

Aya Adel Fouly, Ph. D.

Lecturer, Department of Pharmaceutics, Faculty of Pharmacy, Alahram Canadian University, 6th of October city, Egypt

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Education

- **July 2018: Ph. D. degree** in Pharmaceutical sciences, Faculty of Pharmacy, **Cairo University.**

Supervisors: Prof. Dr. Magdy Ibrahim, Professor of Pharmaceutics, Cairo University.

Prof. Dr. Mina Ibrahim, Professor of Pharmaceutics and Vice dean for community services and environmental sciences affairs, Faculty of Pharmacy, Cairo University.

Prof. Dr. Hussein Ammar, Chair of Department of Pharmaceutics, Future University in Egypt.

Dissertation title: *A Pharmaceutical study on certain transdermal delivery systems of an antiemetic drug*

- **2010-2014: MSc degree** in Pharmaceutical sciences, Faculty of Pharmacy, **Suez Canal University.**

Supervisors: Prof. Dr. Mamdouh Ghorab, President of Suez Canal University.

Prof. Dr. Shaheed Gad, Chair of Department of Pharmaceutics, Suez Canal University.

Prof. Dr. Hussein Ammar, Chair of Department of Pharmaceutics, Future University in Egypt.

Dissertation title: *Study of the effect of lubricants on the physicochemical properties of certain polymeric films.*

Premasters courses total grade: **very good.**

- **June-September 2012: Summer Research Internship** at the College of Pharmacy, **University of New Mexico, USA**, under the supervision of **Prof. Dr. Linda Felton** the Chairman of Pharmaceutical Sciences Department to work in a project entitled: *Influence of Anti-Adherents on Mechanical Strength*

and Dissolution Properties of Acrylic Polymeric Films.

- **2004 -2009: Bachelor** of Pharmaceutical Sciences, practical clinical pharmacy (**Excellent grade with honor**) Faculty of pharmacy, **Helwan University**.

Professional experience

- **September 2018 to present, lecturer**, Department of Pharmaceutics, Faculty of Pharmacy, Alahram Canadian University, 6th of October city, Egypt.

Instruct undergraduate students in Pharmaceutical technology and industrial pharmacy, different operations held in a pharmaceutical factory, equipment and trouble shooting.

Instruct undergraduate students in orientation to pharmacy.

- **November 2014 to August 2018, assistant lecturer**, Department of Pharmaceutical Technology and Industrial Pharmacy, Faculty of pharmaceutical Sciences and Pharmaceutical Industries, Future University, Egypt.

Supervising undergraduate students in pharmaceutics labs, registration, taking lectures attendance, system recording of students' grades and supervising students' projects.

- **February 2010 to November 2014, teaching assistant**. Department of Pharmaceutical Technology and Industrial Pharmacy, Faculty of pharmaceutical Sciences and Pharmaceutical Industries, Future University, Egypt.

Supervising undergraduate students in pharmaceutics labs, registration, system recording of students' grades, writing course specs for QA documentation,

- **November to January 2009: quality control analyst**, Global Napi Pharmaceuticals, 6th of October city. Shared in the Establishment of Global Pharmaceutical Industries Pharmaceutical Factory, 6th of October city. Shared in writing validations on manufacturing and processing equipment. Shared in

writing approved methods and procedures and contribute to the development of batch records documentation.

- **August-October 2009: part timer medical representative** in Proact (Sigma) sales company (Nasr city). Part-time medical rep. with primary responsibilities focused on meeting physicians and talking with them about two main products; Clindam[®] 150, 300 mg and Listermix[®] plus.
- **Summer 2008-2009: Community Pharmacist**, Amal Tharwat Pharmacies, Nasr city, Cairo. Part-time pharmacist with primary responsibilities focused on dispensing medication and patient counseling.

Publications (Refereed)

1. Hussein Osman Ammar, Magdy Ibrahim Mohamed, Mina Ibrahim Tadros and Aya Adel Fouly. High frequency ultrasound mediated transdermal delivery of ondansetron hydrochloride employing bilosomal gel systems: ex-vivo and in-vivo characterization studies. [*Journal of Pharmaceutical Investigation*](#) volume **50**, pages613–624 (2020)
2. Hussein O. Ammar, Magdy Ibrahim Mohamed, Mina Ibrahim Tadros, and **Aya Adel Fouly**. Transdermal Delivery of Ondansetron Hydrochloride via Bilosomal Systems:In Vitro, Ex Vivo, and In Vivo Characterization Studies. **AAPS PharmSciTech**. 2018 Jul; 19 (5):2276-87.
3. Hussein O. Ammar, Mamdouh M. Ghorab, Linda A. Felton, Shadeed Gad, and **Aya A. Fouly**. Effect of Antiadherents on the Physical and Drug Release Properties of Acrylic Polymeric Films. **AAPS PharmSciTech**. 2016 Jun; 17(3):682-92.

