

Dr Tariq Saeed

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Personal data:

Date of Birth: 16-07-1971
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Selected Experience and interests:

Teaching undergraduates in the subjects of physical pharmaceutics, formulation development, pharmaceutical technology, modified drug release, novel drug delivery, and Biopharmaceutics

Industrial pharmacy experience includes production planning, administration, product development, regulatory affairs management, budgeting, management co-ordinator.

Experience was also obtained in rheological characteristics, capsule filling properties and dispersion stability of gels filling characteristics, high shear rheology, low shear rheology using an oscillation technique.

Education

Ph.D. – Pharmaceutical Technology from University of Sunderland, Sunderland. UK in 1996-2000. Thesis entitled Rheological characterisation of poloxamer/silicon dioxide gels for liquid filled hard gelatin capsules.

B.Pharm - Bachelor in Pharmacy from University of Punjab, Lahore, Pakistan in 1989-1994

Research Experience

In the research which I have carried out, rheological characteristics, capsule filling properties and dispersion stability of gels with and without particulate disperse phase have been investigated. A series of hydrophilic poloxamers were selected on the basis of viscosity and composition of polyoxyethylene and polyoxypropylene in the copolymer. Hydrophilic and hydrophobic silicon dioxide were used as thickeners to form a gel structure with the poloxamer and spray dried lactose was selected as a model particulate disperse phase with negligible solubility in the poloxamer gels. Poloxamer gels were filled into hard gelatin capsules using a semi-automatic machine and the results showed the effect of poloxamer viscosity, type and concentration of silicon dioxide on the filling characteristics. Detailed high shear rheology was undertaken on the poloxamer / silicon dioxide gels for increasing and decreasing shear rate. Low shear rheology was used to further investigate the viscoelastic behaviour of these gels, using an oscillation technique. The capsule filler was instrumented with pressure and displacement transducers in order to provide quantitative information of the capsule filling process and machine limitations. Preliminary investigations showed the reproducibility of the data for poloxamers and poloxamer gels, and the limitation of the capsule filling machine, for materials with high apparent viscosity. In addition, the instrumentation has demonstrated potential for showing differences in pressure, displacement and time relationships for different gel formulations.

Publications

Talib Hussain, **Tariq Saeed**, Ahmed Mahmood Mumtaz, Muhammad Jamshaid, Muhammad Naeem Aamir, Khizar Abbas, Azeema Talib. "Development of Gliclazide Matrix Tablets from Pure and Blended Mixture of Glyceryl Monostearate and Stearic Acid." Latin American Journal of Pharmacy. (2011) **(IF. 0.308)** **Accepted**

Naveed Akhtar, Jihad Hisham, Haji M. Shoaib Khan, Barkat Ali Khan, Tariq Mahmood and **Tariq Saeed**. "Whitening and Anti erythemic effect of cream containing Mulberry extract." Hygeia.J.D.Med.Vol. 3(1), 2011, 89-94

Haji M Shoaib Khan, Naveed Akhtar, Fatima Rasool, Asadullllah Madni, **Tariq Saeed**, Barkat A Khan and Tariq Mahmood. "Investigation of a new sebum control cream containing apple juice extract." Asian J Chem., Volume 23, No 2, (2011), 810-812 (**IF. 0.293**)

Naveed Akhtar, Barkat Ali Khan, Tariq Mahmood, Haji M Shoaib Khan, Mahmood Ahmad and **Tariq Saeed**. "Effect of anti-oxidant and flavonoids of sea buckthorn on skin whitening and skin erythema." Asian J Chem., Volume 23, No 2, (2011): 903-906 (**IF. 0.293**)

Muhammad Akram, H.M.Asif, Khan Usman Ghani, Naveed Akhtar, Qaiser Jabeen, Asadullah Madni, **Tariq Saeed**, Riazur Rehman, Khalil Ahmed and S.M. Ali Shah. "Obesity and the risk of hyperuricemia in Gadap Town, Karachi." African Journal of Biotechnology, Volume 10 (6), 2011, 996-998 (**IF. 0.565**)

