

Dr. Mohamed El Houseiny El Sebeay Shams, PhD

Associate Professor, Pharmacy Practice

Personal Details:

- **Name:** Mohamed El Houseny El Sebeay Shams
- **Birth date:** 10. 12. 1970
- **Nationality:** Egyptian
- **Marital State:** Married



Qualification Degrees:

- **Ph.D. (Philosophy Doctor) Degree 2005** in Clinical Pharmacy- Faculty of Pharmacy-Johannes Gutenberg University of **Mainz, Germany.**
Grade: **(Sehr gut-I)** Very Good
- **M.Sc. (Master's degree) 1999** Department of Pharmacy Practice and Dosage Forms -Mansoura University, Mansoura, Egypt
- **B.Sc. (Bachelor Degree) 1993** Faculty of Pharmacy- Mansoura University- Egypt **Grade: Excellent with honor**

Positions and Academic Appointments:

- **A demonstrator (1994-2000):** Department of Pharmaceutics and Clinical Pharmacy - Faculty of Pharmacy - Mansoura University – Egypt
- **Assistant Lecturer (1.2000 - 4 .2001):** Department of Pharmaceutics and Clinical Pharmacy - Faculty of Pharmacy - Mansoura University - Egypt
- **A lecturer (2005-2008):** Department of Pharmaceutics and Clinical Pharmacy- Faculty of Pharmacy, Mansoura University, Mansoura, Egypt
Specialty: Clinical Pharmacy and Pharmaceutics.
- **A lecturer (2006-2008):** Department of Clinical Pharmacy and Therapeutics - Faculty of Pharmacy- Misr International University (MIU), Cairo, Egypt

- **Assistant Prof. (A lecturer) (Full Time) (2008-2010):** Department of Pharmacy Practice and Dosage Forms, Ministry of Health, Oman Assistant Pharmacy Institute, Muscat, Sultanate of Oman .
- **Associate Prof. (2010 - Now):** Department of Pharmacy Practice and Dosage Forms, Ministry of Health, Oman Assistant Pharmacy Institute, Muttrah, Muscat, Sultanate of Oman & Dept. of Clinical Pharmacy and Pharmaceutics, Faculty of Pharmacy, Mansoura University, Egypt.
- A head of the Dept. of Pharmacy Practice and Dosage Forms, Oman Assistant Pharmacy Institute, Ministry of Health, Muttrah, Muscat, Sultanate of Oman (from March 2013 uptill now).

Address:

- Department of Pharmacy Practice and Dosage Forms, Ministry of Health, Oman Assistant Pharmacy Institute, Muttrah, Muscat, Sultanate of Oman. P. Box 1928, Postal code: 114
- Department of Clinical Pharmacy and Pharmaceutics- Faculty of Pharmacy- Mansoura University - 35516 - Mansoura- Egypt.

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Languages:

- **Arabic** (mother tunge)
- **English** (Fluent)
- **German** (Fluent)

Grants:

- A scholarship from the Ministry of Higher Education (Egyptian Government) to study my PhD in the field of Clinical Pharmacy from Johannes Gutenberg University of Mainz, Germany.

Publications:

