

جامعة المنصورة كلية الصيدلة قسم الصيدلة الاكلينيكية والممارسة الصيدلية

Manual of Clinical Pharmacy and Pharmacy Practice Department

College mission

The College of Pharmacy, Mansoura University, is committed to the continuous upgrading and development of its study programs, scientific research, and community service to graduate distinguished pharmacists to meet

The needs of the labor market and the preparation of researchers at an internationally competitive level within the framework of academic standards and societal values.

College vision

Leadership and excellence in education, scientific research and community service locally and internationally in all pharmaceutical fields.

Department vision

The vision of the Clinical Pharmacy and Pharmacy Practice Department is to drive the advancement of health and pharmacist-provided patient care through innovative pharmacy education, practice models and clinical research.

Department mission

The mission of the Clinical Pharmacy and Pharmacy Practice Department is focused in three areas: education, research, and service.

Our educational mission is to create a student-centered learning environment, to facilitate the development and application of abilities necessary to provide



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comprehensive medication management, to model excellence in practice, to foster leadership skills inside the Pharmaceutical and health institutions.

Our research mission is to impart new knowledge by developing and participating in basic and applied research programs, by promoting collaborative research in the field of clinical pharmacy, drug therapy and pharmacoeconomics, and by contributing to the literature of pharmacy practice and beyond.

Our service mission is to provide outstanding patient care, to educate pharmacists and other health care professionals that will advance the practice of pharmacy, and to contribute to the overall mission of the University.

Department infrastructure

The Clinical Pharmacy and Pharmacy Practice Department is located on the sixth floor in the basic educational buildings and it consists of:

- Two rooms for faculty members (teaching staff).
- Two rooms for faculty assistants (demonstrators and assistant teachers).
- Room for the department board, department head and secretariat.

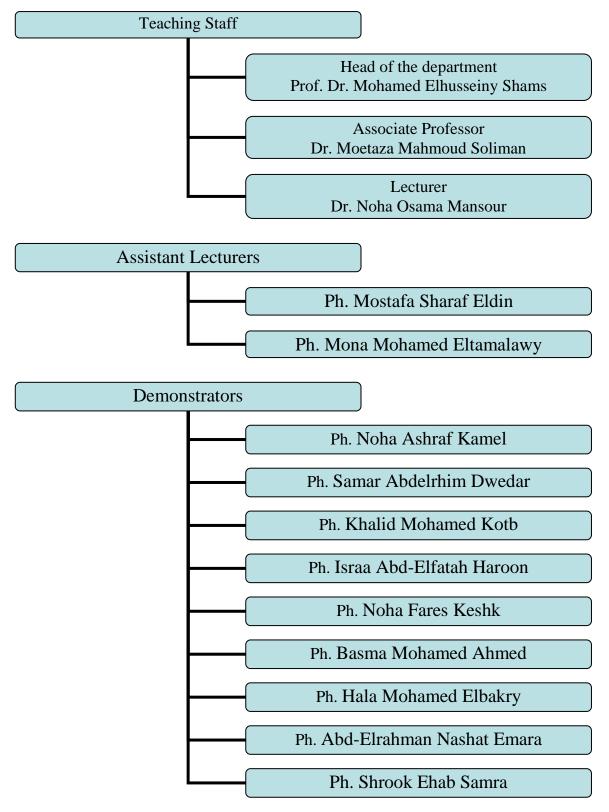
Appliances available in the department: Refrigerator minus 80 degrees

Department laboratories: The construction of a laboratory for the department is in progress.



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The organizational structure of the department





First: Faculty Affairs

Head of the department

	Name	Job
1	Prof. Mohamed Elhusseiny Shams	Head of the department

Teaching staff

	Name	Job
1	Prof. Mohamed Elhusseiny Shams	Professor and head of the department
2	Dr. Moetaza Mahmoud Soliman	Associate Professor
		1 2000 1 101 2 101 2 00 01
3	Dr. Noha Osama Mansour	Lecturer

Assistant lecturers and demonstrator

	Name	Job
1	Mostafa Sharaf Eldin	Assistant lecturer
2	Mona Mohamed Eltamalawy	Assistant lecturer
3	Noha Ashraf Kamel	Demonstrator
4	Samar Abdelrhim Dwedar	Demonstrator
5	Khalid Mohamed Kotb	Demonstrator
6	Israa Abd-Elfatah Haroon	Demonstrator
7	Noha Fares Keshk	Demonstrator
8	Basma Mohamed Ahmed	Demonstrator
9	Hala Mohamed Elbakry	Demonstrator
10	Abd-Elrahman Nashat Emara	Demonstrator
11	Shrook Ehab Samra	Demonstrator



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Faculty members who held administrative positions

	Name	Administrative position
1	Prof. Mohamed Elhusseiny	Head of Clinical Pharmacy & Pharmacy
	Shams	Practice department

Statistics of faculty members and the supporting body

		On the job	Holidays	Total
Professors	Free to work	0	0	0
	Working	1	0	1
Associate	Free to work	0	0	0
professors	Working	1	0	0
Lecturer		1	0	1
	Total	3	0	3
Supporting body	Assistant lecturer	2	0	2
	Demonstrator	7	2	9
Total		9	2	11
Total of fac	culty members	12	2	14
and the su	pporting body			



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Employees

Technicians	
Administrators	1. Mrs. Alyaa Mohamed Ali Elzanaty
	2. Mrs. Sahar Asran
Workers	Mrs. Samar Fathy Mostafa Mostafa
Daily workers	1. Mrs. Mai Abdelaziz
	2. Mrs. Faten

Statistics of employees

Employees	On the job	Holidays	Total
Technicians	0	0	0
Administrators	2	0	2
Workers	1	0	1
Daily workers	2	0	2
Total	5	0	5



Second: Education and Student Affairs

The subjects taught and supervised by the department

Credit hour program

	Subject	Code	Level	Teaching staff
1	Clinical pharmacy	PP416	Four	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
2	Pharmacy practice	PP427	Four	Dr. Moetaza Mahmoud Soliman
				Dr. Noha Osama Mansour
3	Drug information	PP324	Three	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
4	Hospital pharmacy	PP325	Three	Prof. Mohamed Elhusseiny Shams
				Dr. Noha Osama Mansour
				Dr. Noha Saleh Metwally
				Dr. Amira Mohsen Metawe
5	Pharmaceutical Ethics &	PP213	Two	Prof. Mohamed Elhusseiny Shams
	Legislation			Dr. Marwa Salah Eldahan
6	Drug marketing	PP528	Five	Dr. Elham Abdelmonem
				Dr. Magdy Thabet
				Dr. Ghada Elemam

