

# Curriculum Vitae

**Elizabeth J Unni**

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## Educational Qualifications

- **PhD in Pharmaceutical Socioeconomics**  
University of Iowa at Iowa City, IA May 2008
- **Masters in Business Administration**  
University of Louisiana at Monroe, LA May 2003
- **Bachelor of Pharmacy**  
College of Pharmaceutical Sciences, Manipal, India Jan 1998

## Professional Experience

### **Associate Professor & Chair of Social, Behavioral, and Administrative Sciences**

Touro College of Pharmacy, NY

**July 2019 – Present**

### **Adjunct Faculty, Department of Pharmacotherapy**

University of Utah, Utah

**February 2010 – June 2020**

### **Associate Professor of Pharmaceutical Sciences**

Roseman University of Health Sciences, Utah

**July 2017 – June 2019**

### **Assistant Professor of Pharmaceutical Sciences**

Roseman University of Health Sciences, Utah

**February 2009 – June 2017**

### **Adjunct Faculty, College of Business**

Roseman University of Health Sciences, Utah

**August 2010 – June 2019**

## Teaching

### Didactic Teaching

- Introduction to Pharmacy Profession to P1 students – Course coordinator.
- Leadership Elective to P2 and P3 students – Co-course coordinator

## Service

### Service (University)

- Member of Center for Excellence in Teaching & Learning (January 2020 – Present)

### Service (College of Pharmacy)

- Chair of Academic Standing and Remediation Committee (2019 – Present)
- Chair of Pharmaceutical Basic Sciences Department Chair Search Committee (2020 Spring)
- Member of Academic Appeals Committee (2019 – Present)

- Member of Awards, Honors, and Scholarships Committee (2019 – Present)
- Member of Co-curriculum and Portfolios Committee (2019 – Present)
- Member of Curriculum Committee (2019 – Present)
- Member of Learning Outcomes Committee (2019 – Present)
- Member of Task Committees and Ad hoc Committees

#### Service (Professional Organizations)

- 2020 – International Society of Quality of Life Annual Conference Plenary Session Expert Moderator
- 2019 – 2022 – Editorial Board Member with Research in Social and Administrative Pharmacy journal
- 2018 – 2021 - International Society of Quality of Life Patient Engagement SIG Chair Elect
- 2020 – 2021 - APhA-APRS Awards Standing Committee Member
- 2019 – 2020 – Society of Behavioral Medicine Leadership Institute Fellow
- 2019- 2020 – American Association of Colleges of Pharmacy Nominations Committee Member
- 2017 – 2019 – International Society of Quality of Life Education Workshop Committee Co-Chair
- 2016 -2019 – International Society of Quality of Life Communications Advisory Task Force Member
- 2018 – 2019 – American Pharmacists Association – APRS Education Standing Committee Member
- 2018 – 2019 - American Association of Colleges of Pharmacy Women’s SIG Mentoring Task Force Committee Member
- 2010 – current American Association of Colleges of Pharmacy Public Health SIG Development Committee member
- 2017 – 2018 – American Association of Colleges of Pharmacy Emerging Scholar Award Committee Member
- 2016 – 2017 – American Association of Colleges of Pharmacy SAS Programming Committee member

### **Research Activities**

**ORCID ID: <https://orcid.org/0000-0001-9968-4366>**

#### **Papers Published**

1. John EJ, Vavra T, Farris KB, et al. Workplace-Based Cardiovascular Risk Management by Community Pharmacists: Impact on Blood Pressure and Lipid Level. *Pharmacotherapy*, 2006; 26(10): 1511 – 1517.
2. Farris KB, John EJ, Jenkins J, Chrischilles E. Community pharmacy- based models of medication therapy management to improve medication safety. Report submitted to *Iowa State Department of Human Services* on the effectiveness of Medication Therapy Management provided by community pharmacists to high-risk patients, January 2006.
3. Brooks JM, Unni EJ, Klepser, DG, Ganther JM, Doucette WR, Farris KB. Factors affecting the demand for brown bag reviews in elderly. *Research in Social and Administrative Pharmacy*. 2008; 4: 309-319.
4. Alkhateeb F, Unni EJ, Latif DA, Shawaqfeh MS, Alrousan RS. Physicians’ attitude towards collaborative agreement with pharmacists and their perceptions of pharmacist’s responsibilities *JAPhA*, 2009; 49: 797- 800.
5. Unni EJ, Farris KB. Development of a new scale to measure self reported medication non-adherence. *Research in Social and Administrative Pharmacy*. Available online 9 October 2009. doi:10.1016/j.sapharm.2009.06.005
6. Unni EJ, Farris KB. Unintentional non-adherence and belief in medicines. *Patient Education and Counseling*. Available online 12 June 2010. DOI: 10.1016/j.pec.2010.05.006

