi; 2011-12; Factors that affect pharmacy students' academic performance in undergraduate pharmacy programme; FAR151.
3. Arifah Binti Che Mohd Shabri, Anaqi Bin Ahmad Tamizi, Jessica Olivia Francis, Luqman Nulhakim Bin Said, Mohammad Saiful Bin Bakhtiarlili, Muhammad Firdaus Bin Abdul Rahim, Muhammad Razzi Bin Ramli, Nur Zulaika Binti Bakri, Reani Azwina Bin Azmin, Siti Marini Binti Rzali, Stephenie Tan May Fung, Thai Ru Way; 2011-12; Applicability of the REALM health literacy test to an English second-language Malaysian population; FAR151.
4. Hasfalzan Bin Abdul Rahman, Fatin Nabilah Binti Md Ali, Fatin Nadiah Binti Azmi, Hanisah Binti Haron, Hidayu Quzaini Bt Mohd Ozair, Intan Nur Ain Binti Abdul Rahim, Irwa Nazira Binti Mohd Adenan, Fan Soo Kheng, Hong Lee Cheng, Jayne Lim Jia Ying, Joan Wong Zu En; 2011-12; Effect of interviewer background and training on validity of Eq-5d valuation; FEL272.

5. John Yip Kar Yong, Joyce Lee Enhui, Lai Kok Lun, Laila Suraya Binti Azman, Mohamad Idham Bin Ilias, Mohamad Hisyam Bin Hamzah, Mursyida Binti Abdullah, Noor Faeza Binti Ruslan, Norfahima Binti Mohd Nadzmi, Nor Sobah Binti Mohd Shafie; 2011-12; Willingness to pay (WTP) for dengue vaccine in Penang, Malaysia; FEL272.
6. Noridarabiatun bin Ali Akbar, Norfazlin binti Abdul Muin, Nur Alyaa Bajana bin Abd Malik, Nur Fadilah binti Tolhah, Mas Hafiz bin Masrus, Mohamad Norhisyam bin Hazni, Mohamad Hafiz bin Abd Rahim, Norain binti Mohammad, Mohamad Dhiyauddin Fadli, Nur Asykin binti Hamid, Nasma binti Jamal Ali; 2011-12; A systematic review: role of pharmacists in warfarin management for outpatient setting; FEL471.
7. Abdullah Sani Bin Baharudin, Adam Fitri Shah Abu Bakar, Adelin Shukor, Ahmed Iskandar Bin Azhan, Aina Hazwani Bt. Amran, arthur James Adong, Azirul Bin Azmain, Farah Hazliyana Binti Abdullah, Ilham Liyana Binti Abd Latif, Marziana Binti Daim, Tharaani a/p Ganeson; 2011-12; Systematic review of the efficacy and safety of management of pharmacological treatment for cigarette smoking; FEL471.
8. Paharudin NA, Rosli NFA, Laidin NH, A. Aziz NF, Yeoh JJ, Fadzil MS, M. Hasni MS, Mohamad MA, M. Mustafa MFR, M. Khatib MA, Mashod NSK; 2011-12; A Systematic Review of Adherence Tools in Diabetes ; FEL471.
9. Siti Norzulaikha Bt Ramely, Siti Norainy Bt Awang, Tengku Norfarhah Bt Tengku Hamzah, Wan Ruzana Bt Wan Jusoh @ Wan Nor, Abdul Aziz B. Ahmad Adli, Muhammad Syafiq Ikhwan B. Salleh, Muhammad Mustaqim B. Juharul Zaman, Muhammad Ridzuanhafiz B. Ibrahim, Wong Su Chin, Zamriah Zulkifli, Omar B. Yahya; 2011-12; Systematic review of the efficacy and safety of male infertility treatment; FEL471.
10. Abd Latif IL, Zahid MA, Ibrahim MR, Abd Malik MAB, Phoon SY, Abu Bakar R, Tengku Hamzah TN, Wong SC, Abu Bakar M; 2011-12; Malaysian pharmaco-economic and outcome research database; FEL471.
11. Ahmad Ghazali Ismail, Choo Mei Yong, Fatin Afiqah Binti Nordin, Lee Yee, Muhammad Hasif Bin Khairuddin, Narmathaa A/P Balakrishnan, Noraihan Binti Mat Aris, Nur Syafiqah Ishak, Nurul Athirah Binti Ahmad, Poon Yee Cheng, Safwah Nadzirah Alia Binti Salleh, Wong Yin Hui; 2013-14; Valuation of hypothetical Euroqol (EQ-5D) health states in Malaysia; FAR191.
12. Joyce Wong Hui En, Kirthigha A/P Rajendran, Lim Joe Ann, Mohd Zulfikar bin Ahmad Fauzi, Nor Hafizah binti Syed Jamil, Nursyuhaida binti Md Kahar, Nurul Nabilah binti Idrus, Tan Kuan Hong, Tion Shean Chui, Zulhilmi Farhan bin Zulkifli; 2012-13; Valuation of Hypothetical Euroqol (EQ-5D) health states in Malaysia; FAR191.
13. Kho J.Q., Zulfitri M.O., Alif M.M., Michelle Y.Y.L, Evadne L.X.W., Maisarah H., Aziemah, Z., Masatiqah N., Nadia A., Alia S., Inani M.N.; 2012-13; Validity of Knowledge, Attitude and Practice (KAP) towards Pharmacoeconomics; FAR191.
14. Long Jia Min, Azimah binti Abu Bakar, Chew Wei Thing, Deepaa A/P Muthu Kumar, Jason Voon Chyn Yie, Alya Aziana binti Kapeli, Muhd Syaiful bin Muhaidi, Nur Adilah binti Sapei, Nur Hanani binti Abdul Halim, Nurul Fatimah binti Arman, Zafirah binti Mohamad; 2012-13; Validity of EQ-5D-5L in Malaysia & assessment of health related quality of life (HRQoL) of Malaysian Population using EQ-5D-5L; FAR191.
15. Joyce Wong Hui En, Kirthigha A/P Rajendran, Lim Joe Ann, Mohd Zulfikar bin Ahmad Fauzi, Nor Hafizah binti Syed Jamil, Nursyuhaida binti Md Kahar, Nurul Nabilah binti Idrus, Tan Kuan Hong, Tion Shean Chui, Zulhilmi Farhan bin Zulkifli; 2012-13; History of Malaysian Pharmacy Service and Penang Malaysian Pharmaceutical Society; FAR191
16. Long Jia Min, Azimah binti Abu Bakar, Chew Wei Thing, Deepaa A/P Muthu Kumar, Jason Voon Chyn Yie, Alya Aziana binti Kapeli, Muhd Syaiful bin Muhaidi, Nur Adilah binti Sapei, Nur Hanani binti Abdul Halim, Nurul Fatimah binti Arman, Zafirah binti Mohamad; 2012-13; Assessment of health related quality of life (HRQoL) of Malaysian Population using EQ-5D-5L; FAR192.
17. Kho J.Q., Zulfitri M.O., Alif M.M., Michelle Y.Y.L, Evadne L.X.W., Maisarah H., Aziemah, Z., Masatiqah N., Nadia A., Alia S., Inani M.N.; 2012-13; Assessment of Knowledge, Attitude and Practice (KAP) towards Pharmacoeconomics; FAR192.
18. Nur Amanina binti Mazlan, Nur Ashila Azleen Ab Haleem, Nur Amirah bt Abdul Hamid, Nur Suriaty binti Azmi, Nur Syafinaz binti Zulman, Nur Syahirah bt Mohd Tajuddin, Nur Syaqira Amira bt. Samsuki, Nur Syazana binti Ahmad, Nurul Afifah Mhamad, Nurul Ameera bt Ahmad Halimi, Nurul Nabila bt Amer, Oong Chi San, Revathy Kanasin, Sia Zi Kang, Siti Amirah bt Mohamed Yusoff, Siti Hajar Mohd Zaidi, Siti Nor Aishah binti Muhamad, Soh Sin Yee, Syahidan bin Abdul Majid; 2012-13; Asia collaborative research project to determine Willingness-To-Pay per Quality-Adjusted Life Year: WTP/QALY; FEL372.

19. Group 2. 2012-13; Systematic review of Quality Of Life estimate in Malaysia; FEL471.
20. Aina Syazwani bt Ahmad Yatim, Chow Yan Ning, Hanisah bt Tarsik, Leong Chi Kay, Muhammad Hilmi Fahmi bin Awal Ludin, Niole Kumar A/P Kunaseelan, Norfadilah binti Mohamad Abdul Sarif, Nur Syazwani bt Abdul Shukoor, Nurul Einshyrah binti Edzuddin, Quek Chia Ying, Shafiqah binti Muhammed Iqbal; 2013-2014; Effect of attire on public trust to community pharmacist in Malaysia; FAR191.
21. Fatin Nabilah bt. Md Ali, Fatin Nadiah bt Azmi, Hanisah bt Haron, Muhammad Ehsan bin Zahir, Nur Suriaty bt Azmi, Teong Win Zee; 2013-14; The measurement of Utilities in Asthma patient: A preliminary study; FEL474.
22. Angela Teoh Xing Yee, Chiew Yuen Kiat, Koh Yi Lim, Muhammad Afif Na'im bin Mohamad Nazdmi, Muhammad Ashraf bin Kamarul Zaman, Nur Alia bt Mohd Ali, Tan Run Shi, Thanussha A/P Jayakumar, Thum Chen Shien, Wong Xin Min; 2014-15; Exploration Of HRQoL definition among the Malaysian population; FAR191.
23. Andrew Roy Pereira, Che Ahmad Khalil Hilmi Bin Che Khazahari, Gan Siew Pei, Kho Boon Kie, Liew Jin Sian, Mohd Misran Bin Mohd Kori, Ng Qi Hao, Nurul Ainatul Liyana Bt Hj Mohtadar, Siti Nur Haseena Bt Mohamad Hajar, Tham Shuni, Vinotha a/p Palaniappan; 2014-15; Measurement of utilities in asthma patients; FAR191.
24. Khoo Siew Li, Liew Qiao Wei, Lim Hui Peng, Chen Fan Jie, Sutha A/P Krishnan, Nurul Atikah Nor Zaili, Wilson Darius, Nurul Syahadah binti Fuad, Ng Yee Lin, Gan Yi Liang, Grace Siew Sing Shu; 2014-15; Measurement of utilities in asthma patients; FAR191.
25. Liew Kay Yee, Cheng Mei Teng, Julia Loi Siew Hsia, Amyra Sorffina Zainal Shazmir, Vithiya Ganeson, Suphansa A/P Fun Pon, Faiqah Nabilah Noorhaidi, Nur Ezzati Abidin, Yu Kae Wey, Ng Jin An, Nurul Zaahiroh Mohd Dzahir, Muhammad Aliff Iqmall Muhammad; 2015-16; Assessment of Knowledge and Prevention Practices Regarding Dengue Illness, Vaccination Attitude, Acceptance and Willingness To Pay For A Dengue Vaccine in Penang; FAR191.
26. Ang See Ping, Chia Hui Xing, Faizah Phazaluddin, Kaashini Velu Murugan, Lim Hoi Leng, Muhammad Asyraf Shahari, Ng Siew Ling, Nur Fatiha Jonoo, Ong Li Chean, Suramay Boon Kong, Wan Nusaibah Wan Othman, Zuliza Atifah Zulkifli; 2015-16; Choice of health care providers in Malaysia; FAR191.
27. Ang Sui Yen, Chitramala Gunasekaran, Fara Athira Danial, Kannan Elangovan, Lim Hui Ping, Muhammad Izzuddin Azman, Nik Faris Farhan Nik Mohamad Zalani, Nur Hamimah Hasnor, Ooi Pei Jiunn, Syaadrina Zulkefli, Wan Pei Zan; 2015; To study the effects of haze to people in Malaysia; FAR191.
28. Ang Xiao syuen, Chan Wei Ning, Edward Tan Kong Weng, Kaizhah Binti Bashir Ahmad, Long Guo Jian, Muhammad Arif Bin Ya'amat, Norfarahani Binti Md Fadzillah, Nurlisya Rafiha Binti Anuar, Sarvheene a/p Selvarajoo, Siti Nur Najihah Binti Abas, Tinagaran a/l Karunakaran, Anis Husna Binti Muhammad, Cheng Angell, Enn A/P Ewan, Keng Xing Zen, Loo Huichyn, Muhammad Hafiz Bin Mohd Zaki, Nur Adila Binti Mat Ludin, Nurul Ain Binti Azman, hamila A/P Selvarajoo, Sorffina Binti Abdul Rohim, Toh Hui Min, Low Khai Hang, Nurul Aqilah Binti Abdul Rahim, Nadia Najihah Binti Ghazali, Kh'ng Jia Yi, Nur Adlina Binti Aznan, Chiang Mun Qi, Syazlin Syahira Binti Sahid Abdullah, Wan Nuraqilah Izzati Binti Wan Mohd Rushidi, Faizanah Binti Mohaidin, Anudiinee A/P Kobu, Shanthini A/P Supparamaniam. 2016/17. Estimating the Impact of Hypoglycaemia on Utility. FAR191.
29. Aina Syazwani Binti Ahmad Yatim, Cheah Bi Ling, Hanisah Binti Tarsik, Leong Chi Kay, Moy Ying Hui, Noor Liana Binti Mohamad, Nur Dayana Syazlina Binti Rusli, Nursyahirah Binti Abdul Latif, Nuur Jannah Bt Md.Akhir, Soon Yung Xin, Wong Yin Hui. 2016. Estimating the cost of cardiovascular event in Malaysia. FAR391.
30. Aireen Najwa Binti Amsan, Chia Xin Qi, Ili Nabilah Binti Mohd Mokhtar, Lew Shui Sheng, Muhammad Ammar Farhan Bin Abd Razak, Noor Shakirah Binti Mohd Rosli, Nur Hidayati Binti Noorshamsudin, Nurul Afifah Binti Mat Zin, Poon Yee Cheng, Sujana A/L Vijayan, Yew Jia Ying. 2016. Estimating the cost of stroke in Malaysia. FAR391.
31. Ahmad Ghazali Bin Ismail, Chang Zi Jin, Goh Shu Yin, Leonard Leging Anak Sandin, Mohd Zul Irfan Bin Zulkifli, Noor Hamiza Bt Abdullah, Nur Atiqah Bt Rosman, Nurun Najah Bt Ibrahim, Nurfarzana Nadhirah Bt Mohd Fauzi, Siti Nurnadhirah Bt Mohd Aripin, Vigneswari A/P Ramasamy. 2016. Are multi-attribute utility instruments (maui) cultural specific?. FAR391.

