

Abdullah Abdelaziz

- University of Illinois at Chicago
- Department of Pharmacy, Systems, Outcomes, and Policy
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- [Personal website](#)
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EDUCATION

Doctor of Philosophy – Pharmacy Systems Outcomes and Policy

University of Illinois Chicago

Aug 2020 – Present

Master of Science – Pharmacy Systems Outcomes and Policy

University of Illinois Chicago

May 2023 – Dec 2023

Bachelors of Pharmacy

Faculty of Pharmacy, Minia University

Sep 2012 – May 2017

- Excellent (Distinction with Honors.)
- Rank: 4/320

PROFESSIONAL EXPERIENCE

Research Associate

University of Southern California

May 2023 – Aug 2023

Department of Clinical Pharmacy

Participated in researching the use of prescription medications with potential carcinogenic effects in the United States using the National Health and Nutrition Examination Survey (NHANES)

Pharmacoepidemiology Ph.D. summer intern

Regeneron Pharmaceuticals

May 2022 – Aug 2022

Worked under the supervision of Dr. Christian Hampp on evaluating treatment patterns among smoldering multiple myeloma patients.

RESEARCH EXPERIENCE

Research Assistant

University of Illinois Chicago

Aug 2020 – Present

Pharmacoepidemiology

Supported multiple projects by designing real-world studies, building analytic cohorts, developing screening algorithms, optimizing analysis workflows, running statistical analyses, and writing reports and manuscripts. Projects include:

- Estimating the Concordance of Treatment Effects Between Randomized Controlled Trials (RCTs) and Real-World Replications in Oncology: A Systematic Review and Meta-Analysis
- Estimating the Impact of Effect Modification on the Concordance of Treatment Effects Between Randomized Controlled Trials (RCTs) and Target Trial emulations using Real-World studies: A semi-synthetic data experiment.

- Adherence to Prescription Proton Pump Inhibitor Therapy in Individuals Diagnosed with Barrett's Esophagus.
- Factors associated with oseltamivir dispensing for high-risk of influenza complications in children: A retrospective cohort study using commercial claims.
- A High-throughput Drug Safety Signal Detection of Roflumilast Using Sequence Symmetry Analysis (2011-2021).
- Pathologic complete response among non-metastatic esophageal carcinoma patients who received neoadjuvant therapy: a systematic review and meta-analysis.

Pharmacoeconomics and Decision Modeling

Supported multiple projects by systematically reviewing the literature and collecting model inputs, implementing different decision modeling methods (decision trees, Markov models, and microsimulation), optimizing model performance and reproducibility in R, and writing reports and manuscripts. Projects include:

- Cost-effectiveness and budget impact analysis of Artificial Intelligence-driven risk stratification in US Veterans with diabetic kidney disease (DKD).

Health Policy and Pharmacy Practice

Supported multiple projects by preparing IRB protocols, conceptualizing study goals and study design, data cleaning and analysis. Projects include:

- The effect of the removal of sobriety restriction for hepatitis C virus treatment access on sustained virologic response in U.I. Health patients.
- Estimation of potential cost savings from alternative reimbursement models for clinician-administered drugs among Medicare cancer patients.

Minia University

Jun 2015 – Sep 2016

Evaluation of the Quality of Pharmacy Practice in Upper Egypt

- Designed, crafted, and implemented a simulated patient cross-sectional field study to evaluate pharmacy practice in Upper Egypt.
- Led a team of undergraduate researchers to collect data from community pharmacies to assess the quality of practice.

TEACHING EXPERIENCE

Teaching Assistant

University of Illinois Chicago

Aug 2020 – Aug 2023

Assisted in moderating discussions, grading assignments, and preparing final exams for courses:

- Pharmacoeconomics and Payment Models for P3 PharmD students.
- Pharmacy Law for P3 PharmD students.

Minia University

Aug 2019 – Jan 2021

Assisted in teaching the following courses:

- Pharmaceutical Dosage Forms III
- Industrial Pharmacy and Pharmaceutical Technology.

