

Dr. Muhammad Zahid Iqbal

Assistant Professor,

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Biography

Dr. Muhammad Zahid Iqbal is currently working as an Assistant professor, the Department of Pharmacy Practice in Lahore Pharmacy College, Lahore Pakistan. He has recently completed his contract as Senior Lecturer in Department of Clinical Pharmacy, Faculty of Pharmacy AIMST University Malaysia. He has received his Pharm D (2010) From The Islamia University of Bahawalpur Pakistan and MBA (Marketing Management) (2012) from Allama Iqbal Open University Islamabad Pakistan, and his M.Sc (Clinical Pharmacy) (2014) from Universiti Sains Malaysia (USM). He did his PhD (Clinical Pharmacy) in 2021 from Universiti Sains Malaysia (USM).

His current research focused on KAP studies, Quality of Life evaluation, Pharmacoeconomics, Pharmacokinetics, Pharmaceutical marketing and management, Pharmacy Practice Education, Extension of pharmacists' role, Quality use of medicines, Patients' awareness on disease management, safe and effective use of antibiotics, Randomized control trials, Quantitative and Qualitative research methods (Cross-sectional, case-control, in-depth interviews, etc). He has completed more than 80 research projects in clinical pharmacy.

His rewards introduced new teaching methodology including Problem Based Learning (PBL), Problem sets, Hospital Clerkships, Community Clerkships, OSCEs, PBLs, PSDs, SGTs, and Workshops for the interview and cv writing in AIMST University Malaysia for the first time. Furthermore, he has successfully organized and conducted various CSR activities i.e. Patients' medication counseling for old folks home, Pediatric medication review for orphanage home, Prescription screening for geriatrics diabetic patients of old folks home in Pakistan.

He serves as the editorial advisory board of over five professional journals. He has published over 110 peer-reviewed articles in the field of Clinical Pharmacy with an approximate ISI Impact Factor of about 150 in ten years.

Personal Information

Born January 1st, 1985 in Lahore (Pakistan) Citizenship: Pakistan
Marital status: married, 2 kids

Research links

Google Scholar: <https://scholar.google.com/citations?user=gWe5yi4AAAAJ&hl=en>

Research gate: <https://www.researchgate.net/profile/Muhammad-Iqbal-37>

Frontiers In and Loop: <https://loop.frontiersin.org/people/1013552/overview>

Objectives

- To obtain a position in a pharmacy educational institute/university wherein my teaching and research skills in conjunction with knowledge will be utilized and polished for further growth and development.
- To utilize my teaching skills towards a challenging career in growth-oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society.

Education

- **Ph. D (Clinical Pharmacy) 2021**

Universiti Sains Malaysia (USM) Pulau Pinang, Malaysia

Dissertation: Impact of pharmacist intervention on Clinical Outcomes, Quality of Life, Cost of Treatment and Complications among diabetic patients in DMTAC, Kedah, Malaysia

- **MSc (Clinical Pharmacy) 2014**

Universiti Sains Malaysia (USM) Pulau Pinang, Malaysia

Dissertation: Evaluation of doctor's knowledge and practice with reference to clinical practice guideline (2009) Ministry of Health Malaysia on management of diabetes mellitus at Hospital Pulau Pinang.

- **MBA (Marketing Management) 2012**

Allama Iqbal Open University (AIOU), Islamabad Pakistan.

Dissertation: Empirical investigation the influence of organizational and leadership performance among different national pharmaceutical companies in Pakistan.

- **Pharm. D (Doctor of Pharmacy) 2010**

The Islamia University of Bahawalpur, (IUB) Pakistan

Dissertation: Impact of standard hepatology guidelines compliance treatment on the Quality of Life (QoL) of Hepatitis-C Adolescents in Bahawal Victoria Hospital (B.V.H) Pakistan.

Work Experience (11.5 years)

Assistant Professor, Lahore Pharmacy College, Lahore Pakistan

(Jan 2022 - to date)

Department of Pharmacy Practice

Pharm. D:

Currently teaching in major subjects: Advance Clinical Pharmacy II, Clinical Pharmacy I, Dispensing, Community, Social & Administrative Pharmacy, Hospital Pharmacy, Clinical Pharmacy Training, Pharmaceutical Management and Marketing, Computer, and its Applications in Pharmacy.

