

# Mohammed Zawiah

1<sup>st</sup> Jan 1987

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## EDUCATION

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### PhD in Clinical Pharmacy

2023

Universiti Sains Malaysia, Penang, Malaysia

*Dissertation title:* "Diagnosis and Management of Stroke Associated Pneumonia: A Mixed-Methods Study"

### M.SC. in Clinical Pharmacy

2017

The University of Jordan, Amman, Jordan

*Thesis title:* "Genetic Polymorphism in DPYD M166V (Rs2297595), and Response To 5-Fluorouracil and Capecitabine-Based Chemotherapy in Jordanian Patients with Colorectal Cancer"

*GPA:* (3.74/4), Rating (Excellent)

### BA in Pharmacy

2010

Thamar University, Thamar, Yemen

*GPA:* (90.7%), Rating (Excellent)

## TEACHING AND ACADEMIC EXPERTISE

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### Assistant Professor

October, 2023-Present

*Northen Boarder University, Rafha, Saudi Arabia*

### Head of Training and Research Unit

November, 2023-Present

*Northen Boarder University, Rafha, Saudi Arabia*

### Clinical Preceptor Assistant

Spring, 2020-2022

*University Sains University, Penang, Malaysia*

- Supervised Fourth-Year Pharmacy Students in the Nuclear Pharmacy Clerkship at Hospital Pulau Pinang.

### Clinical Preceptor Assistant

Fall, 2021

*University Sains University, Penang, Malaysia*

- Supervised Fourth-Year Pharmacy Students in the Oncology Clerkship at Hospital Pulau Pinang.

**Clinical Preceptor****2016-2019***The University of Jordan, Amman, Jordan*

- Taught Ambulatory Care module, and Supervised Sixth-Year Pharm-D Students in Ambulatory Care Clerkship, Which Involves Rotations in Various Clinics Such as Neurology, Rheumatology, Endocrine, Cardiology, and Respiratory Clinics at Jordan University Hospital in Jordan.

**Lecturer****2016-2019***Yemeni University of Sciences and Technology, Jordan program*

- As a Part-Time Lecturer at the College of Pharmacy, I Taught Pharmacotherapy I, III & IV, Clinical Pharmacokinetics, Clinical Toxicology, Research Methodology, Biostatistics, and Professional and Clinical Skills to 4<sup>th</sup>, and 5<sup>th</sup> Levels Pharmacy Students.

**Lecturer Assistant****2012-2014***Hodeidah University, Al-Hodeidah, Yemen*

- Taught Courses Including Pharmaceutical Analytical Chemistry Lab, Pharmaceutical Calculations, Clinical Chemistry Lab, Clinical Pharmacokinetics, and Pharmaceutics I & II Labs, for the Pharmacy Students, College of Clinical Pharmacy.

**Lecturer Assistant****2010-2012***Thamar University, Thamar, Yemen*

- Taught Course of Phytochemistry Lab for the Pharmacy Students, Department of Pharmacy.

**RESEARCH EXPERTISE**

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**Research Assistant****April-August, 2018***School of Pharmacy, the University of Jordan, Jordan*

- Project: Prevalence of QT Prolongation Among Jordanian Patients on Psychotropic Medication: Cohort Study.
- Advisor: Prof. Nailya Boulatova

**Research Assistant****March-June 2018***School of Pharmacy, the University of Jordan, Jordan*

- Project: Identification of Medication Discrepancies During Hospital Admission for Pediatric Patients in Jordan
- Advisor: Dr. Rana AbuFarha

**Research Assistant****May-September, 2017***School of Pharmacy, the University of Jordan, Jordan*

- *Projects:*

1. *Genetic Polymorphisms in Genes Encoding Enzymes Involved in Folate Pathway and Their Associations with Response to Chemotherapy among Patients with Colorectal.*
  2. *Genetic Polymorphisms of MTHFR, TYMS, DPYD and Their Associations with Susceptibility to Colorectal, Breast, and Lung Cancer.*
  3. *Microsatellite in Interleukin 10 and Interaction with CYP450 and Their Effect on the Concentration of Tacrolimus in Kidney Transplant Patients in Jordan.*
- *Advisor: Prof. Al-Motassem Fahmi*