PUBLICATIONS

*indicates first or co-first authorship

Published or accepted for publication

1. Gaber, C., Okpara, E., **Abdelaziz, A.**, Sarker, J., Hanson, K., Hassan, L., Lin, F. J., Lee, T., & Reizine, N. M. (2024). Real-world comparative effectiveness and cardiovascular safety of enzalutamide versus abiraterone amongst older men diagnosed with metastatic castration-resistant prostate cancer. *Journal of Geriatric Oncology*. (Accepted)
2. Kim, Kibum, Jacob Crook, Chao-Chin Lu, Heather Nyman, **Abdullah Abdelaziz**, and Joanne LaFleur. 2024. "Epidemiology of Diabetic Kidney Disease among US Veterans." *Diabetes, Metabolic Syndrome and Obesity* 17 (April): 1585–96. doi: 10.2147/DMSO.S450370.
3. Gaber CE, **Abdelaziz AI**, Sarker J, et al. Adherence to prescription proton pump inhibitor therapy amongst individuals diagnosed with Barrett's esophagus. *Pharmacoepidemiol Drug Saf.* 2024; 33(2):e5760. doi:[10.1002/pds.5760](https://doi.org/10.1002/pds.5760)
4. **Abdelaziz AI***, Hanson KA, Gaber CE, Lee TA. Optimizing large real-world data analysis with parquet files in R: A step-by-step tutorial. *Pharmacoepidemiol Drug Saf.* 2023; 1-9.
5. James W. Antoon, Jyotirmoy Sarker, **Abdullah Abdelaziz**, Pei-Wen Lien, Derek J. Williams, Todd A. Lee, Carlos G. Grijalva; Trends in Outpatient Influenza Antiviral Use Among Children and Adolescents in the United States. *Pediatrics* December 2023; 152 (6): e2023061960. 10.1542/peds.2023-061960
6. Hunter K Holt, Caryn E Peterson, Shannon MacLaughlan David, **Abdullah Abdelaziz**, George F Sawaya, Jenny S Guadamuz, Gregory S Calip. Mediation of Racial and Ethnic Inequities in the Diagnosis of Advanced-Stage Cervical Cancer by Insurance Status. *JAMA Netw Open.* 2023;6(3):e232985. doi:10.1001/jamanetworkopen.2023.2985.
7. Martin MT, Waring N, Forrest J, Nazari JL, **Abdelaziz AI**, Lee TA. Sustained Virologic Response Rates Before and After Removal of Sobriety Restriction for Hepatitis C Virus Treatment Access. *Public Health Reports.* 2022;0(0). doi: 10.1177/00333549221099323.
8. Tran L, Radwan I, Low SK, Hashan MR, Gomaa MD, Abdelmongy M, **Abdelaziz AI**, Mohamed A, Tawfik GM, Mizukami S, Hirayama K. Role of cytokines produced by T helper immune-modulators in dengue pathogenesis: A systematic review and meta-analysis. *Acta tropica.* 2021 Apr 1;216:105823.
9. Tawfik, A.G., **Abdelaziz, A.I.***, Omran, M. et al. Assessment of community pharmacy management towards self-medication requests of tetracyclines for pregnant women: a simulated client study in Upper Egypt. *Int J Clin Pharm* (2020).
10. **Abdelaziz, A.I.***; Tawfik, A.G.; Rabie, K.A.; Omran, M.; Hussein, M.; Abou-Ali, A.; Ahmed, A.-S.F. Quality of Community Pharmacy Practice in Antibiotic Self-Medication Encounters: A Simulated Patient Study in Upper Egypt. *Antibiotics* 2019, 8, 35.

Submitted or Under review

1. **Abdelaziz, A.***, Winn, A., Dusetzina, S.B., Mitchell, A.P (2024). The Effect of Biosimilar Entry on Biologic Drug Prices in Medicare Part B." *JAMA Health Forum*. (Under review)

2. Sarker, J., **Abdelaziz, A.***, Crook, J., Nelson, R., LaFleur, J., Lu, C. C., & Kim, K. (2024). Cost-effectiveness analysis of artificial intelligence-driven risk-stratification in patients with diabetic kidney disease in the US veterans population. *Kidney Medicine* (Under review).
3. **Abdelaziz, A.***, Gaber, C. E., Gupta, P., & Lee, T. A. (2024). High throughput screening for roflumilast adverse effects in real-world settings: A sequence symmetry analysis. *Basic and Clinical Pharmacology and Toxicology*. (Under review)

