

# Curriculum Vitae



## Personal Information

Name **Dr. Muhammad Usman**  
Job Title **Assistant Professor**  
Address Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Outfall Road, Lahore, Pakistan.  
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E-mail [usman.ips@uvas.edu.pk](mailto:usman.ips@uvas.edu.pk), [usman.ips@gmail.com](mailto:usman.ips@gmail.com)  
Nationality Pakistani  
Date of birth 20.10.1977  
Gender Male

## Ambitions

- To apply my professional knowledge and skills for the betterment of Pharmacy education and Research in Pakistan not only to fulfil the national needs but also to meet the international standards.
- To work on grey areas in precision medicine for dose optimization and safe administration of medicine through pharmacokinetic modelling.

## Achievements

- Established Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore in 2008 as member of pioneer team.
- Played a vital role as team member in the establishment of Bioequivalence Study (BeSt) Centre at University of Veterinary and Animal Sciences, Lahore in 2008.
- Established Pakistan's first ever Pharmacometrics Lab, for Population Pharmacokinetic modeling and precision medicine studies, at Institute of Pharmaceutical Sciences, UVAS, Lahore in 2017.
- HEC Approved Supervisor for PhD research.

## Education

### Dates **April 2013 to Dec 2016**

Title of qualification Doctor of Philosophy (PhD)  
Principal subjects Pharmacokinetics  
Research area Clinical Pharmacokinetics  
Institution Westfälische Wilhelms Universität Münster, Germany

### Dates **April 2006 to August 2008**

Title of qualification Master of Philosophy (M.Phil) in Pharmacology & Toxicology  
Principal subjects Pharmacology  
Institution Department of Pharmacology & Toxicology, University of Veterinary and Animal Sciences, Lahore, Pakistan

<b>Dates</b>	<b>February 2001 to December 2005</b>
Title of qualification	Bachelor of Pharmacy (B.Pharmacy)
Principal subjects	Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmacognosy,
Institution	University College of Pharmacy, University of The Punjab, Lahore, Pakistan.
<b>Dates</b>	<b>August 1997 to August 2000</b>
Title of qualification	Intermediate (FSC) Pre-Medical
Principal subjects	Physics, Chemistry, Biology
Institution	Government College Gujranwala
<b>Dates</b>	<b>1991 to 1993</b>
Title of qualification	Secondary School Certificate (Matriculation)
Principal subjects	Physics, Chemistry, Biology, Mathematics
Institution	Government High School Gujranwala
<b>Work experience</b>	
<b>Dates</b>	<b>02 March 2017 to date</b>
Occupation or position held	<b>Assistant Professor</b>
Main activities and responsibilities	Teaching and Research
Name and address of employer	Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan
Type of business or sector	Public sector University
<b>Dates</b>	<b>08 November 2008 to 01 March 2017</b>
Occupation or position held	<b>Lecturer</b>
Main activities and responsibilities	Teaching and Research
Name and address of employer	Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan
Type of business or sector	Public sector University
<b>Dates</b>	<b>02 November 2006 to 07 November 2008</b>
Position held	<b>Pharmacist</b>
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Purchase,</li> <li>• Record keeping,</li> <li>• Inventory Management,</li> <li>• Recruitment,</li> <li>• Patient counselling</li> </ul>