Adjunct Associate Professor, AIMST University, Kedah, Malaysia

(Jan 2022 - to date)

M. Pharm:

Currently teaching in major clinical pharmacy subjects: Pharmacotherapeutics, Pharmacoeconomics, Clinical Pharmacokinetics, Biostatistics & Clinical Research and Currently supervising ONE student.

PhD (Clinical Pharmacy):

Currently supervising TWO students in PhD (Clinical Pharmacy)

Senior Lecturer, AIMST University, Kedah, Malaysia

(Nov 2017 – Dec 2021)

Department of Clinical Pharmacy & Pharmacy Practice

B. Pharm:

Subjects taught: Clinical Pharmacokinetics, Applied Therapeutics I & II, Pharmacoepidemiology, Pharmacoeconomics, Biostatistics in Clinical Pharmacy, Clinical Pharmacy, Public Health Pharmacy, Clinical Pharmacy Training, Hospital Pharmacy Training, Drug Information System and Advance Pharmacy Management.

M. Pharm:

Subjects taught: Pharmacotherapeutics I and Pharmacotherapeutics 4, Biostatistics & Clinical Research, Pharmacoeconomics, Hospital attachments, Supervising Clinical Clerkships at Endocrinology, and Medication Therapy Adherence Clinics (MTAC).

M. Sc (Clinical Pharmacy):

Subjects taught: Pharmacoeconomics in Pharmacy, Clinical Pharmacy Practice, Advance Pharmacy Management and Research methodology & Ethics.

Students' Research Projects:

Supervised EIGHT research students in B. Pharm and TWO in M. Pharm

Lecturer, AIMST University, Kedah, Malaysia

(Jan 2014 – Oct 2017)

Department of Clinical Pharmacy & Pharmacy Practice

B. Pharm:

Subjects taught: Applied Therapeutics I, Clinical Pharmacy, Clinical Pharmacokinetics, Pharmacoepidemiology, Pharmaceutical Marketing & Management, Biostatistics in Clinical Pharmacy, Community Pharmacy, Clinical Pharmacy Training and Hospital Pharmacy Training.

M. Pharm:

Subjects taught: Biostatistics & Clinical Research, Research methodology, Pharmacotherapeutics I, Pharmacoeconomics and Clinical Pharmacokinetics.

Students' Research Projects:

Supervised SEVEN research students in B. Pharm and ONE in M. Pharm

Research student, Universiti Sains Malaysia (USM)

(Feb 2012- Dec 2014)

Department of Clinical Pharmacy

Curriculum Development Quality Assurance and Improvement

- Expert in development of The Programme Educational Objectives (PEO) and Programme Learning Outcomes (PLO).
- Expert in PEO & PLO Assessment and Measurement Tools
- Expert in development of Course Learning Outcomes (CLO) for Clinical Pharmacy and Pharmacy Practice subjects.
- Expert in CLO and PLO mapping.
- Expert in development of rubrics for assessment of CLOs for Clinical Pharmacy and Pharmacy Practice subjects.
- Expert in mapping of Course Learning Outcomes (CLO) with Programme Learning Outcomes (PLO).

AIMST University Malaysia:

- Design & developed FOUR modules for B. Pharmacy: Introduction to Clinical Pharmacy, Research Project, Nutraceutical Pharmacy and Drug Information Services.
- In charge for Clinical Pharmacy department and actively involved in development and implementation of Outcomes-Based Education (OBE) curriculum of B. Pharmacy in AIMST University Malaysia.

MAHSA University Malaysia:

- Design & developed THREE Outcomes-Based Education (OBE) curriculum modules of B. Pharmacy as external advisor: Public Health Pharmacy, Central Nervous System & Pharmacotherapy and Clinical Pharmacokinetics.
- Prepared and validate the rubrics for assessment of Course Learning Outcomes (CLO) as per Malaysian Qualifications Framework (MQF).

Asia Metropolitan University (AMU) University Malaysia:

- Design & developed TWO Outcomes-Based Education (OBE) curriculum modules for B. Pharmacy as external advisor: ‘Gastrointestinal, Endocrine Systems & Pharmacotherapy’ and ‘Central Nervous System & Pharmacotherapy’.
- Prepared and validate the rubrics for assessment of Course Learning Outcomes (CLO) as per Malaysian Qualifications Framework (MQF).