### **Research Assistant**

**December 2016-  
January,2017**

*School of Pharmacy, the University of Jordan, Jordan*

- *Project: Genetic Polymorphism of Thiopurine S-methyltransferase in Children with Acute Lymphoblastic Leukemia in Jordan*
- *Advisor: Dr. Mervat Al Sous*

### **Research Assistant**

**April-October, 2016**

*School of Medicine, the University of Jordan, Jordan*

- *Project: Automated Prescription System for Preventing Medication Errors in Neonatal Intensive Care Unit",*
- *Advisor: Dr. Eman Badran*

## **AWARDS**

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PhD. Fellowship, Institute of Postgraduate Studies, Universiti Sains Malaysia.

**Feb, 2020- Jan 2023**

## **SKILLS**

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SPSS (advance)  
R (basic)  
RevMan (excellent)  
Meta-analysis (very good)  
Genotyping (excellent)  
DNA extraction (excellent)  
Polymerase chain reactions (excellent)

## REVIEWING EXPERIENCE (LIST OF JOURNALS)

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- European journal of hospital pharmacy
- Frontiers in Public Health,
- Antibiotics IF
- Infection and Drug Resistance
- Journal of personalized medicine
- Heliyon,
- Plos One
- International Journal of Clinical Practice
- BMC Health Services Research
- BMC Cancer

## CONFERENCES

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**Organizing Committee**, as a Scientific Committee Member in "The First International Postgraduates Conference of Pharmaceutical and Health Sciences (IPCPS) - 2022" at Universiti Sains Malaysia, Penang, **Malaysia**.

Link: <https://www.ipcphs.com/home>

**Poster Presentation:** The Association of Polymorphism in DPYD 496A>G Gene with Response to Adjuvant Chemotherapy of Colorectal Cancer.

Event: The Updates in Therapeutics® Symposium, 23-24 May 2018.

Location: ACCP, Florida, **USA**.

**Poster Presentation:** Genetic Polymorphism of Thiopurine S-methyltransferase in Children with Acute Lymphoblastic Leukemia in Jordan.

Event: The 20th Congress of the Arab Association of the Faculties of Pharmacy and the 5th of the Jordanian Faculties of Pharmacy.

Theme: The Cancer Epidemic: A Pharmacist's Perspective.

Date: 7-9 November 2017.

Location: Amman, **Jordan**.

**Presentation:** Genetic Polymorphism in DPYD M166V and C29A and Response to Fluoropyrimidine-Based Chemotherapy among Patients with Colorectal Cancer.

Event: The 4th International Conference of the School of Pharmacy-The University of Jordan.

Date: 25-27 October 2016.

Location: Amman, **Jordan**.

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## RESEARCH SUPERVISION

I am a supervisor for a PhD student, Ashar Kafaween.

**March, 2024-present**

I supervised the graduation research project of a Bachelor's degree pharmacy student in the Jordan program at the Yemeni University of Sciences and Technology.

**2018/2019**

The research title: Pharmacogenetics: Perception and Preparedness of Medical and Pharm-D Students

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## JOURNAL PUBLICATIONS

Abu Hammour, K., El-Dahiyat, F., Hyari, R., Salameh, S., Manaseer, Q., Farha, R. A., ...

**Zawiah, M\***. (2024). A retrospective analysis of the pharmacovigilance data registry in a tertiary teaching hospital in Jordan. *Journal of Pharmaceutical Policy and Practice*, 17(1). <https://doi.org/10.1080/20523211.2024.2378461>

Abu-Farha, R., Gharaibeh, L., Alzoubi, K. H., Nazal, R., **Zawiah, M.**, Binsaleh, A. Y., & Shilbayeh, S. A. R. (2024). Awareness, perspectives and practices of antibiotics deprescribing among physicians in Jordan: a cross-sectional study. *Journal of Pharmaceutical Policy and Practice*, 17(1). <https://doi.org/10.1080/20523211.2024.2378484>

Jaber, D., Younes, N., Khalil, E., Albsoul-Younes, A., **Zawiah, M.**, & Al-Bakri, A. G. (2024). Studying Microbial Ecology of Diabetic Foot Infections: Significance of PCR Analysis for Prudent Antimicrobial Stewardship. *The International Journal of Lower Extremity Wounds*, 15347346241230288.