Name and address of employer	<b>PNP The Pharmacy</b> inside Doctor's Hospital & Medical Centre (Johar Town) / National Hospital & Medical Centre (D.H.A) Lahore.
<b>Dates</b>	<b>01 February 2006 to 02 November 2006</b>
Position held	<b>Pharmacy Manager</b>
Main activities and responsibilities	<ul style="list-style-type: none"> <li>• Purchase,</li> <li>• Record keeping,</li> <li>• Inventory management,</li> <li>• Patient counselling,</li> </ul>
Name and address of employer	<b>HIMONT Pharmacy</b> Satellite Town Gujranwala
Type of business or sector	Community Pharmacy (Private Sector)
<b>Administrative Experience</b>	<ul style="list-style-type: none"> <li>• <b>Post Graduate Coordinator</b> for M.Phil and PhD studies at Institute of Pharmaceutical Sciences, UVAS, Lahore</li> <li>• <b>Secretary</b> of Faculty Scrutiny Committee for PhD Synopses at Faculty of Bio-Sciences, UVAS, Lahore</li> <li>• <b>Secretary</b> of Synopsis Scrutiny Committee (SC-II) for M.Phil Synopses at Faculty of Bio-Sciences, UVAS, Lahore.</li> <li>• <b>Chief Organizer</b> of Bait Bazi/Poetry Competition during spring Festival (March 25th to March 31st 2011) at University of Veterinary and Animal Sciences, Lahore, Pakistan</li> <li>• <b>Member</b> of admission committee for post-graduate class at IPS/U.V.A.S for Session 2010-2011</li> <li>• <b>Secretary</b> of IPS construction committee at U.V.A.S</li> <li>• <b>Secretary</b> of UVAS-IPS Donation (UID) committee at UVAS.</li> <li>• <b>Member</b> of prospectus committee for under-graduate classes at U.V.A.S for Session 2009-2010</li> <li>• <b>Member</b> of admission committee for post-graduate class at IPS/U.V.A.S for Session 2008-2009</li> </ul>
<b>Academic &amp; Scientific Contributions</b>	<ul style="list-style-type: none"> <li>• Designed and developed the curriculum for M.Phil Pharmaceutics Which got approval from Academic Council of UVAS.</li> <li>• Developed new course of "Population pharmacokinetic modeling".</li> <li>• Associate Editor of Journal of Pharmaceutical Policy and Practice</li> <li>• Reviewer of Frontiers in Pharmacology</li> <li>• Reviewer of International Journal of Clinical Pharmacol &amp; Ther</li> </ul>

## Research Articles

- 1) Ali M, **Usman M\***, Rasheed H, Hempel G, Nawaz HA, Hanif M, Rasool F, Saleem M (2020). A systematic review on chromatography based method validation for quantification of vancomycin in biological matrices: Bioanalysis. DOI: **10.4155/bio-2020-0230**
- 2) Saleem R, Khan H.M, **Usman M\***, Khokhar M.I, Rasheed H, Abbas M, Khan R.R, Maqsood Z, Zaman M (2020). Population Pharmacokinetics of Ciprofloxacin in Pakistani Patients Suffering from Enteric Fever: International Journal of Clinical Pharmacology and Therapeutics. DOI **10.5414/CP203823**
- 3) Zaman M, Khan H.M, **Usman M\***, Khokhar M.I, Rasheed H, Khan R.R, Abbas M, Saleem R (2020). Population pharmacokinetics of meropenem among post-operative patients in Pakistan: International Journal of Clinical Pharmacology and Therapeutics (**Accepted**)
- 4) Khadka S, Hashmi F.K, **Usman M** (2020). Preventing COVID-19 in Low and Middle income countries. Drugs & Therapy Perspectives 36: 250-252\_
- 5) Nawaz HA, Masood MI, Abbas M, **Usman M**, Khan AM, Rasheed H and Riffat S. 2019. Evaluation of gender difference in pharmacokinetics of Candesartan cilexetil in the fasted state by RP-HPLC: A single dose comparative study. Pak J Pharm Sci. 32(3): 1019-1024.
- 6) Rasheed, H., **M. Usman**, W. Ahmad, M.H. Bacha, A. Zafar and S.K.Bukhari (2019). "A shift from logistic software to service model: A case study of new service -driven-software for management of emergency supplies during disasters and emergency conditions by WHO". Frontiers Pharmacology 10(473)
- 7) Bilal, R., **M. Usman**, AM Khan, W. Latif, N.A. Ahmad and S. Riffat (2018). "Development and validation of a chromatographic method for quantification of rasagiline in human plasma". Trop J Pharm Res **17**(11): 2243-2248.
- 8) Safdar, Z., **M. Usman**, S.S.H. Sherazi, D. Shahwar and H. Rasheed (2018). "In Vitro Interaction Study of Diclofenac Sodium and Acetaminophen with Herbal Agents" Lat Am J Phar 37(10): 1993-1996
- 9) **Usman, M.**, M. Fobker and G. Hempel (2018). "Investigation of the age dependency of vancomycin clearance by population pharmacokinetic modeling." Int J Clin Pharmacol Ther **56**(2): 56-63
- 10) **Usman, M.**, O. R. Frey and G. Hempel (2017). "Population pharmacokinetics of meropenem in elderly patients: dosing simulations based on renal function." Eur J Clin Pharmacol **73**(3): 333-342.
- 11) **Usman, M.** and G. Hempel (2016). "Development and validation of an HPLC method for the determination of vancomycin in human plasma and its comparison with an immunoassay (PETINIA)." Springerplus **5**: 124.
- 12) Abbas, M., A. M. Khan, S. Riffat, M. Y. Tipu, H. A. Nawaz and **M. Usman** (2014). "Assessment of sex differences in Pharmacokinetics of carvedilol in human." Pak J Pharm Sci **27**(5): 1265-1269
- 13) **Usman M**, Ashraf M, Khokhar MI, Ashiq B, Masood MI, Afzal S, Omer O, Ali M and Qadir MI. 2013. Comparative pharmacokinetics of levofloxacin in healthy volunteers and in patients suffering from typhoid Fever. Iran J Pharm Res. 12(1): 147-154.
- 14) Ashiq, B., **M. Usman**, M. Ashraf, O. Omer, M. I. Khokhar and S. Saeed-ul-Hassan (2011). "Comparative pharmacokinetics of metronidazole in healthy volunteers and in patients suffering from Amoebiasis." Pak J Pharm **24**(1&2): 41-46.