Consulting Expertise and Credibility

- **External Examiner for MSc (Clinical Pharmacy), AIMST University**

Examined 3 masters research thesis in AIMST University, as follows:

1. Drug Information Resources (DIR) among Ministry of Health (MoH) Prescribers and Pharmacists in Government Health Facility, Kedah District Malaysia.
2. Level of COPD knowledge among COPD patients attending regular follow-up at chest clinic, Hospital, Multicenter Observational Study
3. Smoking cessation knowledge, attitude and practice among Family medicine specialists (FMS) in Malaysia

- **External Examiner for M. Phil thesis, University of Central Punjab**

Examined 2 masters research thesis in University of Central Punjab, as follows:

1. Comparison of various creatinine-based equations in south Asian population with CKD.
2. Clinical Correlation, Prescribing Trends, and Differences of Effects in Male and Female Adult Patients with ADHD in Lahore, Pakistan

- **Internal Examiner for MSc (Clinical Pharmacy), AIMST University**

Examined 2 masters research thesis in AIMST University, as follows:

1. A Randomized, Multicenter, Prospective Interventional Study to Evaluate the Efficacy of Immediate Diet in Addition to Standard Mouth Rinsing in Reducing Local Adverse Events of Inhaled Corticosteroid among Asthmatic Patients-a pilot study.
2. Prevalence Of Simvastatin Associated Muscle Symptoms Among Hypercholesterolemic Patients Receiving Simvastatin and Amlodipine of Kuala Muda District Kedah; A Retrospective Prospective, Multicenter Observational Study

- **Supervisor for clinical clerkships in Master of Clinical Pharmacy, AIMST University**

Supervised clinical clerkships in endocrinology, internal medicine, and geriatrics. Helped students in case clerking, bedside teaching, finding pharmaceutical care issues in the case and case presentation in case-based learning.

- **Batch Coordinator for the Year 2018 B-Pharmacy Students**

Monitored the course registration and re-registration process for the students, coordinate mentor-mentee sessions for the batch, maintained documents related to the batch, presented the results of all these students in the Senate of AIMST University.

- **Faculty coordinator for case-based learning, AIMST University**

Prepared and validated the mock case questions for year 3 and year 4 students' examinations, conducted batch level question paper vetting for the mock case scenarios, provided expert opinion on the modification of provided case scenarios to the course coordinators.

Dr Muhammad Zahid Iqbal – curriculum vitae (CV)

- **AIMST Coordinator for online learning**

Coordinated Online Classes, Tutorials, PBLs, OSCE, Online examinations, Online Seminars, Online Presentations, Online result presentations into university management systems, Expert in Online learning management systems on Moodle.

- **AIMST Students' Experiential Learning**

First-Ever Coordinator for Problem Base Learning (PBL), and Problem sets in Faculty of Pharmacy AIMST University Kedah Malaysia.

- **Chairman, Faculty Social Committee (2015-to 2021)**

Faculty of Pharmacy Social committee had conducted social activities at AIMST University

- **Vice-chairman for Curriculum Design and Review Committee (B. Pharm and M. Pharm)**

Conducted curriculum and review program, established student mobilization program, established an up to date alumni data into the system, Played an active role in the strategic process of curriculum designing, current curriculum reviewing, current and future competency mapping with renowned overseas professional pharmacy societies, students' feedback, and assessments' evaluation (formative and summative), worked in MQA Area 7 and Area 9 for the aggradation of B pharmacy program from concern authorities in Malaysia.

- **Chairman faculty Research and Ethics Committee**

Reviewed research proposals, provided recommendations and approval at the faculty level, provided guidelines on plagiarism, publication ethics and disseminate information to improve awareness about thesis and data collection issues.

- **Vice-chairman for academic planning and assessment committee**

Updated the student handbooks, prepared class timetables for undergraduate and postgraduate students, Liaised with the exam division of the university.

- **AIMST supervisor for students' Hospital and Clinical Pharmacy training placements**

Supervised clinical clerkships/postings of B. Pharm students in various hospitals of Kedah Malaysia. Main duties include coordination and planning with hospital preceptors, ward rounds with students, help in case clerking, Pharmaceutical Care Planning (PCP) preparations, Evidence Based Medicines (EBM) discussions, Pharmaceutical Care Issues (PCIs) findings/discussions, preparations of daily reflective diaries, monthly reflective diaries, clinical case presentations (long & short) and Integrated Seminars etc

- **AIMST supervisor for students' community placements**

Supervised community clerkships/postings of B. Pharm and M. Pharm students at various pharmacies.