7. Unni EJ, Shiyabola O, Farris KB. Invited Priority Paper Evaluation on “Treatment non-adherence in homebound elderly in a Spanish population”. *Aging Health*. December 2010
8. Unni EJ, Farris KB. Determinants of different types of medication non-adherence in cholesterol lowering and asthma maintenance medications: A theoretical approach. *Patient Education and Counseling*. 2011; 83(3): 382-390.
9. Unni EJ, Shiyabola O, Farris KB. Medication adherence: A complex behavior of medication and illness beliefs. *Aging Health*. 2013; 9(4): 377 – 387.
10. Unni EJ, Olson J, Farris KB. Establishing the validity of the MAR scale in patients taking cholesterol lowering medications and asthma maintenance medications. *Current Medical Research and Opinion*. 2014; 30(2): 211-221.
11. Liu Y, Unni EJ. Methodological issues of retrospective studies assessing health outcomes of potential clopidogrel–statin interaction. *International Journal of Pharmacy Practice*. 2014; 22(5): 360 -2
12. Unni EJ, Ashment R, Miller L, Draper A. Medication adherence in the homeless population in a Intermountain West city. *Innovations in Pharmacy*. 2014;5(2): 1-10.
13. Unni EJ, Farris KB. Medication non-adherence and beliefs in medicines over time in older adults. *Global Journal of Health Science*. 2015;8(5): 512017 doi:10.5539/gjhs.v8n5p39
14. Unni EJ, Shiyabola OO. Clustering Medication Adherence Behavior based on Beliefs in Medicines and Illness Perceptions in Patients Taking Asthma Maintenance Medications. *Current Medical Research and Opinion*. 2016; 32(1): 113-21
15. Unni EJ, Sharp L. Giving adherence intervention programs their due. Accepted for publication with *Current Medical Research & Opinion*. 2017; 11: 1 – 2. DOI: 10.1080/03007995.2017.1356709
16. Shiyabola OO, Unni EJ, Huang Y, Lanier C. The association of health literacy with illness perceptions, medication beliefs, and medication adherence among individuals with type 2 diabetes. *Research in Social and Administrative Pharmacy*. 2017; pii: S1551-7411(17)30686-1. doi: 10.1016/j.sapharm.2017.12.005.
17. Rose T, Unni EJ, Jones G. Factors Influencing Nutrition Label Reading Behavior in Individuals with Selected Chronic Diseases. *American Journal of Health Education*. 2018; 49(4): <https://doi.org/10.1080/19325037.2018.1486756>
18. Shiyabola OO, Unni EJ, Huang Y, Lanier C. Utilizing the Extended Self-Regulatory Model to Characterize Diabetes Medication Adherence: A Cross-Sectional Study. *BMJ Open*. 2018; 8: e022803. doi:10.1136/bmjopen-2018-022803.
19. Unni EJ, Gabriel S, Ariely R. A review of the use and effectiveness of digital health technologies in asthma patients. *Allergy, Asthma, & Immunology*. 2018; 121: 680 -691.
20. Unni EJ, Wagoner EV, Shiyabola OO. Utilizing a 3S (Strategies, Source, and Setting) approach to understand the patient’s preferences when addressing medication non-adherence in patients with diabetes: A focus group study in a primary outpatient clinic. *BMJ Open*. 2019; 9(1): e024789.
21. Shiyabola OO, Walbrandt DL, Unni EJ, Smith PD, Maurer, MA, Huang YM. Design and rationale of a mixed methods randomized control trial: ADdressing Health literacy, bEliefs, adheRence, and self-Efficacy (ADHERE) program to improve diabetes outcomes. *Contemporary Clinical Trials Communications*. 2019: doi: <https://doi.org/10.1016/j.conctc.2019.100326>
22. Unni EJ, Sternbach N, Goren A. Using the Medication Adherence Reasons Scale (MAR-Scale) to identify the reasons for non-adherence across multiple disease conditions. *Patient Preference and Adherence*. 2019; 13: 993 – 1004. doi: 10.2147/PPA.S205359
23. Rose TM, Unni EJ. A pilot evaluation of I’M HAPPY: An interactive module to halt abuse of prescriptions in preteens and youth. *Games for Health Journal*. 2020; 9(4): DOI: 10.1089/g4h.2019.0037
24. Chen P, Chang EH, Unni EJ, Hung M. Development of the Chinese Version of Medication Adherence Reasons Scale (ChMAR-Scale). *Int. J. Environ. Res. Public Health*. 2020; 17, 5578; doi:10.3390/ijerph17155578