Mohialdin, D., Abu-Farha, R., AlKhawaldeh, R., **Zawiah, M.**, & Abu Hammour, K. (2024). Audit of adherence to international guidelines (IDSA) in the treatment of infectious meningitis in pediatric patients in Jordan. *Current Medical Research and Opinion*, (just-accepted), 1-14.

**Zawiah M.**, Khan AH, Farha RA, Usman A, Al-Ashwal FY and Akkaif MA (2024) Assessing the predictive value of neutrophil percentage to albumin ratio for ICU admission in ischemic stroke patients. *Front. Neurol.* 15:1322971. doi: 10.3389/fneur.2024.1322971

**Zawiah, M.**, Al-Ashwal, F. Y., Gharaibeh, L., Abu Farha, R., Alzoubi, K. H., Abu Hammour, K., ... & Abrah, F. (2023). ChatGPT and clinical training: perception, concerns, and practice of pharm-D students. *Journal of Multidisciplinary Healthcare*, 4099-4110.

**Zawiah, M.**, Khan, A. H., Abu Farha, R., Usman, A., AbuHammour, K., Abdeen, M., & Albooz, R. (2023). Predictors of stroke-associated pneumonia and the predictive value of

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neutrophil percentage-to-albumin ratio. *Postgraduate Medicine*, 135(7), 681-689.

- Al-Ashwal, F. Y., **Zawiah, M.**, Gharaibeh, L., Abu-Farha, R., & Bitar, A. N. (2023). Evaluating the Sensitivity, Specificity, and Accuracy of ChatGPT-3.5, ChatGPT-4, Bing AI, and Bard Against Conventional Drug-Drug Interactions Clinical Tools. *Drug, Healthcare and Patient Safety*, 137-147.
- Al-Bawab, R., Abu-Farha, R., El-Dahiyat, F., Nassar, R. I., & **Zawiah, M.** (2023). A qualitative assessment of the adverse effects associated with COVID-19 vaccines: a study from Jordan. *Journal of Pharmaceutical Policy and Practice*, 16(1), 1-8.
- Abu-Farha, R., Fino, L., Al-Ashwal, F. Y., **Zawiah, M.**, Gharaibeh, L., Mea'ad, M. H., & Elhajji, F. D. (2023). Evaluation of Community Pharmacists' Perceptions and Willingness to Integrate ChatGPT into their Pharmacy Practice: A Study from Jordan. *Journal of the American Pharmacists Association*.
- Al-Bawab, R., Abu-Farha, R., El-Dahiyat, F., Nassar, R.I. and **Zawiah, M.**, 2023. A qualitative assessment of the adverse effects associated with COVID-19 vaccines: a study from Jordan. *Journal of Pharmaceutical Policy and Practice*, 16(1), pp.1-8.
- Mohammed, M., Kumar, N., **Zawiah, M.**, Al-Ashwal, F. Y., Bala, A. A., Lawal, B. K., ... & Sha'aban. Psychometric Properties and Assessment of Knowledge, Attitude, and Practice Towards ChatGPT in Pharmacy Practice and Education: a Study Protocol. *Journal of Racial and Ethnic Health Disparities*, 1-10(2023).
- Ahmed, W.S., Abu Farha, R., Halboup, A.M., Alshargabi, A., Al-mohamadi, A., Abu-rish, E.Y., **Zawiah, M.**, Al-Ashbat, Y.K. and Al-Jamei, S., Knowledge, attitudes, perceptions and practice towards seasonal influenza and its vaccine: a cross-sectional study from a country of conflict. *Frontiers in Public Health*, 2023: 11, p.271.
- Zawiah, M.**, Hayat Khan, A., Abu Farha, R., Usman, A. and Bitar, A.N., 2023. Neutrophil-lymphocyte ratio, monocyte-lymphocyte ratio, and platelet-lymphocyte ratio in stroke-associated pneumonia: a systematic review and meta-analysis. *Current medical research and opinion*, pp.1-12.  
<https://doi.org/10.1080/03007995.2023.2174327>.
- Zawiah, M.**, A. Hayat Khan, R. Abu Farha, A. Usman, A. Sha'aban, K. Abu Hammour, and Z. Almuhsen. "Diagnosis and treatment of stroke associated pneumonia: Qualitative exploration of clinicians' practice. *Electron J Gen Med*. 2023; 20 (2): em454." (2023): 2.
- Bulatova, N., Altaher, N., BaniMustafa, R., Al-Saleh, A., Yasin, H., **Zawiah, M.**, ... & Nasr, M. (2022). The Effect of Antipsychotics and Their Combinations with Other Psychotropic Drugs on Electrocardiogram Intervals Other Than QTc among Jordanian Adulttpatients. *Biomedicines*, 11(1), 13.
- Abduljabbar, R., Tamimi, D. E., Yousef, A. M., Saeed, R. M., & **Zawiah, M.** (2022). SCN1A polymorphisms influence the antiepileptic drugs responsiveness in Jordanian epileptic patients. *Journal of Medical Biochemistry*.
- Al-Najjar MAA, Al-alwany RR, Al-Rshoud FM, Abu-Farha RK, **Zawiah M\*** (2022) Menstrual changes following COVID-19 infection: A cross-sectional study from Jordan and