Barkat Ali Khan, Naveed Akhtar, Arshad Mehmood, Mahmood Ahmad, **Tariq Saeed**. "Exploring cucumber extract for skin rejuvenation." African Journal of Biotechnology, Volume 10 (7), (2011), 1206-1216 (**IF. 0.565**)

N Akhtar, MU Rehman, HMS Khan, F Rasool, **T Saeed** and G Murtaza. "Penetration Enhancing Effect of Polysorbate 20 and 80 on the *In Vitro* Percutaneous Absorption of LAscorbic Acid." Tropical Journal of Pharmaceutical Research June 2011; 10 (3): 281-288 (**IF. 0.338**)

Riaz ur Rehman, M. Akram, Naveed Akhtar, Qaiser Jabeen, **Tariq Saeed**, S. M. Ali Shah, Khalil Ahmed, Ghazala Shaheen and H. M. Asif. "Zingiber Officinale Roscoe (pharmacological activity)." Journal of Medicinal Plants Research, Vol. 5(3), 344-348, 4 February, 2011

Naveed Akhtar, Barkat Ali Khan, Abdul Majid, Haji M Shoaib Khan, Tariq Mahmood, Gulfishan and **Tariq Saeed**. "Pharmaceutical and Biopharmaceutical Evaluation Of Extracts From Different Plant Parts Of Indigenous Origin For Their Hypoglycemic Responses In Rabbits." Acta Poloniae Pharmaceutica and Drug Research. (2011) (IF. 0.347) **Accepted**

Naveed Akhtar, Barkat Ali Khan, Tariq Mahmood, Haji Muhammad Shoaib Khan, **Tariq Saeed** and Shaiq-uz-Zaman. "In vivo study of stratum corneum water content and transepidermal water loss using newly formulated topical cream of Hippophae Rhamnoids fruit extract." African Journal of Traditional, Complimentary and Alternative Medicine. (2011) (IF. 0.317) **Accepted**

S Bashir, **T Saeed**, A Raza, M Anwar and Alamgeer. "Design and development of sustained release naproxen sodium tablets." Pakistan Journal of Science, (2011) **Accepted**

H.M. Asif, Khan Usmanghni, Muhammad Akram, Naveed Akhtar, Qaiser Jabeen, S.M. Ali Shah, Riaz ur Rehman, Khalil Ahmed, **Tariq Saeed**. "Herbal treatment of secretory diarrhea." International Journal of Phytomedicine, 2010; 2 (4); 425-429 (ICV. 4.16)

Naveed Akhtar, Haji Muhammad Shoaib Khan, Gulfishan, Fatima Rasool, Mehmood Ahmad, **Tariq Saeed**. "Formulation and *in-vitro* evaluation of a cosmetic emulsion containing apple juice extract." Asian J Chem, Volume 22, No 9, (2010), 7235-7242 (IF. 0.293)

N Akhtar, MK Waqas, M Ahmed, **T Saeed**, G Murtaza, A Rasool, MN Aamir, SA Khan, NS Bhatti, A Ali. "Effects of cream formulation of Fenugreek Seeds Extract on some mechanical parameters of human skin." Trop J Pharm Res, August 2010; 9 (4): 329-337 (IF. 0.338)

Tariq Mahmood, Naveed Akhtar, Barkat Ali Khan, Haji M Shoaib Khan, **Tariq Saeed**. "Outcomes of 3% green tea emulsion on skin sebum production in male

volunteers.” Bosnian journal of basic medical sciences 2010; 10 (3): 261-264. **(IF. 0.25)**

Naveed Akhtar, Nosheen Zulfiqar, Gulfishan, Mahmood Ahmed, Haji M. Shoaib Khan, **Tariq Saeed**. “Effect of L-Ascorbic acid on the Formulation and Characterization of a Multiple Emulsion from Paraffin Oil.” J Chem Soc Pakistan, Volume 32, No 6, (2010): 724-730 **(IF. 0.19)**

Naveed Akhtar, Said Muhammad, Haji M Shoaib khan, Mahmood Ahmad and **Tariq Saeed**. “Natural Phenolic cream of Terminalia Chebula for Depigmentation.” IPSMPS (2010), 38, Izmir, Turkey.