- **Vice-chairman Quality assurance and document information**

Collected quality assurance documents and disseminate good practice within the faculty, review and improve the standard operating procedures, conducted audit and feedback for established and new courses, ensure that the faculty quality assurance program is in line with the University authorities and relevant bodies of the country.

- **Vice-chairman for drug information committee**

Provided drug information and counseling, provided experiential learning on DIC activities for students, documented drug inquiries and adverse drug reporting cases, update references, facilitated in- house consultancy and training, facilitate community outreach programs.

- **Chairman for Continuous Professional Development committee**

Dr Muhammad Zahid Iqbal – curriculum vitae (CV)

Organized Continuous Professional Development (CPD) and seminars for staff members and students, organize Journal club for staff members and students, disseminated information on relevant conferences for staff and students to participate.

- **Chairman for Faculty Skill lab committee**

Organized the skill lab visits of students into the hospitals along with dietitians and in-campus mock skill lab visits with faculty of medicine and dental students.

- Excellent teaching, presentation, and knowledge delivering skills.
- An enthusiastic, reliable, and organized person, with excellent interpersonal skills.
- Excellent communication, motivation, management, and convincing skills.
- Dedication, target achieving tendency, and meeting the project goals under tough circumstances.
- Management, leadership and commanding capabilities can handle multiple scale projects.
- Quick learner and an effective team player, with a proven ability to achieve results within a team but also skilled at using own initiative.
- Take pride in hard work, can adjust to any sort of environment.

Experiential teaching and learning:

Hospital Clinical Preceptor For

1. Endocrine Diseases at Hospital Sultan Abdul Halim, Sungai Petani, Kedah Malaysia
2. Nephrology at Hospital Sultanah Bahiyah, Alor Star Kedah Malaysia
3. Infectious Diseases at Hospital Sultanah Bahiyah, Alor Star Malaysia
4. Surgery at Hospital Sultan Abdul Halim, Sungai Petani, Kedah Malaysia
5. Pediatric Diseases at Hospital Sultan Abdul Halim, Sungai Petani, Kedah Malaysia
6. O & G at Hospital Sultanah Bahiyah, Alor Star Kedah Malaysia
7. Diabetes medication therapy adherence clinic at Hospital Sultan Abdul Halim, Sungai Petani, Kedah Malaysia

Postgraduate Research Supervision

Lahore Pharmacy College, Lahore Pakistan as Field Supervisor:

1. Programme: **PhD (Clinical Pharmacy)**

Batch: (2022 March intake)

Name of student: Asma Fareed Khan

Project title: Dose Adjustment Trends of Anti-Hypertensive and Anti- Diabetics in Chronic Kidney Disease (CKD) Patients Based on GFR and Practicing Formulas at Different Hospitals in Malaysia

2. Programme: **PhD (Clinical Pharmacy)**

Batch: (2022 March intake)

Name of student: Iqra Mushtaq

Project title: Impact of Insulin Injection Re-education on Glycemic Control Among Type II Diabetes Mellitus Patients in tertiary hospital: a patient approach in Lahore Pakistan

3. Programme: **M Phil (Clinical Pharmacy)**

Batch: (2022 March intake)

Name of student: Asifa Idrees

Project title: The Effectiveness of Structured Foot Care Education Programme on Knowledge and Self Efficacy among Patient with T2DM in a tertiary care hospital in Lahore Pakistan

AIMST University Malaysia:

1. Programme: **Master of Pharmacy (M Pharm.)**

Batch: (2016- 2019)

Name of student: Mehak Tahir

Project title: Community pharmacists' Knowledge Attitude and Practice about herbal medicines and its adverse drug reactions reporting in Kedah, Malaysia

2. Programme: **Master of Pharmacy (M Pharm.)**

Batch: (2015- 2017)

Name of student: Sohail Aziz

Project title: Knowledge, Attitude and Practice towards Vaccination: A Cross Sectional Study among the Parents in Kedah, Malaysia

3. Programme: **Master of Pharmacy (M Pharm.)**

Batch: (2015- 2017)