### **Papers Published on Education Research**

25. Unni EJ, Zhang J, Radhakrishnan R, Smith K, Bridgen C, DeYoung M, Metzger T. Determining the academic performance of pharmacy students based on admission criteria in a non-traditional private pharmacy school. *Currents in Pharmacy Teaching and Learning*. 2011; 3(3): 192-198.
26. Kullgren J, Radhakrishnan R, Unni EJ, Hanson E, Zhang J, Ross T, Coffman R. Development, Implementation and Evaluation of an Integrated Elective Course in Pain Management and Palliative Care. *AJPE*. 2013; 77 (6): Article 121.
27. Unni EJ, Madrid L, Oderda G, Saokaew S. Quality of life of pharmacy students in the United States. *Currents in Pharmacy Teaching and Learning*. 2015;7(6): 753 – 763
28. Unni EJ, Mandal M, Radhakrishnan R, Johanson E, Stolte S, Jorvig E. Knowledge Retention of Basic Pharmaceutical Sciences in a PharmD program. *Currents in Pharmacy Teaching and Learning*. 2016;8: 827-832.
29. Unni EJ. Supporting Faculty in Successfully Producing and Publishing Educational Research: What Colleges and Organizations Can Do. *Am J Pharm Edu*. 2017; 81(1): Article 20.
30. Weathers T, Unni EJ. Five-year review of publication rates of Social and Administrative Sciences Pharmacy faculty in non-research intensive Colleges of Pharmacy. Accepted for publication with *Am J Pharm Edu*. 2018; 82(3): Article 6229.
31. Echeverri M, Unni EJ, Harpe S, et al. A Revised Scale of Cultural Competence Curriculum in Pharmacy Education: A Multi-School Validation Trial. *American Journal of Pharmaceutical Education*. 2018; <https://doi.org/10.5688/ajpe6602>
32. Rose T, Unni EJ. Using Drawings to Probe the Affective Experience of Pharmacy Students on Rotation: A Pilot Study. *Currents in Pharmacy Teaching and Learning*. 2018; 10(8): 1033 – 1040. doi: 10.1016/j.cptl.2018.05.011.
33. Gupta V, Velliyur V, Cone C, Unni EJ. A Qualitative Analysis of the Impact of Changes to Student Evaluation of Teaching. *American Journal of Pharmaceutical Education*. 2019; 83(9): doi: 10.5688/ajpe7110.
34. Cone C, Velliyur V, Gupta V, Unni EJ. Motivators, barriers, and strategies to improve response rate to student evaluation of teaching. *Currents in Pharmacy Teaching and Learning*. 2018; 10(12): 1543 - 1549
35. Unni EJ, Le MT, Whitaker A. Implementation of a Continuing Professional Development Course in a Longitudinal Didactic Curriculum for Pharmacy Students. *American Journal of Pharmaceutical Education*. 2019;83(8):7013. doi: 10.5688/ajpe7013
36. Cone C, Unni EJ. Achieving consensus using a modified Delphi Technique embedded in Lewin's change management model designed to improve faculty satisfaction in a pharmacy school. Accepted for publication in *Research in Social and Administrative Pharmacy*. 2020