Industrial Training/Community Case Study

1. Teh Chiaw Woon, Lee Sui Fang, Lee Mun Keet, Mohd Fakarul Radzi Mohamed Mustafa, Mohd Hafizul Anha Mohd Isa; 2009; Agama Buddha.
2. Nurul Afifah Paharudin, Masyitah Ishak, Mastura Abu Bakar, Law Miao Ni, Flora Sim Wang Ying, Lay Ying Hui; 2009; Rumah-rumah ibadat di sekita Bukit Bendera - satu contoh masyarakat majmuk.
3. Azirul Azmain, Farhani Adlina, Khor Yean Sin, Linda Maria Elizabeth, Mok Wuai Kit, Nasma Jamal Ali, Ong Jia Hui, Tan Chai Meng, Teh Chiaw Woon, Wan Alia Amalina; 2009; Pharmacy management: Lockhardt's medical pharmacy; FEL272.
4. Chua Hui Joo, Juriah M Ismail, Khor Xin Yun, Lee Qian Jin, Leong Pui Chee, Mohd Nur Hafiy Fiy Mohamad Husen, Muhammad Azzim Izuddin, Ooi Soon Choo, Soh Ziao Thong, Thamron Keowmani Eh Sau; 2009; Pharmaceutical marketing: Reputation of community pharmacy; FEL372.
5. Huang Dun How, Caroline Chong Ching Ni, Chai Yee Ting, Chai Yee Yien, Chia Pooi Yin, Chua Sue Hoon, Khor Chin Poo, Murshida Ibrahim, Thum Hau Ling, Ting Siao Ding, Toh Hooi Zhi; 2009; Pharmaceutical marketing: Plan to overcome sales decline; FEL372.
6. Ng Hui Wen, Nor Atiqah Ahmad, Nor Hidayah Mat Nawawi, Nor Salmiah Abdullah Sani, Nor Hidayah Ruzalle; 2010; Pharmaceutical biotechnology: online sources for pharmaceutical biotechnology; FEL271.
7. Tan Yaw Hen, Ngoo Qi Han, Nur 'Afiqah Ruslan, Ikrar Asril, Norfaeizah A Rahman; 2010; Pharmaceutical biotechnology education around the world; FEL271.
8. Chan May Yee, Lean Yan Kai, Yoong Lai Keng, Siti Farhah Binti Kamaludin, Tong Pay Chyi, Norsuziana Binti Haris, Harnisya A/P Kanesan, Muslihah Binti Mohamed Nadzri, Abhirami A/P Kalaithasan, Dyvia Tiba Anak Frankonero, Maizatul Sakini Sakawi, Nurul Husna Hilmi. 2016. Direct-to-consumer advertising of prescription drugs. FAR291.
9. Chen Hui Bing, Liew Kay Yee, Alif Izzati Binti Nazarudin, Wan Nusaibah Bt Wan Othman, Jackson Li Wei Hao, Nur Ezzati Binti Abidin, Ng Jin An, Eva Joseph Donsia, Suphansa A/P Fun Pon, Muhammad Aliff Iqmall Bin Muhammad, Nurul Zaahiroh Binti Mohd Dzahir, Zara Raisya Alisha Binti Abdullah. 2016. Patient access scheme towards innovative drugs. FAR291.
10. Amyra Sorffina Binti Zainal Shazmir, Cheng Mei Teng, Faiqah Nabilah Binti Noorhaidi, Julia Loi Siew Hsia, Lim Hoi Leng, Muhammad Asyraf Bin Shahari, Ng Siew Ling, Nur Fatihah Binti Jonoo, Ong Li Chean, Suramay A/P Boon Kong, Wan Pei Zan, Zuliza Atifah Binti Zulkifli. 2016. Value-based pricing for pharmaceutical products. FAR291.
- 11.

Professional Service

Continuous Education (per presentation)

1. Presentation Title: Introduction to Pharmacoeconomics. Event: Research Methodology & Statistical Procedures Application in SAP Research and Introduction to Pharmacoeconomics. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia, Penang. Date: 21 - 23 February 2008.
2. Presentation Title: Techniques in economic evaluation. Event: Research Methodology & Statistical Procedures Application in SAP Research and Introduction to Pharmacoeconomics. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia, Penang. Date: 21 - 23 February 2008.
3. Presentation Title: Elements of a sound economic evaluation. Event: Research Methodology & Statistical Procedures Application in SAP Research and Introduction to Pharmacoeconomics. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia, Penang. Date: 21 - 23 February 2008.
4. Presentation Title: Basic concepts in statistics. Event: Research Methodology & Statistical Procedures Application in SAP Research and Introduction to Pharmacoeconomics. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia, Penang. Date: 21 - 23 February 2008.

5. Presentation Title: Missing data analysis. Event: Research Methodology & Statistical Procedures Application in SAP Research and Introduction to Pharmacoeconomics. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia, Penang. Date: 21 - 23 February 2008.
6. Presentation Title: Using SPSS for data analysis - some basics. Event: Bengkel Analisis Data bagi Projek A National Survey on the Use of Medications by Malaysian Consumers. Organizer: Pharmaceutical Services Division, MoH. Location: Hotel Berjaya Georgetown, Penang. Date: 20 - 22 October 2008.
7. Presentation Title: Overview of SPSS in data analysis. Event: Bengkel Analisis Data bagi Projek A National Survey on the Use of Medications by Malaysian Consumers. Organizer: Pharmaceutical Services Division, MoH. Location: Hotel Berjaya Georgetown, Penang. Date: 20 - 22 October 2008.
8. Presentation Title: Linguistic validation and cultural adaptation of QOL instrument. Event: Mini-Workshop and Meeting on the Linguistic Validation and Cultural Adaptation of the Wisconsin Smoking Withdrawal Scale into Malaysian Malay Language. Organizer: National Poison Centre of Malaysia. Location: Universiti Sains Malaysia. Date: 30 October 2008.
9. Presentation Title: Basic statistical concepts. Event: Bengkel Research Methodology & Statistical Analysis in Clinical Study. Organizer: Jabatan Farmasi Hospital Sultanah Bahiyah. Location: Hospital Alor Star, Kedah, Malaysia. Date: 17 - 18 December 2008.
10. Presentation Title: Report writing. Event: Bengkel Research Methodology & Statistical Analysis in Clinical Study. Organizer: Jabatan Farmasi Hospital Sultanah Bahiyah. Location: Hospital Alor Star, Kedah, Malaysia. Date: 17 - 18 December 2008.
11. Presentation Title: Sampling and sample size. Event: Bengkel Research Methodology & Statistical Analysis in Clinical Study. Organizer: Jabatan Farmasi Hospital Sultanah Bahiyah. Location: Hospital Alor Star, Kedah, Malaysia. Date: 17 - 18 December 2008.
12. Presentation Title: Pengenalan kaunseling ubat. Event: Bengkel Pemantapan Kaunseling. Organizer: Bahagian Perkhidmatan Farmasi Kelantan. Location: Royal Guest House, Kelantan, Malaysia. Date: 10 - 12 February 2009.
13. Presentation Title: Komunikasi berkesan dalam kaunseling ubat. Event: Bengkel Pemantapan Kaunseling. Organizer: Bahagian Perkhidmatan Farmasi Kelantan. Location: Royal Guest House, Kelantan, Malaysia. Date: 10 - 12 February 2009.
14. Presentation Title: Advantages & disadvantages of different study designs. Event: Research Methodology Workshop. Organizer: Penang Health States Department. Location: Penang Hospital, Malaysia. Date: 18 - 20 February 2009.
15. Presentation Title: Sampling & sample size. Event: Research Methodology Workshop. Organizer: Penang Health States Department. Location: Penang Hospital, Malaysia. Date: 18 - 20 February 2009.
16. Presentation Title: Research report preparation. Event: Research Methodology Workshop. Organizer: Penang Health States Department. Location: Penang Hospital, Malaysia. Date: 18 - 20 February 2009.
17. Presentation Title: Career in pharmacy. Event: The Star Education Fair 2010. Organizer: Star Publications (M) Berhad. Location: Penang International Sport Arena, Penang, Malaysia. Date: 1 March 2009
18. Presentation Title: Introduction to basic statistical concepts. Event: Bengkel R & D. Organizer: Jabatan Kesihatan Negeri Sembilan. Location: Hotel Seri Malaysia, Bagan Lalang. Date: 4 - 6 March 2009.
19. Presentation Title: Disseminating research. Event: Bengkel R & D. Organizer: Jabatan Kesihatan Negeri Sembilan. Location: Hotel Seri Malaysia, Bagan Lalang. Date: 4 - 6 March 2009.
20. Presentation Title: Journal resources on the internet: how to conduct effective literature review. Event: Bengkel R & D. Organizer: Jabatan Kesihatan Negeri Sembilan. Location: Hotel Seri Malaysia, Bagan Lalang. Date: 4 - 6 March 2009.
21. Presentation Title: Introduction to sampling in research. Event: Bengkel R & D. Organizer: Jabatan Kesihatan Negeri Sembilan. Location: Hotel Seri Malaysia, Bagan Lalang. Date: 4 - 6 March 2009.
22. Presentation Title: Assessing relationship. Event: Bengkel Kursus Statistik Asas dalam Farmasi untuk Pelajar Siswazah. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia. Date: 12 - 13 March 2009.

23. Presentation Title: Descriptive statistics. Event: Bengkel Kursus Statistik Asas dalam Farmasi untuk Pelajar Siswazah. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia. Date: 12 - 13 March 2009.
24. Presentation Title: Using SPSS for data analysis. Event: Bengkel Basic Research Methodology Part II. Organizer: Jabatan Kesihatan Wilayah Persekutuan. Location: Bilik Seminar JKWPKL. Date: 25 - 27 March 2009.
25. Presentation Title: Pengenalan kaunseling ubat. Event: Bengkel Pemantapan Kaunseling. Organizer: Bahagian Perkhidmatan Farmasi Kelantan. Location: Sutera Inn, Kelantan, Malaysia. Date: 5 - 7 May 2009.
26. Presentation Title: Komunikasi berkesan dalam kaunseling ubat. Event: Bengkel Pemantapan Kaunseling. Organizer: Bahagian Perkhidmatan Farmasi Kelantan. Location: Sutera Inn, Kelantan, Malaysia. Date: 5 - 7 May 2009.
27. Presentation Title: Introduction & ethics to research. Event: DSAP Short Course - Introduction to Research Methodology. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 16 - 18 June 2009.
28. Presentation Title: Research design. Event: DSAP Short Course - Introduction to Research Methodology. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 16 - 18 June 2009.
29. Presentation Title: Sampling & sample size calculation. Event: DSAP Short Course - Introduction to Research Methodology. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 16 - 18 June 2009.
30. Presentation Title: Disseminating research findings. Event: DSAP Short Course - Introduction to Research Methodology. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 16 - 18 June 2009.
31. Presentation Title: Cross tabulations and testing for significant relationships using chi square. Event: DSAP Short Course - Step by Step to Data Analysis Using SPSS. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 18 - 19 November 2009.
32. Presentation Title: Assessing relationships between continuous variables through plots and correlation. Event: DSAP Short Course - Step by Step to Data Analysis Using SPSS. Organizer: Discipline of Social & Administrative Pharmacy. Location: Universiti Sains Malaysia. Date: 18 - 19 November 2009.
33. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: DSAP Short Course Series: Introduction to Pharmacoeconomics. Organizer: Universiti Sains Malaysia. Location: Penang, Malaysia. Date: 21 - 22 March 2012.
34. Presentation Title: Investigating pharmacoeconomic research questions II (CEA & CUA). Event: DSAP Short Course Series: Introduction to Pharmacoeconomics. Organizer: Universiti Sains Malaysia. Location: Penang, Malaysia. Date: 21 - 22 March 2012.
35. Presentation Title: Investigating pharmacoeconomic research questions III (CBA). Event: DSAP Short Course Series: Introduction to Pharmacoeconomics. Organizer: Universiti Sains Malaysia. Location: Penang, Malaysia. Date: 21 - 22 March 2012.
36. Presentation Title: Overview of workshop. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 - 10 October 2013.
37. Presentation Title: Overview of discounting & sensitivity analysis in pharmacoeconomic. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 - 10 October 2013.
38. Presentation Title: Overview of MS Excel. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 - 10 October 2013.
39. Presentation Title: Ratoinal and policy context of pharmacoeconomic modelling. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 - 10 October 2013.

40. Presentation Title: Key concepts in modelling. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
41. Presentation Title: Developing decision tree model of HIV/AIDS. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
42. Presentation Title: Key concepts in deterministic Markov modelling. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
43. Presentation Title: Making model probabilistic. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
44. Presentation Title: Analyzing and presenting simulation. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
45. Presentation Title: Appraisal of decision model. Event: Decision Modelling for Pharmacoeconomic Evaluation Workshop. Organizer: Pharmaceutical Service Division. Location: Negeri Sembilan, Malaysia. Date: 7 – 10 October 2013.
46. Presentation Title: Importance of Pharmacoeconomic. Event: Bengkel Farmakoekonomik. Organizer: Institut Kanser Negara. Location: Putrajaya. Date: 25 February 2015.
47. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: Bengkel Farmakoekonomik. Organizer: Institut Kanser Negara. Location: Putrajaya. Date: 25 February 2015.
48. Presentation Title: Investigating pharmacoeconomic research questions II (CEA, CUA, CBA). Event: Bengkel Farmakoekonomik. Organizer: Institut Kanser Negara. Location: Putrajaya. Date: 25 February 2015.
49. Presentation Title: Investigating pharmacoeconomic research questions IV (Discounting & Sensitivity Analysis). Event: Bengkel Farmakoekonomik. Organizer: Institut Kanser Negara. Location: Putrajaya. Date: 25 February 2015.
50. Presentation Title: Reporting and appraisal of pharmacoeconomic evaluation study. Event: Bengkel Farmakoekonomik. Organizer: Institut Kanser Negara. Location: Putrajaya. Date: 25 February 2015.
51. Presentation Title: Importance of Pharmacoeconomic. Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
52. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
53. Presentation Title: Investigating pharmacoeconomic research questions II (CEA & CUA). Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
54. Presentation Title: Investigating pharmacoeconomic research questions III (CBA). Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
55. Presentation Title: Investigating pharmacoeconomic research questions IV (Discounting & Sensitivity Analysis). Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
56. Presentation Title: Reporting and appraisal of pharmacoeconomic evaluation study. Event: Bengkel Farmakoekonomi. Organizer: Jabatan Kesihatan Negeri Melaka. Location: Melaka. Date: 11 - 12 March 2015.
57. Presentation Title: Importance of Pharmacoeconomic. Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.
58. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.

59. Presentation Title: Investigating pharmacoeconomic research questions II (CEA & CUA). Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.
60. Presentation Title: Investigating pharmacoeconomic research questions III (CBA). Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.
61. Presentation Title: Investigating pharmacoeconomic research questions IV (Discounting & Sensitivity Analysis). Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.
62. Presentation Title: Reporting and appraisal of pharmacoeconomic evaluation study. Event: Kursus Farmakoekonomi Peringkat Negeri Terengganu. Organizer: Jabatan Kesihatan Negeri Terengganu. Location: Terengganu, Malaysia. Date: 22 – 23 March 2015.
63. Presentation Title: Importance of Pharmacoeconomic. Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
64. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
65. Presentation Title: Investigating pharmacoeconomic research questions II (CEA & CUA). Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
66. Presentation Title: Investigating pharmacoeconomic research questions III (CBA). Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
67. Presentation Title: Investigating pharmacoeconomic research questions IV (Discounting & Sensitivity Analysis). Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
68. Presentation Title: Reporting and appraisal of pharmacoeconomic evaluation study. Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Perak. Date: 23 – 25 March 2015.
69. Presentation Title: Importance of Pharmacoeconomic. Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
70. Presentation Title: Investigating pharmacoeconomic research questions I (Cost & Outcome). Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
71. Presentation Title: Investigating pharmacoeconomic research questions II (CEA & CUA). Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
72. Presentation Title: Investigating pharmacoeconomic research questions III (CBA). Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
73. Presentation Title: Investigating pharmacoeconomic research questions IV (Discounting & Sensitivity Analysis). Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
74. Presentation Title: Reporting and appraisal of pharmacoeconomic evaluation study. Event: Kursus Economic Evaluation in Health Promotion. Organizer: Health Education Division, Ministry of Health. Location: Pahang. Date: 30 July – 1 August 2015.
75. Presentation Title: Importance of Pharmacoeconomic. Event: Pharmacoeconomic Workshop. Organizer: Clinical Research Centre Perak. Location: Sabah. Date: 19 – 20 September 2015.

76. Presentation Title: Investigating pharmaco-economic research questions I (Cost & Outcome). Event: Pharmaco-economic Workshop. Organizer: Clinical Research Centre Perak. Location: Sabah. Date: 19 – 20 September 2015.
77. Presentation Title: Overview of economic evaluation. Organizer: Clinical Research Centre Perak. Location: Sabah. Date: 19 – 20 September 2015.
78. Presentation Title: Investigating pharmaco-economic research questions IV (Discounting & Sensitivity Analysis). Organizer: Clinical Research Centre Perak. Location: Sabah. Date: 19 – 20 September 2015.
79. Presentation Title: Health economic models and their applications and the related biostatistics. Event: Workshop on Pharmaco-economics in Informed Decision Making 2016. Organizer: Selangor Health Service Department. Location: Hospital Selayang. Date: 7 – 8 April 2016.
80. Presentation Title: Importance of economic evaluation for novel cancer interventions. Organizer: Cancer Research Malaysia. Location: Selangor. Date: 17 February 2017.