Name of student: Syed Ghouse Mohauddin

Project title: KAP Of General Population Towards Complementary And Alternative Medicine (CAM) In Relation To Health And Quality Of Life In Kedah, Malaysia

Research Interests

- Randomized control trials: 7 studies published and 5 ongoing projects (2 trials registered under The Australian New Zealand Clinical Trials Registry (ANZCTR)).
- Cross sectional observational KAP studies: 37 studies published and 6 ongoing projects
- Pharmacoeconomic and QoL studies: 16 published and 4 ongoing projects (2 projects of QoL and 1 on Indirect cost approved by MREC Malaysia)
- Health-care students' awareness on disease management: 45 published and 3 ongoing projects (2 projects approved by MREC Malaysia)
- Patients' awareness on disease management: 5 published and 3 ongoing projects (2 projects approved by MREC Malaysia)
- Pharmacist-led educational intervention on disease management: 8 published and 4 ongoing projects (1 trial registered under The Australian New Zealand Clinical Trials Registry (ANZCTR)).
- Pharmaceutical marketing and management
- Medication outcomes and comparative effectiveness.
- Pharmacoepidemiology
- Obesity/Type 2 Diabetes
- Prescription pattern evaluation
- Patient reported quality of life.
- Clinical outcomes measurements for life style oriented diseases
- Pharmacy Practice Education
- Quality use of medicines
- Safe and effective use of antibiotics
- Quantitative and Qualitative research methods (Cross sectional, case-control, in-depth interviews etc)

Ongoing Research Projects (Local)

- The impact of an educational intervention on the skill of community pharmacists in the use of a pressurized metered-dose inhaler: A covert simulated patient approach in Pakistan
- Identification of Medication Discrepancies by Pharmacist during Admission and Discharge among ESRF patients in nephrology ward at a tertiary care hospital in Lahore Pakistan
- Knowledge and Adherence About Medications Used in Hemodialysis Patients In General Hospital Lahore Pakistan
- Interventions to Reduce Medication Administration Errors in Pakistani Neonatal Intensive Care Units.
- The level of awareness, attitude, practice and its associated factors for the use of Metformin in Gestational Diabetes Mellitus among healthcare doctors in primary care in Pakistan.

Ongoing Research Projects (International Collaboration)

Malaysia

- Quality of Life (QOL) among Nasopharyngeal Carcinoma (NPC) Patients Undergoing Radiotherapy and Chemotherapy in Hospital Kuala Lumpur (NMRR ID-19-128-456)
- International randomized study evaluating the efficacy & safety of fondaparinux sodium vs control therapy and glucose-insulin-potassium infusion versus control in a broad range of patients with ST segment elevation acute myocardial infarction (NMRR ID-18-77-360)
- Knowledge and Attitude of Women towards Hormone Replacement Therapy in Obstetric and Gynecology Clinic Hospital Kuala Lumpur (NMRR ID-17-125-445)

Australia

- Classification of Childhood Epilepsies in a Tertiary Pediatric Neurology Clinic Using a Customized Classification Scheme from the International League Against Epilepsy 2017 and 2022 report
- An international observational study in emerging markets to estimate the burden of illness in adult atopic dermatitis patients.

Ongoing Clinical trial in Australian New Zealand Clinical Trials Registry (ANZCTR)

- Title: Effect of pharmacist involvement in Diabetes Medication Therapy Adherence Program (DMTAC) on the clinical outcomes of diabetes in two different hospitals of Kedah state Malaysia.
- Universal Trial Number (UTN): U1111-1252-5588
- Registration number: ACTRN12621001128886
- Allocation to intervention: Randomized controlled trial
- Intervention assignment: Parallel
- Ethics approval number: KKM/NIHSEC/ P18-1307 (13)
- **Primary outcome:**
 1. To evaluate the impact of pharmacist intervention on clinical outcomes in the form of HbA1c of diabetes mellitus in diabetic patients.
 2. To evaluate the impact of pharmacist intervention on patient-reported quality of life in diabetic patients.
 3. To evaluate the impact of pharmacist intervention on the direct cost of treatment (hospital bearing) in diabetic patients.
 4. To evaluate the impact of pharmacist intervention on the progression of signs and symptoms of diabetic complications in diabetic patients.
- URL: <https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=12621001128886>