Pharm D program

	Subject	Code	Leve	Teaching staff
			1	
1	Medical terminology	PP111	One	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
				Dr. Noha Osama Mansour
2	Communication skills	UR124	One	Dr. Ali Abdelsameei Qorah
				Dr. Asmaa Abdelmonem Mostafa
4	Hospital pharmacy	PP322	Thre	Prof. Mohamed Elhusseiny Shams
			e	Dr. Noha Osama Mansour
				Dr. Noha Saleh Metwally
				Dr. Amira Mohsen Metawe



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5	Drug Information	PP 413	Four	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
6	Pharmaceutical	PP 414	Four	Prof. Mohamed Elhusseiny Shams
	Legislations and			Dr. Marwa Salah Eldahan
	Regulatory Affairs			
7	Clinical	PP 425	Four	Prof. Mohamed Elhusseiny Shams
	Pharmacokinetics			Dr. Moetaza Mahmoud Soliman
				Dr. Noha Osama Mansour
8	Community Pharmacy	PP 426	Four	Prof. Mohamed Elhusseiny Shams
	Practice			Dr. Moetaza Mahmoud Soliman
				Dr. Noha Osama Mansour
9	Clinical pharmacy I	PP 517	Five	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
				Dr. Noha Osama Mansour
10	Clinical Research,	PP 518	Five	Prof. Mohamed Elhusseiny Shams
	Pharmacoepidemiology			Dr. Moetaza Mahmoud Soliman
	and Pharmacovigilance			Dr. Noha Osama Mansour

Clinical pharmacy Program (credit hour)

	Subject	Code	Level	Teaching staff
1	Clinical pharmacokinetics	PP907	Five	Prof. Sahar Mohamed Elhggar
				Dr. Moetaza Mahmoud Soliman
2	Drug information	PP015	Five	Prof. Mohamed Elhusseiny Shams
				Dr. Moetaza Mahmoud Soliman
3	Clinical pharmacy I	PP702	Four	Prof. Sahar Mohamed Elhggar
				Dr. Moetaza Mahmoud Soliman
4	Clinical pharmacy II	PP805	Four	Prof. Mohamed Elhusseiny Shams
				Dr. Noha Osama Mansour
5	Community Pharmacy practice	PP608	Four	Prof. Sahar Mohamed Elhggar
				Dr. Moetaza Mahmoud Soliman
6	Hospital pharmacy	PP701	Four	Dr. Noha Saleh Metwally
				Dr. Amira Mohsen Metawe



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Clinical pharmacy Program (Pharm D)

	Subject	Code	Level	Teaching staff
1	Community Pharmacy	PP501	Three	Prof. Sahar Mohamed Elhggar
	practice			Dr. Moetaza Mahmoud Soliman
2	Hospital pharmacy	PP602	Three	Dr. Noha Saleh Metwally
				Dr. Amira Mohsen Metawe
3	Clinical pharmacy Practice	PP703	Four	Prof. Sahar Mohamed Elhggar
				Dr. Moetaza Mahmoud Soliman
4	Clinical pharmacokinetics	PP804	Four	Prof. Sahar Mohamed Elhggar
				Dr. Moetaza Mahmoud Soliman
5	Pharmacotherapy of critical	PP805	Four	-
	care patients			
6	Clinical Research and	PP014	Five	-
	Pharmacovigilance			

Scientific content of the core program courses credit hour program

1 PP 416 Clinical Pharmacy

Definition and concepts of clinical pharmacy. Case history and patient history. Patient management approach of various toxic exposures. Clinical problems solving. Topics discussion including: (clinical drug interactions, adverse drug reactions, drug interference and clinical laboratory data).

2 PP 111 Medical Terminology

Introduction to medical and pharmaceutical terminologies, medical abbreviations, medical idioms, suffixes and prefixes, medical terms pertaining to major body systems.

4 PP213 Pharmaceutical Ethics & Legislation

Introducing the law of practicing the profession of pharmacy and registration in the Pharmacists Syndicate. Introducing the schedules of narcotic substances and the rules for their disbursement. Rules for opening pharmaceutical establishments (new pharmacy, drug stores, pharmaceutical factories and scientific offices). Importing medicines, pharmaceutical preparations and medicinal plants. Ethics of the pharmacy profession and the relationship of the pharmacist to the patient. All kinds of pharmaceutical preparations.



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5 PP 427 Pharmacy Practice

Concepts of pharmaceutical care, pharmacy profession, professional communication, patient counseling, problems solving skills, role of the pharmacist in management of symptoms of certain diseases such as: (GIT diseases, respiratory diseases, eye diseases and skin diseases).

6 | **PP324 Drug Information**

This course introduces the student to the concept and need of drug information, types of drug information resources (primary, secondary and tertiary literature), computerized and online drug information, literature evaluation and critical appraisal, retrieval of information. It also aims at providing the students with the professional skills required to effectively and accurately answer medication-related questions in a systematic and evidence based approach.

7 | PP 325 Hospital Pharmacy

Introduction to hospital pharmacy: (definition and structure of hospital pharmacy, pharmacy – patient relationship and basic general functions of hospital pharmacy) - the hospital: (definition, classification, hospital functions objectives of hospital pharmacy) - functional organization of hospital pharmacy: (administrative division educational and training division, other specific divisions) - surgical dressing and suture materials: (absorbable sutures, synthetic absorbable suture, non-absorbable sutures and metallic sutures) - investigational drugs and hospital therapeutic committee.

8 PP 528 Drug Marketing

Introduction of marketing: (pharmaceutical marketing and the commodity marketing) - the product development process in the pharmaceutical marketing, developing a marketing plan, performing a needs analysis, big picture analysis (SWOT analysis) - positioning statement and examples from the industry practices, simple forecasting formula - the budget elements of a product - a communication plan, definition and developing - the marketing research; (definition, objective, types of market research and methods) - recognizing trends; definition, types – recent trends of pharmaceutical marketing, ethical guidelines and regulations - pricing & reimbursement, pricing issue and the contribution of price elements such as discounts, bonuses, credit term - the new trends of pharmaceconomics studies and role in pricing - the comparison of pricing with the competitors.

