

## **Curriculum Vitae**

### **Shoroq M. Altawalbeh, PharmD, PhD**

#### **PERSONAL**

Office Address: Jordan University of Science &  
Technology Faculty of Pharmacy, P2-  
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Jordan, Irbid, 22110

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#### **CURRENT POSITION/TITLE**

December 2020 – Present Associate Professor  
Department of Clinical Pharmacy  
Faculty of Pharmacy, Jordan University of Science &  
Technology

October 2022 – September 2023 Academic visitor  
School of Medicine, University of Pittsburgh, PA, USA

#### **EDUCATION**

May 2012 – September 2015 Doctor of Philosophy (Ph.D.), Pharmaceutical Outcomes  
and Policy Research, Department of Pharmaceutical  
Sciences, School of Pharmacy, University of Pittsburgh,  
Pittsburgh, PA, USA  
Thesis advisor: Joshua M. Thorpe, PhD, MPH

September 2004-June2010 Doctor of Pharmacy (PharmD degree)  
Jordan University of Science & Technology (JUST), Irbid,  
Jordan.

#### **FELLOWSHIPS & TRAINING**

July 2016 – August 2017 Fellowship in the Responsible Conduct of Research (RCR)  
a combined program of JUST and University of California  
San Diego (UCSD), California, USA

## **POSITIONS**

October 2022 – September 2023

Academic visitor, School of Medicine, University of Pittsburgh

December 2020 – Present

Associate Professor, Faculty of Pharmacy, Jordan University of Science and Technology (JUST).

September 2015 – December 2020

Assistant Professor, Faculty of Pharmacy, Jordan University of Science and Technology (JUST).

September 2010- June 2011

Teaching and research assistant, Faculty of Pharmacy/JUST.

September 2010- June 2011

Clinical pharmacy training preceptor at King Abdullah University Hospital (KAUH)/ Intensive & Critical Care Unit.

## **HONORS & AWARDS**

2013,2014 Student Honoree, Honors Convocation, University of Pittsburgh, Pittsburgh, PA

2012- 2015 The Academic Excellence Scholarship for Higher Education (PhD), JUST, Irbid, Jordan.

2004-2010 Dean's honor lists- College of Pharmacy, JUST, Irbid, Jordan.

2004-2010 President's honor lists, JUST, Irbid, Jordan.

2004-2010 Ministry of Higher Education Scholarship for Doctor of Pharmacy degree, Jordan.

## **MEMBERSHIPS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES**

2023-Present The editorial advisory board of Value in Health Regional Issues Journal.

2022-Present The Professional Society for Health Economics & Outcomes Research (ISPOR)

2022-Present The International Clinical Practice Research Unit (ICPRU) in conjunction with the University of Huddersfield (UoH), UK.

2010-Present Jordan Pharmacy Association (JPA)

2012 American Association of Pharmaceutical Scientists: AAPS

## **SOFTWARE SKILLS**

STATA, SPSS, and TreeAge softwares.

## **PROFESSIONAL SERVICE**

2016 – Present      Reviewer at the following journals: Value in Health, Value in Health Regional Issues, Journal of Medical Economics, Vaccine, Research in Social and Administrative Pharmacy, Saudi Pharmaceutical Journal, Plose One, Respiratory Medicine, The Journal of Managed Care & Specialty Pharmacy, The European Journal of Health Economics, Journal of Pharmaceutical Health Services Research, Jordan Journal of Pharmaceutical Sciences (JJPS), Expert Review of Pharmacoeconomics & Outcomes Research, Saudi Medical Journal, Journal of Asthma.

## **ORAL PRESENTATIONS**

September 2023      Title: Cost-Effectiveness of Intravenous Albumin in Sepsis Patients: Patient-Level Simulation and Partitioned Survival Analysis. The 16th Jordanian Pharmaceutical Conference - “Pharmacy Profession in the Bicentennial: A Future Vision”. Amman, Jordan.

February 2018      Title: “An Economic Analysis of Intensive Care Unit Drug Utilization in A Teaching Hospital in Jordan”. Dubai International Pharmaceutical & Technology Conference & Exhibition (DUPHAT). Dubai, UAE

October 2016:      Title: “Cost utility analysis of long acting beta agonists versus leukotriene receptor antagonists in older adults with asthma receiving concomitant inhaled corticosteroid therapy”. 4th International Conference on Geriatrics and Gerontological Nursing. London, UK

March 2014      Title: “Anti-leukotriene versus long acting beta agonists add-on treatments in asthmatic elderly patients; Safety and effectiveness”. School of Pharmacy University of Pittsburgh

October 2013      Title: “Patterns and Predictors of Asthma Medication Use and Expenditures in Older Adults”. School of Pharmacy University of Pittsburgh

November 2012      Title: “Impact of intensive care unit (ICU) drug use on hospital costs”. School of Pharmacy University of Pittsburgh

## **POSTER PRESENTATIONS**

1. “Clinical pharmacist-led medication reconciliation supplemented with medication review in chronic kidney disease admitted patients: a cost-benefit analysis”. Shoroq M. Altawalbeh, PharmD, PhD, Nahlah M. Sallam, M.S, Minas Al-Khatib, PharmD, Osama Y. Alshogran, M.S, PhD, Mohammad S. Bani Amer, MD . ISPOR Europe 2024. November 17-20. Barcelona, Spain.

