

Aiman Yahya Alwadi, PharmD, MSc

College of Pharmacy, Alfaisal University

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Summary

Dr. Aiman Alwadi is a university lecturer and director of Phase-3 (Year 4 and 5) of the Doctor of Pharmacy (PharmD) program at College of Pharmacy, Alfaisal University (AU). He holds a master's degree in biotechnology (first-class honors; GPA 4.00/4.00) from College of Medicine, AU, and a PharmD degree (first-class honors; GPA 4.93/5.00) from College of Pharmacy, Qassim University. He is currently pursuing his PhD in Biomedical Sciences at AU. Dr. Alwadi has one year of clinical experience at King Faisal Specialist Hospital & Research Center in Riyadh, where he served as a PharmD intern. As Phase-3 director, he oversees academic calendar planning, course coordination, examination management, and monitors classes and students progress. As a faculty member, he teaches several undergraduate courses, including Patient Care and Health System Management Laboratory I, II, III, and IV (PCL 477, 487, 595, and 5X4), Selfcare and Non-Prescription Drugs (SCR 346), Organic and Medicinal Chemistry Laboratory (CHM 232, MCH 241), and Pharmaceutics I Laboratory (PHC 353), and co-supervises research projects for a number of undergraduate students. His research interests include synthesis and formulation of bio-derived molecules followed by optimization of their binding affinities toward several drug targets and incorporating these molecules in suitable biosensing platforms for non-invasive therapeutic drug monitoring. In addition, he studies and compare pharmacokinetics of various commercially available drugs using several in-vitro analytical techniques to understand differences in release profiles and the effects of excipients on product interchangeability.

Education



Alfaisal University

Aug 2024 – Present

PhD in Biomedical Sciences

College of Medicine
Riyadh, Saudi Arabia



Alfaisal University

Sep 2019 – Oct 2021

Master of Biomedical Sciences – Biotechnology (GPA 4/4)

College of Medicine
Riyadh, Saudi Arabia



Qassim University

Sep 2010 – May 2016

Doctor of Pharmacy (GPA 4.93/5)

College of Pharmacy
Qassim, Saudi Arabia

Appointments



Alfaisal University
Feb 2022 – Present

Lecturer of Biotechnology - Full-time
College of Pharmacy
Riyadh, Saudi Arabia



Alfaisal University
Sep 2022 – Jun 2024

OET Venue Manager – Contract
Assessment Office
Riyadh, Saudi Arabia



Alfaisal University
Nov 2021 – Jun 2024

OET Interlocutor – Contract
Assessment Office
Riyadh, Saudi Arabia



Alfaisal University
Feb 2018 – Present

Director, PharmD Program's Phase 3 - Full-time
College of Pharmacy
Riyadh, Saudi Arabia



Alfaisal University
Feb 2018 – Jan 2022

Research & Teaching Assistant - Full-time
College of Pharmacy
Riyadh, Saudi Arabia



KFSH&RC
Jun 2016 – May 2017

PharmD Intern - Full-time
Pharmaceutical Care Department
Riyadh, Saudi Arabia

Research

Publications:

1. Alwadi M. Y., **Alwadi A. Y.**, Abdulmuniem E., Omer S. A., Shalaby A. O. Methamphetamine addiction in Sudan: examining the knowledge, attitudes, and practices of 24 Al-qurashi residents—a novel cross-sectional approach.
2. **Alwadi A. Y.**, Arafeh G. M., Almehlesi M. S., Maswadeh H. M., Salman I. M., and Ameer O. Z. Comparative Analysis of Commercially Available Paracetamol Tablets in Saudi Arabia. *Dissolution Technologies*. 2022 Aug; DOI: dx.doi.org/10.14227/DT290322PGC2
3. **Alwadi A. Y.**, Selection and Characterization of DNA Aptamers for the Monitoring and Management of Apixaban-Induced Major Bleeding. *PQDT-Global*. 2022 Jan; 29321695.

4. Maswadeh H. M., Abdellatif A. H., Amin M. A., **Alwadi A. Y.**, and Ibrahim M. A. Prediction of Plasma Drug Concentration Profiles and Pharmacokinetic Parameters of Nifedipine Commercial Tablets Using the Convolution Method. *Research J. Pharm. and Tech.* 2021 Oct; 14(10):5380-4. DOI: 10.52711/0974-360X.2021.00938.
5. Ameer O. Z., Salman I. M., **Alwadi A. Y.**, et al. Regional Functional and Structural Abnormalities within the Aorta as a Potential Driver of Vascular Disease in Metabolic Syndrome. *Exp Physiol.* 2021 Mar; 106(3):771-788. DOI: 10.1113/EP089213.