ACADEMIC RECOGNITION AND LEADERSHIP

Academic Awards

1. Award's Name: Sijil Perkhidmatan Cemerlang. Date: 2000. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
2. Award's Name: Commended Poster Award. Date: 2005. Level: International. Awarding Body: The Royal Pharmaceutical Society of Great Britain. Country: United Kingdom
3. Award's Name: Sijil Perkhidmatan Cemerlang. Date: 2008. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
4. Award's Name: WHO - HTAi Travel Grant Award. Date: 2010. Level: International. Awarding Body: World Health Organization. Country: Switzerland
5. Award's Name: Anugerah Sanggar Sanjung 2009 (Excellence Award in Journal Publication Category). Date: 19 March 2010. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
6. Award's Name: Hadiah Sanjungan 2009 (Excellence Prize in Journal Publication Category). Date: 19 March 2010. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
7. Award's Name: Hadiah Sanjungan 2010 (Excellence Prize in Journal Publication Category). Date: 17 Mac 2011. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
8. Award's Name: 1st Prize Paper Presentation Award for paper entitled 'Should Malaysia separate dispensing role from doctors?' in the 10th Asia Pacific Pharmaceutical Symposium. Date: 2 – 8th July 2011. Level: International. Awarding Body: International Pharmaceutical Students' Federation. Venue: Indonesia.
9. Award's Name: Best Oral Presentation Award for paper entitled 'The role of medication beliefs in adherence among diabetic patients: a cross-sectional study' in the Diabetes Asia 2011 Conference. Date: 6 – 9th October 2011. Level: International. Awarding Body: National Diabetes Institute. Venue: Malaysia.
10. Award's Name: Anugerah Sanggar Sanjung 2011 (Excellence Award in Journal Publication Category). Date: 10 July 2012. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
11. Award's Name: Hadiah Sanjungan 2011 (Excellence Prize in Journal Publication Category). Date: 10 July 2012. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia
12. Award's Name: 1st Place Poster Presentation Competition for paper entitled 'Assessment of the Psychometric Properties of the EQ-5D in Opiate-Dependent Patients' in the Kedah Research Day 2012. Date: 2012. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia

13. Award's Name: 3rd Prize Poster Presentation Award for paper entitled 'Economic Evaluation of Methadone Maintenance Therapy and Long-term Residential Treatment Program for Drug Abuse Patients' in the 6th National Conference for Clinical Research. Date: 26 - 28 Sept 2012. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia
14. Award's Name: Anugerah Sanggar Sanjung 2012 (Excellence in Journal Publication Category). Date: 18 September 2013. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
15. Award's Name: 1st Prize Presentation Award (Economic Evaluation) for paper entitled 'Economic evaluation of asthma management on asthma patients: a systematic review' in the 2nd HTAsiaLink. Date: 13 - 15th May 2013. Level: International. Awarding Body: HTAsiaLink. Country: Malaysia
16. Award's Name: 1st Prize Poster Presentation Award for paper entitled Exploring willingness-to-pay for a Quality-Adjusted-Life-Year in Malaysia' in the 1st National Conference on Quality Use of Medicines. Date: 1 - 3rd July 2013. Level: National. Awarding Body: Pharmaceutical Services Division. Country: Malaysia
17. Award's Name: 1st Prize Young Investigators Award for paper entitled 'Determination of cost-effectiveness threshold for Malaysia' in the 8th National Conference for Clinical Research. Date: 30th September – 2nd October 2014. Level: National. Awarding Body: Clinical Research Centre. Country: Malaysia.
18. Award's Name: Shortlisted for Merdeka Award Grant for International Attachment. Date: 7th April 2014. Level: National. Awarding Body: Merdeka Award Trust. Country: Malaysia.
19. Award's Name: Anugerah Sanggar Sanjung 2013 (Excellence in Journal Publication Category). Date: 3 November 2014. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
20. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Systematic review of factors affecting pharmaceutical expenditures. Health Policy. 2014;116(2-3):137-46'. Date: 16 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
21. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Assessing quality of a worksite health promotion programme from participants' views: findings from a qualitative study in Malaysia. Health expectations. 2014;17(1):116-28.'. Date: 16 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
22. Award's Name: Anugerah Sanggar Sanjung 2014 (Excellence in Journal Publication Category) for article 'Impact of tuberculosis treatment on health-related quality of life of pulmonary tuberculosis patients: a follow-up study. Health and Quality of Life Outcomes. 2014;12(1):19.'. Date: 16 November 2015. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
23. Award's Name: Best Poster Award for poster 'Health economic impact and cost-effectiveness of future dengue vaccination program in Malaysia' in the 12th Malaysian Pharmaceutical Society Scientific Conference. Date: 16 November 2015. Level: National. Awarding Body: Malaysian Pharmaceutical Society. Country: Malaysia.
24. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Assessment of knowledge, attitude and practice of food allergies among food handlers in the state of Penang, Malaysia. Public Health. 2015;129(9):1278-84'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
25. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Duration of treatment in pulmonary tuberculosis: are international guidelines on the management of tuberculosis missing something? Public Health. 2015'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
26. Award's Name: Anugerah Sanggar Sanjung 2015 (Excellence in Journal Publication Category) for article 'Building intentions with the theory of planned behaviour: a qualitative assessment of salient beliefs about pharmacy value added services in Malaysia. Health expectations : an international journal of public participation in health care and health policy. 2015'. Date: 23 October 2016. Level: National. Awarding Body: Universiti Sains Malaysia. Country: Malaysia.
27. Award's Name: Best Student Poster Research Presentation for paper entitled 'Exploring the cost-effective threshold price of dengue vaccination programs in Malaysia: a value-based pricing assessment' in the ISPOR

- 21st Annual International Meeting. Date: 21st – 25th May 2016. Level: International. Awarding Body: International Society for Pharmacoeconomic and Outcomes Research. Country: Washington, US.
- 28.

Media Coverage

1. Kaur S. Generic meds just as good. The Star. 2 February 2012. Available online <http://thestar.com.my/news/story.asp?file=/2012/2/2/nation/10659279&sec=nation>.

Academic Assessor/External Examiner/ Member of Board of Studies

1. Position: Academic assessor. Institution: Pharmacy Faculty, UiTM. Date: 28 July 2008.
2. Position: External Assessor for Confirmation of PhD Candidature of Fun Weng Hong. Institution: Jeffrey Cheah School of Medicine and Health Science, Monash University. Date: 23 January 2013.
3. Position: External Examiner for Bachelor of Pharmacy (Hons) Programme. Institution: International Medical University Malaysia. Date: 31 December 2013.
4. Position: External Examiner for Pharmacy Practice Program in Bachelor of Pharmacy. Institution: Cyberjaya University College of Medical Sciences. Date: 22 April 2014.
5. Position: External Examiner for Diploma of Pharmacy. Institution: Institut Latihan Kesihatan Angkatan Tentera. Date: 10 Disember 2014.
6. Position: Academic Assessor for Master of Health Economics. Institution: Monash University. Date: 15 September 2015.
7. Position: External Examiner for Bachelor of Pharmacy (Hons) Programme. Institution: International Medical University Malaysia. Date: 1st October 2016 – 30th June 2018.
8. Position: External Assessor for PhD Candidature of Chong Huey Yi. Institution: Jeffrey Cheah School of Medicine and Health Science, Monash University. Date: 23 January 2016.
- 9.

External Examiner for Thesis

1. Candidate: Wang Ye. Title: Patient reported outcomes and pharmacoeconomic analysis of patients taking anticoagulants. Level: PhD. Institution: National University of Singapore. Year: 2013.
2. Candidate: Umar Idris Ibrahim. Title: Mobile smartphone as health monitoring tool in community pharmacies. Level: MSc. Institution: Universiti Sultan Zainal Abidin. Year: 2015.
3. Candidate: Lee Hooi Leng. Title: Utilization of preventive strategies for nonsteroidal anti-inflammatory drug (NSAID)-induced upper gastrointestinal events. Level: MMedSc. Institution: Universiti of Malaya. Year: 2016.
4. Candidate: Norhayati Mustapha. Title: The impact of integrated educational programme on health-related quality of life (HRQoL) profiles, coping mechanisms, knowledge, attitudes and practices of HIV/AIDS family caregivers. Level: MSc. Institution: Universiti Sultan Zainal Abidin. Year: 2016.
5. Candidate: Noraziani Khamis. Title: Penilaian ekonomi rawatan untuk kejadian berkatian tulang (KBT) dan tiada KBT di kalangan pesakit kanser payudara dan prostat. Level: DPh. Institution: Universiti Kebangsaan Malaysia. Year: 2016.
- 6.

Internal Examiner for Thesis

1. Candidate: Qais Mohammad Ahmad Al-Efan. Title: Pharmacoeconomic Analysis Of Controlling Blood Pressure At Various Stages Of Hypertension In Ambulatory Care Clinic. Level: PhD. Year: 2009.

2. Candidate: Azuwana Supian. Title: Impact of 'Pharmacist Homecare Service' on Medication Adherence and Knowledge among Hypertensive Patients in Seremban. Level: MSc. Year: 2009.
3. Candidate: Norazlin A Kadir. Title: A Comparative Study on Economic Burden between Schizophrenia and Diabetes Mellitus. Level: MSc. Year: 2009.
4. Candidate: Hamid Mahmoud Nasreldeen Mohammed. Title: Pharmacoepidemiological Evaluation of Antifungal Drug Therapy Used in a Teaching Hospital. Level: MSc. Year: 2009.
5. Candidate: Muna Awad Mohamed Suhil. Title: Pharmacoepidemiology and cost evaluations of hypertension management in Universiti Sains Malaysia. Level: MSc. Year: 2009.
6. Candidate: Tri Murti Andayani. Title: Impact of Insulin vs Combination Oral Antidiabetic Therapy on Health-Related Quality of Life, Economic and Clinical Outcomes in Poorly Controlled Type 2 Diabetic Outpatients. Level: PhD. Year: 2010.
7. Candidate: Khalid Ibrahim Alfadol. Title: Evaluation of Medicine Prices, Availability, Affordability and Price Components in Sudan. Level: PhD. Year: 2010.
8. Candidate: Qais Mohammad Ahmad Al-Fan. Title: Pharmacoeconomic analysis of controlling blood pressure at various stages of uncomplicated hypertension in ambulatory care clinic. Level: PhD (reexamination). Year: 2010.
9. Candidate: Ramli Zainal. Title: Economic impact of an asthma care programme on health care resource utilization amongst children with asthma. Level: PhD. Year: 2010.
10. Candidate: Munaver Ahmad Nazir Ahmad. Title: Being religious may delay the onset of stroke in patients with established risk factors of stroke a cohort study on Malay Muslim patients. Level: MSc. Year: 2010.
11. Candidate: Shazia Jamshed. Title: Qualitative and quantitative analysis of consumers, healthcare professionals, and future practitioners stance on contemporary issues surrounding generic medicine use in Pakistan. Level: PhD. Year: 2010.
12. Candidate: Ang Zhen Kim. Title: Consumers' awareness and perception towards provision of health promotion services by community pharmacists in Penang, Malaysia. Level: Undergraduate FEL472. Year: 2010.
13. Candidate: Abubakr Abderaouf Alfadi Ali. Title: Qualitative and quantitative studies of knowledge and perceptions toward counterfeit drugs among health policy-makers, community pharmacists and consumers in Sudan. Level: PhD. Year: 2011.
14. Candidate: Fatokun Omotayo Oladuntoye. Title: Generic entry in the Malaysian pharmaceutical industry: policies, characteristics and determinants. Level: PhD. Year: 2011.
15. Candidate: Mukhtar Ansari. Title: Evaluation of the impact of educational intervention on traditional beliefs, knowledge, attitude and practice about childhood diarrhea and its management among the mothers in Morang, Nepal. Level: PhD. Year: 2011.
16. Candidate: Fathkiah Haji Khalil. Title: Economic burden Type 2 diabetes in Malaysia: the impact of price components of medicines to direct medical cost. Level: MSc. Year: 2012.
17. Candidate: Omar Saad Saleh Abrika. Title: A qualitative and quantitative study evaluating perceptions among pharmacy academics, practitioner and senior pharmacy students in Libya towards the need for social pharmacy courses in pharmacy curriculum. Level: PhD. Year: 2013.
18. Candidate: Tan Ching Siang. Title: Assessment of medicine price variation at community pharmacies in the state of Penang, Malaysia. Level: Msc. Year: 2013.
19. Candidate: Alian Aaly F Alrasheedy. Title: Generic medicines: knowledge and perceptions of community pharmacists, physicians and medicine consumers in Riyadh, Saudi Arabia. Level: PhD. Year: 2014.
20. Candidate: Mansour Adam Mahmoud Mohamed. Title: Medication safety challenges and assessment of prescribing errors incidence in Saudi Arabia. Level: PhD. Year: 2014.
21. Candidate: Ali Yousif. Title: Factors associated with medication non- adherence among ischemic heart disease patients: focus on erectile dysfunction as an adverse effect of cardioprotective therapy. Level: PhD. Year: 2015.

22. Candidate: Rodchares Hanrinth. Title: Development of the comprehensive community based model for managing dementia patients with behavioural and psychological symptoms of dementia in Thailand. Level: PhD. Year: 2015.
23. Candidate: Azimah Abu Bakar. Title: Perception and awareness towards postgraduate studies among senior pharmacy students at school of pharmaceutical sciences, Universiti Sains Malaysia. Level: Undergraduate FEL472. Year: 2016.
- 24.

Visiting Lecturer / Visiting Scientist / Visiting Fellow / Visiting Professor

Less than 1 Month

1. Lecture Title: Descriptive statistics in pharmacoepidemiology. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 25 - 29 August 2008.
2. Lecture Title: Inferential statistics in pharmacoepidemiology. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 25 - 29 August 2008.
3. Lecture Title: Pharmacoeconomics. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 1 - 5 September 2008.
4. Lecture Title: Introduction to SPSS. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 1 - 5 September 2008.
5. Lecture Title: Measurement of health & illness. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 22 - 26 September 2008.
6. Lecture Title: Health related quality of life studies. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: 22 - 26 September 2008.
7. Lecture Title: Pharmacoeconomics. Position: Visiting lecturer. Place: UKM, Kuala Lumpur. Dates: 19 July 2008.
8. Lecture Title: Statistical analysis I. Position: Visiting lecturer. Place: UIA, Pahang. Dates: 10 August 2009.
9. Lecture Title: Statistical analysis II. Position: Visiting lecturer. Place: UIA, Pahang. Dates: 10 August 2009.
10. Lecture Title: Sources of data. Position: Visiting lecturer. Place: UIA, Pahang. Dates: 10 August 2009.
11. Lecture Title: Studies of drug utilization. Position: Visiting lecturer. Place: UIA, Pahang. Dates: 17 August 2009.
12. Lecture Title: Statistical analysis I. Position: Visiting lecturer. Place: UIA, Pahang. Dates: 21 July 2010.
13. Lecture Title: Statistical analysis II. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 21 July 2010.
14. Lecture Title: Sources of data. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 21 July 2010.
15. Lecture Title: Studies of drug utilization. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 21 July 2010.
16. Lecture Title: Pharmacoeconomics. Position: Visiting lecturer. Place: Island College of Technology, Penang. Dates: : 2 January 2010.
17. Lecture Title: Measures of effect size: odds ratio (OR), relative risk (RR), relative risk increase (RRI), relative risk reduction(RRR). Position: Visiting lecturer. Place: UiTM, Selangor. Dates: : 4 August 2010.
18. Lecture Title: Measures of effect size: absolute risk (AR), absolute risk increase(ARI), absolute risk reduction(ARR), number needed to treat (NNT), number needed to harm(NNH). Position: Visiting lecturer. Place: Place: UiTM, Selangor. Dates: : 4 August 2010.

