Samar Omar Karout, Pharm.D, M.Sc.

Assistant Professor

Pharmacy Practice Department

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BIOGRAPHY

Dr. Samar Karout holds the position of Assistant Professor within the Faculty of Pharmacy at Beirut Arab University (BAU). Her academic journey commenced at BAU, where she earned a Bachelor Degree in Pharmacy in 2013. She subsequently achieved a Doctor of Pharmacy degree with distinction in 2015 and furthered her academic pursuits with the attainment of a Master's in Clinical Pharmacy in 2021, and earned her PhD in Clinical Pharmacy in 2026.

Dr. Karout has actively contributed to the development, designing and delivery of several didactic and experiential clinical courses in the pharmacy practice department. Beyond this, she serves as a clinical preceptor, dedicating her efforts to the training of senior pharmacy students in diverse affiliated hospitals. Dr. Karout has also played an integral role in the facilitation of professional development workshops and the implementation of objective structured clinical examinations (OSCE). Her commitment extends to the orchestration and execution of public health initiatives and professional development workshops.

Dr. Karout's research pursuits revolve around the domains of social pharmacy and global health, with a specific focus on addressing the needs of vulnerable refugees and host community members in Lebanon. Her research output is characterized by 41 publications in peer-reviewed journals (2524 citations) and her supervision of multiple undergraduate student research projects. Notably, she has forged a network of collaboration with academic researchers from the Middle East and North Africa (MENA) region, emphasizing regional studies aimed at evaluating patient care practices.Furthering her international reach, Dr. Karout has established a productive collaboration with clinical experts from France. Their collective efforts are channeled into research endeavors on vulnerable nationals and refugees in Lebanon. She welcomes opportunities for research collaboration on relevant projects at national and international levels.

EDUCATION

Currently Pursuing for an American Board Certification in Cardiology Pharmacy (ACCP/ASHP BCCP)

PhD in Clinical Pharmacy in 2026

MSc Degree in Clinical Pharmacy, Beirut Arab University, Beirut, Lebanon, 2022 **(Thesis: Assessing the Provision of Pharmaceutical Care to COVID-19 patients: A Simulated Patient Study).**

Doctor of Pharmacy Degree, Beirut Arab University, Beirut, Lebanon, 2016. **(Thesis: Prescribing Patterns of different antihypertensive classes and adherence to JNC8 treatment guidelines among a Lebanese sample).**

Diploma equivalency and validation in Brazil at Universidade de São Paulo USP, 2015.

B.S. in Pharmacy Degree, Beirut Arab University, Beirut, Lebanon, 2013, with a **GPA: 3.68/4.00.**

Further Education

Work Ready Now course training for trainers-USAID/Lebanon Higher Education Capacity Development Program, December 2021.

Psychological First Aid Course – John Hopkins University, November 2020.

Medical Research Lecture Series Certificate, Clinical Research Institute (CRI), American University of Beirut (AUB), Summer 2024.*Focus: Research ethics, literature search, study design selection, proposal writing, and statistical analysis.*

Membership of Professional Bodies

Lebanese Order of Pharmacists **(OPL).**
Member at American College of Clinical Pharmacy **(ACCP).**
Sindicato dos Farmacêuticos no Estado de São Paulo **(SINFAR/SP).**

PROFESSIONAL EXPERIENCE

From 2016 till Present

Assistant Professor
- Develops and delivers courses.
-Mentoring of senior pharmacy students assigned to rotate in the affiliated hospitals.
-Moderate the communication between the faculty and the affiliated experiential sites.

-Participates in the organization and execution of faculty events.
-Contributes in developing and updating pharmacy experiential manuals.
-Delivers lectures and workshops for the professional development program.
-Implements new teaching strategies and assessment methodologies in the delivered courses.
-Participates in presenting the Faculty's achievements and best practices during the cyclic.

-Canadian Council for Accreditation of Pharmacy Programs (CCAPP) Site Executive Director Visits.
-Develops toolkits to provide medical teams at hospitals with an up-date, reliable & easy to use sources of medical information in order to optimize evidence-based practices.
-Participates in developing and organizing the objective structure clinical examination 'OSCE' a graduation requirement.
-Delivers online webinars to the Lebanese Pharmacy Students' Association (LPSA).
-Advising students in educational and career plans, and making appropriate course selection.