9 UR 124 Communication and Presentation skills

Communication skills: The course will help students develop necessary written and oral communication and presentation skills to improve inter- and intra-



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providers and professional collaboration and communication with health care patients

Presentation skills: The course describes list elements of successful presentations, mention types and methods of presentations and how to prepare presentation including selection & use of the media. The course also describes how to develop a personal style of presentation, describe how to deal with speaking anxiety, explain how to capture an audience's attention.

Scientific content of the core program courses credit hour program

PP 111 Medical Terminology (1+0)

Introduction to medical and pharmaceutical terminologies, medical abbreviations, medical idioms, suffixes and prefixes, medical terms pertaining to major body systems.

PP 322 Hospital Pharmacy (2+0)

The course aims to introduces students to hospital pharmacy organization, structure, management and related activities on both technical and administrative levels in accordance with national and international established guidelines. Administrative services include: the pharmacy, the pharmacy and therapeutic committee and policy making, the hospital formulary, medication purchasing, distribution and dispensing systems. The pharmaceutical (technical) services include: preparation of Intravenous (IV) admixtures, total parenteral nutrition (TPN) fluids, renal dialysis fluids, dispensing and safe handling of radiopharmaceuticals, cytotoxic drugs, and medical gases.

PP 413 Drug Information (1+1)

This course introduces the student to the concept and need of drug information, types of drug information resources (primary, secondary and tertiary literature), computerized and online drug information, literature evaluation and critical appraisal, retrieval of information. It also aims at providing the students with the professional skills required to effectively and accurately answer medication-related questions in a systematic and evidence based approach.

PP 414 Pharmaceutical Legislations and Regulatory Affairs (1+0)

A detailed presentation of law that governs and affects the practice of pharmacy, legal principles for non-controlled and controlled prescriptions, OTC drug requirements, opening new pharmacies, opening medical stores, opening factories, opening scientific offices, medicine registration, pharmacies and medicine stores management. Pharmacist duties and responsibilities, pharmacist-patient relationship, patient's rights and ethical principles and moral rules.



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PP 425 Clinical Pharmacokinetics (2+1)

This course provides basic principles of pharmacokinetics and their application to the clinical setting. Single Intravenous bolus and oral kinetics, IV infusion, multiple IV bolus, short infusion &oral dosing, non-linear pharmacokinetics, pharmacokinetic models. Sources of variability in pharmacokinetics, dosage regimen and dosage adjustment in children, obese, elderly patients and chronic disease states. Therapeutic drug monitoring and pharmacogenomics approaches.

PP 426 Community Pharmacy Practice (2+1)

The course provides students with competencies and knowledge for the provision of quality pharmaceutical care in a community pharmacy setting aiming at improving use of medicines and therapeutic outcomes. The course covers differentiation between minor and major ailments and responding to minor ailments with over-the-counter products. It also provides concepts of patient assessment, counseling, and monitoring in community pharmacy and in outpatient care settings and introduces students to pharmaceutical care services for chronic-diseased outpatients and to psychosocial aspects in patient care. In addition, the course provides the students with competencies to promote the public health role of pharmacist including health promotion and disease prevention activities

PP 517 Clinical Pharmacy I (2+1)

Definition and concepts of clinical pharmacy and pharmaceutical care, and qualification to become a clinical pharmacy. Patient history, medication reconciliation, therapeutic planning and drug-related problems. Interpretation of clinical laboratory data and physical examination. Providing Medication Therapy management services. Principles of special care populations (geriatric, pediatric, renal and hepatic patients, obesity & pregnancy& lactation). The course also introduces the student to the principles of management and supportive care of oncological diseases, blood disorders and nutritional deficiencies.

PP 518 Clinical research, Pharmacoepidemiology and Pharmacovigilance (1+1)

This course introduces the student to the basic principles of clinical research, design of research studies, types of research studies, clinical trials, statistical presentation of research data and ethical guidelines in drug research. This course addresses a range of study designs and analytic techniques for observational studies on the utilization, safety, and effectiveness of pharmaceuticals. Students will develop an understanding of how to plan, implement, analyse, and criticize pharmacoepidemiological studies. This course also provides the student's with understanding of pharmacovigilance importance, concept, processes, systems, global safety standards and regulations and reporting systems.

PP 529 Clinical Pharmacy II& Pharmacotherapeutics (1+1)

The course introduces the student to the principles of pharmacotherapeutics& management of the common disease states (e.g. obstetrics and gynecology, rheumatic diseases, renal diseases, CNS diseases).



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Scientific content of clinical pharmacy program courses

1 PP 702 Clinical Pharmacy 1

Definition and concepts, case history, patient management approach, patient history taking, clinical problem solving. Topics of discussion include, clinical druginteractions, adverse drug reactions, drugs interference and clinical laboratory data.

2 PP 805 Clinical Pharmacy 2

Clinical pharmacy in obstetrics, gynaecology, neonates, paediatrics, geriatrics, blood disease and CNS disease. Nutritional deficiencies, energy and nutritional needs, enteral and parenteral nutrition

3 PP 907 Clinical Pharmacokinetics

Introduction, applied clinical pharmacokinetics, therapeutic drug monitoring, mono and multi-exponential pharmacokinetics, Non-compartmental pharmacokinetics and moment analysis. Drug distribution and drug clearance mechanisms, IV infusion kinetics and kinetics following extra-vascular dosing, metabolite kinetics, multiple dose kinetics, non-linear pharmacokinetics, dosage regimen design, dosage individualization of drugs of low therapeutic index, especially in patients with compromised renal and hepatic function.

4 | PP 015 Drug information

Drug information and poison information centers. This course introduces the student to the concept and need of drug information, types of drug information resources (primary, secondary and tertiary literature), computerized and online drug information, literature evaluation and critical appraisal, retrieval of information. It also aims at providing the students with the professional skills required to effectively and accurately answer medication- related questions in a systematic and evidence based approach.

5 **PP 703 Hospital Pharmacy**

Organization and structure of a hospital pharmacy, hospital pharmacy department and dispensing, hospital formulary, radio-pharmaceuticals and nuclear pharmacy, surgical dressing and sutures, plasma substitute, central sterile supply unit and its management, manufacture of sterile and non-sterile products, I.V. admixtures, pharmacy and therapeutic committee and manufacturing units in hospitals.