19. Lecture Title: Confidence interval and interpretation of results. Position: Visiting lecturer. Place: UiTM, Selangor. Dates: : 4 August 2010.
20. Lecture Title: Sensitivity Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 1 November 2013.
21. Lecture Title: Decision analytic model. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 1 November 2013.
22. Lecture Title: Budget Impact Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 1 November 2013.
23. Lecture Title: Sensitivity Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 3 November 2014.
24. Lecture Title: Decision analytic model. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 3 November 2014.
25. Lecture Title: Budget Impact Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 3 November 2014.
26. Lecture Title: Sensitivity Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 2 November 2015.
27. Lecture Title: Decision analytic model. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 2 November 2015.
28. Lecture Title: Budget Impact Analysis. Position: Visiting lecturer. Place: UIA, Pahang. Dates: : 2 November 2015.

More Than 1 Month

1. Position: Visiting Lecturer for Master of Pharmacy Program. Institution: UKM, Kuala Lumpur. Dates: 19 July 2008 – May 2009.
2. Position: Visiting Lecturer. Program: Master in Pharmacy Practice. Institution: UiTM, Malaysia. Duration: December 2010 – May 2011.
3. Position: Visiting Lecturer. Program: Master in Pharmacy Practice. Institution: UiTM, Malaysia. Duration: September 2012 – January 2013.
4. Position: Visiting Lecturer. Program: Master in Pharmacy Practice. Institution: UiTM, Malaysia. Duration: September 2013 – January 2014.

Fellowship

1. Position: Academic Staff Training Scheme Fellowship Award. Awarding Organization: Universiti Sains Malaysia. Date Awarded: 2002. Duration: 3 years.
2. Position: ISPOR International Fellowship Award. Awarding Organization: International Society of Pharmacoeconomics & Outcomes Research. Date Awarded: 3 June 2010. Duration: 2 years.

Reviewing Articles in Academic Journals / Assessor of Working Papers / Reviewing Books

1. Title: Analysis of global strategies to reduce prices of antiretroviral medicines: evidence from a transactional database. Journal Name: Bulletin WHO. Publisher: World Health Organization. Year: 2008.
2. Title: Proliferation of non-essential medicines in economically developing countries. Journal Name: Southern Medicine Review. Publisher: The University of Auckland. Year: 2009.
3. Title: Community pharmacy-based activity in India: a systematic review of the past 10 years. Journal Name: Southern Medicine Review. Publisher: The University of Auckland. Year: 2009.

4. Title: The analysis of longitudinal quality of life measures with informative drop-out: A pattern mixture approach. Journal Name: Quality of Life Research. Publisher: Springer. Year: 2009.
5. Title: Promoting the more rational use of medicines: Initial experiences from KIST Medical College, Lalitpur, Nepal. Journal Name: Journal of Medicine and Drug Use in Developing Country. Publisher: Universiti Sains Malaysia. Year: 2009.
6. Title: Evaluation of the treatment pattern, clinical outcome and quality of life in patients with bladder outlet obstruction in a tertiary care teaching hospital. Journal Name: Journal of Medicine and Drug Use in Developing Country. Publisher: Universiti Sains Malaysia. Year: 2009.
7. Title: Predictors of herbal utilization by multiethnic secondary care patients in Malaysia: a cross sectional survey. Journal Name: Malaysian Journal of Pharmacy. Publisher: Malaysia Pharmaceutical Society. Year: 2009.
8. Title: Safety evaluation of statin in Yogyakarta, Indonesia. Journal Name: Malaysian Journal of Pharmaceutical Sciences. Publisher: Universiti Sains Malaysia. Year: 2009.
9. Title: Baseline quality of life comparisons among patients with opioid dependence. Journal Name: Malaysian Journal of Pharmaceutical Sciences. Publisher: Universiti Sains Malaysia. Year: 2009.
10. Title: Pattern of psychotropic drug usage in psychiatric illnesses among elderly. Journal Name: Journal of Medicine and Drug Use in Developing Country. Publisher: Universiti Sains Malaysia. Year: 2010.
11. Title: Benchmarking prices of antiretroviral medicines in Central and Latin America: The "cost" of paying for medicines. Journal Name: Bulletin WHO. Publisher: World Health Organization. Year: 2010.
12. Title: A call for the creation of reporting guidelines for pharmacoepidemiologic studies of drug safety and effectiveness. Journal Name: British Medical Journal. Publisher: BMJ Publishing Group. Year: 2010.
13. Title: Price, familiarity, and availability determine the choice of drug - a population-based survey five years after generic substitution was introduced in Finland. Journal Name: BMC Clinical Pharmacology. Publisher: BioMed Central. Year: 2011.
14. Title: Perception and attitude of practicing pharmacists towards generic medicines in Karachi, Pakistan: a questionnaire-based study. Journal Name: BMC Research Notes. Publisher: BioMed Central. Year: 2011.
15. Title: Practical measurement of affordability: an application to medicines. Journal Name: Bulletin WHO. Publisher: World Health Organization. Year: 2011.
16. Title: HIV/AIDS knowledge and risk perception of visually impaired and sighted pupils in Kenya. Journal Name: Educational Research. Publisher: International Research Journals. Year: 2011.
17. Title: Colon cancer in a localized population base study. Journal Name: Journal of Medicine and Medical Sciences. Publisher: International Research Journals. Year: 2011.
18. Title: Sexual and reproductive health issues among rural and urban adolescent boys of eastern India. Journal Name: Journal of Men's Health. Publisher: Elsevier. Year: 2011.
19. Title: Drug information seeking activity and computer usage amongst medical professionals in a tertiary care hospital, India. Journal Name: Malaysian Journal of Pharmaceutical Sciences. Publisher: Penerbit Universiti Sains Malaysia. Year: 2011.
20. Title: Computerized and interviewer administration of health-related quality-of-life instruments yield clinically equivalent scores. Journal Name: Value in Health. Publisher: Elsevier. Year: 2011.
21. Title: Fracture prevention in postmenopausal Thai women with osteoporosis: a cost effectiveness analysis of seven treatment options. Journal Name: Value in Health. Publisher: Elsevier. Year: 2011.
22. Title: Experiences of pharmacists involved in the delivery of a specialist asthma service in Australia. Journal Name: BMC Health Services Research. Publisher: BioMed Central. Year: 2012.
23. Title: Iranian pharmacists' job satisfaction: analysis through various job characteristics. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2012.
24. Title: An examination of pharmaceutical systems in severely disrupted healthcare systems. Journal Name: BMC International Health and Human Rights. Publisher: BioMed Central. Year: 2012.

25. Title: Famciclovir is a Good Antiviral Agent for a Patient with Acute Renal Failure: a Case Report. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2012.
26. Title: Development and Validation of the Patients' Attitudes towards Deprescribing (PATD) Questionnaire. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2012.
27. Title: Age and gender-based utilization pattern of anti-diabetic drugs in Ajman, UAE. Journal Name: Malaysian Journal of Pharmaceutical Sciences. Publisher: USM. Year: 2012.
28. Title: Understanding the impact of racial self-identification on perceptions of health related quality of life: a multi-group analysis. Journal Name: Quality of Life Research. Publisher: Springer. Year: 2012.
29. Title: Association between being overweight/obese and school records in Korean adolescents. Journal Name: Journal of Men's Health. Publisher: Elsevier. Year: 2012.
30. Title: Cost-effectiveness analysis of omalizumab for the treatment of severe asthma: results from a randomized controlled trial in Japan and the value of responder prediction methods. Journal Name: Value in Health Regional Issues Asia. Publisher: Elsevier. Year: 2012.
31. Title: Drug information in community pharmacy and outpatient pharmacy in Al Ain City, U.A.E.: A descriptive Study. Journal Name: Pharmacy Practice. Publisher: Granada. Year: 2013.
32. Title: Knowledge of HIV infection and antiretroviral treatment among health care providers in the Eastern Cape Province, South Africa. Implications for the patients' adherence. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2013.
33. Title: Prescriber variation in potentially inappropriate prescribing in older populations in Ireland. Journal Name: European Journal of Clinical Pharmacology. Publisher: Springer. Year: 2013.
34. Title: Effect of a tripartite healthcare network on the prevalence of several drug related problems. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2013.
35. Title: Clinical burden of invasive pneumococcal disease in selected developing countries. Journal Name: Value in Health Regional Issues Central & Eastern Europe Western Asia and Africa. Publisher: Elsevier. Year: 2013.
36. Title: Is there scope for cost savings and efficiency gains in HIV services? A systematic review of the evidence from low and middle income countries. Journal Name: Bulletin WHO. Publisher: World Health Organization. Year: 2013.
37. Title: Patient adherence and knowledge of HIV and its treatment among health care providers in South Africa. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2013.
38. Title: A comparison of disproportionality analysis methods in national adverse drug reaction databases of China. Journal Name: Pharmacoepidemiology and Drug Safety. Publisher: Wiley. Year: 2013.
39. Title: Same syllabus, different country – using DREEM to compare the educational environments at two pharmacy schools. Publisher: Taylor's University. Year: 2014.
40. Title: Enhancement of solubility and therapeutic potential of poorly soluble lovastatin by SMEDDS formulation adsorbed on directly compressed spray dried magnesium aluminometasilicate liquid loadable tablets: A study in diet induced hyperlipidemic rabbits. Publisher: Taylor's University. Year: 2014.
41. Title: Willingness to pay per quality-adjusted life year: Results from the individual perspective in Taiwan. Journal Name: Value in Health. Publisher: Elsevier. Year: 2014.
42. Title: Economic analysis of varicella immunization in the Singapore military. Journal Name: Singapore Medical Journal. Publisher: Singapore Medical Association. Year: 2014.
43. Title: Prospective association between anxiety symptoms and diabetes mellitus in Australian women. Journal Name: International Journal of Psychiatry in Clinical Practice. Publisher: Informa Healthcare. Year: 2014.
44. Title: Satisfaction of HIV Patients with Pharmacy Services in Nigerian Hospitals. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2014.

45. Title: Re-validation of PSPS Questionnaire and Satisfaction of HIV Patients with Pharmacy Services in South Eastern Nigerian Hospitals. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2014.
46. Title: Patient Adherence to Warfarin Therapy and Its Impact on Anticoagulation Control. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2014
47. Title: An exploration of clinical interventions provided by pharmacists within a complex asthma service. Journal Name: Pharmacy Practice. Publisher: Granada. Year: 2014.
48. Title: Determinants of cost related non-adherence to medications among chronic patients in Maccabi Healthcare Services, Israel. Journal Name: Value in Health Regional Issues Central & Eastern Europe Western Asia and Africa. Publisher: Elsevier. Year: 2014.
49. Title: The effects of statin treatment on cardiovascular events and all-cause mortality in diabetic dialysis patients: meta-analysis of randomized controlled trials and observational studies. Journal Name: European Journal of Clinical Pharmacology. Publisher: Springer. Year: 2015.
50. Title: Long-term cost-effectiveness of insulin glargine vs neutral protamine hagedorn insulin for type 2 diabetes in Thailand. Journal Name: Applied Health Economics and Health Policy. Publisher: Springer. Year: 2015.
51. Title: Exploring the threshold premium for viable community based health insurance schemes in Nigeria. Journal Name: BMC Health Service Research. Publisher: Biomed Central. Year: 2015.
52. Title: Critical appraisal of clinical practice guidelines in pediatric infectious diseases. Journal Name: International Journal of Clinical Pharmacy. Publisher: Springer. Year: 2015
53. Title: Methodological and economic evaluations of seven survey modes applied to pharmaceutical health service research. Journal Name: Journal of Pharmaceutical Health Services Research. Publisher: Wiley. Year: 2015
54. Title: The association between patients' beliefs about medicines and adherence to cardiovascular medicines among patients in Tawau Hospital: a cross-sectional questionnaire study. Journal Name: Malaysian Journal of Pharmaceutical Sciences. Publisher: Penerbit USM. Year: 2015
55. Title: Dutch tariff for the 5 level version of EQ-5D. Journal Name: Value in Health. Publisher: Elsevier. Year: 2015.
56. Title: Value of information in Asia: concepts, current use, and future directions. Journal Name: Value in Health. Publisher: Elsevier. Year: 2015.
57. Title: Estimation of EQ-5d equivalent utility weights from the COPD assessment test. Journal Name: Value in Health Regional Issues. Publisher: Elsevier. Year: 2015.
58. Title: Quantitative assessment of premium rates for clinical usefulness in new drug price calculation in Japan. Journal Name: Value in Health Regional Issues Asia. Publisher: Elsevier. Year: 2016.
59. Title: Treating Type 1 diabetes with a rapid-acting analog insulin regimen versus regular human insulin in Germany: a long-term cost-effectiveness evaluation. Journal Name: Applied Health Economics and Health Policy. Publisher: Springer. Year: 2016.
60. Title: Cost analysis of a hospital-based, ready-to-use syringe delivery programme. Journal Name: British Medical Journal. Publisher: BMJ Publishing Group. Year: 2016.
61. Title: An approach for assessing the cost-effectiveness of multicomponent interventions. Journal Name: International Journal of Technology Assessment in Health Care. Publisher: Cambridge University Press. Year: 2016.
62. Title: Kesanggupan untuk Membayar Bagi Memperbaiki Taraf Perkhidmatan Air di Kuala Terengganu: Dari Perspektif Pengguna Domestik. Journal Name: Jurnal Ekonomi Malaysia. Publisher: Universiti Kebangsaan Malaysia. Year: 2016.
63. Title: Cost-Effectiveness Analysis of Dapagliflozin versus Glimpiride as Monotherapy in Chinese Population with Type 2 Diabetes Mellitus. Journal Name: Journal of Medical Economics. Publisher: Universiti Kebangsaan Malaysia. Year: 2016.

64. Title: Validation of Brunei's Malay EQ-5D questionnaire in patients with type 2 diabetes. Journal Name: PLoS One. Publisher: PLoS. Year: 2016.
65. Title: Translation, adaptation and validation of the Diabetes Distress Scale for Indonesian type 2 diabetic outpatients with various types of complications. Journal Name: Value in Health Regional Issues. Publisher: Elsevier. Year: 2016.
66. Title: The quality of life in Thai patients with idiopathic inflammatory demyelinating diseases of the central nervous system. Journal Name: Pharmacoeconomics - Open. Publisher: Springer. Year: 2017.
67. Title: Cost-effectiveness analysis of a universal mass vaccination program with a PHiD-CV 2+1 schedule in. Journal Name: Cost Effectiveness and Resource Allocation. Publisher: BMC. Year: 2017.
68. Title: Ideglira versus insulin glargine u100: a long-term cost-effectiveness analysis in the US setting. Journal Name: Diabetes Therapy. Publisher: Springer. Year: 2017.
69. Title: Antihypertensive Drugs Use Patterns in the National Health Insurance Scheme at a Tertiary Care Teaching Hospital in South East Nigeria. Journal Name: Pharmacy Practice. Publisher: CIPF. Year: 2017.
70. Title: Cost-effectiveness analysis of intraoperative radiation therapy versus external beam radiation therapy for early stage breast cancer. Journal Name: Cost Effectiveness and Resource Allocation. Publisher: BioMed Central. Year: 2017.
71. Title: WHO/INRUD Core Drug Use Indicators: A Systematic Review. Journal Name: Health Policy and Technology. Publisher: Elsevier. Year: 2017.
- 72.