1. **Shams M**, Hiemke C, Härtter S. Column switching and high performance liquid chromatography (HPLC) with fluorescence detection for automated analysis of venlafaxine, mirtazapine and demethylated metabolites in blood serum or plasma. 5th Workshop, Therapeutisches Drug Monitoring von Psychopharmaka (AGNP), 4-5 Juli, 2002, **Magdurg-** Institut für Klinische Pharmakologie, Medizinische Fakultät, Otto-von-Guericke Universität- **Germany**.
2. **Shams M**, Hiemke C, Härtter S. A rapid high-performance liquid chromatographic assay with fluorescence detection for therapeutic monitoring of the antidepressant mirtazapine, and its N-demethylated metabolite in human serum. *Therapeutic Drug Monitoring* 2003; 25 (4): 2003.
3. Grözinger M, Dragicevic A, Hiemke C, **Shams M**, Müller MJ, Härtter S. Melprone is an inhibitor of the CYP2D6 catalyzed O-demethylation of venlafaxine. *Pharmacopsychiatr* 2003; 36: 3-6.
4. **Shams M**, Hiemke C, Härtter S. Therapeutic drug monitoring of the antidepressant mirtazapine and its N-demethylated metabolite in human serum. *Ther Drug Monit* 2004; 26: 78-84.
5. El-Shaboury M, Gabr K, Elsayed G, **Shams M**. Preparation and release characteristics of indomethacin and diclofenac sodium solid-emulsion gels. *Mansoura J Pharm Sci* 2004; 20: 36-56.
6. Gilles M, Deuschle M, Kellner S, **Shams M**, Krumm B, Härtter S, Heuser I, Hiemke C. Paroxetine serum concentrations in depressed patients and response to treatment. *Pharmacopsychiatr* 2005; 38: 1-4.
7. Hiemke C, Dragicevic A, Kuss H, Rao M, **Shams M**, Müller M. TDM zur Optimierung der antidepressiven Pharmakotherapie. *Die Medizinische Welt*; (2005)7-8: 338-343.
8. **M. E. E. Shams**, B. Arneith MD PhD, C. Hiemke, PhD, A. Dragicevic M. J. Muller* PhD, R. Kaiser§ PhD, K. Lackner PhD and S. Haertter* PhD. CYP2D6 polymorphism and clinical effect of the antidepressant venlafaxine. *Journal of Clinical Pharmacy and Therapeutics* (2006) 31, 493–502.
9. AL-Gayyar M. M. H.*, **Shams M. E. E.** and Awad M. A. E. Pharmaceutical care of patients with hepatocellular carcinoma: Could GAGs be useful as a diagnostic and prognostic tumor marker? *Mans.J Pharm Sci.* 2007, 23, 12-26.
10. **Mohamed E. E. Shams**, Enaase A.M.E. Barakat, Mohammed M. H. Al-Gayyar and Maha R. Habib Impact of Lifestyle and Oxidative Stress on the Management of Patients with Type II Diabetes Mellitus. *Bull. Fac. Pharm.*2008, Cairo Univ.

11. Enaase A.M.E. Barakat ¹, Mohammed M. H. Al-Gayyar ² and **Mohamed E. E. Shams**³. Impact of diabetes and metabolic syndrome on patients with non alcoholic stetohepatitis (NASH). IXth Annual Scientific Conference of Clinical Pathology, Dept of Clinical Pathology, Dept. Faculty of Medicine -University of Mansoura, Egypt.from. 7th -8th May- 2008.
12. Abeer A. EL Fallal, Abou Bakr El Bediwi, Fouad A. El Blasy, **Mohamed E. E. Shams**, and Maggie R Mesbah. Influence of gentamicin sulfate on the structure and properties of glass ionomer bone cement. The 16th Alexandria International Dental Congress, October 28-31, 2008.
13. A.A. EL-Fallal, **M. Shams**, and O.B. Abouelatta. Effect of roughness, porosity and wettability on release of gentamnicin-loaded glass ionomer bone cement. Egyptian Dental Journal.2009,55: 625-637.
14. Arneth Borros, **Shams Mohammed**; Hiemke Christoph; Härtter Sebastian. Rapid and reliable genotyping procedure for detection of alleles with mutations, deletion, or/and duplication of the CYP2D6 gene. Clinical biochemistry 2009; 42 (12):1282-90.
15. **Mohamed E.E. Shams**. Assessing Stakeholders Satisfaction with an Electronic Prescribing Service in Various Clinical Settings. Journal of Pharmacy Research 2010, 3 (5), 1056-1060.
16. **Mohamed E.E. Shams**¹and Enaase A.M.E. Barakat². Measuring the Rate of Therapeutic Adherence among Outpatients with T2DM in Egypt. Saudi Journal of Pharmaceutical Science 2010; 18 (4).
17. Abd El-Gawad H. Abd El-Gawad, Osama A. Soliman, **Mohamed E. E. Shams** and Doaa N. Maria. Ocular Bioavailability of Triamcinolone Acetonide Complex from Different Ophthalmic Preparations in Rabbits' Eyes. Zagazig J. Pharm. Sci., June 2009; 18(1):12-22.
18. Mohammed M. H. Al-Gayyar, Enaase A.M.E. Barakat, **Mohamed E.E. Shams**. Reactive Oxygen Species Mediate Nonalcoholic Fatty Liver Injury Through TNF- α : Relation to BodyWeight. Mansoura Journal of Pharmaceutical Sciences,2010, 1-6.
19. **Mohammed. E. E. Shams**, Mohammed M. H. Al-Gayyar, Enaase A.M.E. Barakat. Type 2 Diabetes Mellitus-Induced Hyperglycemia in Patients with NAFLD and Normal LFTs: Relationship to Lipid Profile, Oxidative Stress and Pro-Inflammatory Cytokines. Sci Pharm. 2011; in press. doi:10.3797/scipharm.1104-21
20. **Mohamed E.E. Shams**. Implementation of an e-prescribing service: Users' satisfaction and recommendations. Canadian Pharmacists Journal (C P J / R P C) • JULY / A U G U S T 2 0 1 1 • V O L 1 4 4 , N O 4