Course Coordinator, Pharmacotherapeutics I (PHAR 374) **(GI, Pulmonary and Rheumatological disorders). From 2018 till present.**

Course Coordinator, and Clinical Instructor, Integrated Case Based Learning Course I (ICBL-I PHAR376) (GI, Bone and Pulmonary Disorders). From 2018 till present.

Clinical Preceptor, Pharmacy Practice Experience V (PHAR 577), **at Sahel General Hospital** in the Internal Medicine Unit and Cardiology Unit. **From 2018 till present.**

Clinical Instructor, Pharmacy Practice I (PHAR 275) **(Ethics in Pharmacy Practice, Lebanese Health Care System and Professional Communication Skills essential for provision of patient Care). From 2018 till 2024.**

Course Coordinator for Pharmacotherapeutics II (PHAR 464). (Cardiovascular disorders, and Urologic disorders**). From 2024 till present.**

Course Coordinator, Pharmacotherapeutics IV (PHAR 474) **(Women's Health & Endocrinological Disorders). From 2020 till 2021.**

Instructor, Work Ready Now University Elective Course (WRNL200) **(Provides students with foundational soft skills and work-based learning experiences to prepare them for success in the work place) in 2021.**

Academic Student Advising. From 2018 till present.

Clinical Preceptor, Pharmacy Practice Experience V (PHAR 577) at Rafik Hariri

University Hospital in the Internal Medicine Unit and Cardiology Unit. **From 2018 to 2020.**

Interprofessional Education (IPE) Facilitator (It has the objective to cultivate collaborative practice for providing patient-centered care). From 2018 to 2021.

Summer 2018 & 2019

Clinical Preceptor, Pharmacy Practice Experience III and IV (**Instructed level 3 and level 4 pharmacy students during their summer training).**

Course Coordinator, Pharmacy Practice Experience III (PHAR- 380)-**Summer 2018.**

Fall/Spring 2017-2018

Clinical Preceptor, PharmD Program at Rafik Hariri University Hospital **(Mentoring post-graduate students during their Hospital Rotation).**

Clinical Instructor, Integrated Case Based Learning Course I (ICBL-I PHAR376) (**GI, Bone and Pulmonary Disorders).**

Clinical Preceptor, Pharmacy Practice Experience VI (PHAR 577) **(Community setting).**

Interprofessional Education (IPE) Facilitator (It has the object to cultivate collaborative practice for providing patient-centered care).

Summer 2017

Executive Course coordinator, Pharmacy Practice Experience III.

Clinical Preceptor, Pharmacy Practice Experience III and IV (**Instruct and guide level 3 and level 4 pharmacy students during their summer training).**

Summer 2016

Clinical Preceptor, Pharmacy Practice Experience I, II, III and IV (**Instruct and guide level 1, 2, 3 and level 4 pharmacy students during their summer training).**

Community Pharmacist at Abdelmassih Pharmacy, Awkar, Lebanon.
Provision of patient care/Prescription of OTC medications for minor ailments/Inventor. From 2015 to 2017.

PUBLICATIONS

Published Manuscripts:

1. Mukattash TL, Jarab A, Abu-Farha R, Itani R, **Karout S**. (2022). The effect of the emerging omicron variant on the willingness to take or continue with COVID-19 vaccination in the Middle East. Journal of Applied Pharmaceutical Sciences, In Press;1-8.

2. **Karout, S**., Khojah, H. M. J., Itani, R*., Jaffal, F., & El-Lakany, A. (2022). Assessing the pharmaceutical care provision to suspected COVID-19 patients in community pharmacies: a simulated patient study. BMC Health Services Research, 22(1), 467.

3. Itani, R***.,** Soubra, L., **Karout, S.,** Rahme, D., Karout, L., & Khojah, H. M. J. (2022). Primary Dysmenorrhea: Pathophysiology, Diagnosis, and Treatment Updates. Korean J Fam Med, 43(2), 101–108.

4. **Karout, S**., Khojah, H. M. J., Karout, L., & Itani, R*. (2022). A nationwide assessment of community pharmacists ' attitudes towards dispensing errors : A cross-sectional study. Journal of Taibah University Medical Sciences, In press, 1–8.