Technical Assessor / Assessor for Grant Application

1. Committee: Joint Ethics Committee of School Pharmaceutical Sciences, USM - Hospital Lam Wah Ee on Clinical Studies. Organization: Universiti Sains Malaysia and Hospital Lam Wah Ee. Duration: 30 August 2010 – .
2. Committee: Jawatankuasa Projek Promosi Kesihatan. Organization: *Lembaga Promosi Kesihatan Malaysia, Ministry of Health*. Appointment Duration: 29 Oktober 2010 –
3. Committee: *Pharmacoeconomic Technical Committee*. Organization: *Pharmaceutical Service Division*. Appointment Duration: 18 May 2011 - .
4. Committee: Panel for Best Research Award for Majlis Persada Kencana 2011. Organization: *Universiti Sains Malaysia*. Appointment Date: 22 July 2011.
5. Committee: Panel Penilai Postgraduate Research Grant Scheme. Organization: *Institute of Postgraduate Studies, Universiti Sains Malaysia*. Appointment Duration: 18 Julai 2012
6. Title: Evaluation of patient preferences for and cost effectiveness of community intravenous antibiotic services. Type of Assessor: Pharmacy Practice Technical Assessor. Committee: NETSCC Health Services and Delivery Research. Organization: *National Institute for Health Research, UK*. Appointment Duration: 2 April 2012.
7. Title: Allopurinol for chronic kidney disease. Type of Assessor: Health Economist Technical Assessor. Committee: NETSCC Technology Assessment Reports. Organization: *National Institute for Health Research, UK*. Appointment Duration: 2 April 2012.
8. Committee: Health Technology Assessment Expert Committee for Dialyser Single Use versus Dialyser Reuse. Organization: *Malaysia Health Technology Assessment Agency*. Appointment Duration: 11 January 2013 –
9. Committee: Technical Committee for Assessing Effect of Electronic Cigarette and Shisha on Health. Organization: *Minister of Health Malaysia* Appointment Duration: 1 July 2013 –

10. Committee: Panel for Best Research Award for Majlis Persada Kencana 2013. Organization: *Universiti Sains Malaysia*. Appointment Date: 12 March 2013.
11. Committee: Health Promotion Project Technical Committee. Organization: *Malaysia Health Promotion Board, Ministry of Health*. Appointment Duration: 1 February 2014 – 31 January 2016.
12. Title: Cost analysis of delivering outpatient services in a public hospital: a project for 1Care. Publisher: Institute of Health Systems Research. Year: 2014.
13. Committee: Evaluation Panel for Transdisciplinary Research Grant Scheme (TRGS) Committee. Organization: *Division of Research & Innovation, USM*. Appointment Duration: 1 October 2014 – 31 January 2016.
14. Title: Improving health coverage and service delivery to meet people's needs and expectations in Malaysia. Publisher: Institute of Health Systems Research. Year: 2014.
15. Title: Technology review report 010/2015: Tyrosine kinase inhibitors as first line treatment for advanced non-small cell lung cancer. Publisher: Malaysia Health Technology Assessment Section. Year: 2015.
16. Title: Mobile Medication Error Reporting in Malaysia Healthcare Setting: Quantitative and Qualitative Study. Type of Assessor: Grant Assessor. Committee: Fundamental Research Grant Scheme Phase 1/2016. Appointment Duration: 1 April – 28 April 2016.
17. Committee: Health Promotion Project Technical Committee. Organization: *Malaysia Health Promotion Board, Ministry of Health*. Appointment Duration: 1 February 2016 – 31 January 2018.
18. Title: Health policy decision making to ensure equitable access to medicines and technologies. Type of Assessor: Health Economist Technical Assessor. Committee: NIHR's Global Health Research Programme. Organization: *National Institute for Health Research, UK*. Appointment Duration: 9 – 15 February 2017.
19. Title: Improvement of stroke care. Type of Assessor: Health Economist Technical Assessor. Committee: NIHR's Global Health Research Programme. Organization: *National Institute for Health Research, UK*. Appointment Duration: 9 – 15 February 2017.
20. Title: Health and social burdens of inter-personal violence Type of Assessor: Health Economist Technical Assessor. Committee: NIHR's Global Health Research Programme. Organization: *National Institute for Health Research, UK*. Appointment Duration: 9 – 15 February 2017.
21. Title: Non-communicable disease control in South Asia. Type of Assessor: Health Economist Technical Assessor. Committee: NIHR's Global Health Research Programme. Organization: *National Institute for Health Research, UK*. Appointment Duration: 9 – 15 February 2017.
22. Title: Implementation of a comprehensive national salt reduction programme. Type of Assessor: Health Economist Technical Assessor. Committee: NIHR's Global Health Research Programme. Organization: *National Institute for Health Research, UK*. Appointment Duration: 9 – 15 February 2017.
23. Committee: Scientific Review Board. Organization: Institute for Health Systems Research, Ministry of Health Malaysia. Duration: May 2017 – December 2019.

Member of a Panel Discussion / Forum

1. Committee: *Quality Use of Medicine Committee*. Organization: Pharmaceutical Services Division, Ministry of Health. Appointment Duration: 2008 - 2010.
2. Committee: *Majlis Penasihat Farmasi Malaysia*. Organization: Pharmaceutical Services Division, Ministry of Health. Appointment Duration: 5 November 2009 - .

3. Post: Member. Year: 2010. Committee: *ISPOR Asia Consortium Health Technology Assessment Agencies Committee*.
4. Post: Member. Year: 2010. Committee: *ISPOR Asia Consortium Publication Committee*
5. Post: Member. Year: 2010. Committee: *ISPOR Health Technology Assessment and Evidence-based Decisions Special Interest Group*.
6. Post: Member. Year: 2010. Committee: *ISPOR Quality Improvement of Cost Effectiveness Research (QICER) Task Force*
7. Post: Member. Year: 2010. Committee: *HTAi Developing Countries Interest Sub Group*.
8. Committee: *Jawatankuasa Pemandu Dasar Ubat Nasional (JKPDUNAS)*. Organization: Pharmaceutical Services Division, Ministry of Health. Appointment Duration: 25 Februari 2010 – 26 Februari 2012.
9. Committee: *Jawatankuasa Pemandu Dasar Ubat Nasional (JKPDUNAS)*. Organization: Pharmaceutical Services Division, Ministry of Health. Appointment Duration: 6 September 2013 – 26 September 2015.
10. Post: Member. Year: 2013. Committee: *Pro Tem for Pilot Project on Centre for Pharmacoeconomics, Pharmaceutical Service Division*.
11. Post/role: Expert member for model validation. Date: 18 September 2014. Committee: *Workshop on Dengue Disease Transmission Model*. Organizer: Sanofi Pasteur. Venue: Plaza 33, Petaling Jaya.
12. Lim BP, Shafie AA, Mathew J, Chan A, Pwee KH. Use of evidence to support formulary and medical decisions in Asian Hospitals. *10th HTAi Seoul 2013*; 15 – 19 June 2013; Seoul: Health Technology Assessment International.
13. Role: Moderator. Event: PhAMA Executive Dialogue on Access to Medicines. Organization: Pharmaceutical Association for Malaysia. Venue: Petaling Jaya. Date: 3 November 2015.
14. Committee: *Technical Advisory Committee for Health Technologies Economic Evaluation (TACHTEE)*. Organization: Malaysian Health Technology Assessment Sections, Ministry of Health. Appointment Duration: 14 April 2015 – 15 April 2016.
15. Committee: *Jawatankuasa Pemandu Dasar Ubat Nasional (JKPDUNAS)*. Organization: Pharmaceutical Services Division, Ministry of Health. Appointment Duration: 28 Januari 2013 – 29 Januari 2017.
16. Committee: ISPOR Code of Ethics Task Force. Organization: International Society for Pharmacoeconomic and Outcomes Research Venue: Petaling Jaya. Date: 3 May 2016 - 2017.
17. Role: Panel Member. Event: *Higher Education Student Entry Seminar for the National Higher Education Carnival (Seminar Kemasukan Pelajar ke IPT Sempena Karnival Pendidikan Tinggi Negara)*. Organization: Ministry of Higher Education Malaysia. Venue: Penang. Date: 4 Mac 2017.
- 18.

Editorial Board

1. Post: Scientific Editor. Journal: *Journal of Medicine Use in Developing Country*.
2. Post: Executive Editor. Journal: *International Journal of Pharmacy Teaching & Practices*.
3. Post: Co-Editor. Journal: *ISPOR News Across Asia*.
4. Post: Editorial Board Member. Journal: *Malaysian Journal of Pharmaceutical Sciences*. 1st July 2014 – 31st December 2015.
5. Post: Editor-in-Chief. Journal: *Malaysian Journal of Pharmacy*. 1st September 2014 –

6. Post: Article Editor. Journal: Sage Open. 15th September 2016.
7. Post: Member. Journal: Pharmaco-economic Open. 5th August 2016.
8. Post: Member. Journal: Value in Health Regional Issues. 5th August 2016.

Keynote/Invited Speaker

1. Presentation Title: Using pharmaco-economic to improve pharmacy services. Event: Annual Kedah/Perlis MPS Dinner. Organizer: Malaysia Pharmaceutical Society Kedah/Perlis Branch. Location: Star City Hotel, Kedah, Malaysia. Date: 7 September 2009.
2. Presentation Title: Interaction with medical representatives: what pharmacist should know. Event: Mesyuarat Teknikal Penyediaan Garispanduan 'Good Governance for Medicines (GGM)'. Organizer: Pharmaceutical Services Division, MoH. Location: Awana Hotel & Resort Genting. Date: 4 - 6 August 2009.
3. Presentation Title: Separation of prescribing and dispensing: way forward for Malaysia. Event: Ensuring Fair Access to Medicines Workshop. Organizer: Pharmaceutical Services Division, MoH. Location: Corus Paradise Resort, Negri Sembilan, Malaysia. Date: 30 November - 1 December 2009.
4. Presentation Title: Important of pharmaco-economics in healthcare system. Event: Visit by Omderman University. Organizer: School of Pharmaceutical Sciences. Location: Universiti Sains Malaysia. Date: 5 July 2009.
5. Presentation Title: Career in pharmacy. Event: The Star Education Fair 2010. Organizer: Star Publications (M) Berhad. Location: Penang International Sport Arena, Penang, Malaysia. Date: 7 March 2010
6. Presentation Title: Pembangunan penyelidikan dalam amalan farmasi. Event: Kursus Penerokaan Bidang Baru Farmasi. Organizer: Advanced Medical and Dental Institute. Location: Hotel Seri Malaysia, Penang. Date: 10 November 2010.
7. Presentation Title: Bagaimana untuk memulakan penyelidikan. Event: Kursus Asas Inovasi & Penyelidikan. Organizer: Advanced Medical and Dental Institute. Location: Hotel Seri Malaysia, Penang. Date: 29 November 2010.
8. Presentation Title: Ethical issue in research: do's and don't. Event: Kursus Asas Inovasi & Penyelidikan. Organizer: Advanced Medical and Dental Institute. Location: Hotel Seri Malaysia, Penang. Date: 30 November 2010.
9. Presentation Title: Quality use of generic medicines - wading through the myths and facts. Event: Malaysian Medical Association 50th Annual Grand Meeting. Organizer: Malaysian Medical Association. Location: Equatorial Hotel, Malacca. Date: 27 May 2010.
10. Presentation Title: Quality use of generic medicines - myths and facts. Event: 14th Malaysian Family Medicine Specialist Scientific Meeting. Organizer: The Family Medicine Specialist Association of Malaysia. Location: Renaissance Hotel, Kelantan. Date: 30 July - 1 August 2010.
11. Presentation Title: Pharmacist in healthcare team - need & challenges. Organizer: China - Japan Medical Science & Technology Exchange Association. Event: Forbidden City International Pharmacist Forum. Venue: Beijing, China. Date: 27 - 30 May 2011.
12. Presentation Title: Setting national health care priorities in Asia: experience from Korea, Malaysia, Japan and Thailand. Organizer: British Medical Journal and National Institute of Clinical Excellence. Event: Global Health 2011. Venue: London, UK. Date: 29 - 30 Sept 2011.
13. Presentation Title: Willingness-to-pay (WTP) for a QALY using contingent valuation approach in Malaysia. Organizer: NECA (National Evidence-based Healthcare Collaborating Agency). Event: International Symposium on Asian Value for a QALY. Location: South Korea. Date: 25 January 2011.
14. Presentation Title: Using evidence-based pharmaco-economic data for improving pharmacy practice in Malaysia. Organizer: Malaysian Pharmaceutical Society. Event: Malaysian Pharmaceutical Society – Pharmacy Scientific Conference. Venue: Kuala Lumpur, Malaysia. Date: 21 - 23 October 2011.

15. Presentation Title: Study design, sampling method & sample size calculation. Event: Methodology & Statistical Analysis in Research Workshop. Organizer: Pharmaceutical Services Division. Location: Alor Star, Kedah. Date: 11 Februari 2011.
16. Presentation Title: Descriptive & inferential statistics. Event: Methodology & Statistical Analysis in Research Workshop. Organizer: Pharmaceutical Services Division. Location: Alor Star, Kedah. Date: 12 Februari 2011.
17. Presentation Title: Data analysis. Event: Methodology & Statistical Analysis in Research Workshop. Organizer: Pharmaceutical Services Division. Location: Alor Star, Kedah. Date: 12 Februari 2011.
18. Presentation Title: Career in pharmacy. Event: The Star Education Fair 2011. Organizer: Star Publications (M) Berhad. Location: Penang International Sport Arena, Penang, Malaysia. Date: 19 February 2011
19. Presentation Title: Alam farmasi. Event: Jerayawara Pohon @USM 2011. Organizer: Public Relations Office, Universiti Sains Malaysia. Location: Universiti Sains Malaysia, Penang, Malaysia. Date: 26 February 2011
20. Presentation Title: Managing your reference using EndNote: Basic. Event: Bengkel Pembangunan Personal & Profesional. Organizer: Institute of Postgraduate Studies, Universiti Sains Malaysia. Location: Universiti Sains Malaysia, Penang, Malaysia. Date: 15 April 2011
21. Presentation Title: Methodology - Establishing Drug Utilization Evaluation criteria. Event: Bengkel Drug Utilization Evaluation. Organizer: Jabatan Farmasi, Hospital Universiti Sains Malaysia. Location: Hospital Universiti Sains Malaysia, Kelantan, Malaysia. Date: 9 Julai 2011
22. Presentation Title: Intervention and evaluation of Drug Use Evaluation. Event: Bengkel Drug Utilization Evaluation. Organizer: Jabatan Farmasi, Hospital Universiti Sains Malaysia. Location: Hospital Universiti Sains Malaysia, Kelantan, Malaysia. Date: 9 Julai 2011.
23. Presentation Title: Statistics Application In Research. Event: Workshop on Research Methodology in Food Safety. Organizer: National Public Health Laboratory. Location: Port Dickson, Malaysia. Date: 19 - 22 September 2011
24. Presentation Title: Specific Statistic Analysis Using SPSS. Event: Workshop on Research Methodology in Food Safety. Organizer: National Public Health Laboratory. Location: Port Dickson, Malaysia. Date: 19 - 22 September 2011.
25. Presentation Title: Pharmacoeconomics of COPD Treatment. Event: COPD Workshop. Organizer: Pharmaceutical Services Division. Location: Kelantan, Malaysia. Date: 14 September 2011.
26. Presentation Title: Pengenalan Analisis Farmakoekonomi. Event: Workshop on Pharmacoeconomic Analysis in Health Services. Organizer: Universitas Pancasila. Location: Jakarta, Indonesia. Date: 22 - 23 September 2011.
27. Presentation Title: Cost Benefit Analysis. Event: Workshop on Pharmacoeconomic Analysis in Health Services. Organizer: Universitas Pancasila. Location: Jakarta, Indonesia. Date: 22 - 23 September 2011.
28. Presentation Title: Sensitivity Analysis. Event: Workshop on Pharmacoeconomic Analysis in Health Services. Organizer: Universitas Pancasila. Location: Jakarta, Indonesia. Date: 22 - 23 September 2011.
29. Presentation Title: Decision Analysis Modelling. Event: Workshop on Pharmacoeconomic Analysis in Health Services. Organizer: Universitas Pancasila. Location: Jakarta, Indonesia. Date: 22 - 23 September 2011.
30. Presentation Title: Pharmacoeconomics (Terminology & Concepts). Event: Critical Appraisal Workshop for Kedah Pharmacists. Organizer: Clinical Research Centre. Location: Kedah, Malaysia. Date: 13 - 14 April 2012.
31. Presentation Title: The Importance of Pharmacoeconomics in Pharmacy Practice Research. Event: Workshop on Practical Strategies for Conducting Pharmacy Practice Research. Organizer: International Medical University. Location: Kuala Lumpur, Malaysia. Date: 9 May 2012.
32. Presentation Title: What is Research? Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
33. Presentation Title: Literature Search. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.