2. “The impact of medication reconciliation on discrepancies and all-cause readmission among hospitalized patients with chronic kidney disease: A quasi-experimental study”. Shoroq M. Altawalbeh, PharmD, PhD, Nahlah M. Sallam, M.S, Minas Al-Khatib, PharmD, Osama Y. Alshogran, M.S, PhD, Mohammad S. Bani Amer, MD , Linda Tahaine, PharmD, Msc, Abba Albsoul-Younes. ISPOR Europe 2024. November 17-20. Barcelona, Spain.
3. Title: “Societal cost of racial disparities in pneumococcal disease in U.S. adults aged 50 years or older”. Shoroq M. Altawalbeh, Angela R. Wateska, Mary Patricia Nowalk, Chyongchiou J. Lin, Richard K. Zimmerman, Kenneth J. Smith. ISPOR 2023. May 2023. Boston, MA.
4. Title: “Ethical Issues in Consenting Cognitively Intact and Independent Older Adults: Academic Researchers and Community Perspectives”. Shoroq M. Altawalbeh, Fadi M. Alkhateeb, Omar F. Attarabeen. The 48th ESCP Symposium of Clinical Pharmacy. October 2019. Ljubljana Slovenia.
5. Title: “An Economic Analysis of Intensive Care Unit Drug Utilization in A Teaching Hospital in Jordan”. Altawalbeh SM, Abu-Su'Ud R, Alefan Q, Momany SM, Kane-Gill SL. Dubai International Pharmaceutical & Technology Conference & Exhibition. February 2018. Dubai, UAE
6. Title: “Treatment patterns in asthmatic elderly patients: prevalence and predictors”. Altawalbeh SM, Thorpe CT, Zgibor JC, Kane-Gill S, Thorpe JM. The "6th Annual Pittsburgh AAPS Student Chapters Research Symposium”. October 2014. Pittsburgh, USA.

### **SCIENTIFIC AND PROFESSIONAL MEETINGS**

November 2024	The Professional Society for Health Economics and Outcomes Research (ISPOR Europe 2024). Barcelona, Spain.
September 2024	The Eighth EMPHNET Regional Conference. Amman, Jordan.
September 2023	The 16th Jordanian Pharmaceutical Conference - “Pharmacy Profession in the Bicentennial: A Future Vision”. Amman, Jordan.
May 2023	The Professional Society for Health Economics and Outcomes Research (ISPOR 2023). Boston, MA, USA.
March 2022	WHO training course “Introduction to health economics: theory, policy, and practice.”. Amman, Jordan.
October 2019	The 48th ESCP Symposium of Clinical Pharmacy. Ljubljana Slovenia.

January 2019	ASU Pharmacy Fourth International Conference, Applied Science Private University, Amman, Jordan
February 2018	International Pharmaceutical & Technology Conference & Exhibition. Dubai, UAE
July 2018	The 3 <sup>rd</sup> International Conference on Ethics in Jordan: Publications and Authorship. JUST, Jordan
November 2017	First conference in pharmacy “Recent Trends in Pharmacy between Science and Industry”. Yarmouk University, Irbid, Jordan
August 2017	The 4 <sup>th</sup> Conference of the Association of Faculties of Pharmacy at Jordanian Universities and the 2 <sup>nd</sup> International Conference on Ethics in Jordan: Clinical Trials. JUST, Jordan
April 2017	ASU Pharmacy Third Conference and The Third Conference of the Association of Faculties of Pharmacy at Jordanian Universities, Applied Science Private University, Amman, Jordan
October 2016	4th International Conference on Geriatrics and Gerontological Nursing. London
August 2016	The International Conference on Ethics and Biomedical Informatics in Jordan, JUST, Irbid, Jordan
October 2014	The "6th Annual Pittsburgh AAPS Student Chapters Research Symposium", Pittsburgh, PA
May 2013	AAPS regional meeting and research forum, West Virginia University, Morgantown, WV
November 2012	Annual American Association of Pharmaceutical Scientists (AAPS) Chapters Student Research Symposium, Duquesne University, Pittsburgh, PA

### **Research Interests:**

- Pharmaceutical outcomes
- Pharmacoepidemiology
- Pharmacoeconomics

### **Dissertation:**

Addition of leukotriene receptor antagonists versus long acting beta agonists to inhaled corticosteroid therapy for asthma treatment in older adults: a retrospective data analysis of effectiveness, safety and cost. University of Pittsburgh. USA. 2015.

### **FUNDED RESEARCH**

**1. Shoroq Altawalbeh**, (PI). Cost-effectiveness of breast cancer screening using mammography in Jordanian women. Deanship of Research, Jordan University of Science and Technology. Amount: 1645 JD. Research Grant No: 20240272.

**2. Shoroq Altawalbeh**, (PI); Osama Alshogran (Co-I); Nahlah Sallam (Co-I). Assessment of medication reconciliation among hospitalized patients with chronic kidney disease. Deanship of Research, Jordan University of Science and Technology. Amount: 700 JD. Research Grant No: 20220257.