21. **Mohamed E. E. Shams**, Mohammed M. H. Al-Gayyar, Enaase A. M. E. Barakat, Mohamed A. Ebrahim, Mamdouh M. El-Shishtawy. Circulating adiponectin: a potential prognostic marker for hepatocellular carcinoma. Chinese-German Journal of Clinical Oncology. October 2011, Vol. 10, No. 10, P570–P574. DOI 10.1007/s10330-011-0859-7.
22. **Hiemke C, Shams M.** Phenotyping and Genotyping of Drug Metabolism to Guide Pharmacotherapy in Psychiatry. Curr Drug Deliv. 2012 Sep 17; 8: 45-58.
23. Mohammed M.H. Al-Gayyar, Mohamed A. Ebrahim, **Mohamed E.E. Shams.** Measuring serum levels of glycosaminoglycans for prediction and using viscum fraxini-2 for treatment of patients with hepatocellular carcinoma. Journal of Pharmacy Research 07/2013; 7:571-575. DOI:10.1016/j.jopr.2013.07.016
24. Wael M. Gabr, Enaase A. M. E. Barakat, **Mohamed E. E. Shams.** Effect of Fasting during Ramadan on Migraine Sufferers. Journal of Behavioral and Brain Science 07/2013; 3:373-378. DOI:10.4236/jbbs.2013.34037

Supervision:

MSc thesis (Researcher: Doaa Nabeh Maria (assistant lecturer).

Websites:

<http://scholar.google.com/citations?user=H1xyDLIAAAAJ&hl=en>

https://www.researchgate.net/profile/Dr_Mohamed_Shams/?ev=hdr_xprf

<http://www.biomedexperts.com/Profile/PersonDetailPage.aspx>

Congresses and workshops:

1- Shams M, Hiemke C, Härtter S. Column switching and high performance liquid chromatography (HPLC) with fluorescence detection for automated analysis of venlafaxine, mirtazapine and demethylated metabolites in blood serum or plasma. 5th Workshop, Therapeutisches Drug Monitoring von Psychopharmaka (AGNP), 4-5 Juli, 2002, **Magdurg-** Institut für Klinische Pharmakologie, Medizinische Fakultät, Otto-von-Guericke Universität- **Germany.**

2- Shams M, Hiemke C, Härtter S. A rapid high-performance liquid chromatographic assay with fluorescence detection for therapeutic monitoring of the antidepressant mirtazapine, and its N-demethylated metabolite in human serum. 8th International Congress of Therapeutic Drug monitoring and Clinical Toxicology (ICTDMCT 2003), 7-11 September, 2003, Convention Center Basel, **Basel, Switzerland.** *Therapeutic Drug Monitoring* 2003; 25 (4): 2003.