Conference presentations

1. Winn, A., **Abdelaziz, A.***, Dusetzina, S.B., Mitchell, A.P. "The Effect of Biosimilar Entry on Biologic Drug Prices in Medicare Part B." ISPOR Europe 2024.
2. **Abdelaziz, A.***, Gaber, C. E., Gupta, P., & Lee, T. A. (2024). High throughput screening for roflumilast adverse effects in real-world settings: A sequence symmetry analysis. ISPOR 2024
3. Sarker, J., **Abdelaziz, A.***, Crook, J., Nelson, R., LaFleur, J., Lu, C. C., & Kim, K. (2024). Cost-effectiveness analysis of artificial intelligence-driven risk-stratification in patients with diabetic kidney disease in the US veterans population. ISPOR 2024
4. **Abdelaziz, Abdullah Islam***, and Gregory Sampang Calip. "Persistent racial and ethnic inequities in cancer-specific mortality of head and neck cancers by human papillomavirus infection." (2022): 148-148.
5. **Abdelaziz, Abdullah***, Karen Sweiss, Pritesh R. Patel, Brian C-H. Chiu, and Gregory Calip. "Trends of thromboprophylaxis among newly diagnosed multiple myeloma patients initiating immunomodulatory drug-based regimens, 2010 to 2018." In *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*, vol. 31, pp. 172-173. 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY, 2022.
6. Sarker, Jyotirmoy, **Abdullah Abdelaziz**, Pei-Wen Lien, Carlos Grijalva, Derek Williams, Todd A. Lee, and James Antoon. "Trends in antiviral use for influenza among children in the US between 2010 and 2019. *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY* 2022
7. **Abdullah Abdelaziz***, Karen Sweiss, Pritesh Patel, Brian C-H Chiu, Gregory Calip. Increasing Uptake of Direct Oral Anticoagulants for Thromboprophylaxis Among Newly Diagnosed Multiple Myeloma Patients Initiating Immunomodulatory Drug-based regimens, 2010 to 2017. American Association for Cancer Research Annual Meeting 2022, April 8 -13, 2022, New Orleans, Louisiana.
8. Fahmy, Ahmed; El-Qushayri, Amr Ehab; **Abdelaziz, Abdullah**; Tawfik, Abdelrahman; Abou-Ali, Adel 647: Systemic Antibiotics for the Prevention of Ventilator-Associated Pneumonia: A Meta-Analysis, *Critical Care Medicine*: January 2021 -Volume 49 -Issue 1 -p 318.
9. **Abdullah I. Abdelaziz***, Abdel-Rahman G. Tawfik, Adel Abou-Ali and Al-Shaimaa F. Ahmed. Counseling Pregnant Patients in The Community Pharmacy: Time to Meet The Alarming Facts. International Conference on Pharmaceutical and Healthcare Sciences, November 6th – 7th, 2019, Alexandria, Egypt.

PROFESSIONAL DEVELOPMENT (SELECTED)

Causal Inference and statistics

- Causal Inference and Machine Learning (Mixtape sessions)
- Design and Analysis of Simulation Studies (Statistical Horizons)

Oct 2024
May 2024

- Main and Advanced Causal Inference Workshop (Northwestern University) Aug 2023
- Machine Learning for Causal Inference (Statistical Horizons) Nov 2023
- Causal Inference I, II, and III (Mixtape sessions) Nov 2022
- Writing Protocols for Real-World Studies. Aug 2022
- Causal Diagrams: Draw Your Assumptions Before Your Conclusions Jan 2022
- Modern Causal Mediation Analysis Jun 2022

Economic Evaluation and Decision Modeling

- Efficient microsimulation in R May 2024
- Applied Cost-Effectiveness with R Aug 2021
- Cost-Effectiveness and Decision Modeling using R Workshop Aug 2022

Data Science

- Introduction to Clinical Data Science Jun 2020
- Udacity's Data Analyst Nanodegree Mar – Aug 2019
- AI Series: Introduction to Healthcare and Clinical Data Jan 2021

Evidence synthesis and scientific reporting

- Writing in the Sciences Jul 2019
- Introduction to Systematic Review and Meta-Analysis May 2021

SKILLS & INTERESTS

Programming languages and statistical software

- R
- Python
- SAS 9.4
- Panalgo's IHD
- SQL
- C++ (Beginner)

Data visualization

- Tableau
- Shiny

Miscellaneous tools

- Microsoft Office
- Zotero
- Git, GitHub, and GitKraken
- Quarto
- Adobe Photoshop
- Covidence
- Plot Digitizer

Databases

- SEER-Medicare
- MarketScan
- SEER
- NHANES
- BRFSS
- Optum

HONORS AND AWARDS

- New Technology Leaders (NTL) Training Program Award 2019
- UIC's Travel Award for PhD Students (TAPS) 2022
- Edward Benes Scholarship 2022
- ISPE Student Chapter Award 1st Place, UIC College of Pharmacy Research Day 2023

PROFESSIONAL AFFILIATIONS

ASCO – American Society of Clinical Oncology (Member)	Since 2019
AACR – American Association for Cancer Research (Associate Member)	Since 2022
ISPE – International Society of Pharmacoepidemiology (Member)	Since 2022
SER – Society for Epidemiologic Research (Member)	Since 2022
ISPOR - The Professional Society for Health Economics and Outcomes Research (Member)	Since 2021
SCI - Society for Causal Inference (Member)	Since 2022
Egyptian Pharmacists Syndicate	Since 2018