## Book Chapters

- **Usman M**, Rasheed H, "Pharmacometrics and its application in clinical practice" Encyclopaedia of Pharmacy Practice and Clinical Pharmacy, Babar, Z-U-D (2019). Ed.1st Vol 3B: 227-238. ISBN: 9780128127353.
- **Usman M**, Rasheed H, Clinical pharmacokinetics and therapeutic drug monitoring, Encyclopaedia of Pharmacy Practice and Clinical Pharmacy, Babar, Z-U-D (2019). Ed.1st Vol 3A:8-19. ISBN: 9780128127353 Ed.1st Vol 3:8-19
- Rasheed H, Nawaz MA, **Usman M**, Anjum SM, Epilepsy-role of pharmacist in management and control, Encyclopaedia of Pharmacy Practice and Clinical Pharmacy, Babar, Z-U-D (2019). Ed.1st Vol 3A:598-618, ISBN: 9780128127353

## Oral Presentations

- **Usman, M.** and G. Hempel (2017). " Population Pharmacokinetics for Investigation of the age dependency of vancomycin clearance. Oral presentation at 1<sup>st</sup> Asian Pharmacometrics Conference (APC) held in Kyoto, Japan 26<sup>th</sup> to 27<sup>th</sup> October 2017.
- **Usman, M.** and G. Hempel (2017). " Investigation of the age dependency of vancomycin clearance by population pharmacokinetic modeling. Oral presentation at 1<sup>st</sup> International Conference on Recent Advances in Clinical Research (RACR) held in department of Physiology, University of Veterinary and Animal Sciences, Lahore, Pakistan. 19<sup>th</sup> to 20<sup>th</sup> December 2017.
- **Usman, M.** and G. Hempel (2018). "Population pharmacokinetics of meropenem in elderly patients: dosing simulations based on renal function. Oral Presentation in 2nd International Conference of Shalamar Medical & Dental College Lahore held on 03-04 February 2018 at Shalamar Medical & Dental College.
- **Usman, M.** (2018). "Population pharmacokinetics and dosing simulations of meropenem based on Creatinin Clearance of Patients. Oral presentation at 1<sup>st</sup> GRIP's International Conference of Pharmaceutical and Biomedical Sciences, held in Expo Centre Lahore. 22<sup>nd</sup> and 23<sup>rd</sup> and 24<sup>th</sup> January 2018.
- **Usman, M.** (2018). "Population pharmacokinetics of meropenem in different disease conditions. Oral presentation at 1<sup>st</sup> National Conference in Recent Advancements in Pharmaceutical Sciences held at University of Sargodha, Pakistan. 7<sup>th</sup> and 8<sup>th</sup> March 2018.