- 3- Shams M1**, Arneth B2, Lackner K2, Hiemke C1, Haertter S1 (Departments of Psychiatry¹ and Clinical Chemistry², University of Mainz, Germany). Correlation between CYP2D6 geno-and phenotypes with clinical outcomes under antidepressant treatment with venlafaxine. Abstracts from the XXIV CINP Congresses, **Paris, France** June 20-24, 2004. *Int J Neuropsychopharmacol* 2004; 7 (1): S339-S340.
- 4- Mohamed Shams**, (Speaker). Therapeutic drug monitoring (TDM) and genotyping of patients treated with venlafaxine. **XIII The World Congress of Psychiatry - Cairo, Egypt**, 11-15 September 2005.
- 5- FLDP Project** (Faculty and Leadership Department) - First Congress- Childern Hospital- Mansoura University, **Mansoura, Egypt**, 19 November 2005.
- 6- Action Planning Workshop- QAAP- Cairo, Egypt-** 14-5-2006.
- 7- Workshop on new drug update and adverse drug reaction reporting & the history of drug information.** The University of Georgia College of Pharmacy in collaboration with Misr International University (MIU) in **Cairo, Egypt**, Monday 13 November, 2006.
- 8- Professional workshop on optimizing pharmaceutical care & future roles of pharmacists in healthcare.** **The University of South Carolina, College of Pharmacy in collaboration with Misr International University (MIU) in Cairo, Egypt**, Monday 12th February, 2007.
- 9- Conference of Egyptian Academic Reference Standards – QAAP, Mansoura University, Mansoura, Egypt**, 28-2-2007.
- 10- Humboldtians in Natural Science and Engineering. The Second Conference of Egyptian Humboldtians. German University in Cairo, Cairo, Egypt**, 8-9, 2007.
- 11-Mohamed Shams**. (Poster) Personalized medicine using pharmacogenetics as a tool for improving global health. The Oxford Conference on Innovation and Technology Transfer For Global Health. Bridging The Gap in Global Health Innovation-From Needs to Access. **Oxford, United Kingdom**, 9-13 September, 2007.
- 12- Shams M**, Barakat E, El Gayar M. Impact of pharmaceutical care and lifestyle in treatment of patients with type 2 DM. The First Scientific conference of Faculty of Pharmacy, **Cairo University, Cairo, Egypt**. March 29th, 2008.
- 13- Enaase A.M.E. Barakat ¹, Mohammed M. H. Al-Gayyar ² and Mohamed E. E. Shams³.** Impact of diabetes and metabolic syndrome on patients with non alcoholic stetohepatitis (NASH). IXth Annual Scientific Conference of Clinical Pathology, Dept. of Clinical Pathology, Dept. Faculty of Medicine -University of Mansoura, **Egypt**.from. 7th -8th May- 2008.