**3. Shoroq Altawalbeh**, (PI); Osama Alshogran (Co-I); Lina Wali (Co-I). Incidence, predictors, and outcomes of recurrent acute kidney injury: a retrospective cohort study. Deanship of Research, Jordan University of Science and Technology. Amount: 1250 JD. Research Grant No: 20210180.

**4. Shoroq Altawalbeh**, (PI); Suleiman Momany (Co-I); Eman Almestarihi (Co-I). Indications and outcomes associated with intravenous albumin fluid use in the intensive care unit: a retrospective cohort study. Deanship of Research, Jordan University of Science and Technology. Amount: 300 JD. Research Grant No: 20210314.

**5. Shoroq Altawalbeh**, (PI); Samah Al-Shatnawi (Co-I); Tareq Mukattash (Co-I). Pharmaceutical promotion in Jordan as perceived by pharmacists and pharmaceutical representatives. Deanship of Research, Jordan University of Science and Technology. Amount: 2000 JD. Research Grant No: 20190171.

**6. Shoroq Altawalbeh**, (PI); Samah Al-Shatnawi (Co-I). Pharmaceutical promotion in Jordan as perceived by physicians. Deanship of Research, Jordan University of Science and Technology. Amount: 500 JD. Research Grant No: 20180536.

**7. Osama Alshogran**, (PI); **Shoroq Altawalbeh** (Co-I), Israa Shatnawi (graduate student). Adherence to anemia treatment in dialysis patients and its impact on therapeutic outcomes. Deanship of Research, Jordan University of Science and Technology. Amount: 400 JD. Project ID: 241-2017.

**8. Osama Alshogran**, (PI); Amani Khalil (Co-I); Ashraf Oweis (Co-I); Mohammad Alqudah (Co-I); **Shoroq Altawalbeh** (Co-I). Prevalence of anxiety and depression among hemodialysis patients and their associations with 5-HTT, BDNF, NPSR1, and IL-6 gene polymorphisms. Deanship of Research, Jordan University of Science and Technology. Amount: 9,950 JD. Project ID: 16-2017.

**9. Shoroq Altawalbeh**, (PI); Fadi Al Khateeb (Co-I). Ethical Issues In Consenting Cognitively Intact and Independent Older Adults: Academic Researchers and Community Perspectives In Jordan. . This project was funded through the Fogarty International Center of the U.S. National

Institutes of Health on behalf of the Research Ethics Program in Jordan, grant # 5R25TW010026-02.

**10. Shoroq Altawalbeh**, (PI); Mera Ababneh (Co-I). Respiratory tract infections in older adults versus younger adults with chronic asthma: predictors and outcomes: a retrospective study. Deanship of Research, Jordan University of Science and Technology. Amount: 100 JD. Research Grant No: 20170041.

**11. Shoroq Altawalbeh**, (PI); Osama Alshogran (Co-I). Cost-utility analysis of apixaban versus warfarin in kidney disease patients. Deanship of Research, Jordan University of Science and Technology. Amount: 350 JD. Research Grant No: 20170087.

**12. Shoroq Altawalbeh**, (PI); Basima Al Momani (Co-I); Qais Al efan (Co-I). Impact of chronic obstructive pulmonary disease medications on patient reported outcomes in older adults with cardiovascular comorbidities. Deanship of Research, Jordan University of Science and Technology. Amount: 4,000 JD. Research Grant No: 20160265.

## **PUBLICATIONS**

- **Altawalbeh, S. M.**, Sallam, N. M., Al-Khatib, M., Alshogran, O. Y., & Bani Amer, M. S. (2025). Clinical pharmacist-led medication reconciliation supplemented with medication review in admitted patients with chronic kidney disease: a cost-benefit analysis. *BMJ open*, 15(2), e087232. <https://doi.org/10.1136/bmjopen-2024-087232>.
- Wateska AR, Nowalk MP, **Altawalbeh, SM**, Lin CJ, Harrison LH, Schaffner W, Zimmerman RK, Smith KJ. (2024). Changes in the cost-effectiveness of pneumococcal vaccination and of programs to increase its uptake in U.S. older adults. *Journal of the American Geriatrics Society*, 72(8), 2423–2433.
- **Altawalbeh SM**, Wateska AR, Nowalk MP, et al. Pneumococcal Vaccination Strategies in 50-Year-Olds to Decrease Racial Disparities: A US Societal Perspective Cost-Effectiveness Analysis. *Value Health*. Published online March 8, 2024. doi:10.1016/j.jval.2024.02.021
- **Altawalbeh SM**, Wateska AR, Nowalk MP, et al. Cost-effectiveness of an in-development adult-formulated 21-valent pneumococcal conjugate vaccine in US adults aged 50 years or older. *Vaccine*. Published online April 4, 2024. doi:10.1016/j.vaccine.2024.04.002
- **Altawalbeh, SM**, Wateska AR, Nowalk MP, Lin CJ, Harrison LH, Schaffner W, Zimmerman RK, Smith KJ. Societal cost of racial pneumococcal disease disparities in US adults aged 50 years or older. *Appl Health Econ Health Policy*. 2023 Nov 15. doi: 10.1007/s40258-023-00854-0.
- **Altawalbeh, SM**, Almestarihi, EM., Khasawneh, RA., Momany, SM., Abu Hammour, K., Shawaqfeh, MS., & Abraham, I. (2024). Cost-effectiveness of intravenous

resuscitation fluids in sepsis patients: a patient-level data analysis in Jordan. *Journal of medical economics*, 27(1), 126–133.