Third: Postgraduate Affairs and Cultural Relations

Postgraduate Programs

A- Diploma in Clinical Pharmacy

	Subject	Code
1	Pharmacy Practice	PPD-104
2	Drug information and pharmacovigilance	PPD -105
3	Clinical Pharmacokinetics	PPD-106

B- Doctor of Clinical Pharmacy Program

	Subject	Code
1	Pharmacy Practice 2	PP-PDP-209
2	Applied Clinical Pharmacokinetics	PP – PDP-205
3	Clinical skills development	PP – PDP-206
4	Evaluation of drug research and biostatistics	PP -PDP-212

C- Master's program

	Subject	Code
1	Clinical pharmacy and pharmacoepidemiology	PPM-201
2	Clinical Research Design	PPM-202
3	Clinical Pharmacokinetics	PPM-203
4	Pharmacotherapy (elective course)	PPM-204
5	Pharmacoeconomics and pharmacovigilance	PPM-205
	(elective course)	



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D- PhD program

	Subject	Code
1	Pharmacotherapy in patient care 1	PPP-301
2	Pharmacotherapy in patient care 2	PPP-302
3	Pharmacotherapy in patient care 3	PPP-303
4	Clinical data analysis and interpretation (elective course)	PPP-305
5	Clinical Immunotherapy (elective course)	PPP-304



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Fourth: Research Affairs

Department research plan

The research plan of the department includes the following points

- Studying many diseases facing Egyptian society and identifying new biochemical indications for diagnosing these diseases, overcoming their spread and treating them.
- Studying the effect of many safe drugs and their efficiency in treating these diseases such as liver diseases diabetes diseases heart diseases critical cases cancerous tumors.
- Conducting epidemiological studies on some pathogenic microbes using molecular biology and biotechnology techniques in the study of bacterial genes.
- Improving the effectiveness of treatments used in diseases and reducing the incidence of side effects.
- Apply personalized medicine to choose the right treatment for the right patient.
- Applying pharmacoeconomic studies to reduce costs and maximize treatment results.
- Comparison of the effectiveness of different treatments in different diseases.
- Comparison of the effectiveness of the same drug in different ways of use (intravenous, intramuscular, oral treatment, etc.).
- Contribute to good clinical practice
- Contribute to reducing medication errors and drug interactions.
- Activating the role of drug information centers

From this point of view, research protocols were made under the following research titles:

- Evaluation of a New Protocol for Graft-Versus-Host Disease Prophylaxis Using Cyclophosphamide and Cyclosprine A in Certain Hematopoietic Stem Cell Transplantation Patients.
- 2. Efficacy of choline esterase inhibitors as adjuvant therapy in sepsis or septic shock patients.
- 3. Early prediction and prevention of sepsis in critically ill trauma patients.
- 4. Efficacy of statin use with treatment regimens in breast cancer patients.



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- 5. Implementation of predictive pharmacogenomics for optimization of Cisplatin efficacy as an adjuvant chemotherapy in patients with bladder cancer.
- 6. Clinical Study Evaluating the Safety and Efficacy of Cilostazol in Preventing Paclitaxel Induced Peripheral Neuropathy in Breast Cancer Patients
- 7. Clinical Study on Chemotherapy Induced Peripheral Neuropathy: Preventive Approach Using Venlafaxine.
- 8. A Study on the Role of Certain Signaling Pathways and miRNAs in Diagnosis and Treatment of Patients with HCV-related Hepatocellular Carcinoma.
- 9. Prevention of Paclitaxel Induced Peripheral Neuropathy in Breast Cancer Patients.
- 10. Clinical Study Evaluating the Efficacy and Safety of Adjunctive Use of Montelukast in Rheumatoid Arthritis Patients.
- 11. Efficacy of medical ovarian suppression in preserving ovarian functions among patients undergoing bone marrow transplantation.

Supervising research theses (Master's and Ph.D.)

	Name	Theses title	Supervisors	Date	Notes
1	Mostafa Sharaf Eldin	Evaluation of a New Protocol for Graft-Versus- Host Disease Prophylaxis Using Cyclophosphamide and Cyclosprine A in Certain Hematopoietic Stem Cell Transplantation Patients.	 Prof. Mohamed Elhusseiny Shams Prof. Dr. Mohamed Abdel Moati Mohamed Samra Prof. Dr. Jamal Abdul- Khaleq Al-Azab Dr. Moetaza Mahmoud Soliman 	5/2/2019	Assistant lecturer



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2	Mona Mohamed Eltamalawy	Efficacy of choline esterase inhibitors as adjuvant therapy in sepsis or septic shock patients	 Prof. Mamdouh Mohamed El Sheshtawy Prof. Osama Mohamed Hassan Ibrahim Dr. Moetaza Mahmoud Soliman Dr. Amani Fahim Abdel Salam Emara 	13/3/2019	Assistant lecturer
3	Noha Ashraf Kamel	Early prediction and prevention of sepsis in critically ill trauma patients	 Prof. Mona Ibrahim Shaaban Dr. Moetaza Mahmoud Soliman Dr. Maha Ahmed Abu Zaid Salem 		Demonstrator
4	Samar Abdelrhim Dwedar	Efficacy of statin use with treatment regimens in breast cancer patients	 Prof. Dr. Amal Mohamed Abdo Al-Gayar Dr. Moetaza Mahmoud Soliman Dr. Omar Hamdi Abdel Alim 	29/1/2020	Demonstrator
5	Khalid Mohamed Kotb	Implementation of predictive pharmacogenomics for optimization of Cisplatin efficacy as an adjuvant chemotherapy in patients with bladder cancer	 Prof. Mohamed Elhusseiny Shams Prof. Dr. Hassan Abu El- Enein Abdel Baqi Dr. Moetaza Mahmoud Soliman 	29/4/2020	Demonstrator
6	Israa Abd- Elfatah Haroon	Clinical Study Evaluating the Safety and Efficacy of Rifaximin As A Secondary Prophylaxis in Cirrhotic Patients with Variceal Hemorrhage	 Prof. Mohamed Elhusseiny Shams Dr. Noha Osama Mansour Dr. Ahmed El-Tantawy El-Tantawy 	1/6/2020	Demonstrator