Presentations at National and International Conferences

1. **Aya A. Fouly**, Hussein O. Ammar, Mamdouh M. Ghorab, Linda A. Felton and Shadeed Gad. Influence of Antiadherents on Mechanical and Thermal Properties of Acrylic Polymeric Films. **Podium**, *FIP world congress, Dublin, Ireland, August 2013*.
2. **Aya A. Fouly**, Hussein O. Ammar, Mamdouh M. Ghorab, Linda A. Felton and Shadeed Gad. Effect of additives on the physical properties of acrylic polymeric films. **Podium**. **3rd FUE International Conference of Pharmaceutical Sciences**, February 9th - 11th, 2015, Cairo, Egypt.
3. **Aya A. Fouly**, Hussein O. Ammar, Mina I. Tadros and Magdy Ibrahim. Transdermal Delivery of Ondansetron HCl-Loaded Bilosomes: Design and in vitro Characterization. Poster. **4th FUE International Conference of Pharmaceutical Sciences**, January 31st- February 2nd, 2017, Cairo, Egypt.

Membership of professional associations

- The Egyptian Syndicate of Pharmacists.
- Egyptian Society of Advanced Materials and Nanotechnology.
- AAPS: American Association of Pharmaceutical Scientists.
- UKICRS: United Kingdom and Ireland Controlled Release Society

Faculty services

- 1- Vice-president of the educational factory, faculty of pharmacy, ACU fall 2022 till now.
- 2- Member of control unit of level one, faculty of pharmacy, ACU Fall 2022.
- 3- Member of Questionnaires committee, Faculty of Pharmacy, ACU Fall 2022 till now.
- 4- Head of the complaints committee, faculty of pharmacy, ACU fall 2020.

- 5- Student advising and Courses registration for regular students 2010-2016, levels one, two, three, four and five.
- 6- Academic schedules committee member 2012 to present, organizing time schedules for lectures, labs, midterms and final exams and arranging schedule, lecturers and exam observers' load on electronic system.
- 7- Student advising and setting graduation plans for level four and five irregular student, fall 2017.
- 8- Evaluation committee member, 2013-2014. Being part of evaluating new staff members.
- 9- ***Accreditation of Faculty of Pharmacy, Future University by The National Authority to ensure the quality of education and accreditation (NAQAA)***
Shared in the preparatory activities for accreditation including meetings with the faculty management discussing important preparations, paperwork (course specs and course description), meeting with NAQAA representatives and discussing strength and weak points of the faculty and how it is ready to get the accreditation.

University services

Organizing committee member of nearly all the pharmaceutical workshops and conferences held by Future University.

- 1- FUE tablets and Capsules International Workshop, 2011.
- 2- FUE International Conference on Pharmaceutical Technologies, February 6- 9, 2012.
- 3- FUE International Workshop on Modern Tablet Manufacturing, QC/QA and Bio-availability/Bio-equivalence, February 20-21, 2013.
- 4- 3rd FUE International Conference of Pharmaceutical Sciences, February 9-11, 2015.

- 5- FUE International Workshop on Modern Tablets & Capsules Formulation, Manufacturing and Problem Solving, January 27 & 28, 2016.
- 6- 4th FUE International Conference of Pharmaceutical Sciences, January 31-February 11, 2015.

Training and other attended workshops and conferences

1. Workshop, using statistical analysis in academic research, 10th-11th October 2017, Future University, Cairo, Egypt.
2. Workshop, Proper selection and evaluation of API raw materials: case studies on new HCV drug, 21st May, 2016, Faculty of Pharmacy, Cairo University.
3. Workshop on professional ethics, 15th September, 2015, Future University, Cairo, Egypt.
4. Workshop on Rights on intellectual properties, 15th September, 2015, Future University, Cairo, Egypt.
5. Workshop, towards a successful pharmaceutical development of generic drug products: from the action letter to Nodcar approval. 26th December, 2015, Faculty of pharmacy, Cairo University.
6. Pharmaceutical technology course (sterile products). February 21-23, 2010, Future University, Egypt.
7. Workshop, stability and bioequivalence guidelines for the pharmaceutical products in the Egyptian market. December 7th, 2013, Faculty of Pharmacy, Cairo University.
8. Workshop, Generic pharmaceutical products in the Egyptian market: registration requirements. December 27th, 2014, faculty of pharmacy, Cairo University.
9. Biopharmaceutics module conducted by the Temple University school of Pharmacy. 11-18 April, 2010, Future University, Cairo, Egypt.