34. Presentation Title: Quantitative Method Research Design. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
35. Presentation Title: Sampling/Sample Size. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
36. Presentation Title: Questionnaire Design. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
37. Presentation Title: Basic Statistics. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
38. Presentation Title: Introduction to Qualitative Research Methodology. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
39. Presentation Title: Disseminating Research: Choosing How & Where to Publish. Event: Kursus Pegawai Farmasi. Organizer: Bahagian Perkhidmatan Farmasi Negeri Perlis. Location: Pulau Pinang, Malaysia. Date: 6 - 8 Julai 2012.
40. Presentation Title: Importance of Pharmacoeconomics. Event: Pre-Conference Workshop for 7th National Pharmacy R & D Conference. Organizer: Malaysia Pharmaceutical Services Division. Location: Johor, Malaysia. Date: 19 - 21 June 2012.
41. Presentation Title: Cost & Outcomes. Event: Pre-Conference Workshop for 7th National Pharmacy R & D Conference. Organizer: Malaysia Pharmaceutical Services Division. Location: Johor, Malaysia. Date: 19 - 21 June 2012.
42. Presentation Title: Cost-Effectiveness Analysis. Event: Pre-Conference Workshop for 7th National Pharmacy R & D Conference. Organizer: Malaysia Pharmaceutical Services Division. Location: Johor, Malaysia. Date: 19 - 21 June 2012.
43. Presentation Title: Cost Utility Analysis. Event: Pre-Conference Workshop for 7th National Pharmacy R & D Conference. Organizer: Malaysia Pharmaceutical Services Division. Location: Johor, Malaysia. Date: 19 - 21 June 2012.
44. Presentation Title: Cost Benefit Analysis. Event: Pre-Conference Workshop for 7th National Pharmacy R & D Conference. Organizer: Malaysia Pharmaceutical Services Division. Location: Johor, Malaysia. Date: 19 - 21 June 2012.
45. Presentation Title: Challenges in implementing pharmacoeconomics teaching & research into the curriculum: Malaysia perspective. Organizer: Malaysian Society for Pharmacoeconomics and Outcome Research. Event: 1st Pharmacoeconomics and Outcome Research Conferences. Venue: Kuala Lumpur, Malaysia. Date: 31st March & 1st April 2012.
46. Presentation Title: The role of pharmacist in pharmacovigilance and drug safety. Organizer: China - Japan Medical Science & Technology Exchange Association. Event: Forbidden City International Pharmacist Forum. Venue: Beijing, China. Date: 11 - 14th May 2012.
47. Presentation Title: HTA and its policy implications: experience from Malaysia. Organizer: HTAsiaLink Network. Event: 1st HTAsiaLink Annual Conference. Venue: Petchaburi, Thailand. Date: 14 - 16th May 2012.
48. Presentation Title: Health economics: potentially potent medicines for Malaysia healthcare. Organizer: Pharmaceutical Services Division. Event: 7th National Pharmacy R & D Conference. Venue: Johor, Malaysia. Date: 19 - 21 June 2012.
49. Presentation Title: Quality use of generic medicines: the myth and facts. Organizer: Ministry of Defence. Event: Preservation of the Fighting Force Seminar. Venue: KL, Malaysia. Date: 8 - 9th September 2012.
50. Presentation Title: Willingness-to-pay threshold in Asia. Organizer: HTAsiaLink. Event: 2nd Annual HTAsiaLink Conference. Venue: Penang, Malaysia. Date: 13 - 15th May 2013.
51. Presentation Title: Pharmacoeconomic considerations for cardiovascular disease. Organizer: AstraZeneca. Event: ACS Summit. Venue: Sarawak, Malaysia. Date: 22 - 23rd June 2013.
52. Presentation Title: Cost benefit of new vs old drug. Organizer: Ministry of Health. Event: 4th National Cardiologist Conference. Venue: Sarawak, Malaysia. Date: 24 - 25th June 2013.

53. Presentation Title: The expanding role of HTA in Asia. Organizer: NextLevel. Event: Asian Patient Access Leaders Forum. Venue: Singapore. Date: 23 – 24th July 2013.
54. Presentation Title: Value of pharmacist in chronic disease management. Organizer: China - Japan Medical Science & Technology Exchange Association. Event: Forbidden City International Pharmacist Forum. Venue: Beijing, China. Date: 10 – 12th May 2013.
55. Presentation Title: Importance and adherence to a set of pharmacoeconomic guidelines in the evaluation of medicines. Organizer: Monash University. Event: Application of Health Economic Data in the Evaluation of Medicines in Malaysia Forum. Venue: Kuala Lumpur, Malaysia. Date: 17 – 18th October 2013.
56. Presentation Title: Do we actually need a threshold in Malaysia. Organizer: Monash University. Event: Application of Health Economic Data in the Evaluation of Medicines in Malaysia Forum. Venue: Kuala Lumpur, Malaysia. Date: 17 – 18th October 2013.
57. Presentation Title: Pharmacoeconomic consideration for cardiovascular disease. Organizer: Perak Pharmaceutical Service Division. Event: 3rd Perak Pharmacy R & D Conference. Venue: Perak, Malaysia. Date: 23 – 25th August 2013.
58. Presentation Title: Research & pharmacy practice – it takes two to tango. Organizer: Sabah Pharmaceutical Service Division. Event: Sabah Pharmacy R & D Conference. Venue: Sabah, Malaysia. Date: 26 – 29th October 2013.
59. Presentation Title: Value for a QALY in Asia. Organizer: HiTAP. Event: Public Lecture on the Value for a QALY in Asia. Venue: Bangkok, Thailand. Date: 2nd September 2013.
60. Presentation Title: Health economics: what it could mean to me?. Organizer: Pfizer. Event: GP Master Series – CV/Pain. Venue: Penang, Malaysia. Date: 23 – 24 November 2013.
61. Presentation Title: Using questionnaire to measure quality of life. Organizer: Malaysian Society for Pharmacoeconomics and Outcome Research. Event: Symposium Bridging Science to Policy with Pharmacoeconomics, 2nd Pharmacoeconomic and Outcome Research Conference. Venue: Royale Chulan Hotel, Kuala Lumpur. Date: 7 – 9th March 2014.
62. Presentation Title: Do we need a threshold in Malaysia? Organizer: Malaysian Society for Pharmacoeconomics and Outcome Research. Event: Symposium Bridging Science to Policy with Pharmacoeconomics, 2nd Pharmacoeconomic and Outcome Research Conference. Venue: Royale Chulan Hotel, Kuala Lumpur. Date: 7 – 9th March 2014.
63. Presentation Title: Appraising the evidence & what is Patient Reported Outcome (PRO). Organizer: Astra Zeneca Sdn Bhd. Event: Basic Health Technology Assessment Workshop. Venue: Royale Chulan Hotel, Kuala Lumpur. Date: 15th March 2014.
64. Presentation Title: International collaborative project via HTAsiaLink – achievement of 2013 and future direction. Organizer: National Evidence-based Healthcare Collaborating Agency. Event: 2014 NECA 5th Annual Conference. Venue: Severance Hospital, Republic of Korea. Date: 27 – 28th March 2014.
65. Presentation Title: Appraising the evidence & what is Patient Reported Outcome (PRO). Organizer: Astra Zeneca Sdn Bhd. Event: Basic Health Technology Assessment Workshop. Venue: Trader's Hotel, Penang. Date: 19th April 2014.
66. Presentation Title: Appraising the evidence & what is Patient Reported Outcome (PRO). Organizer: Astra Zeneca Sdn Bhd. Event: Basic Health Technology Assessment Workshop. Venue: Perdana Hotel, Kelantan. Date: 21st June 2014.
67. Presentation Title: Concept of health economics and budget impact analysis. Organizer: Astra Zeneca Sdn Bhd. Event: ACS Update and Pharmacoeconomic Workshop. Venue: Radisson Hotel, Brunei. Date: 5th April 2014.
68. Presentation Title: A short introduction to pharmacoeconomics and listing dossier evaluation. Organizer: Hospital Kuala Lumpur. Event: Pharmacoeconomics CPE. Venue: Hospital Kuala Lumpur. Date: 6th May 2014.

69. Presentation Title: Pharmacoeconomic consideration for cardiovascular disease. Organizer: Malaysian Pharmaceutical Society. Event: 3rd Cardiology Update. Venue: Pullman Bangsar. Date: 5th May 2014.
70. Presentation Title: Appraising the evidence & what is Patient Reported Outcome (PRO). Organizer: Astra Zeneca Sdn Bhd. Event: Basic Health Technology Assessment Workshop. Venue: Four Points Hotel, Sarawak. Date: 10th May 2014.
71. Presentation Title: Introduction to pharmacoeconomic. Organizer: Indonesian Chapter of International Society for Pharmacoeconomic Research. Event: Pre Conference Workshop in 1st ISPOR Indonesian Conference. Venue: Bali, Indonesia. Date: 24 – 27th May 2014.
72. Presentation Title: The role of pharmacoeconomic in healthcare transformation. Organizer: Indonesian Chapter of International Society for Pharmacoeconomic Research. Event: Plenary Session in 1st ISPOR Indonesian Conference. Venue: Bali, Indonesia. Date: 24 – 27th May 2014.
73. Presentation Title: Introduction of pharmacoeconomic analysis. Organizer: Universitas Pancasila. Event: National Workshop on Pharmacoeconomic for Health Service Research. Venue: Jakarta, Indonesia. Date: 6 - 7th June 2014.
74. Presentation Title: Cost & outcomes in health care services. Organizer: Universitas Pancasila. Event: National Workshop on Pharmacoeconomic for Health Service Research. Venue: Jakarta, Indonesia. Date: 6 - 7th June 2014.
75. Presentation Title: Cost benefit analysis. Organizer: Universitas Pancasila. Event: National Workshop on Pharmacoeconomic for Health Service Research. Venue: Jakarta, Indonesia. Date: 6 - 7th June 2014.
76. Presentation Title: Sensitivity analysis. Organizer: Universitas Pancasila. Event: National Workshop on Pharmacoeconomic for Health Service Research. Venue: Jakarta, Indonesia. Date: 6 - 7th June 2014.
77. Presentation Title: Decision analysis modelling. Organizer: Universitas Pancasila. Event: National Workshop on Pharmacoeconomic for Health Service Research. Venue: Jakarta, Indonesia. Date: 6 - 7th June 2014.
78. Presentation Title: Social & administrative pharmacy: tying the loose end of medicine. Organizer: Universiti Teknologi Mara. Event: International Postgraduate Conference on Pharmaceutical Sciences. Venue: Puncak Alam, Malaysia. Date: 11 – 12th August 2014.
79. Presentation Title: Introduction to pharmacoeconomic. Organizer: Perak Pharmaceutical Service Division. Event: Kursus Farmakoekonomi (Pharmacoeconomic Workshop). Venue: Ulu Kinta, Perak. Date: 27 – 28th August 2014.
80. Presentation Title: Introduction to Scientific Writing, IMRAD Structure, Referencing, Writing Style, Slide/Poster Presentation & Dealing with Editor's Comment. Organizer: Perlis Pharmaceutical Service Division. Event: Bengkel R&D Scientific Writing & Publishing. Venue: Kangar, Perlis. Date: 18 – 19th September 2014.
81. Presentation Title: Importance of pharmacoeconomic. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
82. Presentation Title: Overview of economic evaluation cost and outcomes. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
83. Presentation Title: Overview of economic evaluation: CEA and CUA. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
84. Presentation Title: Overview of economic evaluation: CBA. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
85. Presentation Title: Discounting. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
86. Presentation Title: Sensitivity analysis. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.

87. Presentation Title: Overview of decision modelling. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
88. Presentation Title: Presentation of economic evaluation study. Organizer: Malaysian Health Technology Assessment Agency. Event: Economic Evaluation in Health Care Workshop. Venue: Bangsar, Kuala Lumpur. Date: 8 – 9th October 2014.
89. Presentation Title: Applied Pharmacoeconomic and Unit Cost Calculation at Pharmacy Services in Hospital. Organizer: The Indonesian Hospital Pharmacist Association. Event: Annual Academic Meeting and National Congress 2014. Venue: Makassar, Indonesia. Date: 5 – 7th December 2014.
90. Presentation Title: Drugs and Pharmaceutical product selection at Hospital using Health Technology Assessment. Organizer: The Indonesian Hospital Pharmacist Association. Event: Annual Academic Meeting and National Congress 2014. Venue: Makassar, Indonesia. Date: 5 – 7th December 2014.
91. Presentation Title: EuroQol-5-Dimensions (EQ-5D) Assessment Tool. Organizer: Department of Surgery, Hospital Universiti Kebangsaan Malaysia. Event: Long Term Outcome Following Mild Traumatic Brain Injury, A Prospective Observational Study Workshop. Venue: UKM Medical Centre. Date: 10th January 2014.
92. Presentation Title: Quality of life assessment: its importance in modern healthcare delivery. Organizer: Monash University. Event: Monash Health Economics Forum. Venue: PJ Hilton Hotel, Malaysia. Date: 29 – 30th October 2014.
93. Presentation Title: Pharmacoeconomic challenges in the management of diabetes. Organizer: The Novo Nordisk Pharma (M) Inc. Event: Access Schemes for Innovative Treatment Workshop. Venue: Impiana Hotel, Kuala Lumpur. Date: 20th January 2015.
94. Presentation Title: Pharmacoeconomic challenges in the management of diabetes. Organizer: The Novo Nordisk Pharma (M) Inc. Event: Access Schemes for Innovative Treatment Workshop. Venue: Serai Wangi Hall, Petaling Jaya. Date: 21st January 2015.
95. Presentation Title: HTA development in Malaysia. Organizer: Thailand Health Intervention and Technology Assessment Program. Event: Prince Mahidol Award Conference. Venue: Bangkok, Thailand. Date: 26th January 2015.
96. Presentation Title: Concept of health economics and budget impact analysis. Organizer: Astra Zeneca Sdn Bhd. Event: ACS Update and Pharmacoeconomic Workshop. Venue: Brunei. Date: 26th April 2015.
97. Presentation Title: Pharmacoeconomic modelling. Organizer: University of Indonesia & Indonesian Health Economics Association. Event: 2nd Indonesian Health Economics Association Congress. Venue: Jakarta, Indonesia. Date: 7 - 10 April 2015.
98. Presentation Title: Introduction to pharmacoeconomics. Organizer: Astra Zeneca. Event: Diabetoeconomics – Novel Therapeutics Diabetes Pharmaco-Economics Workshop. Venue: Kuala Lumpur. Date: 18 April 2015.
99. Presentation Title: Appraising the evidence & what is Patient Reported Outcome (PRO). Organizer: Astra Zeneca Sdn Bhd. Event: Basic Health Technology Assessment Workshop. Venue: Kuala Lumpur. Date: 25 – 26 April 2015.
100. Presentation Title: Introduction to pharmacoeconomics. Organizer: Astra Zeneca. Event: Diabetoeconomics – Novel Therapeutics Diabetes Pharmaco-Economics Workshop. Venue: Melaka. Date: 23 May 2015.
101. Presentation Title: Is there a role for HTA to self pay patients in Asia Pacific. Organizer: NextLevel Pharma. Event: 3rd Annual Market Access & Commercial Excellence Forum Asia. Venue: Singapore. Date: 5 - 6 August 2015.
102. Presentation Title: Introduction to pharmacoeconomics. Organizer: Astra Zeneca. Event: Diabetoeconomics – Novel Therapeutics Diabetes Pharmaco-Economics Workshop. Venue: Penang. Date: 12 – 13 September 2015.
103. Presentation Title: Determining the cost-effective price of dengue vaccination in Malaysia. Organizer: Universiti Kuala Lumpur. Event: 37th Malaysian Paediatric Association Congress & Asia Pacific Vaccinology Update. Venue: Kuala Lumpur. Date: 16 – 19th September 2015.