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7	Mahmoud Mahrous	Clinical Study on Chemotherapy Induced Peripheral Neuropathy: Preventive Approach Using Venlafaxine	 Prof. Mohamed Elhusseiny Shams Prof. Dr. Saleh Mansour Tuaima Dr. Moetaza Mahmoud Soliman 	22/7/2020	External student
8	Noha Fares Keshk	A Study on the Role of Certain Signaling Pathways and miRNAs in Diagnosis and Treatment of Patients with HCV-related Hepatocellular Carcinoma	 Prof. Mohamed Elhusseiny Shams Dr. Ahmed Elmessiry Dr. Noha Osama Mansour 		Demonstrator
9	Hala Mohamed Elbakry	Prevention of Paclitaxel Induced Peripheral Neuropathy in Breast Cancer Patients	 Dr. Moetaza Mahmoud Soliman Prof. Dr. Tawfiq Ragab Al-Khodry Dr. Noha Osama Mansour 	12/2021	Demonstrator
10	Basma Mohamed Ahmed	Clinical Study Evaluating the Efficacy and Safety of Adjunctive Use of Montelukast in Rheumatoid Arthritis Patients	 Dr. Moetaza Mahmoud Soliman Dr. Noha Osama Mansour Dr. Rehab Abd-elraoof Salam 	12/2021	Demonstrator
11	Iriny Emad Mekhael	Efficacy of medical ovarian suppression in preserving ovarian functions among patients undergoing bone marrow transplantation	 Prof. Mohamed Elhusseiny Shams Dr. Mohamed Awad Ibrahim Dr. Moetaza Mahmoud Soliman 	1/2022	External student



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Publication of Clinical Pharmacy and Pharmacy Practice Department 2019-now

2022

- **Eltamalawy MM, Soliman MM**, Omara AF, Rashad A, Ibrahim OM and El-Shishtawy MM. Efficacy and Safety of Neostigmine Adjunctive Therapy in Patients with Sepsis or Septic Shock: A Randomized Controlled Trial. Frontiers in pharmacology. 2022. **DOI:** 10.3389/fphar.2022.855764
- Bakr F, **Soliman M**, Elsabbagh H. Formulation and In-Vitro, Ex-Vivo, and In-Vivo Evaluation of Mucoadhesive Buccal Tablets Containing Labetalol Hydrochloride for Enhancement of Systemic Bioavailability. Journal of Advanced Pharmacy Research. 2022 Jan 28;6(1):15-27. DOI: 10.21608/APRH.2021.97253.1142

2021

- **Kamel NA, Soliman MM**, Abo-Zeid MA, Shaaban MI. Effect of Anti-Inflammatory and Antimicrobial Cosupplementations on Sepsis Prevention in Critically Ill Trauma Patients at High Risk for Sepsis. Frontiers in pharmacology. 2021 Nov 29:3285. doi: 10.3389/fphar.2021.792741
- Soliman MM, Bakr F, Elsabbagh HM. Development and Characterization of Nanoemulsion-based Buccal Films of Atorvastatin Calcium for Enhancement of Hypolipidemic Effect. Zagazig Journal of Pharmaceutical Sciences. 2021 Nov 6. DOI: 10.21608/ZJPS.2021.91713.1022
- **Soliman MM**. Acceptance of illness and need for education to support dermatology self-care in psoriasis patients: a cross-sectional study. Advances in Dermatology and Allergology/Postępy Dermatologii i Alergologii. 2021 Oct;38(5):842. doi: 10.5114/ada.2020.95655.
- **Soliman MM**. Depressive, anxiety, stress, and insomnia symptoms in patients with psoriasis: a cross-sectional study. Advances in Dermatology and Allergology/Postępy Dermatologii i Alergologii. 2021 Jun;38(3):510. doi: 10.5114/ada.2020.98726
- **Soliman MM**. Arabic Translation and Validation of the Acceptance of Illness Scale and Person-Centered Dermatology Self-care Index. Advances in Skin &



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Wound Care. 2021 May 1;34(5):1-8.

DOI: 10.1097/01.ASW.0000741584.49488.14

- Mason KJ, Burden AD, Barker JN, Lunt M, Ali H, Kleyn CE, McElhone K, Soliman MM, Green AC, Griffiths CE, Reynolds NJ. Risks of basal cell and squamous cell carcinoma in psoriasis patients after treatment with biologic vs non-biologic systemic therapies. Journal of the European Academy of Dermatology and Venereology: JEADV. 2021 Apr 18. DOI: 10.1111/jdv.17282
- Mason KJ, Burden AD, Barker JN, Lunt M, Ali H, Kleyn CE, McElhone K, Soliman MM, Green AC, Griffiths CE, Reynolds NJ. Characteristics and skin cancer risk of psoriasis patients with a history of skin cancer in BADBIR. Journal of the European Academy of Dermatology and Venereology: JEADV. 2021 Aug;35(8):e498-501. DOI: 10.1111/jdv.17230
- Abdallah MS, Ramadan AN, Omara- Reda H, **Mansour NO**, Elsokary MA, Elsawah HK, Zaki SA, Mansour HE, Mosalam EM. Double- blind, randomized, placebo- controlled pilot study of the phosphodiesterase- 3 inhibitor cilostazol as an adjunctive to antidepressants in patients with major depressive disorder. CNS Neuroscience & Therapeutics. 2021 Dec;27(12):1540. DOI: 10.1111/cns.13731
- Abd-Elsalam S, Ahmed OA, **Mansour NO**, Abdelaziz DH, Salama M, Fouad MH, Soliman S, Naguib AM, Hantera MS, Ibrahim IS, Torky M. Remdesivir Efficacy in COVID-19 Treatment: A Randomized Controlled Trial. The American journal of tropical medicine and hygiene.:tpmd210606. DOI: 10.4269/ajtmh.21-0606
- Abdelaziz DH, Boraii S, Cheema E, Elnaem MH, Omar T, Abdelraouf A, **Mansour NO**. The intraperitoneal ondansetron for postoperative pain management following laparoscopic cholecystectomy: A proof-of-concept, double-blind, placebo-controlled trial. Biomedicine & pharmacotherapy= Biomedecine & pharmacotherapie.;140:111725.