5. Mukattash, T. L., Alkhalidy, H., Alzu'bi, B., Abu-Farha, R., Itani, R**., Karout, S.,** Khojah, H. M. J., Khdour, M., El-Dahiyat, F., & Jarab, A. (2022). Dietary supplements intake during the second wave of COVID-19 pandemic: A multinational Middle Eastern study. European Journal of Integrative Medicine, 49, 102102.

6. **Karout, S**., Soubra, L., Rahme, D., Karout, L., Khojah, H. M. J., & Itani, R*. (2021). Prevalence, risk factors, and management practices of primary dysmenorrhea among young females. BMC Women's Health, 21(1), 392.

7. Itani, R., Khojah, H. M. J., Jaffal, F., Rahme, D., Karout, L., & **Karout, S*.** (2021). Provision of pharmaceutical care to suspected high-risk COVID-19 patients through telehealth: a nationwide simulated patient study. BMC Health Services Research, 21(1), 997.

8. COVIDSurg Collaborative, G. C. (2022). SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study. Anaesthesia, 77(1), 28–39.

9. Khojah, H. M. J., Itani, R., Mukattash, T. L., **Karout,S.,** Jaffal, F., & Abu-Farha, R. (2021). Exposure of Community Pharmacists to COVID-19: A Multinational Cross- Sectional Study. Journal of Taibah University Medical Sciences, 16(6), 920–928.

10. Mukattash, T. L., Jarab, A. S., Al-Qerem, W., Abu Farha, R. K., Itani, R**., Karout, S**., Mukattash, I. L., & Basheti, I. (2021). COVID-19 Patients' Views and Experiences of Pharmaceutical Care Services in Lebanon. International Journal of Pharmacy Practice, 30(1), 82–85.

11. COVIDSurg Collaborative, G. C. (2021). Effects of pre-operative isolation on postoperative pulmonary complications after elective surgery: an international prospective cohort study. Anaesthesia, 76(11), 1454–1464.

12. Abu-Farha, R., Mukattash, T., Itani, R., **Karout, S**., Khojah, H., Al-Mahmood, A., & Alzoubi, K. (2021). Willingness of Middle Eastern Public to Receive COVID-19 Vaccines. Saudi Pharmaceutical Journal, 29(7), 734–739.

13. Chowdhary, A., Nirwan, L., Abi-Ghanem, A. S., Arif, U., Lahori, S., Kassab, M. B., **Karout, S.** O., Itani, R. M., Abdalla, R., Naffaa, L., & Karout, L. (2021). Spontaneous Pneumomediastinum in Patients Diagnosed with COVID-19: a Case Series with Review of Literature. Academic Radiology, 28(11), 1586–1598.

14. COVIDSurg Collaborative, & G. C. (2021). Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study. Anaesthesia, 76(6), 748–758.

15. Itani, R., **Karout, S.,** Khojah, H. M. J., Jaffal, F., Abbas, F., Awad, R., Karout, L., Abu-Farha, R., Kassab, M. B., & Mukattash, T. L. (2021). Community Pharmacists' Preparedness and Responses to COVID-19 Pandemic: A Multinational Study. International Journal of Clinical Practice, 75(9), e14421.

16. COVIDSurg Collaborative, G. C. (2021). SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study. The British Journal of Surgery, 108(9), 1056–1061.

17. Mukattash, T. L., Jarab, A. S., Al-Qerem, W., Abu Farha, R. K., Itani, R**., Karout, S.,** Mukattash, I. L., & Basheti, I. (2021). Providing pharmaceutical care during the COVID-19 pandemic: attitudes and experiences of home-treated patients in Jordan. Journal of Pharmaceutical Health Services Research, 12(2), 321–324.

18. Soubra L, **Karout S.** Dispensing errors in Lebanese community pharmacies: incidence, types, underlying causes, and associated factors. Pharm Pract (Granada). 2021 Jan-Mar;19(1):2170. doi: 10.18549/PharmPract.2021.1.2170. Epub 2021 Mar 2. PMID: 33727991; PMCID: PMC7939114.

19. Itani, R., **Karout, S.,** Khojah, H. M. J., Rabah, M., Kassab, M. B., Welty, F. K., AlBaghdadi, M., Khraishah, H., El-Dahiyat, F., Alzayani, S., Khader, Y. S., Alyahya, M. S., Alsane, D., Rana, A.-

F., Mukattash, T. L., Soukarieh, T., Fawzi Awad, M., Awad, R., Wehbi, A., Karout, L. (2022). Diverging levels of COVID‐19 governmental response satisfaction across middle eastern Arab countries: a multinational study. BMC Public Health, 1–12.