- Al-Azayzih, A., Kanaan, R. J., **Altawalbeh, S. M.**, Alzoubi, K. H., Kharaba, Z., & Jarab, A. (2024). Prevalence and predictors of hypoglycemia in older outpatients with type 2 diabetes mellitus. *PloS one*, 19(8), e0309618.
- Olimat S , **Altawalbeh SM**, Maabreh RS, Basheti IA. (2024). Asthma–COPD overlap syndrome among smoker subjects with asthma: A cross-sectional study. *Journal of Applied Pharmaceutical Science*; 14(4): 72-80.
- Al-Balas Q, **Altawalbeh SM**, Rinaldi C, Ibrahim I. The practice of defensive medicine among Jordanian physicians: A cross sectional study. *PLoS One*. 2023;18(11):e0289360. Published 2023 Nov 9. doi:10.1371/journal.pone.0289360.
- Al-Azayzih, A., Kanaan, RJ., **Altawalbeh, SM.**, Al-Qerem, W., & Smadi, S. (2023). Medication Adherence and Its Associated Determinants in Older Adults with Type 2 Diabetes and Cardiovascular Comorbidities. *Patient preference and adherence*, 17, 3107–3118.
- Al-Azayzih, A., Kanaan, R. J., & **Altawalbeh, SM.** (2023). Assessment of Drug-Related Problems and Health-Related Quality of Life Domains in Elderly Patients with Type 2 Diabetes Mellitus. *Therapeutics and clinical risk management*, 19, 913–928.
- Mhaidat NM, Alshogran OY, **Altawalbeh SM**, Jaber JM, Banat HA, Ahmad, D. S., & Alabsi, W. (2023). Patterns of adverse drug reactions in Jordan: a retrospective analysis of the National Pharmacovigilance Data Registry (2015-2021). *Expert opinion on drug safety*. 2023 Jul-Dec;22(10):957-965.
- Kharaba, Z., Al-Azzam, S., **Altawalbeh, SM.**, Alkwarit, A., Salmeh, N. A., Alfoteih, Y., Araydah, M., Karasneh, R., & Aldeyab, M. A. (2023). Health literacy, knowledge, household disposal, and misuse practices of antibiotics among UAE residents: a nationwide cross-sectional study. *Expert review of anti-infective therapy*. 2024 Jan-Jun;22(1-3):103-113.
- Alabadallah RY, Hijazi B , **Altawalbeh SM**, Oqal M, Almomani BA. Clinical pharmacist role in improving the knowledge and outcomes in patients using isotretinoin: A randomized, controlled study. *Heliyon*. 2023 Sep;9 (9).
- **Altawalbeh SM**, Almestarihi EM, Khasawneh RA, Momany SM, Ababneh MA, Shawaqfeh MS. Clinical and economic outcomes associated with intravenous albumin fluid use in the intensive care unit: a retrospective cohort study. *Expert Rev Pharmacoecon Outcomes Res*. 2023 Jul-Dec; 23(7):789-796. doi: 10.1080/14737167.2023.2215431.
- **Altawalbeh SM**, Al-Khatib M, Almomani BA, Nuseir K, Al-Husein BA, Mukattash TL. Students' experiences and attitudes toward a newly developed simulation-based pharmaceutical care clinical rotation: A pre-post study design. *Saudi Pharm J*. 2023 Jun;31(6):808-814. doi: 10.1016/j.jsps.2023.04.013.
- Alenazi TA, Shaman MSB, Suliman DM, Alanazi TA, **Altawalbeh SM**, Alshareef H, Lahreche DI, Al-Azzam S, Araydah M, Karasneh R, Rebahi F, Alharbi MH, Aldeyab MA. The Impact of Multidrug-Resistant *Acinetobacter baumannii* Infection in Critically



Ill Patients with or without COVID-19 Infection. *Healthcare (Basel)*. 2023 Feb 8;11(4):487. doi: 10.3390/healthcare11040487.