 DOI: 10.1016/j.biopha.2021.111725
- Mansour NO, Shama MA, Werida RH. The effect of doxycycline on neuron-specific enolase in patients with traumatic brain injury: a randomized controlled trial. Therapeutic advances in chronic disease. 2021 Jun 23;12:20406223211024362. DOI: 10.1177/20406223211024362
- Mahmoud EI, Abdelaziz DH, Abd-Elsalam S, **Mansour NO**. Norepinephrine is More Effective Than Midodrine/Octreotide in Patients With Hepatorenal



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Syndrome-Acute Kidney Injury: A Randomized Controlled Trial. Frontiers in pharmacology. 2021 Jul 2;12:675948. doi: 10.3389/fphar.2021.675948

2020

- **Soliman MM**. Feeling of stigmatization and satisfaction with life among Arabic psoriatic patients. Saudi Pharmaceutical Journal: SPJ. 2020 Dec;28(12):1868. doi: 10.1016/j.jsps.2020.11.013
- Alghanem SS, **Soliman MM**, Alibrahim AA, Gheith O, Kenawy AS, Awad A. Monitoring Tacrolimus Trough Concentrations During the First Year After Kidney Transplantation: A National Retrospective Cohort Study. Frontiers in Pharmacology. 2020;11. doi: 10.3389/fphar.2020.566638
- **Soliman M**. Pharmaceutical Care in Depression: A Survey of Stigma, Confidence, Attitudes, and Barriers. Risk Management and Healthcare Policy. 2020;13:2611. doi: 10.2147/RMHP.S273365
- **Soliman M**. Patient-reported disease severity and quality of life among Arabic psoriatic patients: a cross-sectional survey. Clinical, Cosmetic and Investigational Dermatology. 2020;13:601. doi: 10.2147/CCID.S269909
- Mansour NO, Mohamed AA, Hussein M, Eldemiry E, Daifalla A, Hassanin S, Nassar N, Ghaith D, Salah EM. The impact of vitamin D supplementation as an adjuvant therapy on clinical outcomes in patients with severe atopic dermatitis: A randomized controlled trial. Pharmacology research & perspectives. 2020 Dec;8(6):e00679. doi: 10.1002/prp2.679
- Elnaem MH, **Mansour NO**, Nahas AF, Baraka MA, Elkalmi R, Cheema E. Renal outcomes associated with the use of non-insulin antidiabetic pharmacotherapy: a review of current evidence and recommendations. International Journal of General Medicine. 2020;13:1395. doi: 10.2147/IJGM.S285191
- **Mansour NO**. Validated RP-HPLC method for quantification of doxazosin in human plasma: Application in a bioequivalence study. InAnnales pharmaceutiques francaises 2020 Jan (Vol. 78, No. 1, pp. 42-48). DOI: 10.1016/j.pharma.2019.10.003

2019



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- Hamdan AM, Al-Gayyar MM, **Shams ME**, Alshaman US, Prabahar K, Bagalagel A, Diri R, Noor AO, Almasri D. Thymoquinone therapy remediates elevated brain tissue inflammatory mediators induced by chronic administration of food preservatives. Scientific Reports. 2019;9. doi: 10.1038/s41598-019-43568-x
- Arneth B, Arneth R, **Shams M**. Metabolomics of Type 1 and Type 2 Diabetes. International Journal of Molecular Sciences. 2019 May;20(10). doi: 10.3390/ijms20102467
- **Shams M**. Pharmacogenetics: Are We Ready For the Era of Personalized Medicine?. Clinical Journal of Diabetes Care and Control 2019, 2(2): 180024.
- **Shams M**. Pharmacogenetics in Clinical Practice. Acta Scientific Pharmaceutical Sciences 3.7 (2019): 29-30.
- Warren RB, Marsden A, Tomenson B, Mason KJ, **Soliman MM**, Burden AD, Reynolds NJ, Stocken D, Emsley R, Griffiths CE, Smith C. Identifying demographic, social and clinical predictors of biologic therapy effectiveness in psoriasis: a multicentre longitudinal cohort study. The British Journal of Dermatology. 2019 May;180(5):1069. doi: 10.1111/bjd.16776

Links for faculty members and support staff on Scopus

	Name	Scopus link
1	Prof. Dr. Mohamed Elhusseiny Shams	https://www.scopus.com/authid/detail.uri?authorId=864 5700500
2	Dr. Moetaza Mahmoud Soliman	https://www.scopus.com/authid/detail.uri?authorId=371 17707100&eid=2-s2.0-79952359578
3	Dr. Noha Osama Mansour	https://www.scopus.com/authid/detail.uri?authorId=550 44326700



Links for faculty members and support staff on Google scholar

	Name	Google scholar link
1 Prof. Dr. Mohamed Elhusseiny Shams 2 Dr. Moetaza Mahmoud Soliman		https://scholar.google.com/citations?user=5TNCzN4AAA AJ&hl=en
		https://scholar.google.com.eg/citations?user=5reDvhcAA AAj&hl=en
3	Dr. Noha Osama Mansour	https://scholar.google.com/citations?user=uu1- Cy4AAAAJ&hl=en
4	Ph. Mona Mohamed Eltamalawy	https://scholar.google.com.eg/citations?user=DPFqPfIAA AAJ&hl=en
5	Ph. Noha Ashraf Kamel	https://scholar.google.com/citations?hl=en&user=Tyu5kZ gAAAAJ&sortby=title&view_op=list_works&gmla=AJsN- F6ydqAk19GHz1D3- KhfHansLnn0XPyWH6avU0RiLkHgccjSqMYvufLo8EnzOmB gD0- 5bDxVx4BhPNr424WUm9n88WxliAO8a8TtbE3OMCRtqbh b41g

Links for faculty members and support staff on ORCID

	Name	ORCID
1	Prof. Dr. Mohamed Elhusseiny Shams	https://orcid.org/0000-0003-2392-2852
2	Dr. Moetaza Mahmoud Soliman	https://orcid.org/0000-0002-8651-9385



3	Dr. Noha Osama Mansour	https://orcid.org/0000-0002-4448-994X
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Courses, workshops, seminars and conferences

