

Curriculum Vitae

Dr. Heba Mohamed Elbedaiwy

Lecturer of Pharmaceutics

Faculty of Pharmacy – Damanhour University

Personal:

Name : Heba Mohamed ElBedaiwy
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Date of Birth : August 5th 1977
Place of Birth : Tanta, Egypt
Religion : Muslim
Nationality : Egyptian
Marital Status : Married

Qualification degrees:

- **B.Sc.** in pharmaceutical sciences, Faculty of pharmacy, Tanta University, Egypt, 1999.
- **M.Sc.** degree in pharmaceutical sciences (**BIOPHARMACEUTICS**), Faculty of pharmacy, Tanta University, Egypt, 2008.
Title thesis: "Studies to enhance the intestinal absorption and bioavailability of acyclovir"
- **Ph.D.** degree in pharmaceutical sciences (**BIOPHARMACEUTICS**), Faculty of pharmacy, Tanta University, Egypt, 2012.
Title thesis: "A study to investigate the effect of liquisolid technique on the dissolution characteristics of a model class II drug"

Position Occupied

October 2012-Present: Lecturer of Pharmaceutics, Faculty of pharmacy, Damanhour University, Damanhour, Egypt.
1999-2006 Research pharmacist at the Bioavailability Unit at PSC, Faculty of pharmacy, Tanta University, Egypt.

Academic appointment:

- Lecturer of Pharmaceutics, Faculty of Pharmacy, Damanshour University, Damanshour, Egypt, (since 2012 until now).

Brief description of duties:

Teaching Courses in Faculty of Pharmacy, Damanshour University, Damanshour, Egypt:

- Teaching **different pharmaceutics courses for different grades.**

Workshops and Courses:

Courses and workshops held in the Faculty and Leadership Development Project (FLDP), Egypt:

- Quality standards in the education process, June 2014.
- International publishing of scientific research, June 2014.

Academic activities:

- Collaborated in preparing and establishing the bylaws of Pharmaceutics Department (Bachelor Degree of Pharmaceutical Sciences).
- Designed the courses of Pharmaceutics Department and its specifications (Bachelor Degree of Pharmaceutical Sciences).

Community Involvement / Administrative Activity:

- As a member of the Committee of Community Service and Environmental Development, Faculty of Pharmacy, Damanshour University, Damanshour, Egypt (Academic year 2012-2013 - & 2014-2015).
- As a member of the Educational and students Committee, Faculty of Pharmacy, Damanshour University, (Academic years 2015-2016)
- Participation in Summer Training Courses for the Third grade students, Faculty of Pharmacy, Damanshour University, Damanshour, Egypt.

Practical and Research Experience

Human studies:

- Bioequivalence study design, data collection, and data analysis.
- Evaluation of pharmacokinetic drug-drug interactions.
- Clinical experience in drug concentration monitoring and adjusting drug doses according to patient metabolic patterns and pharmacokinetic principles. Activities included demonstrating factors affecting patient drug blood levels and applying TDM as an integral part of drug therapy.
- Investigation of oral absorption of drugs *in vivo*.
- Making *in vivo- in vitro* correlation for many drugs.

Animal studies:

- Investigation of the regional differences in the absorption of the some drugs using *in situ* intestinal perfusion technique.
- Enhancement of oral absorption of drugs.

Analytical techniques:

- HPLC (UV& Fluorescence) and UV spectroscopy.

Computer packages:

- Pharmacokinetic data analysis with WinNonlin.
- Statistical packages such as Minitab.

Publications:

- 1. A new and simple HPLC method for determination of etamsylate in human plasma and its application to pharmacokinetic study in healthy adult male volunteers.** Saudi Pharm J. (2013) 21: 405–410.
Helmy SA, El Bedaiwy HM.
- 2. Validation of a liquid chromatography method for the simultaneous determination of several nonsteroidal anti-inflammatory drugs in human plasma for therapeutic drug monitoring.**
Ther Drug Monit. (2014) 36(1): 100–107.
Helmy SA, El Bedaiwy HM.
- 3. HPLC determination of fexofenadine in human plasma for therapeutic drug monitoring and pharmacokinetic studies.**
Biomed Chromatogr. (2015). doi: 10.1002/bmc.3650.
Helmy SA, El Bedaiwy HM.
- 4. In Vitro Dissolution Similarity as a Surrogate for In Vivo Bioavailability and Therapeutic Equivalence.**
Dissolut Technol. (2016). Accepted for publication.
Helmy SA, ELBedaiwy HM.