Haji M.Shoaib Khan, Naveed Akhtar, Shaiq-uz-Zaman, Mahmood Ahmad, Fatima Rasool, Barkat Ali Khan, and **Tariq Saeed**. “Calendula officinalis extract cream: effect on skin pigment Melanin.” IPSMPS (2010), 39, Izmir, Turkey.

T. Saeed, G. Rowley, B. Williams, V. Stylianopoulos, J. Stylianopoulos, W. Bowtle. “Instrumentation of a capsule filling machine for liquid-fill hard gelatin capsules.” Proc. Pharm. Tech, Conf., 1999, 18, (1), 85-96

T. Saeed, G. Rowley, P.A. Walters, W. Bowtle. “The effect of disperse phase particle size and continuous phase viscosity on the filling and stability properties of thixotropic gels for hard gelatin capsules.” Proc. Pharm. Tech. Conf., 1998, 17, (1), 98-106.

T. Saeed, G. Rowley, P.A. Walters. “Rheological characteristics of poloxamers and poloxamer/silicon dioxide gels in relation to liquid filling of hard gelatin capsules.” Proc. Pharm. Tech. Conf., 1997, 16, (2), 217-224

Research Supervision

MPhil (Completed)

Shahid Rasheed: Development and evaluation of stable double layer dosage form of incompatible drugs: Asprin and Clopidogrel.

Imran Tariq: Invitro release of Diclofenac Potassium tablets from pure and blended mixtures of hydrophilic and hydrophobic polymers.

Talib Hussain: Development of Gliclazide matrix tablets from pure and blended mixture of Glyceryl Monostearate and Stearic Acid.

MPhil (Ongoing)

Zia Khan: Development, characterization and drug release from mesoporous silica particles.

Farooq Saleem: Effect of different surfactants on characteristics of mesoporous silica particles and subsequent drug release.

Shabnum Hamid: Validation of community pharmacy: Basics to explore.

Ahmad Junaid Rashid: Modified release dosage form development of paracetamol.

Shumaila Faraz: Development and validation of simultaneous HPLC analytical method of tablet containing pseudoephedrine and fexofenadine.

Imtiaz Ahmad: Double layer tablet technology development of bisoprolol and hydrochlorthiazide.

Muhammad Azeem: Development of SOPs based upon problems faced by outdoor patients in three different hospitals.

Haleema Siddique: Development of a new analytical method of Milrinone injection.

PhD. (Ongoing)

Misbah Sultana: Rheological and release characteristics of drugs of different aqueous solubilities from semi solid matrix filled in hard gelatin capsules

Muhammad Arif: Rheology and release characteristics of various drugs with different aqueous solubilities from thermosoftened system for filling into hard gelatin capsules.

Najam ul Hassan Jawa: Synthesis, characterization and applications of silica based microstructures in drug delivery.

Podium Presentations

16th Pharmaceutical Technology Conference, 15-17, April, 1997, Athens, Greece.

17th Pharmaceutical Technology Conference, 1998, Dublin, Ireland.

18th Pharmaceutical Technology Conference, 1999, Uteracht, Netherlands.