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Iraq. PLoS ONE 17(6): e0270537. <https://doi.org/10.1371/journal.pone.0270537>.

- Saleh, D., Farha, R. A. and **Zawiah, M.** (2022) 'Practices of community pharmacists toward antimicrobials use and the application of antimicrobial stewardship', *Journal of Applied Pharmaceutical Science*, 12(3), pp. 218–223.
- Alefishat, E., Abu Farha, R. and **Zawiah, M.** (2021) 'Pharmacists' perceptions of the use of internet-based medication information by patients: A cross-sectional survey', *PloS one*, 16(8), p. e0256031.
- Tamimi, D. E., Abduljabbar, R., Yousef, A. M., Saeed, R. M., & **Zawiah, M.** (2021). Association between ABCB1 polymorphisms and response to antiepileptic drugs among Jordanian epileptic patients. *Neurological Research*, 43(9), 724-735.
- Bitar, A. N., **Zawiah, M\***, Al-Ashwal, F. Y., Kubas, M., Saeed, R. M., Abduljabbar, R., ... & Khan, A. H. (2021). Misinformation, perceptions towards COVID-19 and willingness to be vaccinated: A population-based survey in Yemen. *PloS one*, 16(10), e0248325.
- Zawiah, M.**, Yousef, A. M., Al-Ashwal, F. Y., Abduljabbar, R., Al-Jamei, S., Hayat Khan, A., & Alkhawaldeh, B. (2021). Pharmacogenetics: A perspective and preparedness of Pharm-D and medical students in Jordan. *Pharmacogenetics and genomics*, 31(6), 125-132.
- Bulatova, Nailya, Noor Altaher, Radwan A. BANIMUSTAFA, Akram Al-Saleh, Haya Yasin, **Zawiah, M.**, Hala M. Khalefah et al. "The Effect of Psychotropic Medications and Their Combinations on the QTc Interval Among Jordanian Outpatients: A Cross-Sectional Study." *Alpha psychiatry (Online)* 22, no. 4 (2021): 177-184.
- Ahmed, A. A. A., Al-Shami, A. M., Jamshed, S., **Zawiah, M.**, Elnaem, M. H., & Ibrahim, M. I. M. (2020). Awareness of the Risk Factors for Heart Attack Among the General Public in Pahang, Malaysia: A Cross-Sectional Study. *Risk Management and Healthcare Policy*, 13, 3089.
- Al-Ashwal, F. Y., Kubas, M., **Zawiah, M.\***, Bitar, A. N., Mukred Saeed, R., Sulaiman, S. A. S., ... & Ghadzi, S. M. S. (2020). Healthcare workers' knowledge, preparedness, counselling practices, and perceived barriers to confront COVID-19: A cross-sectional study from a war-torn country, Yemen. *PloS one*, 15(12), e0243962.
- Abu Farha, R. K., Mukattash, T. L., Al-Sakran, L., Abu Hammour, K., & **Zawiah, M.** (2021). Prevalence and predictors of polypharmacy in Jordanian hospitalised patients: A cross-sectional Study. *International Journal of Clinical Practice*, 75(4), e13742.
- Zawiah, M.**, Al-Ashwal, F. Y., Saeed, R. M., Kubas, M., Saeed, S., Khan, A. H., ... & Abduljabbar, R. (2020). Assessment of healthcare system capabilities and preparedness in Yemen to Confront the novel coronavirus 2019 (COVID-19) outbreak: a perspective of healthcare workers. *Frontiers in public health*, 8, 419.
- Zawiah, M.**, Yousef, A. M., Khan, A. H., Al-Ashwal, F. Y., Matar, A., ALKhawaldeh, B., ... & Abdo Ahmed, A. A. (2020). Food-drug interactions: Knowledge among pharmacists in Jordan. *PloS one*, 15(6), e0234779.
- Yousef, A. M., Farhad, R., Alshamaseen, D., Alsheikh, A., **Zawiah, M.**, & Kadi, T. (2019).