### **Papers Published on Student/Resident Research**

37. Unni EJ, Lian N, Kuykendall W. Understanding community pharmacist's perceptions and knowledge about HIV PrEP therapy in a Mountain West state. *Journal of American Pharmacists Association*. 2016;56: 527 -532
38. Gordon C, Unni EJ, Montuoro J, Ogborn DB. Community pharmacist-led clinical services: Physician's understanding, perceptions, and readiness to collaborate in the United States. *International Journal of Pharmacy practice*. 2017; doi: 10.1111/ijpp.12421
39. Turner JB, Unni EJ. Prevalence of Lantus vial use beyond 28 days in a Medicaid population. *Journal of American Pharmacists Association*. 2018; 58(4S): S37 – S40
40. Tolentino VL, Unni EJ, Jaime ML, Ogborn DB, Kepka D. Utah pharmacist's Knowledge, Attitudes, and Barriers to HPV Vaccine Recommendation. *Journal of American Pharmacists Association*. 2018; 58(4S): S16 – S23

41. Balough MM, Nwankpa S, Unni EJ. Readiness of pharmacists based in Utah about pain management and opioid dispensing. *Pharmacy*. 2019; 7:11: doi:10.3390/pharmacy7010011
42. Payne K, Unni EJ, Jolley B. Impact of dispensing services in an Independent Community Pharmacy. *Pharmacy*. 2019; 7(2): 44. doi: 10.3390/pharmacy7020044.
43. Moya A, Unni EJ, Montuoro J, Desselle SP. Engaging pharmacy technicians for advances clinical support tasks in community pharmacies: A cluster analysis. *Journal of American Pharmacists Association*. 2019; 59(4S): S32 – S38 e1.
44. Lavasani R, Chung M, Beatty A, Lawrence P, Unni EJ. Opioid prescribing trends in one VA emergency department and dental clinic before and after implementation of opioid prescribing guidelines. Accepted for publication with *Mental Health Clinician*.

### **Book Chapter**

Unni EJ. Adherence, Compliance, and Concordance. In: Babar ZUD, ed. *The Encyclopedia of Pharmacy Practice and Clinical Pharmacy*. Cambridge, MA: Elsevier Press; 2019:27-37.

### **Invited Presentations**

Unni EJ, Shiyabola OO. Understand the Role and Importance of Health Literacy in Adherence Intervention Programs. Patient Adherence and Access Summit. March 20 – 21, 2016. Philadelphia, PA.

### **Symposium**

1. Unni EJ, Shiyabola OO, Myers L, Harris D. The impact of health literacy on medication understanding and use. Presented as a symposium for the 2017 American Academy on Communication in Healthcare in Baltimore, October 8-11, 2017.
2. Unni EJ, Shiyabola OO, Rao D. Patient engagement in the self-management of type 2 diabetes: lessons learned from various stakeholders. Presented as a symposium for the 2019 International Conference on Communications in Healthcare in San Diego, CA, October 28, 2019.

### **Webinar**

1. Unni EJ, Absolom K, Lavalley D, Coles T, Roberts N, Freel J. Patient engagement with PRO completion in clinical practice: Challenges and Solutions. Webinar Presented to International Society of Quality of Life, April 20, 2020.

### **Podium Presentations**

1. John EJ, Vavra T, Farris KB, et al. Work-place Cardiovascular Risk Management by pharmacists: Impact on Blood Pressure and Lipids. Paper presented at American Pharmacists Association Annual Meeting and Exposition, San Francisco, CA, March 2006.
2. John EJ, Farris KB. Understanding medication beliefs among older adults who intentionally and unintentionally miss their medications. Finalist for presenting at the Widerholt presentation at the Midwest Social and Administrative Pharmacy Conference, Minneapolis, MN, July 2006.
3. Unni EJ, Farris KB, Olsen J. Revision and validation of the revised Medication Adherence Reasons Scale (MAR-Scale). Paper presented at the ISPOR Annual Meeting, New Orleans, LA, May 20, 2013.
4. Unni EJ, Farris KB. Medication non-adherence and beliefs in medicines over time in older adults. Presented at the APhA Annual Meeting, March 28, 2014.