104. Presentation Title: Role of pharmaco-economic research in Malaysia health care. Organizer: Kedah State Health Department & Clinical Research Centre. Event: Kedah 1st Research Summit 2015. Venue: Jitra, Kedah. Date: 19 – 20th August 2015.
105. Presentation Title: Economic impact & cost-effective price of dengue vaccination in Malaysia. Organizer: Universiti Kuala Lumpur. Event: 2nd International Conference on Tropical Medicine and Infectious Disease. Venue: Ipoh, Perak. Date: 29th September – 1st October 2015.
106. Presentation Title: Role of health economic in pharmacy practice in Malaysia. Organizer: Malaysian Pharmaceutical Society. Event: 12th MPS Pharmacy Scientific Conference. Venue: Subang Jaya. Date: 13 – 15th November 2015.
107. Presentation Title: Financing and Health Technology Assessment of Vaccine. Organizer: Malaysian Pharmaceutical Society. Event: Asian Pacific Vaccinology Meeting 2015. Venue: Bangkok, Thailand. Date: 30 Nov - 3 Dec 2015.
108. Presentation Title: Importance of pharmaco-economic in health care. Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
109. Presentation Title: Investigating pharmaco-economic research questions. Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
110. Presentation Title: Cost effectiveness analysis. Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
111. Presentation Title: How can we use economic evaluation results in practice? Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
112. Presentation Title: Importance and general approach to BIA. Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
113. Presentation Title: How can we use BIA results in practice? Organizer: Pusat Penyelidikan Klinikal Hospital Queen Elizabeth 2. Event: Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 22 – 23 October 2016.
114. Presentation Title: Cost-effectiveness and public health impact of dengue vaccine. Organizer: Pediatric Infectious Disease Society of Thailand & Asian Society for Pediatric Infectious Diseases. Event: 8th Asian Congress of Pediatric Infectious Diseases. Venue: Bangkok, Thailand. Date: 7 – 10 November 2016.
115. Presentation Title: Cost-effectiveness to assess the impact of dengue vaccine program in Malaysia. Organizer: Asian Dengue Vaccination Advocacy. Event: Asia Dengue Summit. Venue: Bangkok, Thailand. Date: 13 – 14 January 2016.
116. Presentation Title: Mathematical modelling to understand the impact of vaccination strategies in Malaysia. Organizer: Asian Dengue Vaccination Advocacy. Event: Asia Dengue Summit. Venue: Bangkok, Thailand. Date: 13 – 14 January 2016.
117. Presentation Title: HTA activities in Malaysia. Organizer: Prince Mahidol Award Foundation. Event: Prince Mahidol Award Conference. Venue: Bangkok, Thailand. Date: 26 - 31 Jan 2016.
118. Presentation Title: The role of pharmaco-economic and pharmaco-epidemiology in informing Malaysia decision makers. Organizer: Pharmaceutical Association of Thailand and Federation of Asian Pharmaceutical Association. Event: 26th FAPA Congress. Venue: Bangkok, Thailand. Date: 9 -13 November 2016.
119. Presentation Title: Health financing. Organizer: Indonesian Health Economics Association. Event: 3rd Indonesian Health Economics Association Congress. Venue: Yogyakarta, Indonesia. Date: 28 – 30 July 2016.
120. Presentation Title: Potential application of new access schemes for new medicines in Malaysia. Organizer: Monash University of Malaysia. Event: Monash Health Economics Forum. Venue: Petaling Jaya. Date: 23 – 24 November 2016.

121. Presentation Title: The cost effectiveness of novel diabetes therapy. Organizer: Ministry of Health Malaysia. Event: 9th National Pharmacy R&D Conference. Venue: Putrajaya. Date: 7 – 10 Ogos 2016.
122. Presentation Title: The role of big data in health economics and outcomes research. Organizer: Clinical Research Centre, Ministry of Health Malaysia. Event: 10th National Conference for Clinical Research. Venue: Kuala Lumpur. Date: 27 – 28 July 2016.
123. Presentation Title: Budget impact analysis of cardiovascular drugs. Organizer: National Heart Association of Malaysia. Event: NHAM Annual Scientific Meeting. Venue: Kuala Lumpur. Date: 8 – 10 April 2016.
124. Presentation Title: Proactive diabetes management and the value of novel therapies. Organizer: Novo Nordisk. Event: GLP-1 Summit. Venue: Penang. Date: 23 – 25 September 2016.
125. Presentation Title: Are costlier drugs better. Organizer: Clinical Research Centre, Ministry of Health Malaysia. Event: Penang Research Day. Venue: Penang. Date: 19 August 2016.
126. Presentation Title: Malaysian studies on EQ-5D-5L values. Organizer: National University of Singapore & EuroQoL Foundation. Event: EQ-5D Symposium for Policy Makers and HTA Practitioners in Asia. Venue: Singapore. Date: 3 September 2016.
127. Presentation Title: Cost-effectiveness in treatment of asthma/COPD. Organizer: Respiratory Treatment Unit, Hospital Sultanah Nur Zahirah. Event: Terengganu Respiratory Update. Venue: Kuala Terengganu. Date: 17 – 18 May 2016.
128. Presentation Title: Health economic models and their applications and the related biostatistics. Organizer: Selangor Health State Department and AbbVie. Event: Workshop on Health Economics and Health Technology Assessment. Venue: Selayang. Date: 7 – 8 April 2016.
129. Presentation Title: Cost effectiveness of novel therapies for T2DM. Organizer: Astra Zeneca. Event: 3rd Astra Zeneca Family Medicine Specialists Diabetes Workshop. Venue: Penang. Date: 23 – 24 July 2016.
130. Presentation Title: SGLT2 inhibitors – the unmet need of T2DM management in Malaysia. Organizer: Astra Zeneca. Event: Pharmaceutical Service Division Lunch CME. Venue: Petaling Jaya. Date: 26 September 2016.
131. Presentation Title: Basic principles in economic evaluation and budget impact analysis. Organizer: Astra Zeneca. Event: AZMY HTA Workshop. Venue: Damansara. Date: 2 June 2016.
132. Presentation Title: Value of medicines – is it just dollar and cents. Organizer: Pfizer. Event: Engaging Pharmacists in Institutional Care Workshop. Venue: Penang. Date: 27 – 28 February 2016.
133. Presentation Title: 1. Basic principle of cost analysis. 2. Allocating shared resources. 3. Accounting for time difference. 4. Basic principle in measuring health. 5. Basic principle of economic evaluation alongside clinical trial. 6. Statistical analysis of patient level data. 7. Critical appraisal of economic evaluation alongside clinical trial paper. Organizer: Malaysia Health Technology Assessment Section. Event: Economic Evaluation in Healthcare – Intermediate & Advanced Level Course. Venue: Putrajaya. Date: 7 – 9 May 2016.
134. Presentation Title: Budget impact analysis – a 6-steps approach and its application. Organizer: The Malaysian Society for Pharmacoeconomics and Outcome Research. Event: MYSPOR 1-Day Seminar. Venue: Kuala Lumpur. Date: 22 March 2016.
135. Presentation Title: 1. Importance of pharmacoeconomic in health care. 2. Investigating pharmacoeconomic research questions. 3. Cost effectiveness analysis. 4. How can we use economic evaluation results in practice? 5. Importance and general approach to BIA. 6. How can we use BIA results in practice? Organizer: Perak Health State Department. Event: Cost Effectiveness & Budget Impact Analysis Workshop. Venue: Kota Kinabalu. Date: 13 – 14 April 2016.
136. Presentation Title: Emerging role of pharmacist in patient centered care. Organizer: Islamia University of Bahawalpur and Higher Education Commission of Pakistan. Event: International Conference of Pharmacy Practice. Venue: Bahawalpur, Pakistan. Date: 12 – 14 January 2017.
137. Presentation Title: Dengue in the context of other vector-borne diseases in today's world. Organizer: Sanofi Pasteur. Event: Dengue VOICe Asia Pacific. Venue: Manila, Phillipines. Date: 27- 28 February 2017.

138. Presentation Title: How to conduct Budget Impact Analysis. Organizer: HTAsiaLink. Event: 6th HTAsiaLink Annual Conference. Venue: Hanoi, Vietnam. Date: 17 – 20 April 2017.
- 139.

Member in Professional / Academic Associations

Exco

1. Post: Advisor. Organization: *Persatuan Sains Farmasi USM*. Appointment Duration: 23 Mac 2009.
2. Post: Chair Elect of ISPOR Asia Consortium Publication Committee. Year: 2011 - 13. Association: International Society of Pharmacoeconomics & Outcomes Research.
3. Post: Branch Chairman. Year: 2012. Association: Malaysia Pharmaceutical Society.
4. Post: Board Member. Year: 2012. Association: HTAsiaLink.
5. Post: Co-Chair Science Leadership Committee . Year: 1 Jan – 31 Dec 2017. Association: Young Scientist Network – Academy of Sciences Malaysia.
- 6.

Member

1. Post: Member. Year: Since 1997. Association: Malaysia Pharmaceutical Society.
2. Post: Member. Year: Since 2005. Association: International Society of Pharmacoeconomics & Outcomes Research.
3. Post: Member. Year: 2005 - 2007. Association: International Society of Quality of Life.
4. Post: Member. Year: Since 2009. Association: International Health Economic Association.
5. Post: Member. Year: Since 2010. Association: Health Technology Assessment International.
6. Post: Life Member. Year: Since 2012. Association: Malaysian Society of Pharmacoeconomic Outcomes & Research.
7. Post: Member. Year: Since 2011. Association: HTAsiaLink.
8. Post: Founding Member. Year: Since 2011. Association: INRUD.

Committee Member (Conference / Seminar / Workshop)

1. Post: Member. Year: 2008. Committee: *8th Asia-Pacific Pharmaceutical Symposium 2009*.
2. Post: Member. Year: 2009. Committee: *FAPA - AASP Workshop on Pharmacy Practice and Education*.
3. Post: Member. Year: 2009. Committee: *4th Asian Association of Schools of Pharmacy/9th Malaysian Pharmaceutical Society Pharmacy Scientific Conference*.
4. Post: Member. Year: 28 - 30 July 2009. Committee: *National Medicines Policy Mid-Term Review Workshop Proceeding Book*.
5. Post: Chairperson of oral presentation. Date: 28th September 2010. Committee: *1st Pharmaceutical Sciences Conference and Exhibition (PSCE) 2010*. Venue: Penang, Malaysia.
6. Post: Judge for Research Poster Presentation. Year: 2010. Conference: *13th International Society for Pharmacoeconomic and Outcomes Research Annual European Congress*.

7. Post: Judge for Research Podium Presentation. Year: 2010. Conference: *13th International Society for Pharmacoeconomic and Outcomes Research Annual European Congress*.
8. Post: Reviewer. Date: 21 - 25th May 2011. Committee: *Workshop Review Committee for the ISPOR 16th Annual International Meeting*. Venue: Baltimore, USA.
9. Post: Reviewer for Research Presentation Committee. Year: 2012. Conference: *17th International Society for Pharmacoeconomic and Outcomes Research Annual International Meeting*. Venue: Washington, USA.
10. Post: Reviewer for Research Presentation Committee. Year: 2012. Conference: *European Conference on Health Economics*. Venue: Zurich, Switzerland.
11. Post: Program Committee Member. Year: 2012. Conference: *ISPOR Asia Pacific Conference 2012*. Venue: Taipei, Taiwan.
12. Post: Organizing Committee Member. Date: 14 – 16 December. Year: 2012. Conference: *Hong Kong International Conference on Education, Psychology and Society*. Venue: Hong Kong.
13. Post: Member of Scientific Committee. Year: 2013. Conference: *9th World Congress on Health Economics*. Venue: Sydney, Australia.
14. Post: Member of Scientific Committee. Year: 2013. Conference: *1st National Quality Use of Medicines (QUM) Conference*. Venue: Malaysia.
15. Post: Chair of Scientific Committee. Year: 2013. Conference: *2nd HTAsiaLink Conference*. Venue: Penang, Malaysia.
16. Post: Chair of Organizing Committee. Year: 2013. Conference: *2nd HTAsiaLink Conference*. Venue: Penang, Malaysia.
17. Post: Reviewer for Workshop Committee. Year: 2012. Conference: *18th International Society for Pharmacoeconomic and Outcomes Research Annual International Meeting*. Venue: New Orleans, USA.
18. Post: Member of Scientific Committee. Year: 2014. Conference: *7th Asia Pasific Future Trends Forum*. Venue: Kuala Lumpur, Malaysia.
19. Post: Reviewer for Workshop Review Committee. Year: 2014. Conference: *17th International Society for Pharmacoeconomic and Outcomes Research Annual European Congress*. Venue: Amsterdam, Netherland.
20. Post: Reviewer for Research Abstract Review Committee. Date: 31 May – 4 June. Year: 2014. Conference: *19th International Society for Pharmacoeconomic and Outcomes Research Annual International Meeting*. Venue: Montreal, Canada.
21. Post: Reviewer for Research Abstract Review Committee. Date: 16 - 20 May. Year: 2015. Conference: *20th International Society for Pharmacoeconomic and Outcomes Research Annual International Meeting*. Venue: Philadelphia, USA.
22. Post: Section Chair for Media & Publicity. Year: 2015. Conference: *International Conference on Pharmacy Education and Practice*. Venue: Penang.
23. Post: Reviewer for Scientific Committee. Date: 20 Feb – 30 Aug. Year: 2016. Conference: *9th National Pharmacy R&D Conference*. Venue: Putrajaya, Malaysia.
24. Post: Reviewer for Research Abstract Review Committee. Date: August. Year: 2016. Conference: *9th National R & D Conference*. Venue: Putrajaya.
25. Post: Chair of Organizing Committee. Year: 2016. Date: 6 August 2016. Conference: *Natoinal EQ-5D Symposium*. Venue: Penang, Malaysia.
26. Post: Reviewer for Research Abstract Review Committee. Date: 20 – 24 May. Year: 2017. Conference: *22nd International Society for Pharmacoeconomic and Outcomes Research Annual International Meeting*. Venue: Boston, USA.
27. Post: Reviewer for Research Abstract Review Committee. Date: 17 – 20 April. Year: 2017. Conference: *6th HTAsiaLink Annual Conference*. Venue: Hanoi, Vietnam.

28. Post: Reviewer for Research Abstract Review Committee. Date: 15 – 17 September. Year: 2017. Conference: International Society for Pharmacoeconomic and Outcomes Research 6th Latin America Conference. Venue: Sao Paulo, Brazil.
29. Post: Judge for Clinical Track Oral Presentation. Date: 8th April. Year: 2017. Conference: National Heart Association Malaysia – Clinical Research Malaysia Research Track. Venue: Kuala Lumpur.
- 30.

CONSULTANCY

Consultation with Monetary Reward

Principal Investigator: Research

1. TITLE OF PROJECT: Impact of calendar packaging on medication adherence and treatment outcomes among hypertension patients in the state of Penang, Malaysia. SPONSOR: Kotra Pharma (M) Sdn Bhd. VALUE: MYR126234.98. MAIN RESEARCHERS: Dr Asrul Akmal Shafie, Dr Mohamed Azmi Ahmad Hassali, Dr Fahad Saleem, Ms Jovelyn Tan. DURATION OF CONSULTANCY: 8 August 2014 – 8 September 2015.
2. TITLE OF PROJECT: The potential cost-effectiveness and budget impact of dengue vaccine in Malaysia. SPONSOR: Sanofi-Aventis Singapore PTE Ltd. VALUE: MYR169704. MAIN RESEARCHERS: Dr Asrul Akmal Shafie, Ms Yeo Hui Yee. DURATION OF CONSULTANCY: 8 September 2014 – 8 August 2015.
3. TITLE OF PROJECT: Budget Impact Analysis of Empagliflozin for treating Type 2 Diabetes Patients in Malaysia. SPONSOR: Boehringer Ingelheim. VALUE: MYR95000. MAIN RESEARCHERS: Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 29 January 2016 – 31 May 2016.