- Karasneh, R., Al Sharie, S., Al-Azzam, S., **Altawalbeh, S. M.**, Khassawneh, B., Talafha, M., Nusair, M., Al-Mistarehi, A. H., Yonis, O. B., Al-Omary, M. A., Kabbaha, S., & Aldeyab, M. A. (2023). Reported long-term effects of COVID-19 patients after hospital discharge in Jordan. *Medicine*, 102(38), e34633.
- Ababneh, M. A., Abujuma, H., **Altawalbeh, SM.**, & Al Demour, S. (2024). Evaluation of Antimicrobial Stewardship Programs and antibiotic prescribing patterns among physicians in ambulatory care settings in Jordan. *Expert review of pharmacoeconomics & outcomes research*, 24(3), 405–412. <https://doi.org/10.1080/14737167.2023.2293197>
- **Altawalbeh SM**, Wali LM, Alshogran OY, Hammad EA, Tahaine L. Incidence, predictors, clinical outcomes, and economic burden of recurrent acute kidney injury: a retrospective cohort study. *Curr Med Res Opin*. 2023 Mar;39(3):399-407. doi: 10.1080/03007995.2023.2175997.
- Alshogran OY, **Altawalbeh SM**, Almestarihi EM. Acute kidney injury development and impact on clinical and economic outcomes in patients with cirrhosis: an observational cohort study over a 10-year period. *Eur J Gastroenterol Hepatol*. 2023 Apr 1;35(4):497-504. doi: 10.1097/MEG.0000000000002520.
- **Altawalbeh SM**, Alshogran OY, Al-Sawalha NA, Al-Saleem MM. Clinical Outcomes and Direct Medical Expenditures Associated With Intensive Care Unit Admission for Inpatients With COVID-19 in Jordan: A Retrospective Cohort Study. *Value Health Reg Issues*. 2023 Jan;33:76-82. doi: 10.1016/j.vhri.2022.09.002.
- Ababneh MA, Halloush S, **Altawalbeh SM**, Mardini A. Knowledge and attitudes towards herbal and dietary products use during the COVID-19 pandemic. *Clin Nutr Open Sci*. 2023;49:118-129. doi:10.1016/j.nutos.2023.05.003
- Alshogran OY, **Altawalbeh SM**, Khalil AA. Comparison of two self-report scales to assess anxiety and depressive symptoms in hemodialysis patients. *Archives of Psychiatric Nursing*. 2022 Dec;41:208-213.
- **Altawalbeh SM**, Almomani BM, Alefan Q, Momany SM, Al-Share QY. The influence of adverse drug effects on health-related quality of life in chronic obstructive pulmonary disease patients. *The International Journal of Pharmacy Practice*. 2022 Nov 4;30(5):457-465. doi: 10.1093/ijpp/riac052
- Alshogran OY, Shatnawi EA, **Altawalbeh SM**, Jarab AS, Farah RI. Medication non-adherence and the achievement of therapeutic goals of anemia therapy among hemodialysis patients in Jordan. *Hosp Pract (1995)*. 2022 Feb;50(1):82-88. doi: 10.1080/21548331.2022.2032073. Epub 2022 Jan 31.
- Alshogran OY, Shatnawi EA, **Altawalbeh SM**, Jarab AS, Farah RI. Predictors of poor health-related quality of life among hemodialysis patients with anemia in Jordan. *Health Qual Life Outcomes*. 2021 Dec 24;19(1):272. doi: 10.1186/s12955-021-01905-7.

- Al-Shatnawi SF, Al-Hosban SY, **Altawalbeh SM**, Khasawneh RA. Antibiotic prescribing patterns for childhood infections in ambulatory settings in Jordan Int J Clin Pract. 2021 Nov;75(11):e14740.
- **Altawalbeh SM**, Hijazi B , Kufoof L , Basheti IA. Health expenditures of asthma-COPD overlap in Northern Jordan PLoS One. 2021 Sep 21;16(9):e0257566.
- Alshogran OY , **Altawalbeh SM** , Al-Azzam SI, Karasneh R. Predictors of Covid-19 case fatality rate: An ecological study. Ann Med Surg (Lond). 2021 May; 65:102319.
- Osama Y Alshogran , Laith N Al-Eitan , **Altawalbeh SM**, Hatem A Aman. Association of DRD4 exon III and 5-HTTLPR VNTR genetic polymorphisms with psychiatric symptoms in hemodialysis patients. PLoS One. 2021 Mar 30;16(3): e0249284.
- Almomani BA; **Altawalbeh SM**; Alnajjar MS; Momany SM. Assessment of medication knowledge among patients with asthma. Journal of Pharmaceutical Health Services Research. 2020 Nov. 11(3):349-354.
- Karasneh RA; Al-Azzam S; **Altawalbeh SM**; Alshogran OY; Hawamdeh S. Predictors of symptom burden among hemodialysis patients: A cross-sectional study at thirteen hospitals. Int Urol Nephrol. 2020 May;52(5):959-967. doi: 10.1007/s11255-020-02458-2. Epub 2020 Apr 15.
- **Altawalbeh SM**, Ibrahim IA, Al-Shatnawi SF. Influence of pharmaceutical promotion on prescribers in Jordan. Int J Clin Pharm. 2020 Apr;42(2):744-755. doi: 10.1007/s11096-020-01006-3. Epub 2020 Mar 5.
- **Altawalbeh SM**, Alkhateeb FM, Attarabeen OF. Ethical issues in consenting older adults: academic researchers and community perspectives. Journal of Pharmaceutical Health Services Research. 2020 March; 11(1): 25-32.
- Al-Azayzih A, Alamoori R, **Altawalbeh SM**. Potentially inappropriate medications prescribing according to Beers criteria among elderly outpatients in Jordan: a cross sectional study. Pharm Pract (Granada). 2019 Apr-Jun;17(2):1439.
- Al-Qudah RA, Al-Badriyeh D, Al-Ali FM, **Altawalbeh SM**, Basheti IA. Cost-benefit analysis of clinical pharmacist intervention in preventing adverse drug events in the general chronic diseases outpatients. J Eval Clin Pract. 2020 Feb;26(1):115-124. doi: 10.1111/jep.13209. Epub 2019 Jun 24.
- Alshogran OY, Al-Eitan LN, **Altawalbeh SM**, Khalil AA, Alqudah MAY, Oweis AO, Aman HA, Alhawari HH. Investigating the Contribution of NPSR1, IL-6 and BDNF Polymorphisms to Depressive and Anxiety Symptoms in Hemodialysis Patients. Prog Neuropsychopharmacol Biol Psychiatry. 2019 Aug 30; 94:109657.
- Abdul-Razzak KK, Alshogran OY, **Altawalbeh SM**, Al-Ghalayini IF, Al-Ghazo MA, Alazab RS, Halalshah OM, Sahawneh FE. Overactive bladder and associated psychological symptoms: A possible link to vitamin D and calcium. Neurourol Urodyn. 2019 Apr;38(4):1160-1167.
- **Altawalbeh SM**, Manoon NA, Ababneh MA, Basheti IA. Respiratory tract infection-induced asthma exacerbations in adults with asthma: assessing predictors and outcomes. J Asthma. 2020 Mar;57(3):231-240.