Editorial board member / Reviewer in Journals

- BMC Health Services Research
- Value in Health
- Frontiers in Pharmacology
- PLOS One
- Research in Social & Administrative Pharmacy
- Journal of pharmacy and bioallied sciences
- Oman Medical Journal
- Journal Of Oncology Pharmacy Practice
- Journal of Young Pharmacists
- Journal Of Clinical Pharmacy and Therapeutics
- International Journal of Clinical Pharmacy
- Saudi Pharmaceutical Journal

- British Journal of Pharmaceutical and Medical Research (BMC)
- European Journal of Hospital Pharmacy-Science and Practice
- Journal of Diabetes Research
- Journal Of Diabetes and Its Complications

Membership with Professional Bodies

- Commonwealth Pharmaceutical Association
- Pakistan Pharmacists Association, Pakistan
- Punjab Pharmacy Council, Pakistan
- The European Society for Clinical Nutrition and Metabolism (ESPEN)
- International Society for Pharmacoeconomics and Outcomes research (ISPOR)
- International Society for Pharmacoepidemiology (ISPE)
- International Society of Pharmacovigilance (ISoP)
- International Society for Infectious Diseases (ISID)

Computer Skills

Windows Microsoft office applications: Word, Excel, Online teaching, Webinar conducting, data collecting and analysis by Google and Microsoft forms, PowerPoint, Outlook, Expert in SPSS, Software “R”, Super ANOVA, Analytics, Social media, Data Visualization, Use of web browsers, search engines, Endnote use, Mendeley referencing, Software Installation and Uninstallation, Spreadsheets, scientific literature search etc.

Publications (Web of science ISI I.F 150 approximately)

1. Muhammad Shahid Iqbal, Mohd Baidi Bahari, Yusrida Darwis, **Muhammad Zahid Iqbal**, and Amer Hayat An RP-HPLC-UV Method with SPE for Cefotaxime in All-in-One Total Parenteral Nutritional Admixtures: Application to Stability Studies The Journal of AOAC International, 96, 2, 2013. <https://doi.org/10.5740/jaoacint.11-048>
2. **Iqbal, M. Z.**, Khan, A. H., Sulaiman, S. A., Iqbal, M. S., & Hussain, Z. (2014). Guideline for Adherence and Diabetes Control in Co-Morbid Conditions in a Tertiary Hospital in Malaysia. Tropical Journal of Pharmaceutical Research,13(10), 1739-1744.
3. **Muhammed Zahid Iqbal**, Amer Hayat Khan, Syed Azhar Sulaiman, Mohammad Shahid Iqbal “ Geriatric Issue; Treatment of Hypertension and Chronic Kidney Disease in Diabetes Mellitus Patient” International Journal of Surgical Research; 2(2): 5-7 ,2013
4. **Muhammad Zahid Iqbal**, Amer Hayat Khan, Syed Azhar Sulaiman, Muhammad Shahid Iqbal. Guideline’s Adherence of Doctors and Diabetic Complications of Patients at Tertiary Hospital. American Journal of Medicine and Medical Sciences 2013, 3(5): 115-120 DOI: 10.5923/j.ajmms.20130305.05
5. **Muhammad Zahid Iqbal**, Muhammad Shahid Iqbal, Dayana Nicholas, Jamaluddin Awang, Amer Hayat Khan, Syed Azhar Sulaiman. Guideline adherence and control of diabetes mellitus with or without co-morbidities in various wards of a tertiary hospital in Malaysia. International Current Pharmaceutical Journal, July 2014, 3(8): 309-312. <https://doi.org/10.3329/icpj.v3i8.19405>
6. Mandavi Kashyap, **Muhammad Zahid Iqbal**. A review of screening tools used for the assessment of appropriateness of prescription’s among elderly patients. Journal of Pharmaceutical and BioSciences. 3(2014) 72-79.
7. Xian, Poh Xin, Lee Jia Ting, Aiswarya Letchumi, Tan Chu Ping, and **Muhammad Zahid Iqbal**. "Treatment of Benign Paroxysmal Postural Vertigo in Chronic Lymphocytic Leukemia Patient." American Journal of Medicine and Medical Sciences 4, no. 5 (2014): 166-167.
8. Dayana Nicholas, **Muhammad Zahid Iqbal**, Tharmalingam Palanivelu, Kenneth Nelson, Samson P. George. Need of Pharmacist’s role in patient counseling on Insulin dependent Diabetes Mellitus Management. American Journal of Pharmacy and Health Research 2014, Volume 2, Issue 9.
9. Nicholas, Dayana, **Muhammad Zahid Iqbal**, Kenneth Nelson, Samson P. George, Azmi Sarriff, Low Huey Thing, Lee Win Win, and Chen Zhun Yik. Drug related issue and precaution: Dandy walker malformation and untreated hydrocephalus. Scholars Research Library 2014, 6 (5):211- 214 dpl-vol6.../DPL-2014-6-5-211-214.
10. Michelle Ting Lee Lee, **Muhammad Zahid Iqbal**, Muhammad Shahid Iqbal, Tan Su Ping, Michella Tan Sheau Yee, Heng Soo Teing. Vancomycin Induced Red Man Syndrome in Infant with Obstructive hydrocephalus 2 to Arnold Chain Malformation. American Journal of Pharmacy and Health Research 2014.
11. **Iqbal, M.Z.**, Iqbal, M.S., Khan, A.H., Sulaiman, S.A., Iqbal, M.W., Guideline Adherence and Control Of Diabetes Mellitus With Co-Morbidities in a Tertiary-Care Hospital in Malaysia. Value in Health 17, A353. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.744>