Co-Investigator: Research

1. TITLE OF PROJECT: A national survey on the use of medications by Malaysian consumers. SPONSOR: Pharmaceutical Services Division, Ministry of Health. VALUE: MYR34285.71. MAIN RESEARCHERS: Dr Mohamed Azmi Ahmad Hassali, Dr Asrul Akmal Shafie, Professor Mohamed Izham Mohamed Ibrahim. DURATION OF CONSULTANCY: 1 October 2007 - 7 October 2009.
2. TITLE OF PROJECT: Survey to evaluate education on rational use of antibiotics and antibiotic resistance (ABR) for medical and pharmacy students in the South East Asian region. VALUE: MYR15451. MAIN RESEARCHERS: Dr Mohamed Azmi Ahmad Hassali, Dr Asrul Akmal Shafie, Dr Mahmoud Saudi, Dr Jayabalan Tambyappa. DURATION OF CONSULTANCY: 1 September 2010 - 1 October 2011.
3. TITLE OF PROJECT: A national survey on the use of medications by Malaysian consumers 2012. SPONSOR: Pharmaceutical Services Division, Ministry of Health. VALUE: MYR20000. MAIN RESEARCHERS: Dr Mohamed Azmi Ahmad Hassali, Dr Asrul Akmal Shafie, Ms Chua Gin Nie. DURATION OF CONSULTANCY: 11 September 2012 - 12 October 2014.
4. TITLE OF PROJECT: National survey exploring consumer satisfaction and perception towards medicines dispensing services. SPONSOR: Pharmaceutical Services Division, Ministry of Health. VALUE: RM20000. MAIN RESEARCHERS: Dr Mohamed Azmi Ahmad Hassali, Dr Asrul Akmal Shafie, Dr Fahad Saleem. DURATION OF CONSULTANCY: 11 April 2014 – 12 April 2016.

Principal Investigator: Service

1. TITLE OF PROJECT: Presentation entitled quality use of generic medicines: the myth and facts. VALUE: RM1000. MAIN CONSULTANT: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 9 September 2012 – 9 September 2013.
2. TITLE OF PROJECT: Expert advisor on Hepatitis C Modelling Advisory Board. SPONSOR: AbbVie Sdn Bhd. VALUE: RM1000. MAIN RESEARCHERS: Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 21 August 2014.

3. TITLE OF PROJECT: Advisory board for 'Is there a need to review our guidelines on management of dyslipidemia'. SPONSOR: Pfizer Sdn Bhd. VALUE: RM1000. MAIN RESEARCHERS: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 23 August 2014.
4. TITLE OF PROJECT: Implementation of potential ecosystem solutions and affordability programs into healthcare. SPONSOR: UCB Biopharma SPRL. VALUE: RM4151. MAIN RESEARCHERS: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 2 – 3 February 2015.
5. TITLE OF PROJECT: Pharmacoeconomic Workshop at Brunei Hotel, Bandar Seri Begawan. SPONSOR: Astra Zeneca Malaysia. VALUE: RM2000. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 26 April 2015.
6. TITLE OF PROJECT: Diabetoeconomics Workshop at Kuala Lumpur. SPONSOR: Astra Zeneca Malaysia. VALUE: RM2000. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 18 April 2015.
7. TITLE OF PROJECT: Diabetoeconomics Workshop at Holiday Inn Hotel, Melaka. SPONSOR: Astra Zeneca Malaysia. VALUE: RM2000. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 23 May 2015.
8. TITLE OF PROJECT: Health Technology Assessment Workshop at Kuala Lumpur. SPONSOR: Astra Zeneca Malaysia. VALUE: RM2000. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 25 April 2015.
9. TITLE OF PROJECT: Speaker for National Cancer Institute's Pharmacoeconomic Workshop Series. SPONSOR: Bayer Healthcare. VALUE: RM1000. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 25 February 2015.
10. TITLE OF PROJECT: Speaker for 8th Asian Congress of Pediatric Infectious Diseases. SPONSOR: Sanofi Pasteur. VALUE: RM3900. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 8 November 2016.
- 11.

Consultation with No Monetary Rewards

Principal Investigator: Research

1. TITLE OF PROJECT: Proceeding book for National Medicines Policy Mid-Term Review Workshop. MAIN RESEARCHERS: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 28 – 30 July 2009.
2. TITLE OF PROJECT: Outcome of Pharmacist Involvement in Management of Rheumatoid Arthritis Patients at Hospital Sultanah Bahiyah. MAIN RESEARCHERS: Miss Malathi a/p Sriraman @ Jayaraman, Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 9 May 2011 -.
3. TITLE OF PROJECT: Cognitive debriefing of Tamil FSHI-8 hepatobiliary cancer in Malaysia. MAIN RESEARCHERS: Dr Asrul Akmal Shafie, AP Dr Mohamed Azmi Hassali. DURATION OF CONSULTANCY: 3 December 2010 - 9 Feb 2011.
4. TITLE OF PROJECT: Study on effectiveness of Malaysia Health Promotion Board (MySihat) Program. MAIN RESEARCHERS: AP Dr Asrul Akmal Shafie, Mr Lim Chin Choon. DURATION OF CONSULTANCY: 4 Feb 2012
5. TITLE OF PROJECT: Development of decision model for economic evaluation of childhood obesity prevention program in Malaysia. MAIN RESEARCHERS: AP Dr Asrul Akmal Shafie, Mr Lim Chin Choon. DURATION OF CONSULTANCY: 14 November 2013.

Principal Investigator: Service

1. TITLE OF PROJECT: Oncology Drug Access Advisory Board. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 20 November 2016.
2. TITLE OF PROJECT: Establishment of Pharmacoeconomic Coordinating Centre. MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 4 April 2016.
3. TITLE OF PROJECT: Dengue VOICE™ (Vaccine Optimization and Implementation Committee of Experts). MAIN PROVIDER: AP Dr Asrul Akmal Shafie. DURATION OF CONSULTANCY: 29 November – 1 December 2016.
- 4.
- 5.

SERVICE TO THE UNIVERSITY

University Committee

1. Position: Member. Committee: Think Tank Team U3P. Per Duration/Year: 18 June 2009 - .
2. Position: Co-ordinator & Trainer. Committee: Nurturing and Learning Seminar. Per Duration/Year: 3 - 4 July 2009.
3. Position: Mock interviewer. Committee: Panel Penemuduga Ekspo Kerjaya Dan Pendidikan 2011. Per Duration/Year: 1 Mac 2011.
4. Position: Member. Committee: Anugerah Penyelidikan Terbaik untuk Malam Persada Kencana 2011. Per Duration/Year: 22 Julai 2011.
5. Position: Chairman. Committee: Viva of MSc Candidate Tan Yi Han. Per Duration/Year: 4 April 2013.
6. Position: Chief Exam Invigilator. Per Duration/Year: 19 December 2013.
7. Position: Chairman. Committee: Viva of MSc Candidate Badiozaman Sulaiman. Per Duration/Year: 17 April 2014.
8. Position: Member. Committee: Interviewer Panel for Bachelor of Pharmacy (Hons) Program Academic Session 2014/15. Per Duration/Year: 7 – 10 May 2014.
9. Position: Chairman. Committee: Viva of MSc Candidate Norrulhuda Ibrahim. Per Duration/Year: 4 June 2014.
10. Position: Chairman. Committee: Viva of MSc Candidate Muhammad Faris Abdul Rashid. Per Duration/Year: 18 July 2014.
11. Position: Chairman. Committee: Viva of MSc Candidate Defri Zulkarnain. Per Duration/Year: 18 February 2014.
12. Position: Member. Committee: Proposal development for establishing School of Healthy Lifestyle. Per Duration/Year: 7 April 2014.
13. Position: Member. Committee: Interviewer Panel for Bachelor of Pharmacy (Hons) Program Academic Session 2016/17. Per Duration/Year: 4 – 12 May 2016.
- 14.

School Committee

1. Position: Member. Committee: Jawatankuasa Bertindak Untuk Kawad Kebakaran. Per Duration/Year: 25 February 2008.
2. Position: Member. Committee: Majlis Pusat Pengajian Sains Farmasi. Per Duration/Year: 10 September 2008 - .
3. Position: Member. Committee: Karnival Farmasi. Per Duration/Year: 20 - 21 January 2009.

4. Position: Member. Committee: Jawatankuasa Pensyarah - Pelajar Pusat Pengajian Sains Farmasi. Per Duration/Year: 7 October 2009 - .
5. Position: Member. Committee: Jawatankuasa Semakan Kurikulum Pusat Pengajian Sains Farmasi. Per Duration/Year: 12 April 2010 -.
6. Position: Member. Committee: Jawatankuasa Pengurusan Geran Penyelidikan Pusat Pengajian Sains Farmasi. Per Duration/Year: 27 Oktober 2010 -.
7. Position: Member. Committee: Panel Temuduga Skim Siswazah Pembantu USM (Baru). Per Duration/Year: 10 November 2010 -.
8. Position: Member. Committee: Jawatankuasa Tetap KPI Pusat Pengajian Sains Farmasi. Per Duration/Year: 8 Disember 2010 -.
9. Position: Member. Committee: Jawatankuasa Apex Excellence Grant Application Pusat Pengajian Sains Farmasi. Per Duration/Year: 14 Januari 2011 -.
10. Position: Member. Committee: Jawatankuasa Keselamatan dan Kesihatan Pekerjaan Pusat Pengajian Sains Farmasi. Per Duration/Year: 25 Mei 2011 -.
11. Position: Chairman. Committee: Jawatankuasa Kelestarian Pusat Pengajian Sains Farmasi. Per Duration/Year: 14 Mac 2012 -.
12. Position: Assessor. Committee: Jawatankuasa Penilai Kertas Cadangan Penyelidikan Pelajar Siswazah. Per Duration/Year: 26 Februari 2013 -.
13. Position: Member. Committee: Panel Bahasa Inggeris 2013/14 Semester 1. Per Duration/Year: 28 Oktober 2013.
14. Position: Member. Committee: Jawatankuasa Ijazah Tinggi Pusat Pengajian Sains Farmasi. Per Duration/Year: 1 Januari 2013.
15. Position: Speaker & Facilitator. Program: Introduction to Pharmacy Research Methods for Non Academic Staff (*Pengenalan kepada kaedah penyelidikan farmasi bagi staf bukan akademik*). Per Duration/Year: 20 – 21 Ogos 2013.
16. Position: Assessor. Committee: Postgraduate Research Proposal Evaluation Committee. Per Duration/Year: 26 Mac 2013.
17. Position: Member. Committee: School of Pharmaceutical Sciences Board. Per duration/Year: 14 February 2013.
18. Position: Speaker & Facilitator. Program: Effective leadership programme for future pharmacists. Per Duration/Year: 26 October 2013.
19. Position: Speaker entitled 'Pharmacy practice in Malaysia'. Program: International Student Visit from Sharjah University UAE to School of Pharmaceutical Sciences USM. Per Duration/Year: 21 January 2013.
20. Position: Member. Committee: Jawatankuasa Pengurusan Pusat Pengajian Sains Farmasi (*School Management Committee*). Per Duration/Year: 8 April 2014.
21. Position: Member. Committee: Jawatankuasa Ijazah Tinggi Pusat Pengajian Sains Farmasi. Per Duration/Year: 1 Januari 2014.
22. Position: Chair Elect. Committee: Jawatankuasa KPI Pusat Pengajian Sains Farmasi. Per Duration/Year: 11 Mac 2014 – 31 Disember 2015.
23. Position: Member. Committee: Panel Bahasa Inggeris 2013/14 Semester 2. Per Duration/Year: 26 Mac 2014.
24. Position: Member. Committee: Panel Bahasa Inggeris 2013/14 Semester KSCP. Per Duration/Year: 17 Julai 2014.

25. Position: Member. Committee: Jawatankuasa Pengurusan Pusat Pengajian Sains Farmasi (*School Management Committee*). Per Duration/Year: 25 Julai 2014.
26. Position: Member. Committee: Jawatankuasa Ijazah Tinggi Pusat Pengajian Sains Farmasi (*Postgraduate Committee*). Per Duration/Year: 1 January 2015 – 31 December 2015.
27. Position: Member. Committee: Panel Bahasa Inggeris 2014/15 Semester 2. Per Duration/Year: 6 April 2015.
28. Position: Member. Committee: Jawatankuasa KPI Pusat Pengajian Sains Farmasi. Per Duration/Year: 5 January 2015 – 31 December 2015.
29. Position: Deputy Chair. Committee: Jawatankuasa KPI Pusat Pengajian Sains Farmasi. Per Duration/Year: 4 January 2016 – 31 December 2017.
- 30.

SERVICE TO THE COMMUNITY

International

1. Position: Member. Activity: Hitachi Young Leaders Initiative Alumni Forum. Place: Raffles City Convention Centre, Singapore. Year: 4 - 6 July 2010.
2. Position: Member. Activity: Project MYSOR209 - Reaching out to disadvantaged youth to address SRH needs and HIV prevention through peer education 2007 - 2012. Place: Penang, Malaysia. Year: July - December 2012. Organizer: Penang Family Health Development Association & United National Population Fund.

District / Village / Institution

1. Position: Chief Adjudicator. Activity: Qualifying Round, & Quarter Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2009.
2. Position: Adjudicator. Activity: Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2009.
3. Position: Chief Adjudicator. Activity: Qualifying Round, & Quarter Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2010.
4. Position: Advisory Panel. Activity: Program Bersama Masyarakat - Inisiatif Universiti Memperkasakan Kesihatan Komuniti. Place: Kampung Tengku, Jelutong. Year: 2010.
5. Position: Advisor. Society: Persatuan Sains Farmasi Universiti Sains Malaysia. Year: 2010-11.
6. Position: Advisor. Society: Persatuan Sains Farmasi Universiti Sains Malaysia. Year: 2011-12.
7. Position: Chief Analyst. Activity: Endline Assessment Analysis Report under Voices of Individuals Advocating for Voluntary Counselling and Testing ChoiCES (VOICES Project). Institution: Penang Family Health Development Association. Year: 2012.
8. Position: Volunteer. Activity: Community Wellness Programme 'Mai Kita Sepakat Jaga Kesihatan'. Community: Sg Pinang Community Hall, Penang. Institution: Yayasan Bina Ilmu. Date: 8 April 2012.
9. Position: Volunteer. Activity: Community Wellness Programme 'Memperkasa KESihatan Golongan Berpendapatan Sederhana dan Rendah di Pulau Pinang'. Community: IJM Flat, Penang. Institution: Yayasan Bina Ilmu. Date: 30 September 2012.
10. Position: Chief Adjudicator. Activity: Qualifying Round & Semi Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2013.

11. Position: Volunteer. Activity: Community Outreach Programme. Institution: Yayasan Bina Ilmu and National Gathering of Pharmacy Students . Year: 27 August 2013.
12. Position: Adjudicator. Activity: Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2014.
13. Position: Volunteer. Activity: Aktiviti Gotong Royong Kitar Semula dan Majlis Ramah Mesra. Institution: Kelab Sosial Staf Pusat Pengajian Sains Farmasi/ Date: 12 February 2015.
14. Position: Adjudicator. Activity: Semi Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2015.
15. Position: Adjudicator. Activity: Final for Debat Piala Naib Canselor. Place: Universiti Sains Malaysia. Year: 2015.
16. Position: Adjudicator. Activity: Debat Piala Dekan PPIP. Place: Universiti Sains Malaysia. Year: 2015.
- 17.

REFEREES

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