- **Altawalbeh SM**, Abu-Su'Ud R, Alefan Q, Momany SM, Kane-Gill SL. Evaluating intensive care unit medication charges in a teaching hospital in Jordan. *Expert Rev Pharmacoecon Outcomes Res.* 2019 Oct;19(5):561-567.
- **Altawalbeh SM**, Alshogran OY, Smith KJ. Cost-Utility Analysis of Apixaban versus Warfarin in Atrial Fibrillation Patients with Chronic Kidney Disease. *Value Health.* 2018 Dec;21(12):1365-1372.
- Alefan Q, Amairi R, **Tawalbeh S**. Availability, prices and affordability of selected essential medicines in Jordan: a national survey. *BMC Health Serv Res.* 2018 Oct 19;18(1):787
- Alshogran OY, Khalil AA, Oweis AO, **Altawalbeh SM**, Alqudah MAY. Association of brain-derived neurotrophic factor and interleukin-6 serum levels with depressive and anxiety symptoms in hemodialysis patients. *Gen Hosp Psychiatry.* 2018 Jul - Aug;53:25-31.
- **Altawalbeh SM**, Thorpe CT, Zgibor JC, Kane-Gill S, Kang Y, Thorpe JM. Economic Burden Associated with Receiving Inhaled Corticosteroids with Leukotriene Receptor Antagonists or Long-Acting Beta Agonists as Combination Therapy in Older Adults. *J Manag Care Spec Pharm.* 2018 May;24(5):478-486.
- **Altawalbeh SM**, Saul MI, Seybert AL, Thorpe JM, Kane-Gill SL. Intensive care unit drug costs in the context of total hospital drug expenditures with suggestions for targeted cost containment efforts. *J Crit Care.* 2018 Apr;44:77-81.
- **Altawalbeh SM**, Thorpe CT, Thorpe JM, Smith KJ. Cost Utility Analysis of Long Acting Beta Agonists Versus Leukotriene Receptor Antagonists in Older Adults with Persistent Asthma Receiving Concomitant Inhaled Corticosteroid Therapy. *Value Health.* 2016 Jul-Aug;19(5):537-43. doi: 10.1016/j.jval.2016.02.004. Epub 2016 Apr 6.
- **Altawalbeh SM**, Thorpe CT, Zgibor JC, Kane-Gill S, Thorpe JM. Anti-leukotriene Agents Versus Long Acting Beta Agonist in Older Adults with Persistent Asthma: A Comparison of Add-on Therapies. *J Am Geriatr Soc.* 2016 Aug;64(8):1592-600. doi: 10.1111/jgs.14235. Epub 2016 Jun 28.
- Benedict N, Felbinger M, Ridenour T, Anthes A, **Altawalbeh S**, Kane-Gill S. Correlation of patient-reported outcomes of sedation and sedation assessment scores in critically ill patients. *J Crit Care.* 2014 Dec;29(6):1132.e5-9. Epub 2014 Jul 2
- Abdul-Razzak KK, Khoursheed AM, **Altawalbeh SM**, Obeidat BA, Ajlony MJ. Hb level in relation to vitamin D status in healthy infants and toddlers. *Public Health Nutr.* 2012 Sep;15(9):1683-7. doi: 10.1017/S1368980012000730. Epub 2012 Mar 6.
- Al-Azzam SI, Alomari M, Khader YS, Almahasneh FA, Muflih SM, **Altawalbeh S**. Effects of Pioglitazone Add-On to Gliclazide and Metformin on Glycemic Control in Patients with Type 2 Diabetes. *Endocr Res.* 2012;37(1):7-11. Epub 2011 Oct 6.

### **Under Review**

- **Altawalbeh SM**, Wateska AR, Nowalk MP, et al. Cost-Effectiveness and Budget Impact Analyses of the 24-Valent Pneumococcal Conjugate Vaccine in Adults Aged 50 and Older, Under review in “Vaccine Journal”.