2019-2020

Name	Courses, workshops,	Date	Place
	seminars and conferences.		
Prof. Dr. Mohamed Elhusseiny Shams	Teaching Excellence in Egyptian Pharmacy Education.	April 2020- January 2021 (2 workshops every 2 months)	Online - Egyptian Knowledge Bank
	Preparation of test items and question banks.	2020	Faculty of pharmacy, Mansoura university
	Methods of measurement, evaluation and preparation of the test item - the health sector.	23- 24/9/2020	Online
	Training course on the rights and duties of faculty members.	10- 13/11/2020	University development center, Mansoura University
Dr. Moetaza Mahmoud Soliman	2 nd international Conference of Pharmaceutical Sciences – Mu-Pharm 2019	10-11 April 2019	Main Conference Hall of Mansoura University Administration building
	Crisis and disaster management	25-26 June 2020	Faculty and Leadership Development Project
	Designing personal websites for faculty members	August 22- 23, 2020	(FLDP) Online . University
	The quality of performance	5- 6	Development Center -



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	in the scientific departments	September	Mansoura University
		2020	
	Scientific search engines and	19-20	
	university ranking methods	September 2020	
	Methods of measurement	23-24	Online. The health
	and evaluation and the	September	sector - the National
	preparation of the test item	2020	Center Measurement
	- the health sector - the		and Evaluation
	National Center		
	Measurement and		
	Evaluation		
	A workshop entitled:	24-25	Faculty of pharmacy,
	"Preparation of the test	February	Mansoura university
	item"	2020	
	Workshop entitled: "Bank of	9-10	
	Questions and Electronic	February	
	Tests"	2020	
	Workshop entitled:	February 4,	
	Application of pharmacy	2019	
	NARS: from content to		
	competency based on		
	National Academic		
	Standards (NARS), Pharmacy		
	Education 2nd Edition.		
Dr. Noha	Systematic review and meta-		Trust research center
Osama Mansour	analysis	November	
Walisoal		2019	
	Design and production of	6-7 July 2020	Faculty and Leadership
	electronic courses		Development Project
	Test item preparation	August 6-7,	(FLDP) Online .
		2020	University
	Digital transformation	September	Development Center -
		23-24, 2020	Mansoura University
	Parenteral nutrition: clinical	December 5,	Saudi society of clinical
	and practical considerations	2020	pharmacy



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Mostafa	Clinical Scholars Research	1/2021	Harvard Medical
Sharaf Eldin	Training (CSRT) program		School, Harvard
			University
	Critical care course	8/2020	The American Society
			of Health-System
			Pharmacists (ashp)
	Introduction to the	7/2020	Office of Clinical
	Principles and Practice of		Research, National
	Clinical Research 2019-2020		Institutes of Health
			(NIH)
	Principles of Clinical	7/2020	Office of Clinical
	Pharmacology 2019-2020		Research, National
			Institutes of Health
			(NIH)
	Clinical Research ethics	3/2019	The Middle East
	workshop		Research Ethics
			Training Initiative
			(MERETI), Faculty of
			Medicine, University of
			Maryland
	Quantitative Research in the	March 5,	Ethics Consultation
	Social Sciences	2020	Services
	Qualitative Research in the	March 6-7,	Ethics Consultation
	Social Sciences	2020	Services
	- Research ethics	12/2019	
	- National and international	1/2020	Faculty and Leadership
	competitive research		Development Project
	projects		(FLDP), Mansoura
	- Scientific publication	5/2020	University
	- Statistical analysis skills	8/2020	
	- Designing and production of electronic curricula	12/2020	
	- Using Technology in	1/2021	
	Education	_, _,	
Mona	Quality standards in the	29-30 June	Faculty and Leadership
Mohamed	teaching process	2020	Development Project



Eltamalawy	Designing personal websites for faculty members	September 26-27, 2020	(FLDP) Online . University Development Center - Mansoura University
Khalid Mohamed Kotb	Attendee at Elsevier workshop of Evidence Base Medicine for Clinical Practice of COVID-19	May 2020	Online Webinar
	Attendee at Elsevier Modern Knowledge Cycle: Scopus (90 minutes)	May 2020	Online Webinar
	University Code of Ethics (10 credit hours) as part of	May 2020	Faculty and Leadership Development Project
	How to write a Scientific Paper (10 credit hours)	August 2020	(FLDP) Online . University Development Center - Mansoura University
	Course Certificate for Design and Interpretation of Clinical Trials – Coursera	August 2020	Online Course

2021

Name	Courses, workshops, seminars and conferences.	Date	Place
Dr. Moetaza Mahmoud Soliman	Elsevier-NRC guide course for reviewers (Initial handling of a manuscript and essential ethical aspects).	22 March 2021	Online
	"Preparation of the test item" for the medical sector within the national system for electronic exams.	26 -27 April 2021	Online. The health sector - the National Center Measurement and Evaluation
	Design and production of electronic courses	5- 6 May 2021	Faculty and Leadership Development Project
	The art of successful	28-29 June	(FLDP) Online .



leadership	2021	University Development
Organizing scien	tific December	Center - Mansoura
conferences	28-29, 2021	University

Participation in the college committees and reciprocal relations with the college

administration

Academic year 2019-2020

Name	Participation in the college committees and exchange relations with
Name	the college administration and other departments
	College council member
Prof. Mohamed Elhusseiny Shams	Member of the Graduate Studies Committee
	Member of the Scientific Research Ethics Committee
•	Member of the Scientific Journal Committee of the College
Dr. Mootogo	Member of the Graduate Studies Committee for the academic year 2019-2020
Dr. Moetaza Mahmoud Soliman	Member of the Admission Coordination Committee for Postgraduate Programs
	Fourth level control member
	Academic supervisor for first level students
Dr. Noha Osama Mansour	Control member of the second level
	Providing 2 training courses for first aid credit hour students
	Providing 9 training courses for clinical pharmacy students
Ph. Mostafa Sharaf Eldin	Academic advisor in the Doctor of Pharmacy program in clinical
	pharmacy
	Member of Control Clinical Pharmacy Diploma Program
	Purchasing Committee
Ph. Mona Mohamed	Egypt Government Excellence Award Team
	Strategic Planning Standard Team
Eltamalawy	The Scientific Committee of the Ninth Student Conference
	Fourth level control member
	Member of the Egypt Government Excellence Award team (innovation
	axis)
Ph. Noha Ashraf Kamel	Member of the Scientific Research Standard Team of the Quality
	Assurance Unit
	Member of the Control Clinical Pharmacy Program
	29



