

## **Mutasim Al-Ghazawi, Ph.D.**

**Associate professor of pharmacokinetics and statistics,  
Department of Biopharmaceutics and Clinical Pharmacy**

**Faculty of Pharmacy**

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### **EDUCATION**

#### **Doctor of Philosophy, August, 1998**

Oregon State University, Corvallis, Oregon

Major: Pharmacokinetics

Minor: Statistics

Advisors: John Mark Christensen, Ph.D. and Fred Ramsey, Ph.D.

#### **Bachelor of Science, June, 1993**

The University of Jordan, Amman, Jordan

Major: Pharmacy

### **PERTINENT SKILLS**

#### **Languages:**

English and Arabic : Fluent

#### **Computer Skills:**

-UJCDL

-Proficient in the use of pharmacokinetics and statistics softwares including WinNonlin, WinNonmix, RSTRIP, PCDCON, PROSTAT, PSI-PLOT and SAS.

### **EXPERIENCE**

#### **1) Research**

- 1) Method development and validation for evaluation of pharmacokinetics of drugs in Jordanians. This area includes the following drugs: Sildenafil, Citalopram, Theophylline, Doxazocin, Candisartan.
- 2) Pharmacokinetic interactions including: Effect of Pumelo juice on pharmacokinetics of Sildenafil in adult males, Effect of licorice on pharmacokinetics of ciprofloxacin, effect of cabbage on pharmacokinetics of ciprofloxacin.

- 3) Therapeutic drug monitoring for some of the antiepileptic agents and antibiotics using the blood spot analysis technique (current).
- 4) Application of statistics in pharmaceutical fields including the use of Multiple Linear Regression in predicting formation and stability of microemulsions and Development of *in-vivo in-vitro* correlations (current).

## **2) Administration**

**Head of Clinical Pharmacy and Therapeutics Department (since 9/2007-9/2008) Faculty of Pharmacy, University of Applied Science**

**Head of Biopharmaceutics and Clinical Pharmacy Department (9/1999-9/2007) Faculty of Pharmacy, University of Jordan**

## **3) Teaching**

**1993-1995** : Teaching Assistant, Faculty of Pharmacy, University of Jordan.

**1998-2006** : Assistant professor of biopharmaceutics, pharmacokinetics, and statistics, Faculty of Pharmacy, University of Jordan.

**2006-Present:** Associate professor of biopharmaceutics, pharmacokinetics, and statistics, Faculty of Pharmacy, University of Jordan.

### **Teaching the following courses**

#### **Graduate level**

Advanced pharmacokinetics  
Clinical pharmacokinetics  
Research Methods and Pharmaceutical Statistics

#### **Undergraduate level**

Clinical Pharmacokinetics-Theory  
Clinical Pharmacokinetics-Practical  
Biopharmaceutics  
Biostatistics  
Pharmaceutical Statistics  
Parapharmaceuticals

### **Supervision**

Supervision of the Following Master Projects

- 1) MSc thesis; entitled: "Therapeutic drug monitoring and population pharmacokinetic modeling of lamotrigine in epileptic Jordanian patients" "2009."
- 2) MSc thesis; entitled: "In-Vitro and In-Vivo evaluation of glycerbehenate matrix tablets for oral controlled release of theophylline monohydrate" "2009"



- 3) MSc thesis; entitled "In-Vitro and In-Vivo evaluation of methocel tablets for oral controlled release of diltiazem hydrochloride" "2009"
- 4) MSc thesis "Population pharmacokinetics of repaglanide" "2008"
- 5) MSc thesis; entitled: "Bioequivalence Evaluation of A Generic Product of Doxazosin Compared To The Reference Product Cardura<sup>®</sup> 2006."
- 6) MSc thesis; entitled: "Pharmacokinetics of Candisartan in healthy adult male Arab volunteers. 2006."
- 7) MSc thesis; entitled: "Effect of cabbage on pharmacokinetic of ciprofloxacin in rabbits". 2004
- 8) MSc thesis; entitled "Analytical Method Development And Validation For The Evaluation of The Degradation of The Experimental Compound (Exp152) Developed As Potential Neuromuscular Blocker In Fresh Plasma"2004
- 9) MSc thesis; entitled" Pharmaceutical Formula Design and Pharmacokinetic Evaluation of Single Daily Dosage Form of Pseudoephedrine and Cetirizine Using an Animal Model.2004
- 10) MSc thesis; entitled "Formulation and Evaluation of a Taste-Masked Cefuroxime Axetil Dry Suspension for Oral Administration". 2002

#### **4) Scientific Consultations**

**Pharmaquestjo: Technical consultant**

**Pharmaceutical Research Unit (PRU): Pharmacokinetics Consultant**

Responsible for Design and Pharmacokinetic and statistical analysis of bioavailability and bioequivalence studies (participated in more than 300 studies)

#### **5) Graduate Research Assistant (9/95-6/98)**

**Department of pharmaceutics, Oregon State University**

#### **6) Other Academic and Scientific Activities**

##### **1) Awards:**

1) The winner of the first ever **FULBRIGHT** professional development grant, 2002.