## Poster Presentations

- **Usman, M.** and G. Hempel (2016). "Population pharmacokinetics of meropenem in elderly patients: dosing simulations based on renal function. Poster presentation at 25<sup>th</sup> annual meeting of Population Approach Group of Europe (PAGE) held in Lisbon, Portugal 7<sup>th</sup> to 10<sup>th</sup> June 2016.
- **Usman, M.** and G. Hempel (2016). " Development and validation of an HPLC method for the determination of vancomycin in human plasma and its comparison with PETINIA. Poster presentation at annual meeting of German Pharmaceutical Society – DPhG held at Goethe University Frankfurt Germany from 24<sup>th</sup> to 26<sup>th</sup> September 2014.
- Mamoona Tariq, Sualeha Riffat and **Muhamamd Usman** (2017). "Method validation and Pharmacokinetics of carvedilol in healthy volunteers". Poster presentation at a three days international conference on "Current research in Chemical and Pharmaceutical Sciences " held at FC college Lahore from 18<sup>th</sup> to 20<sup>th</sup> January 2017.

**Conferences & Workshops**

- A Workshop on introduction to Population Pharmacokinetics with Non-Linear Mixed Effect Modelling (NONMEM®) on 28<sup>th</sup> October 2019 during International Pharmacy Conference and Exhibition (IPCE) 2019.
- Two days Workshop on “**Patent Drafting**” organized by Office of Research, Innovation and Commercialization (ORIC) and sponsored by the In Service Training of Veterinary Faculty for Professional Development (IVPD) Project. held on the 18<sup>th</sup>-19<sup>th</sup> June, 2019 at Conference Hall, UVAS, Lahore.
- Organized 1<sup>st</sup> National Workshop on Sterile compounding and Aseptic Techniques: A special Focus on Handling of Hazardous Medication” on 2<sup>nd</sup> January 2019 at Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore.
- 1<sup>st</sup> Asian Pharmacometrics Conference (APC) held in Kyoto, Japan 26<sup>th</sup> to 27<sup>th</sup> October 2017.
- 25<sup>th</sup> annual meeting of Population Approach Group of Europe (PAGE) held in Lisbon, Portugal 7<sup>th</sup> to 10<sup>th</sup> June 2016.
- Annual meeting of German Pharmaceutical Society – DPhG held at Goethe University Frankfurt Germany from 24<sup>th</sup> to 26<sup>th</sup> September 2014.
- Organized 35<sup>th</sup> EORTC-PAMM Winter Meeting, Münster, Germany 12-15 February 2014, as a member of local organizing committee of Clinical Pharmacy working group.

**Research Projects**

Title	Funding agency	Amount	Status
Population Pharmacokinetics of Vancomycin in Pakistani Patients.	Higher Education Commission of Pakistan under Start Up Research Grant (SRGP) Program	PKR 0.5 Million	Completed
Population Pharmacokinetics of Antibiotics in Pakistani Patients.	Higher Education Commission of Pakistan Under National Research Program for Universities (NRPU)	PKR 1.983 Million	On Going

**Languages**

Mother tongue(s)

**Punjabi, Urdu**

Other language(s)

**English, German (A2 Level)**

**Extracurricular Activities**

- Writer of articles and poems in annual PharmaMag of Punjab University College of Pharmacy (2005).
- Winner of Rifle shooting competition held at UVAS on 14<sup>th</sup> August 2018
- Runner up of Archery competition held at UVAS on 14<sup>th</sup> August 2018