	Member of the College Committee to organize the "Eighth Scientific Conference for Students" 2020	
	Member of the college committee to develop the scientific research standard, 2019	
	Member of the College's Marketing Committee, 2019	
	Member of the faculty committee on "Egypt Vision 2030", 2019	
Ph. Khalid Mohamed	Member of the faculty committee on "Egypt Vision 2030", 2020	
Kotb	Member of the College Committee to organize the "Eighth Scientific	
	Conference for Students" 2020	
	Supervisor in the virtual pharmacy	
	Supervisor at Scientific Journal Club	
	Fourth level control member	
Ph. Samar Abdelrhim	Member of Control of Clinical Pharmacy Program	
Dwedar	Weinder of Control of Chinear Final flacy Frogram	
Ph. Israa Abd-Elfatah	Member of Control of Clinical Pharmacy Program	
Haroon	Without of Control of Chinical Final flacy Flogram	

Academic year 2020/2021

Name	Participation in the college committees and exchange relations with
Tunic	the college administration and other departments
	Member of the Graduate Studies Committee
Prof. Mohamed	Member of the Scientific Research Ethics Committee
Elhusseiny Shams	Head of the clinical pharmacy and pharmacy practice department
J	Member of College council
	Member of the Cultural Relations Committee
Dr. Moetaza	Member of the Admission Coordination Committee for Postgraduate
Mahmoud Soliman	Programs
	Fourth level control member
	Academic supervisor for first level students
	Control member of the fourth level
Dr. Noha Osama	Member of the Committee of Education and Student Affairs
Mansour	Member of the College Committee to organize the "Ninth Scientific
	Conference for Students" 2021
	Providing 2 training courses for first aid credit hour students
Ph. Mostafa Sharaf Eldin	Providing 2 training courses for clinical pharmacy students
	Member of Control Clinical Pharmacy Diploma Program
	The Scientific Committee of the Ninth Student Conference
Dh. Mana El tamalayyy	Quality Assurance Unit Coordinator in the department
Ph. Mona El-tamalawy	Purchasing Committee
	Fourth level control member



Ph. Noha Ashraf Kamel	The Scientific Committee of the Tenth Student Conference
Fii. Nona Asiirai Kaiilei	Member of Control of Clinical Pharmacy Program
Ph. Khalid Mohamed	Fourth level control member
Kotb	The Scientific Committee of the Ninth Student Conference
Koto	Faculty journal club member
Ph. Samar Abdelrhim	Member of Control of Clinical Pharmacy Program
Dwedar	Member of Control of Clinical Pharmacy Program
Ph. Israa Abd-Elfatah	Member of Control of Clinical Pharmacy Program
Haroon	Member of Control of Clinical Pharmacy Program

Academic year 2021/2022

Name	Participation in the college committees and exchange relations with
Name	the college administration and other departments
	Head of the clinical pharmacy and pharmacy practice department
Prof. Mohamed	Member of College council
Elhusseiny Shams	Member of the Cultural Relations Committee
•	
	Member of the Graduate Studies Committee for the academic year 2021/2022
	Member of the Admission Coordination Committee for Postgraduate
Dr. Moetaza	Programs
Mahmoud Soliman	Fourth level control member
	Member of the Scientific Research Ethics Committee
	Department Research Coordinator
	Plagiarism Detection Program (Turnitin) Coordinator
Da Naha Osama	Control member of the fourth level
Dr. Noha Osama	Member of the Committee of Education and Student Affairs
Mansour	The Scientific Committee of the Tenth Student Conference
Ph. Mostafa Sharaf Eldin	Member of Control Clinical Pharmacy Diploma Program
Ph. Mona Mohamed El-	Quality Assurance Unit Coordinator in the department
	The Scientific Committee of the Tenth Student Conference
tamalawy	Fourth level control member
	Quality Assurance Unit Coordinator in the department for clinical
	pharmacy program
Ph. Noha Ashraf Kamel	The Scientific Committee of the Tenth Student Conference
	TRSO member
	Member of Control of Clinical Pharmacy Program
Ph. Khalid Mohamed	Fourth level control member
	The Scientific Committee of the Ninth Student Conference
Kotb	Faculty journal club member



Ph. Samar Abdelrhim Dwedar	Member of Control of Clinical Pharmacy Program
Ph. Israa Abd-Elfatah Haroon	Member of Control of Clinical Pharmacy Program

Seminars and conferences held by the department during the academic year 2019-2021

The department has set up 8 seminars prior to registration for the master's and doctoral degrees in the department, two of them for registration for the doctoral degree, and six seminars for registration for the master's degree.

The department's achievements for the academic year 2019-2020

- 1- Appointment of a teacher (Dr. Noha Osama Mansour), a professor (Dr. Mohammad Elhusseiny El-Sebaie Shams) and a secretariat for the department, and thus the administrative and organizational structure of the department was formed.
- 2- Ph.D. registration for 2 assistant lecturers.
- 3- Registration for a master's degree for 5 demonstrators and a clinical pharmacist as an external student.
- 4- The department won the second place: the best educational platform at the level of the credit hours program and the Pharm D (Course: Clinical Pharmacy).
- 5- The department won the third place for the best educational platform at the level of the College of Pharmacy for the first semester 2020-2021.
- 6- Submitting a proposal to change the name of the department from the Department of Pharmacy Practice to the Clinical Pharmacy and Pharmacy Practice Department.



The department's achievements for the academic year 2020-2021

- 1- Appointing 4 new demonstrators in the department.
- 2- Submitting 1 master's thesis for discussion and judgment.
- 1- Registration for a master's degree for 2 demonstrators and a clinical pharmacist as an external student.
- 3- The department won the first place: the best educational platform at the level of the credit hour program and the pharm de (Course: Clinical Pharmacy Practical).
- 4- The department won the first place: the best educational platform at the level of the credit hour program and the Pharm D (Course: Medical Terminology Theoretical).
- 5- The department won the first place for the best educational platform at the level of the College of Pharmacy for the first semester 2021/2022.
- 6- Changing the name of the department from the Pharmacy Practice Department to the Clinical Pharmacy and Pharmacy Practice Department.
- 7- The department's research laboratory was equipped and a minus 80-degree refrigerator was purchased to store blood and plasma samples.

The proposed plan for improvement

1. Increasing financial support for scientific research



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- 2. Work on the completion and equipping of a research laboratory for the department
- 3. Periodic updating of the scientific content and practical exercises for the courses taught by the department

Department logo



Head of the department

The department council approval date

Prof. Dr. Mohamed Elhussieny Shams

8/3/2022