2) **FULBRIGHT** scholarship for graduate studies 1995-1997.

## 2) Committees/ Societies:

- Member of the Jordan Pharmaceutical Association since 1993.
- Member of the American Association of Pharmaceutical Scientists, 1995-1998
- Member of the Clinical Trials Committee (JFDA) 2008-Now
- Member of the technical committee for registration of generic drug products. Jordan Food and Drug Administration (JFDA). 2002-2005
- Member of the technical committee for registration of new drug products, JFDA. 2002-2008
- Member of the technical committee for registration of vitamins and minerals. Ministry of health-Jordan. 1999-2002
- Occasional reviewer for Acta Chromatographica.
- Occasional reviewer for Pharmaceutical Journals published in Jordan and Syria and Palestinian authority.

## 3) Presentations during Conferences/ workshops:

1) **Mutasim Al-Ghazawi.** Effect of pumelo juice and grapefruit juice on pharmacokinetics of sildenafil in healthy adult male Arab volunteers. The 9<sup>th</sup> International Pharmaceutical Sciences Conference and Exposition and the 9<sup>th</sup> General Assembly Meeting of the Scientific Society of Colleges of Pharmacy of the Association of Arab Universities in the Arab World, Abstract and **lecture**, 17-21/12/2005, Riyadh- **Saudi Arabia.**

2) **Mutasim Al-Ghazawi.** Clinical Pharmacokinetics. **Oral presentation** at the first scientific day on psychiatry. Le Royal (2002) Amman-Jordan.

3) **Mutasim Al-Ghazawi.** Clinical Pharmacy at the University of Jordan. **Oral presentation** at the Arab Pharmaceutical Association meeting (2001) **Algeria.**

4) **Mutasim Al-Ghazawi** and J. Mark Christensen. "Evaluation of bioavailability of nonlinear pharmacokinetic drugs", **poster** presented at college of pharmacy retreat, Oregon State University, Newport, Oregon, USA, April, 1996.

5) **Mutasim Al-Ghazawi,** J. Mark Christensen., Bradford Smiths and N. Hollingshead "Pharmacokinetics of Chloramphenicol, Chloramphenicol Succinate, and Florphenicol in Llamas", **poster** presented at college of pharmacy retreat, Oregon State University, Newport, Oregon, USA. April, **1997.**



6) **Mutasim Al-Ghazawi**, J. Mark Christensen., Bradford Smiths and N. Hollingshead " Pharamcokinetics of Oxytetracycline in llamas after Single Intravenous Injection and Intramuscular Injection of a Conventional and Long-acting Product", **poster** presented at college of pharmacy retreat, Oregon State University, Newport, Oregon, **USA**. April, 1998.

7) Tutunji, M.F, **Al-Ghazawi,M.**, Muosli, R., And Hijaz, A.  
Simple, Specific and Accurate High Performance Liquid Chromatographic Method for the Determination of Atenolol in Human Plasma. **Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

8) Tutunji, M. F., **Al-Ghazawi M.**, Jarrar, O., Keilani Y., Al-masri, R., Al-khateeb, M. and Mo'uti, H.  
Bioequivalence Evaluation of Carbamazipine 200-mg Tablets (carbatol and Tegratol) in Healthy Volunteers  
**Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

9) Tutunji, M., **Al-Ghazawi M.**, Muosli, R., Ibramim, H Najjar, A. and Ammari, R  
A Multilinear Gradient High Performance Liquid Chromatographic Assay for the Determination Ciprofloxacin in Human Plasma.  
**Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

10) Tutunji, M. F., **Al-Ghazawi, M.**, Jarrar , O., Al-maythalony , B., Keilan,Y., Qassema, L., Albadri, M. S., Dwaikat , M., Wanneh , D., Hussainy, T. and Al-Khateeb, M.  
Bioequivalence Evaluation of Two Brands of Domperidone 10mg Tablets (Peridone<sup>®</sup> and Motilium<sup>®</sup>) in Healthy Human Volunteers.  
**Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

11) Tutunji, M., **Al-Ghazawi, M.**, Quassem, L., Muosli, R., and Haddad, A.,  
Simple Sensitive and Specific High Performance Liquid Chromatographic Method for the Determination of Meloxicam in Human Plasma.

**Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

12) **Al-Ghazawi M.**, Tutunji, M., Azzam, R., and al-Nassan, A.  
Bioequivalence Assessment of Two Brands of Theophylline;  
Avolen<sup>®</sup> T/SR Tablets and Qibron<sup>®</sup> T/SR Under Fasting and Limited Food Effect.

**Poser** presented at The 5<sup>th</sup> Scientific Congress of the Association of the colleges of pharmacy in the Arab World and the 2<sup>nd</sup> International Conference of the Faculty of pharmacy, 2001. Amman, Jordan

### **PUBLICATIONS:**

- 1) **Mutasim A. Al-Ghazawi**, Salah M. AbuRuz, Determination of Ciprofloxacin in dried blood spots for therapeutic drug monitoring. **Chromatographia**, 2010, 71, 999-1005.
- 2) Salah M. AbuRuz, **Mutasim A. Al-Ghazawi**, Yusuf Al-Hiari, A simple dried blood spot assay for therapeutic drug monitoring of Lamotrigine. **Chromatographia**, 2010, 71, 1093-1099.
- 3) **Mutasim A. Al-Ghazawi**, Maha S. Tutunji, Salah M. Aburuz, The effects of Pummelo juice on the pharmacokinetics of sildenafil in healthy adult male Jordanian volunteers, **European Journal of Clinical Pharmacology**(2010) 66: 159-163.
- 4) B. Alkhalidi, **M. Al-Ghazawi**, H. Alkhatib, S. Sallam, Development of a predictive in Vitro dissolution for clarithromycin granular suspension based on in vitro in vivo correlation, **Pharmaceutical Development and Technology**, (2010), 15(3); 286-295
- 5) S. Aburuz, N. Boulatova, M. Tawalbeh, **M. Gazawi**, The validity and reliability of the Arabic version of the EQ-5D: a study from Jordan. **Annals of Saudi Medicine**, (2009), 24(4); 304-308
- 6) A. Baniata, K. manse, T. Aburji, S. Adeeb, **M gazzawi**, Biochemical factors relevant to kidney functions among Jordanian top athletes. **Scientific Research and Essay**,(2009) 4(5); 426-431
- 7) **M. Al-Ghazawi**, M. Tutunji, M. Mohsen, S. Najjar, Pharmacokinetic Comparison of Two 40 mg Tablet Formulations of Citalopram using a new amperometric detection technique. **International Journal of Clinical Pharmacology and Therapeutics**. Vol 45-No.5/2007 (300-306).
- 8) **M. Al-Ghazawi**, M. Tutunji, S. AbuRuz, Simultaneous Determination of sildenafil and N-Desmethyl sildenafil in human plasma by high-performance liquid chromatography method using electrochemical detection with application to a pharmacokinetic study. **Journal of Pharmaceutical and Biomedical Analysis**. 43 (2), 2007, Pages 613-618



9) Mutasem O. Taha , Heba Abdel-Halim, **Mutasim Al-Ghazawi**, Enam Khalil. QSPR modeling of pseudoternary microemulsions formulated employing lecithin surfactants: Application of data mining, molecular and statistical modeling. **International Journal of Pharmaceutics**, 259: 135-155, **2005**.

10) Ahmad Bani-Jaber and **Mutasim Al-Ghazawi**, Sustained release characteristics of tablets prepared with mixed matrix of sodium carrageenan and chitosan: effect of polymer weight ratio, dissolution medium, and drug type. **Drug Development and Industrial Pharmacy**, 31: 241-247, **2005**

11) Mutasem O. Taha , **Mutasim Al-Ghazawi** , Hend Abu-Amara , Enam Khalil. Development of quantitative structure–property relationship models for pseudoternary microemulsions formulated with nonionic surfactants and cosurfactants: application of data mining and molecular modeling. **European Journal of Pharmaceutical Sciences** 15: 461–478 **2002**.

12) **M. AL-GHAZAWI**, S. A. S. MAJALI. Comparative Bioavailability of Two Test Brands of Theophylline; Tablets and A Reference Qibron®-T/Sr Under Fasting and Limited Food Conditions. **Medical Journal of Islamic Academy of Sciences** 13:3, 109-114, **2000**

13) Anabousi, S.; Shervington, A.; **Al-Ghazawi, M.**. The influence of different media and hormones on the lethal concentration of gentamycin and ampicillin in tea plant tissue culture  
**Acta Technol. Legis Med.** 11(3), 173-178. **2000**