5. Unni EJ, Shiyabola OO. Classifying medication adherence behavior based on beliefs in medicines and illness perceptions: Results from a cluster analysis. Presented at the APhA Annual Meeting, March 27, 2015.
6. Shiyabola OO, Unni EJ, Lanier C, Huang Y. Understanding the connection of health literacy with patient beliefs, self-efficacy, and medication adherence. Presented at the APhA Annual Meeting, March 24, 2017.
7. Unni EJ, Wagoner E, Rose T. Insights from individuals with type 2 diabetes regarding diabetes patient education materials and their educational needs in diabetes medication management. Presented at the International Conference on Communications in Healthcare, October 29, 2019.
8. Unni EJ, Gupta S, Sternbach S. Estimating the reliability of the Medication Adherence Reasons Scale (MAR-Scale) in asthma and COPD and identifying the reasons for non-adherence. Presented at ISPOR, November 3, 2019.

### **Poster Presentations**

1. John EJ, Farris KB, Brooks JM. The effect of high-risk medications on visit time with physicians: Results from the NAMCS survey. Poster presented at Jakobsen Conference, University of Iowa, Iowa, March 2006.
2. Unni SK, John EJ. Prescribing stimulants for children diagnosed with attention deficit hyperactivity disorder: impact of physician visit characteristics. Poster presented at Academy of Managed Care Pharmacy Conference, Seattle, WA, April 2006.
3. John EJ, Farris KB, Brooks JM. The effect of high-risk medications on visit time with physicians: Results from the NAMCS survey. Poster presented at International Society for Pharmacoeconomics and Outcomes Research Annual International Meeting, Philadelphia, PA, May 2006.
4. Farris KB, McDanel DL, Swegle JM, John EJ, Haig J. Using P4 Assessment day to Identify areas for improvement: the University of Iowa experience. Poster presented at the American Association of Colleges of Pharmacy Annual Meeting, San Diego, CA, July 2006.
5. John EJ, Farris KB, Osterhaus M, Bullock T, Wilson J. Work-place smoking cessation program offered by community pharmacists. Accepted for poster presentation at the American Public Health Association Annual Meeting, Boston, MA, November 2006.
6. John EJ, Farris KB. Understanding medication beliefs among older adults who intentionally and unintentionally miss their medicines. Poster presented at Jakobsen Conference, University of Iowa, Iowa, March 2007.
7. Unni EJ, Farris KB. Forgetfulness in taking medications and beliefs in medications. Poster presented at American Pharmacists Association Annual Meeting and Exposition, San Diego, CA, March 2008.
8. Unni EJ, Farris KB, Brooks JM, Chrischilles EA, Doucette, WR, Sorofman, BA. Developing a new classification of medication non-adherence for cholesterol lowering medications. Poster presented at American Pharmacists Association Annual Meeting and Exposition, San Diego, CA, March 2008.
9. Higley A, Unni EJ, Wright K, Farris, KB, Chrischilles, EA. Comparison of DRPs by computerized versus pharmacist medication reviews. Poster presented at American Pharmacists Association Annual Meeting and Exposition, San Diego, CA, March 2008.
10. Alkhateeb F, Unni EJ, Latif DA, Shawaqfeh MS, Alrousan RS. Physicians' attitude towards collaborative agreement with pharmacists and their perceptions of community pharmacist's responsibilities in West Virginia. Poster presented at American Pharmacists Association Annual Meeting and Exposition, San Antonio, TX, March 2009.
11. Unni EJ, Ashment R, Miller L, Draper A. Medication adherence in the homeless population in a Intermountain West city. Poster presented at 2013 AACP Virtual Poster Symposium. May 22, 2013.
12. Unni EJ, Hung M. Developing a scoring algorithm for the Medication Adherence Reasons Scale. Poster presented at the APhA Annual Meeting, March 28, 2015.