20. Rana, A.-F., Itani, R**., Karout, S.,** & Alefishat, E. (2022). Evaluation of Drug Use Pattern in Pediatric Outpatient Clinics in a Tertiary Teaching Hospital Using WHO drug-prescribing Indicators. Journal of Multidisciplinary Healthcare, 1–9.

21. Rana, A.-F., Alzoubi, K., Alkhawaldeh, R., Itani, R., **Karout, S.,** & Mukattash, T. L. (2022). Home Delivery of Medications Post COVID-19 Pandemic: Community Pharmacists' Perspectives on the Pros and Cons of the Service . Journal of the American Pharmacists Association.

22. Tareq L Mukattash, Anan S Jarab, Walid Al-Qerem, Rana K Abu Farha, Rania Itani, **Samar Karout,** Ibrahim L Mukattash, Iman Basheti, Providing pharmaceutical care during the COVID-19 pandemic: attitudes and experiences of home-treated patients in Jordan, *Journal of Pharmaceutical Health Services Research*, Volume 12, Issue 2, June 2021, Pages 321–324.

23. Abu-farha, R., Alzoubi, K. H., Mukattash, T., **Karout, S**., Itani, R., Nassar, R. I., & Barakat, M. (2023). Public perceptions about home delivery of medications service in Lebanon : A cross-sectional survey. Electronic Journal of General Medicine, 20(1), em430-37.

24. Itani, N., Domiati, S**., Karout, S**., M J Khojah, H., Awad, R., & Itani, R*. (2022). Upscaling the pharmacy profession: Knowledge and willingness of the Lebanese pharmacists to practice the administration of dermal fillers. Saudi Pharmaceutical Journal, 30(11), 1543–1551.

25. Abu-Farha R, Alzoubi K, Rizik M, **Karout S,** Itani R, Mukattash TL, et al. Public Perceptions about Home Delivery of Medication Service and Factors Associated with the Utilization of this Service in Jordan. Patient Prefer Adherence. 2022;16:2259—2269.

26. Mukattash, T. L., Khairallah, K., Daradkeh, H., Jarab, A. S., Abu-Farha, R., Nusair, M., **Karout, S.,** & Itani, R. (2023). A qualitative exploration of children's willingness to take the COVID-19 vaccine in Jordan. Journal of Applied Pharmaceutical Science, 1–6.

27. NIHR Global Health Unit on Global Surgery, & COVIDSurg Collaborative. (2022). Articles Elective surgery system strengthening : development , measurement , and validation of the surgical preparedness index across 1632 hospitals in 119 countries. The Lancet, 400, 1607–1617.

28. Gaba, F., Bizzarri, N., Kamfwa, P., Saiz, A., Blyuss, O., Paranjothy, S., & Go SOAR Team. (2021). Determining post- - operative morbidity and mortality following gynecological oncology surgery : protocol for a multicenter , international , prospective cohort study (Global Gynaecological Oncology Surgical Outcomes Collaborative — GO SOAR). International Journal of G, 31(9), 1287–1291.

29. Itani, R., Khojah, H.M., **Karout, S**. *et al.* Oral contraceptive pills shortage in Lebanon amidst the

economic collapse: a nationwide exploratory study. *BMC Health Serv Res* **23**, 520 (2023). https://doi.org/10.1186/s12913-023-09523-3

30. Hammour, K.A., Abu-Farha, R., Itani, R. **Karout, S**. *et al.*The prevalence of Carbapenem Resistance Gram negative pathogens in a Tertiary Teaching Hospital in Jordan. BMC Infect Dis 23, 634 (2023). https://doi.org/10.1186/s12879-023-08610-4

31. Itani, R., Khojah, H.M.J., **Karout, S.** et al. Acinetobacter baumannii: assessing susceptibility patterns, management practices, and mortality predictors in a tertiary teaching hospital in Lebanon. Antimicrob Resist Infect Control 12, 136 (2023). https://doi.org/10.1186/s13756-023-01343-8

32. Deema Rahme, Rania Itani, Samar Karout, Hani MJ Khojah, and Abdalla El-Lakany. Community Pharmacists' Commitment to Preventive Measures during the COVID-19 Pandemic in Light of the Economic Crisis in Lebanon: A Simulated-Client Study. Journal of Public Health Research.