## **Accepted**

- **Altawalbeh, SM**, Sallam, NM, Alshogran, **OY**, Al-Khatib, M, Bani Amer, MS, Tahaine, L, Albsoul-Younes, A. The impact of medication reconciliation on discrepancies and all-cause readmission among hospitalized patients with chronic kidney disease: A quasi-experimental study. Journal of Pharmaceutical Policy and Practice 2025 April. DOI: 10.1080/20523211.2025.2488173.
- Kharaba, Z., **Altawalbeh, SM.**, Alin A, Noor A S, Yassen A, Mohammad A, Reema K, Hala Al-O, Feras J, Ahmad A, Yahya H D B, Lina I A, Sawsan A, Barbara R C, Mamoon A A. Antibiotic resistance awareness in the uae: nationwide insights on knowledge, attitudes, and perceptions in the post-outbreak era. Pharmacy Practice 2025 Jul-Sep;23(3):3289.

## **COURSES TAUGHT AT JUST**

1. PHAR 702 Applied statistics (MS Pharmacy)
2. PHAR 744 Pharmacoeconomics II (MS Pharmacoeconomics)
3. PHAR 747 Pharmacoeconomics Modelling Methods (MS Pharmacoeconomics)
4. PHAR 705 Design of clinical studies (MS Pharmacy)
5. PHAR 468 Marketing and Pharmacoeconomics (PharmD)
6. PHAR 570 Pharmacoeconomics (BS Pharmacy)
7. PHAR 565 Pharmaceutical marketing (BS Pharmacy)
8. PHAR 362 Pharmacy management (PharmD)
9. PHAR 366 Drug information resources (BS Pharmacy & PharmD)
10. PHAR 779 Selected topics: pharmacoepidemiology (MS Pharmacy)
11. PHAR 579 Communication skills in pharmacy (BS Pharmacy & PharmD)
12. PHMD 515 Drug Literature Evaluation
13. PHMD 699 Clinical Training: Comprehensive Pharmaceutical Care (PharmD)
14. PHMD 675 Clinical Training: Clinical Pharmaceutical Research (PharmD)
15. PHMD 693 Clinical Training: Drug information (PharmD)
16. PHMD 676 Clinical Training: Clinical Training: Disease State Management/Care (PharmD)

## **UNIVERSITY, FACULTY & DEPARTMENT MEMBERSHIP**

During my work at faculty of pharmacy/ JUST, I served as a member in the following committees:

- University Council 2021/2022
- Institutional review board (IRB) committee (JUST)
- Scientific days and conferences committee
- Library committee
- Committee of revising the clinical pharmacy master degree curriculum
- Department of clinical pharmacy scientific research committee
- Department of clinical pharmacy exam evaluation committee
- Social committee
- Simulation pharmacy committee

## **MASTER STUDENTS: ACADEMIC SUPERVISION & THESIS COMMITTEE**

Major Advisor:

- Nahlah Sallam (MS in Clinical Pharmacy, Summer-2022/2023). Thesis title: Assessment of medication reconciliation among hospitalized patients with chronic kidney disease: a retrospective cohort study and Cost Benefit Analysis.
- Eman Mahmoud Almestareehi (MS in Clinical Pharmacy, Spring-2021/2022). Thesis title: Indications and outcomes associated with intravenous albumin fluid use in the intensive care unit: a retrospective cohort study.
- Lina Muhsen Wali (MS in Clinical Pharmacy, Fall-2019/2020). Thesis title: Incidence, predictors, and outcomes of recurrent acute kidney injury: a retrospective cohort study.
- Ibtihal Ali Omar Ibrahim (MS in Clinical Pharmacy, Spring-2018/2019). Thesis title: Pharmaceutical promotion in Jordan as perceived by physicians.
- Nour Manoon (MS in Clinical Pharmacy, Fall-2017/2018). Thesis title: Respiratory tract infections in older adults versus younger adults with chronic asthma: Predictors and outcomes.
- Rawan Abu Su'ud (MS in Clinical Pharmacy, Fall-2017/2018). Thesis title: An economic analysis of intensive care unit drug utilization in a teaching hospital in Jordan

Co-Advisor:

- Hana Abo Jumaah. (MS Clinical Nutrition/JUST, Spring -2021/2022). Evaluation of Antimicrobial Stewardship Programs and antibiotic prescribing patterns in Ambulatory Care Settings in Jordan.
- Shatha Hallush. (MS Clinical Nutrition/JUST, Summer-2020/2021). A survey of use, attitude, and knowledge toward dietary and herbal products among adults during covid-19 pandemic in Jordan.
- Ruba Yousef Al-Abdallah (MS Clinical Pharmacy/JUST, Summer-2020/2021). Clinical Pharmacist Role In Increasing The Adherence To Recommendations Among Patients Using Isotretinoin: a Randomized, Controlled Study.
- Isrra Shatnawi (MS Clinical Pharmacy/JUST, Summer-2018/2019). Thesis title: Factors Associated with Medication Adherence, Quality of Life, and Outcomes of Anemia Therapy among Hemodialysis Patients in Jordan.
- Sanabil Alhusban (MS in Clinical Pharmacy, Summer-2018/2019). Thesis title: Assessing antibiotic prescribing patterns among pediatric patients within Jordanian outpatient healthcare settings.
- Rawan Ammori (MS in Clinical Pharmacy, Fall-2017/2018). Thesis title: The Prevalence of Potentially Inappropriate Medications Prescribing Among Elderly Outpatients in North of Jordan.
- Tasneem Alzghool (MS in Clinical Pharmacy, Fall-2017/2018). Thesis title: Pharmacy and therapeutic committees pharmacists' knowledge and attitudes towards pharmacoeconomics in Jordan.
- Rawan Ammari (MS in Clinical Pharmacy, Spring-2016/2017). Thesis title: Evaluating drug prices, availability and affordability in Jordan.