10. Mediconex conference and exhibition 13-15 April 2013, Cairo, Egypt.

Awards and honors

1. 2017, Dr Hassan Azazy Award for best research presentation in advances in drug delivery approaches.
2. 2013, Recognized by the international jury among the best three industrial pharmacy podium presentations and elected for the award 2013, FIP world congress, Dublin, Ireland.
3. 2009, Recognized by the Egyptian Pharmacy syndicate among 2009 excellent students.

Research Interests

Previous and current research interests are focused on two specific areas. The first area is polymeric film coating technology and is concentrated on the properties of polymeric films applied to solid surfaces. Previous studies were focused on the effects of the substrate on the structural arrangement of polymer chains within applied films and the relationship between polymer structure and the physical, mechanical, adhesive, and drug release properties. These studies enhanced our understanding of the mechanisms involved in polymeric film formation and polymer adhesion.

The other major current research area involves the transdermal penetration of chemicals through the skin. The development of new transdermal delivery system and enhancing technique for the transdermal delivery of antiemetic drug which will increase patient adherence to the drug and facilitate drug dosing.

Teaching Responsibilities

I was opportune to explain and supervise students in labs of all of the courses being studied in the Pharmaceutical Technology Department, Future University and all students' evaluation reports grades ranging from very good to excellent.

1. *Physical Pharmacy (PHT 212)*
2. *Pharmaceutics (1) (PHT 213)*
3. *Pharmaceutics (2) (PHT 314)*
4. *Pharmaceutics (3) (PHT 315)*
5. *Reaction Kinetics and Drug Stability (PHT 421)*
6. *Biopharmaceutics and Pharmacokinetics (PHT 431)*
7. *Industrial Pharmacy (1) (PHT 522)*
8. *Industrial Pharmacy (2) (PHT 523)*
9. *Quality control and quality assurance (PHT 531)*
10. *Dermatologicals and Cosmetics (PHT 616)*

Undergraduate extracurricular activities and training

1. **2009, 57357 children cancer hospital** (attending the first international conference about children cancer and training in the Clinical Pharmacy Department for 15 days).
2. **2009**, represent a **presentation** on Neutropenia and its treatment, **57357 children cancer hospital**, Cairo, Egypt.
3. **2007-2008**, **presentations** on (gene therapy – troponins – healthy diet), Faculty of Pharmacy, Helwan University.
4. **2008**, **member** in the Egyptian mission to **Al Faris Company, Damascus, Syria** for training.
5. **2007**, training in Pharmadynamics Company for **market research**, Cairo, Egypt.
6. **2007**, training in Elezaby Community Pharmacies, Nasr city, Cairo, Egypt.

7. **2007**, member in my pharmacy students family - Helwan University.
8. **2006-2008**, training in Amal Tharwat Community Pharmacies, Nasr city, Cairo, Egypt.
9. **2006**, training in Alshefa Community Pharmacies, Abbaseia, Cairo, Egypt.

Undergraduate extracurricular courses

1. **4th- 9th of July 2009** : with the **Egyptian Pharmacist Syndicate** (Sales and marketing - Pharmaceutical care - communication and time management - code of ethics - career development - industrial pharmacy - community pharmacy).
2. **February -March 2009**: HEPSS (highly educated pharmacist in seven sessions) program, Helwan University (selling skills - marketing skills - social styles).
3. **Winter 2009: Clinical pharmacy** course in **57357 children cancer hospital**.
4. **Summer 2008: ICDL** course in the Defense Information &Technology Center.
5. **April 2008**: (preparing scientific research) course with Medical Science Student Academy and **the National Research Center**.
6. **Summer 2007**: recharge your battery course, Zedny team, Cairo, Egypt. (Dealing with negative emotions, problem solving, stress management, self confidence).
7. **January 2007**: CPTA program, Cairo University, (Patient education- patient counseling- leadership- communication skills).
8. **2000-2006: English courses** till level 12, The Defense Language Institute.