33. Rania Itani, Lina Karout, Mohamad B Kassab, **Samar Karout,** Makram Rabah, H El Mais. A crisis amidst many others: COVID-19 response satisfaction during the economic collapse and post-beirut port explosion in Lebanon. J Public Health Dev.(2024) 22(1), 12-21.

34. Abu-Farha R, Alzoubi KH, Mukattash T, **Karout S**, Itani R, Nassar RI, Barakat M. Public perceptions about home delivery of medications service in Lebanon: A cross-sectional survey. Electron J Gen Med. 2023;20(1):em430. https://doi.org/10.29333/ejgm/12635.

35. Klodia Haithem Ayoub1 , Tareq L. Mukattash2 , Anas A Al-Nabulsi1 , Hani M J Khojah3 , Rana Abu-Farha4 , Salman Alzayani5 , Faris El-Dahiyat6,7, Eman Alefishat8-10, Anmar AL-TAIE11, **Samar Karout12**, Amna K. Al-Hashar13, Deema Rahme12, Anan S Jarab2 , Rania Itani12*. Factors associated with children's dietary patterns during COVID19 pandemic lockdown: a multinational study across Middle Eastern Arab Nations. Journal of Public Health and Development. (2023). 21(3)

36. **Karout, S.,** Khojah, H.M., Mukattash, T.L. et al. Knowledge, attitudes, and practices of refugee women in Lebanon towards contraception use and family planning: insights from vulnerable populations. BMC Women's Health 25, 597 (2025). https://doi.org/10.1186/s12905-025-04140-0

Submitted Manuscripts:

Citations: 2095
h-index: 18
i-10 index: 23

GRANTS

Proposal submission and fund request to the CNRS (National Council for Scientific Research) in collaboration with the **ANR (French National Research agency).**
-Amount: 100,000 **€** to fund the study entitled "Nationwide Assessment of the Impact of the Economic Crisis and COVID-19 Pandemic on the Prevalence of Mental Disorders, Suicidal Ideation, and Substance Abuse in Vulnerable Population in Lebanon" **(Primary Investigator).**

Thesis Supervision

- Nathalie Bahlawan, Massaad Hajjar (2023). Shortage of Cardiovascular medications in Lebanon: A call for an urgent humanitarian action
- Reem Awad & Lara Hammoud (2022). Incidence, Risk Factors, and Management Practices of *Acinetobacter baumannii* in a Lebanese Hospital (2nd supervisor)

Thesis Examiner

- Hussein Jawad (2022). Identification of Potential Drug-Drug Interactions Among Prescription Medications: A Lebanese Community Pharmacy-Based Study

COMMITTEE AND COMMUNITY SERVICE

Antibiotic Resistance Campaign: **Community Service** for the awareness campaign at **Sahel General Hospital on November 28, 2025**.

Case Management 2016:

Independently and with the collaboration of different NGOs in Lebanon, 2016.

- Worked together with Dr. Mohamad Kassab to fundraise money to cover the surgery of a Syrian refugee's baby boy (18 months) Hirschsprung disease who had the first surgery of the three- step surgery for Hirschsprung resection (Hartman's procedure).The patient was left with a colostomy in one of the worst shelters in Lebanon.

The surgery was performed, and the child is leading a normal life.

Health Promotion and Public Awareness:

Antibiotic Awareness Campaign 2019 (Rafik Hariri University Hospital in partnership with the International Committee of Red Cross).

-Participated, and supervised students in raising campaign aimed to increase awareness of antibiotic

resistance and to encourage best practices among the public, health workers and policy makers to avoid the further emergence and spread of antibiotic resistance.

-Designed Comic Case Scenarios encountered in real life, about the irrational use of antibiotics and the consequences of their misuse. Senior students simulated the scenarios.

First Aid Awareness Campaign 2019 (Rafik Hariri University Hospital in partnership with the International Committee of Red Cross).

-Participated, organized, and supervised students in the raising campaign aimed to deliver knowledge of basic life support techniques for the patient's family members that visited the hospital, and the hospital staff.

World Pharmacists Day events 2016-2019:

- Every year, on the occasion of the "World Pharmacists Day" the Faculty organizes a **patient care activity** to serve the **BAU community (Employers-Academic Staff-Students and their family members).**

-Responsible for organizing, designing the event (Selection of topics, preparation of booth design ideas, and posters, patient education tools, selection and training of students, supervising and guiding students during the event.