#### Internal Examiner:

- Malak alkhaleel (MS in Clinical Pharmacy, Spring- 2021/2022). Thesis title: The prevalence, risk factors, and lifestyle of premenstrual syndrome among jordanian females: a cross-sectional study
- Shorooq abu heshmeh (MS in Clinical Pharmacy, Fall- 2021/2022). Thesis title: Investigation of the factors associated with medication non-adherence, health-related quality of life, and disease control among outpatients with rheumatoid arthritis in jordan
- Mais Shqeirat (MS in Clinical Pharmacy, Summer 2019/2020). Thesis title: Treatment related problem in Jordanian hemodialysis patients.
- Mayssam Alkyam (MS in Clinical Pharmacy, Spring-2017/2018). Thesis title: Evaluate the clinical pharmacist's role in educating women about combined oral contraceptive pills' benefits.
- Eman Al Issa (MS in Clinical Pharmacy, Fall-2016/2017). Thesis title: The economic impact of smoking on health care resources in patients with chronic diseases in Jordan.
- Alaa Saadeh (MS in Clinical Pharmacy, Summer-2015/2016). Thesis title: Direct medical costs of breast cancer in the north of jordan.

External Examiner (Master degree):

- Asma Basheer Khamees (Master's Degree of Pharmacy Administration, The University of Jordan, Fall-2024/2025). Thesis title: The association between adherence to oral antidiabetic medications and cost sharing among patients with type II diabetes: a cross-sectional study from Jordan.
- Yasmeen Jabar Abdo Alsattar (MS in Pharmaceutical Sciences, Faculty of Pharmacy, Applied Science Private University, Summer-2021/2022). Thesis title: Assessment of the impact of pharmaceutical care services provided to pregnant women with anxiety and depression during the Covid-19 Pandemic.
- Amani Marwan Ayyash (MS in Pharmaceutical Sciences, Faculty of Pharmacy, Applied Science Private University, Spring-2021/2022). Thesis title: Novel COVID-19 vaccines: Anxiety and vaccination hesitancy among Jordanians and role of the pharmacist
- Rawa'a Al-Awaisheh (MS in Pharmaceutical Sciences, Faculty of Pharmacy, Applied Science Private University, Fall-2019/2020). Thesis title: Assessing prevalence of anxiety and depression among asthmatic adult patients and its effect on the quality of life and the level of asthma control.

External Examiner (PhD degree):

- Mahmoud Abedal-Kareem Shnaigat. (Doctor of Philosophy). School of health and society, University of Wollongong, Australia. Summer-2022/2023. Thesis title: Supporting Chronic Obstructive Pulmonary Disease (COPD) self-management using activation and health literacy in primary care settings.
- Leen Bassam Fino. (Doctor of Philosophy), Faculty of Medicine and Health, The University of Sydney, Spring-2020/2021. Thesis title: Ethical Decision-Making in Pharmacy Practice in Jordan.

## **ACTIVITES & COMMUNITY SERVICES**

February 2025	Serving on the Ministry of Health Committee to assess frameworks for the Jordanian Guidelines on Pharmacoeconomic Evaluation.
January 2024	Pharmaceutical Marketing Workshop; new strategies and approaches, Faculty of pharmacy, JUST
July 2022	Giving a workshop about biostatistics and data analysis using SPSS software for undergraduate students, Faculty of pharmacy, JUST

December 2019	Giving a workshop about biostatistics and data analysis using SPSS software for graduate students, Faculty of pharmacy, JUST
December 2019	Organizing lecture about Dawatech pharmacy management software and services given at JUST
October 2018	Giving a workshop about biostatistics and data analysis using SPSS software for graduate students, Faculty of pharmacy, JUST
April 2018	Participated in poster evaluation day for undergraduate students (OTC course), Faculty of pharmacy, JUST
March 2017	Attending the Program Learning Outcomes and Curriculum Mapping workshop, Faculty of Pharmacy, JUST
May 2017	Participated in poster evaluation day for undergraduate students (OTC course), Faculty of pharmacy, JUST
September 2016	Collaborative Institutional Training Initiative (CITI Program)
February 2016	Workshop of Improving Faculty Members Skills in Scientific Research. Academic Development & Quality Assurance Center. JUST, Jordan
November 8th, 2013	Workshop of “A Proven Method for Writing Successful Articles & Grants: The Reader Expectation Approach to Writing”. Office of Academic Career Development. University of Pittsburgh
December 2011	Endnote workshop, Falk library, University of Pittsburgh
October 2011	Attending the Science2011—Next Gen meeting, Pittsburgh, PA
2010	Patient counseling workshop, Drug Information Center, KAUH, Jordan.
2009-2010	Organized and participated in different workshops, campaigns & presentations focusing on: Communication skills and Health awareness, Faculty of Pharmacy, JUST, Jordan.