New Pharm meeting at University of Birmingham in 1997

New Pharm meeting at University of Portsmouth in 1998

Continuous education and Short Courses

- Attended and Organized 16th International IPCE Conference, April 2011
- Seminar and Workshop on Environmental Toxicology and Health, March 2011
- 1st National Seminar on Use of Animal in Science – Ethical & Practical Considerations, January 2011
- 3rd International Conference on Assessing Quality in Higher Education (ICAQHE), December 2010
- Workshop on Research Management, November 2010
- Academic IELTS examination with score band of 7.5 (2010)
- Seminar on Angiogenesis in Cancer, June 2010
- Seminar on Electronic Common Technical Documents (eCTD), March 2010

- 1st International Conference on Jinnah Hospital Pharmacy Practices, February 2010
- Seminar on Handling of Cytotoxic Drugs, December 2008
- National Seminar on Impact of WTO on the Pharmaceutical Trading, April 2007
- Workshop on LAL Test Lahore, Pakistan. March 2003
- National Seminar on Good Manufacturing, Good Storage, Good Laboratory Practices Lahore, Pakistan in December 2002
- Process Rheology at University of Strathclyde Glasgow, UK. In November, 1996
- General Training IELTS examination with score band of 7.5 (2007)
- TOEFL (Test of English as a Foreign Language).
- English course for overseas postgraduate students at the University of Sunderland.
- Open learning PEQA module, Rheology. University of Sunderland
- Attended school of Health Sciences internal seminars.
- Attended introduction to teaching, learning and assessment in HE at the University of Sunderland.
- Attendance at University courses for postgraduate research students e.g. Formulation, Rheology.
- Excellent skills in computer software e.g. Windows, Word, Excel, Powerpoint, Internet, SPSS.

Professional Experience

Teaching and Assessment Experience

Assistant Professor Pharmaceutics (Full time); January 2008 to date

University College of Pharmacy, University of the Punjab, Lahore. Pakistan

In January 2008 appointed as Assistant Professor in Pharmaceutics where teaching undergraduates in the following areas.

- Physical Pharmaceutics

- Formulation Development
- Pharmaceutical Technology
- Modified Drug Release
- Novel Drug Delivery
- Biopharmaceutics

Lecturer, Pharmaceutics (Visiting faculty); September, 2004 to December 2007

University College of Pharmacy, University of the Punjab, Lahore, Pakistan

Prior to my appointment as Assistant Professor Pharmaceutics was involved in teaching undergraduates at the University College of Pharmacy, Punjab University, Lahore as visiting faculty teaching following topics.

- Formulation Development
- Pharmaceutical Technology
- Modified Drug Release
- Novel Drug Delivery

Demonstrator, Pharmaceutics; March 1996 to November 1999

School of Health Sciences, University of Sunderland, Sunderland, UK

Was involved with teaching undergraduates and also assessing their work in the following topics

- Physical Pharmaceutics
- Pharmaceutical Technology
- Formulation Development
- Drug Delivery

Industrial Experience

Plant Manager

February 2000 - December 2007, **Lahore Pharma**, Lahore, Pakistan

- Production planning & administration
- Product development
- Regulatory affairs
- Budgeting
- Management co-ordinator

After finishing my Ph.D. from the University of Sunderland joined the same company as plant manager. This is a managerial job which involves leading motivated professionals into new product development and also planning production schedules within the budgets provided by the company. I am also the company representative to the pharmaceutical regulatory authority and other government departments. This involves representing the company during inspections conducted by the government personal in applying cGMP standards within the pharmaceutical industry.

Production Pharmacist

April 1994 - November 1995, **Lahore Pharma**, Lahore, Pakistan

- Product development
- Production planning

The company had more than 60 highly motivated staff and specialises in antiseptic/disinfectants with more than 40 products on their list. At this time I was involved in the production planning. This involved accomplishing production deadlines under cGMP conditions according to the monthly production schedule. This also included the registration of new products and their development before launching into the market.

Memberships

Member Board of Studies, Department of Pharmacy, Lahore College for Women University, Lahore.

Technical Advisor, Punjab Public Service Commission for the selection of Hospital Pharmacist and Drug Inspectors in Ministry of Health.

Member Drug Court Gujranwala (Technical), Government of the Punjab.

Member Punjab Pharmacy Council.

Member Pakistan Pharmacist Association.

Member Pakistan Pharmaceutical Manufacturer Association.

References

Available upon request