-Supervisor of the Cardiovascular disease Booth, and the services provided every year fall in the following categories:

-Medication reviews, estimation of patient's risks for cardiovascular events, screening for Diabetes Mellitus II, Hypertension and dyslipidaemia through measurement of BP, FBG, A1C screening, and Lipid panel.

-Counselling sessions on patient's medical condition, chronic medications and life style measurements. **Contributed in the selection of senior pharmacy students to participate in the National COVID-19 vaccination program at Rafik Hariri University Hospital.**

RESEARCH SKILLS

-Design research studies/Protocols
-Conduct Literature review
-Designing questionnaires (Microsoft Word, Google Surveys, Lime)
-IRB proposal submissions
-Recruitment of patients to clinical studies
-Recruitment of Hospitals for **International Studies**
-Manuscript preparation and submission to Peer review Journals
-Recruitment of research assistants for simulated patients studies
-Development and validation of questionnaires
-Train and supervise data collectors

ATTENDED WEBINARS

Grant Writing Webinar Series "Building a Culture of Research and Grant Funding": Higher Education Capacity Development (HECD) – June/July, 2021
-Tips and Strategies on Proposal Development, HECD – July 8, 2021
-The Benefits of Grant Writing and Sponsored Programs; HECD – July 1, 2021
-Planning and Setup of a Grant Administration Infrastructure; HECD – June 24, 2021
-Building a Culture of Research and Grant Funding, HECD – June 17, 2021

DELIVERED CONFERENCES

-Effective Patient counseling approaches: Behaviors of effective counselors; Lebanese Pharmacy Students' Association (LPSA), Beirut, Lebanon. July, 2018.

-Judge in the LPSA Symposium: Patient Care activities. Beirut, Bristol Hotel– Aug 25, 2018.

-Podcast: HIV and Ethical Issues, December 2021.

DEVELOPED TOOLKITS

Preparation and designing of informative toolkits that were distributed in the affiliated hospitals, aiming to provide practitioners with an up-to-date, reliable & easy to use source of information about commonly encountered medication therapies optimize their uses

- Heart Failure Drug Therapies Toolkit – 2019.
- The Novel oral anticoagulants Toolkit – 2019.
- Antibiotics pocket guide -2019.
- VTE Prophylaxis Algorithm – 2018.
- COPD pocket consultant guide-2018.

ACQUIRED CERTIFICATES

-Pharmacists and the Heart: Advancing Care for Patients with Cardiovascular Disease: ACCP

International Symposium (Engagement in activities to apply evidence in to daily practice), Nov 16, 2018.

-Advancing Pharmacy Education in the Middle East and the Gulf Region (Participation in workshops on Workplace based assessment), April 2018.

-Inter-professional Learning Experience (Collaboration with different health care professionals for designing thorough patient care plans).

-"Protecting Human Research Participants", National Institute of Health, Nov,2014.

-Softpharm Training course Certificate (The Specialized Software for Pharmacies), 2014.

-CPR and First aid Certification (Red Cross training), May 2013.

-Lebanese society of infectious diseases and Clinical Microbiology "Combating Resistance", April 2014.

-Research for Business Development and Improvement with the ICTN Developers of Human Potential 2015.

REFERENCES

- **Prof. Abdalla El-Lakany, PhD in Pharmaceutical Sciences**
  Dean of Faculty of Pharmacy
  Beirut Arab University (BAU), Beirut, Lebanon.
  Email Address: abdalla@bau.edu.lb
  Phone: +9611300110 Ext. 2265

- **Prof. Tareq Mukattash, PhD in Clinical Pharmacy**
  Dean of Research
  Jordan University of Science and Technology (JUST), Amman, Jordan
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  Phone: +962 7 9690 7050

- **Dr. Hani MJ Khojah, PhD in Drug Management and Policy**
  Vice Dean and Associate Professor in Clinical and Hospital Pharmacy Department
  Taibah University, Madinah, KSA
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- **Dr. Rana Abu-Farha, PhD in Clinical Pharmacy**
  Associate Professor in Clinical Pharmacy and Therapeutics Department, Faculty of Pharmacy
  Applied Science Private University, Amman, Jordan
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