Accepted articles:

1. Tobeili M., Mulla F., Adam D. R., Khanfar M. A., Abdulkarim M. F., Salman I. M., **Alwadi A. Y.** and Ameer O. Z. Evaluation of Pharmacoequivalence Properties of Oral Lisinopril Dihydrate Tablets: A Local Comparative Study. *Dissolution Technologies*. 2025.
2. Abdulkarim M. F., Adam D. R., Alzahrani Y., Binsaeed N., **Alwadi A. Y.**, Ameer O. Z. and Mahrous G. M. Development of a Metformin Matrix Tablet: A Comparative Study with Marketed Sustained Release Formulation. *Farmacia*. 2025.

Current and ongoing research:

1. Development of sustained release formation of empagliflozin/metformin with pharmaceutical equivalent properties to the innovator (Synjardy XR) for type II diabetes mellitus treatment.
2. Comparative analysis of metronidazole tablet formulations available from the local Saudi market.
3. Comparative analysis of clopidogrel tablet formulations available from the local Saudi market.
4. Therapeutic drug monitoring of posaconazole in critically ill pediatric patients (single-center study).
5. Development and validation of an electrochemical biosensor for the detection of apixaban.

Conference Proceedings

Published abstracts:

1. Salman I. M., Ameer O. Z. and **Alwadi A. Y.** Differential expression of vascular dysfunction of smaller diameter arteries in a rodent model of metabolic syndrome. *Journal of Hypertension*. 2021 Apr; 39(e250) DOI: 10.1097/01.hjh.0000747296.20754.a4. (IF: 4.844)
2. Ameer O. Z., Salman I. M. and **Alwadi A. Y.** Regional Aortic Vascular Dysfunction in a Rodent Model of Metabolic Syndrome. *Journal of Hypertension*. 2021 Apr; 39(e255) DOI: 10.1097/01.hjh.0000747368.82976.e5. (IF: 4.844)

Posters:

1. Alotaibi, A., Aljumaa, R., Omran, S., Adam, D.R., Alamoudi, R., **Alwadi, A.Y.**, and Ameer, O.Z. Navigating Bioequivalence in Relation to Quality Parameters of Various Clarithromycin Immediate-Release Tablet Brands. The 16th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2025 March. (Poster presentation)
2. **Alwadi, A.Y.**, Salman, I.M., and Ameer, O.Z. Changes in Metabolic Parameters and Vascular Dysfunction in a Metabolic Syndrome Rat Model. The 15th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2024 March. (Poster presentation)
3. Tobeili, M., Mulla, F., Adam, D.R., **Alwadi, A.Y.**, and Ameer, O.Z. Evaluation of Pharmacoequivalence Properties of Oral Lisinopril Dihydrate Tablets. The 15th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2024 March. (Poster presentation)
4. **Alwadi, A.Y.**, Arafah, G.M., Salman, I.M., and Ameer, O.Z. Analyzing Physical Quality Control Attributes of Different Acetaminophen Brands. The 14th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2023 March. (Poster presentation)

5. **Alwadi, A.Y.**, Arafah, G.M., and Zourob, M. Development and Characterization of an Electrochemical Biosensor for the Detection of the Anticoagulant Agent Apixaban. The 13th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2022 March. (Poster presentation)
6. **Alwadi, A.Y.**, Ameer, O.Z. and Salman, I.M. Smaller Diameter Arteries Express A Differential Vascular Dysfunction in Metabolic Syndrome: A Preliminary Rodent Study. The 12th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2021 March. (Poster presentation)
7. **Alwadi, A.Y.**, Salman, I.M., and Ameer, O.Z. Segmental Aortic Dysfunction in A Metabolic Syndrome Rat Model. The 11th Annual Research Day Student Poster Competition. Alfaisal University, Riyadh, Saudi Arabia, 2020 March. (Poster presentation)
8. **Alwadi, A.Y.** and Maswadeh H. M. An Investigation on Physical Quality Control Parameters of Commercially Available Paracetamol Tablets in the Kingdom of Saudi Arabia. The 5th Pharmacy Research Day Competition. Qassim University, Buraidah, Saudi Arabia, 2017 February. (Poster presentation)

Teaching

Courses Taught	Code	Delivery	Experience
Patient Care and Health System Management Laboratory I	PCL 477	Lectures/Lab	2018 – Present; 7 years
Patient Care and Health System Management Laboratory II	PCL 487	Lectures/Lab	2018 – Present; 7 years
Patient Care and Health System Management Laboratory III	PCL 595	Lectures/Lab	2019 – Present; 6 years
Patient Care and Health System Management Laboratory IV	PCL 5X4	Lectures/Lab	2019 – Present; 6 years
Self-care and Non-prescription Medicine	SCR 364	Lectures	2019 – Present; 6 years
Research Project	RSE 5X6	Lab	2023 – Present; 2 years
Pharmaceutics I	PHC 353	Lab	2018 – 2021; 3 years
Medicinal Chemistry	MCH 241	Lab	2018 – 2021; 3 years
Organic Chemistry	CHM 232	Lab	2018 – 2021; 3 years

Licensure and Memberships

SCFHS – Saudi Commission for Health Specialists [17-J-P-0030521].