- 14- B. Arneth, M. Shams, C. Hiemke, S. Härtter. “Conscious drug selection and dosing by genotyping and phenotyping of alleles with mutations, deletion and/or duplication of the CYP2D6 gene”. Ehrlich 2nd World Conference on Magic Bullets, **Nürnberg, Germany**, 2008, 1779.
- 15- Quality management and enhancement in higher education. Oman Quality Network. 28- 29 October 2008, **Muscat, Sultanate of Oman**.
16. Abeer A. EL Fallal, Abou Bakr El Bediwi, Fouad A. El Blasy, Mohamed E. E. Shams, and Maggie R Mesbah. Influence of gentamicin sulfate on the structure and properties of glass ionomer bone cement. The 16th **Alexandria** International Dental Congress, October 28-31, 2008
17. Ossama Abouelatta, Abeer El Fallal, and M. Shams. Effect of roughness, porosity and wettability on release of gentamicin-loaded glass ionomer bone cement. 9th International conference on production- engineering, design and control (PEDAC), **Alexandria, Egypt** 10-12th February 2009.
18. Quality Assurance Portfolio workshop. Oman Quality Network. 22 -25th February 2009. **Muscat, Sultanate of Oman**.
19. Evidence based practice teaching workshop, Continuing Professional Development. Muscat on 7th -9th November 2009 organized and conducted by the Directorate of Continuing Education, DGET, Ministry of Health, **Muscat, Sultanate of Oman**.
20. Learner- Centered Teaching Strategies for Faculty Workshop. **Muscat** on 8th – 10th February 2010 organized by the Directorate of Continuing Education, DGET, Ministry of Health, Sultanate of Oman and conducted by Prof. Margery H. Davis & Dr. Madawa Chandratilake, **University of Dundee, United Kingdom**.
21. Workshop on Risk Management at IHS Auditorium, Muscat on 24th -26th October 2011, Planned and organized by the Director of Continuing Professional Development, DGET, Ministry of Health, Muscat, Oman. Accredited for 16 CPD points in category I by OMSB, CPD Activity No. OMSB/CPD/2602/09.11. Muscat, Oman.
22. Quality Audit Awareness Workshop, IHS Auditorium, October, 1-2, 2012. Organized by Quality Assurance Section, Director General of Education and Training (DGET). Accredited for 5 CPD points in category I by OMSB, CPD Activity No. OMSB/CPD/3593/09.12. **Muscat, Oman**.
23. International Conference on Health Vision 2050. Ministry of Health, Oman, 1-3 May 2102. Muscat, Oman.
24. Dubai International Pharmaceutical & Technologies Conference & Exhibition (DUPHATE), 10th- 12th March -2013. Dubai International Convention & Exhibition Centre, Dubai, United Arab Emirates.

25. First International Conference on Pharmaceutical Care in Critical Area. It is held on 16th May 2013, Sur, Oman. Entitled 5 credits category I. Registration No. (OMSB/CPD/4126/03.13), Sur, Oman.
26. Basic and Advanced Trends in Drug Therapy and Pharmaceutical Care. Accredited byfor 2.5 CPD points under category I by OMSB. CPD Activity No. (OMSB/CPD/4268/05.13), Ministry of Health, Muscat, Oman.
27. 6th Medication Safety Conference 2013. November 22nd - November 24th 2013, | Intercontinental Hotel, *Abu Dhabi*, UAE.

Training Programs for Staff Development:

The following workshops and training programs were held at University of Mansoura:

1. Credit hours (from 12/03/2006 to12/03/2006).
2. Effective Presentation Skills (from 19/03/2006 to 2103/2006).
3. Ethics and professional ethics (from 06/08/2006-8/08/2006).
4. Use of technology in teaching (from 16/12/2007-18/12/2007).
5. Examination systems and evaluation of students (from 01/08/2010 to 03/08/2010).
6. Strategic Planning (from 08/08/2010 to 10/08/2010).

Awards:

The best citation awards for 2012, Scientia Pharmaceutica Journal, Austria

<http://www.scipharm.at/default.asp?id=1256&lid=2>

For the following published paper:

Type 2 Diabetes Mellitus-Induced Hyperglycemia in Patients with NAFLD and Normal LFTs: Relationship to Lipid Profile, Oxidative Stress and Pro-Inflammatory Cytokines
Mohamed E. E. SHAMS *, Mohammed M. H. AL-GAYYAR, Enaase A. M. E. BARAKAT
Sci Pharm. 2011; 79: 623–634. <http://dx.doi.org/10.3797/scipharm.1104-21>

Certificates of appreciation:

- To participate in the first conference on the development of faculty members and leaders (in fact, and the future) - November 2005 - Mansoura University – Mansoura, Egypt.
- For Academic Excellence – 6 October, Mansoura University - 2006.
- For participation in the preparation of graduates for the work as pharmacists - 2007 - College of Pharmacy - Mansoura University.
- Performance of the supervisor and the outstanding performance of the Oman Assistant Pharmacy Institute - Muscat - 2009-.2010

Research Interests:

- Clinical Pharmacokinetics and therapeutic drug monitoring
- Clinical Pharmacogenetics
- Pharmaceutical care
- Medication errors
- Biopharmaceutics
- Pharmacy practice and dosage forms