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Folate pathway genetic polymorphisms modulate methotrexate-induced toxicity in childhood acute lymphoblastic leukemia. *Cancer chemotherapy and pharmacology*, 83(4), 755-762.

Abu Farha, R., Abu Hammour, K., Al-Jamei, S., AlQudah, R., & **Zawiah, M.\*** (2018). The prevalence and clinical seriousness of medication discrepancies identified upon hospital admission of pediatric patients. *BMC health services research*, 18(1), 1-7.

**Zawiah, M.**, Yousef, A. M., Kadi, T., Yousef, M., Majdalawi, K., Al-Yacoub, S., ... & Ajaj, A. R. (2018). Early disease relapse in a patient with colorectal cancer who harbors genetic variants of DPYD, TYMS, MTHFR and DHFR after treatment with 5-fluorouracil-based chemotherapy. *Drug metabolism and personalized therapy*, 33(4), 201-205.

**Zawiah, M.**, Mukred, R., Al-Jamei, S., Kadi, T., Al-Baidani, A., & Abu Farha, R. (2019). Pharmacists' knowledge and perceptions about pharmacovigilance and barriers towards adverse drug reactions reporting in Yemen. *Journal of Pharmaceutical Health Services Research*, 10(1), 67-72.

Al-Jamei, S., Abu Farha, R., **Zawiah, M.**, Kadi, T., & Al-Sonidar, A. (2019). Perceptions, knowledge, and perceived barriers of Yemeni pharmacists and pharmacy technicians towards evidence-based practice. *Journal of Evaluation in Clinical Practice*, 25(4), 585-590.

Yousef, A. M., **Zawiah, M.**, Al-Yacoub, S., Kadi, T., Tantawi, D., & Al-Ramadhani, H. (2018). The association of polymorphisms in folate-metabolizing genes with response to adjuvant chemotherapy of colorectal cancer. *Cancer Chemotherapy and Pharmacology*, 82(2), 237-243.

Alsous, M., Yousef, A. M., Jalil, M. A., **Zawiah, M.**, Yacoub, S., Momani, D., ... & Rihani, R. (2018). Genetic polymorphism of thiopurine S-methyltransferase in children with acute lymphoblastic leukemia in Jordan. *Asian Pacific journal of cancer prevention: APJCP*, 19(1), 199.

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## REFEREES

### **Amer Hayat Khan**

Thesis Supervisor

Assistant Professor

Discipline of Clinical Pharmacy, School of Pharmaceutical Sciences

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