12. Iqbal, M.S., **Iqbal, M.Z.**, Barua, A., Veettil, S.K., Wei, L.Y., Kit, L.W., Khan, A.H., Hussain, Z., Iqbal, M.W., Pharmacoeconomic Evaluation and Burden of Illness of Acute Exacerbation of Copd in Patients in Malaysia. Value in Health 17, A594. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.2046>
13. Iqbal, M.S., **Iqbal, M.Z.**, Barua, A., Veettil, S.K., Ling, T.K., Yong, N.B., Khan, A.H., Hussain, Z., Iqbal, M.W., Pharmacoeconomic Evaluation of Acute Exacerbation of Asthma in Patients in Malaysia. Value in Health 17, A594. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.2045>
14. Iqbal, M.S., Iqbal, M.W., Bahari, M.B.B., **Iqbal, M.Z.**, The Economic Impact Of Hypertension In Health Care System Of Pakistan. Value in Health 17, A485. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.1415>
15. Iqbal, M.S., Iqbal, M.W., Bahari, M.B., Khalid, S.H., **Iqbal, M.Z.**, A Pharmacoeconomic Care Analysis of Tuberculosis Control in Pakistan. Value in Health 17, A594. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.2044>
16. Iqbal, M.S., Iqbal, M.W., Bahari, M.B., **Iqbal, M.Z.**, Health-Related Quality of Life Among Tuberculosis Patients in Pakistan: A Cross Sectional Study Using WHOQOL-BREF. Value in Health 17, A601-A602. DOI: <http://dx.doi.org/10.1016/j.jval.2014.08.2086>
17. **Muhammad Zahid Iqbal**, Amer Hayat Khan, Syed Azhar Sulaiman, Muhammad Shahid Iqbal. Guidelines adherence of doctors to treat diabetic complications of patients at a tertiary level hospital in Malaysia. 13th Asian Conference on Clinical Pharmacy, The ACCP-13, September 13-15 2013, Hai Phong City, Viet Nam.
18. Iqbal, M. S., **Iqbal, M. Z.**, Bahari, M. B., & Iqbal, M. W. (2014, October). Therapeutic Drug Monitoring in the Treatment of Tuberculosis: Minimizing the Risks of ADRs. In DRUG SAFETY (Vol. 37, No. 10, pp. 883-884). 5 The Warehouse Way, Northcote 0627, Auckland, New Zealand: Adis Int Ltd.
19. Iqbal, M. S., **Iqbal, M. Z.**, Iqbal, M. W., Nasir, S., & Bahari, M. B. (2015). PRM98-Pharmacists- Led Interventions To Improve Health-Related Quality Of Life Of Pulmonary Tuberculosis Patients In Pakistan: An Insight From A Randomized Controlled Non-Clinical Trial. Value in Health, 18(3), A27. DOI: <http://dx.doi.org/10.1016/j.jval.2015.03.164>
20. **Iqbal, M. Z.**, Khan, A. H., Sulaiman, S. A., Iqbal, M. S., & Iqbal, M. W. (2015). PDB88-Prescribing Pattern, Guideline Adherence and Diabetes Mellitus Management With Co-Morbidities: a Malaysian Hospital Perspective. Value in Health, 18(3), A68. DOI:<http://dx.doi.org/10.1016/j.jval.2015.03.395>
21. Iqbal, M. S., **Iqbal, M. Z.**, Iqbal, M. W., Bahari, M. B. Perceptions of community Pharmacists about their current professional role, inter professional learning and continue professional development in Pakistan. Value in Health, 18(3), A68. DOI:<http://dx.doi.org/10.1016/j.jval.2015.03.418>
22. **Iqbal, M. Z.**, Iqbal, M. S., Iqbal, M. W., Bahari, M. B., & Nasir, S. (2015). PRM108-Health- Related Quality Of Life Among Esrf Patients In Pakistan: A Cross-Sectional Approach Using Whoqol-Bref. Value in Health, 18(3), A29. DOI: <http://dx.doi.org/10.1016/j.jval.2015.03.174> .
23. M.S. Iqbal, M.W. Iqbal, **M.Z. Iqbal**, N. Akhtar, N.Y. Ping, M.B. Bahari. Knowledge, attitude and perceptions of Hospital Pharmacists towards pharmacists led interventions to reduce adverse Drug reactions, Drug interactions, and Pharmaceutical care issues towards better Pharmaceuticalcare planning: a qualitative insight from Pakistan. Value in Health 05/2015; 18(3):A72. DOI: <http://dx.doi.org/10.1016/j.jval.2015.03.419>