ACCP – American College of Clinical Pharmacy.

IPSHD – International Parliament for Scientists of Human Development.

Grants

1. Pharmaco-equivalence and comparative studies of popular oral solid dosage forms from Saudi Arabia.

Role: Co-PI

Sponsor: Office of Research and Graduate Studies, Alfaisal University (**IRG 24525**)

Amount: 50,000 SAR

Duration: Aug 2024 – Feb 2026

2. Development of sustained release formulation of empagliflozin /metformin with pharmaceutical equivalent properties to the innovator Synjardy® XR for type II diabetes mellitus treatment.

Role: Co-PI

Sponsor: Office of Research and Graduate Studies, Alfaisal University (**IRG 23522**)

Amount: 50,000 SAR

Duration: Feb 2023 – Feb 2025

3. In-vitro pharmaceutical analysis of popular generic solid dosage forms in Saudi Arabia.

Role: Co-PI

Sponsor: Office of Research and Graduate Studies, Alfaisal University (**IRG 21313**)

Amount: 50,000 SAR

Duration: Feb 2021 – Feb 2023

4. Histopathological and biochemical changes associated with metabolic syndrome in a rat model of high fat diet and streptozotocin induced diabetes mellitus.

Role: RA

Sponsor: Office of Research and Graduate Studies, Alfaisal University (**IRG 20307**)

Amount: 35,000 SAR

Duration: Feb 2020 – Feb 2022

5. Characterization of aortic regional functional and structural changes in diabetic rat models.

Role: Co-PI

Sponsor: Office of Research and Graduate Studies, Alfaisal University (**IRG 18317**)

Amount: 50,000 SAR

Duration: Feb 2018 – Feb 2020

Awards and Achievements

1. 3rd place at the "15th Annual Research Day Poster Competition", Alfaisal University (**2024**).

2. 2nd place at the "14th Annual Research Day Poster Competition", Alfaisal University (**2023**).

3. 2nd place at the "13th Annual Research Day Poster Competition", Alfaisal University (**2022**).

4. Master of Biomedical Sciences - Biotechnology degree with an *Excellent grade* and *First-Class honor*, received during the 10th batch graduation ceremony, Alfaisal University (**2021**).

5. 1st place at the "12th Annual Research Day Poster Competition", Alfaisal University (**2021**).

6. 3rd place at the "11th Annual Research Day Poster Competition", Alfaisal University (**2020**).

7. Graduate Program Scholarship from the Office of Research and Graduate Studies, Alfaisal University (**2019**).

8. Best Research Poster Award at the "5th Pharmacy Research Day" conference, Qassim University (**2017**).

9. Doctor of Pharmacy degree with an *Excellent grade* and *First-Class honor*, received during the 13th batch graduation ceremony, Qassim University (**2016**).

10. Academic Excellence Golden Medal Awards for academic years of **2012/2013**, **2013/2014**, **2014/2015**, and **2015/2016**, Qassim University.

11. Leadership Honoree Award for academic year of 2012/2013 at College of Pharmacy, Qassim University (**2012**).

12. Internal Scholarship for Undergraduate Studies from the Ministry of Education, Saudi Arabia (**2010**).

Referees

1. [Prof. Mohammed Zourob, PhD](#)

Professor of Chemistry, College of Science and General Studies

Alfaisal University, Riyadh, Kingdom of Saudi Arabia

Tel: +966 11 215 7938

Email: mzourob@alfaisal.edu

2. [Prof. Hamzah M. Maswadeh, PhD](#)

Professor of Pharmaceutics, Head of Pharmaceutics Department, College of Pharmacy

Qassim University, Buraidah, Kingdom of Saudi Arabia

Tel: +966 53 1263 569

Email: msodh@qu.edu.sa

3. **[Prof. Mohammed Khanfar, PhD](#)**

Professor of Medicinal Chemistry and Drug Design, Vice Dean, College of Pharmacy
Alfaisal University, Riyadh, Kingdom of Saudi Arabia

Tel: +966 11 215 7664

Email: mkhanfar@alfaisal.edu

4. **[Dr. Omar Ziad Ameer, PhD](#)**

Associate Professor of Pharmacology, Head of Pharmaceutical Sciences Department, College of Pharmacy
Alfaisal University, Riyadh, Kingdom of Saudi Arabia

Tel: +966 11 215 7661

Email: ooladhami@alfaisal.edu

5. **[Dr. Ibrahim M. Salman, PhD](#)**

Associate Professor of Pharmacology, Head of Pharmacy Practice Department, College of Pharmacy
Alfaisal University, Riyadh, Kingdom of Saudi Arabia

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Email: isalman@alfaisal.edu