24. Iqbal, M.S., Iqbal, **M.Z.**, **Iqbal**, M.W., Bahari, M.B. and Nasir, S., 2015. Impact of Pharmacists- Led Interventions to Assess Knowledge, Attitude And Perception Among Tuberculosis Patients In Pakistan: An Insight From A Randomized Controlled Non Clinical Trial. Value in Health, 18(3), p.A175. DOI: <http://dx.doi.org/10.1016/j.jval.2015.03.1014>
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Continuing Education & Training

- Successfully completed Seminar on Effective Postgraduate Supervision on 24 July 2019 in AIMST University Kedah Malaysia.
- Successfully completed Biostatistics Series 2.0 Workshop on 01-02 April, 2019 AIMST in collaboration with Clinical Research Center (CRC), HSAH, Kedah
- Successfully completed Biostatistics Series 1.0 Workshop on 29-30, 2018 AIMST in collaboration with Clinical Research Center (CRC), HSAH, Kedah
- Successfully completed Occupational Safety and Health Course for Post Graduate Students designed and organized by Universiti Sains Malaysia, Pulau Pinang, Malaysia
- Participated in the "9th National Workshop on Basic Statistical Methods in Medical Research", organized by Department of Community medicine, University Science Malaysia, May 24-26, 2013
- Attendance of "Scientific writing" workshop, organized by Institute of Postgraduate Studies, University Science Malaysia, December 16-17, 2013.
- Workshop on constructing questions according to learning outcomes, Universiti Sains Malaysia, Pulau Pinang, Malaysia
- Workshop on constructing MCQs to test higher order cognitive skills, AIMST University Kedah Malaysia.
- Attendance of "Pharmacist Global Day", in Sultan Abdul Halim Hospital Sungai Petani Kedah Malaysia 2014.

Dr Muhammad Zahid Iqbal – curriculum vitae (CV)

- Workshop on Research in Medical Education, Universiti Sains Malaysia, Pulau Pinang, Malaysia
- Workshop on writing quality PBL triggers, International Medical University, Kuala Lumpur, Malaysia.
- Workshop on constructing questions according to learning outcomes, AIMST University Kedah Malaysia.
- Workshop on Curriculum Design and Evaluation, National University Singapore, Singapore.
- Workshop on Developing of Problem Base Learning, AIMST University Kedah Malaysia.
- Workshop on Objective Structured Clinical Examination (OSCE), AIMST University Kedah Malaysia
- Workshop on Pharmacovigilance in AIMST University Kedah Malaysia
- Completed a training program on community pharmacy for one year in a number of Community Pharmacies, Lahore, Pakistan
- Successfully completed Occupational Safety and Health Course for Post Graduate Students designed and organized by Universiti Sains Malaysia, Pinang, Malaysia
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Extra-curricular activities

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