13. Unni EJ, Shiyambola OO. Moderator effect of health literacy in the relationship between illness and medication beliefs and medication adherence. Presented at the American Pharmacists Association Annual Meeting & Exposition, Baltimore, March 4-7, 2016.
14. Gettman, DA, Aronson BD, Carter JT, Golchin N, Hardy YM, Hassan A, Mlodozienec KA, Morris NC, Nobles-Knight D, Park SK, Unni EJ. Challenges and opportunities for pharmacists in public health. Presented at the AACP Annual Meeting as the AACP Public Health SIG poster, Pharmacy Education, Anaheim, CA, July 24 – 25, 2016.
15. Rose TM, Unni EJ, Jones G. Analyzing the Need for Nutrition Education in the Management of Chronic Disease States. Presented at the APhA Annual Meeting, San Francisco, CA, March 24 – 25, 2017.
16. Shiyambola OO, Unni EJ. A Cluster Analysis of Medication Adherence, Beliefs in Medicines, and Illness Perceptions among Patients with Type 2 Diabetes. Presented at the APhA Annual Meeting, San Francisco, CA, March 24 – 25, 2017.
17. Goren A, Annunziata K, Unni EJ. Adapting the Medication Adherence Reasons Scale (MAR-Scale) for online administration across multiple comorbid conditions, modes of administration, and frequency of use. Poster presented at the ISPOR Annual International Meeting, Boston, MA, May 24, 2017.
18. Ruiz-Negron N, Unni EJ, et al. Assessing effects of a first cardiovascular event on adherence to statins prescribed for primary prevention: A claims-based analysis. Presented at the AMCP Nexus Meeting, Dallas, TX, October 16 - 19, 2017
19. Kudel I, Goren A, Unni EJ. Replicating the Medication Adherence Reasons Scale (MAR-Scale) factor structure in people using daily orals for depression, gastroesophageal reflux disease, rheumatoid arthritis, and epilepsy. Poster presented at the ISPOR 20<sup>th</sup> Annual European Congress, Glasgow, Scotland, November 4-8, 2017.
20. Balough m, Unni EJ. Perceptions of pharmacists based in Utah about pain management and opioid dispensing. Poster presented at the American Pharmacists Association Annual Meeting, Nashville, TN, March 16-19, 2018
21. Unni EJ, Lawrence P. Management of Chronic Disease Conditions by Pharmacists versus Other Healthcare Providers in the Veterans Affairs Healthcare Administration System. Poster presented at the American Pharmacists Association Annual Meeting, Nashville, TN, March 16-19, 2018.
22. Unni EJ, Shiyambola OO, Ruiz-Negron N, Weathers T, Olson C, Bellows B. Reasons for non-adherence with statins among patients who had a primary cardiovascular event. Poster presented at the International Society for Pharmacoeconomics and Outcomes Research Annual Meeting, Baltimore, DC, May 19 – 23, 2018.
23. Unni EJ, Wagoner E, Shiyambola OO. Utilizing the 3S framework to understand the patient's preference when addressing non-adherence on patients with diabetes. Poster presented at the International Society for Pharmacoeconomics and Outcomes Research Annual Meeting, Baltimore, DC, May 19 – 23, 2018.
24. Unni EJ, Goren A. Comparing rates and reasons for medication non-adherence across seventeen disease conditions, three modes of administration, and two frequencies of administration, using the Medication Adherence Reasons Scale (MAR-Scale). Poster presented at the International Society for Pharmacoeconomics and Outcomes Research Annual Meeting, Baltimore, DC, May 19 – 23, 2018.
25. Goren A, Unni EJ. Replicating and extending the four-factor structure of the Medication Adherence Reasons Scale (MAR-Scale) in pain, migraine, and sleep conditions among people using daily and weekly administered oral medications. Poster presented at the International Society for Pharmacoeconomics and Outcomes Research Annual Meeting, Baltimore, DC, May 19 – 23, 2018.

26. Unni EJ, Farahbakhshian S, Maculaitis M, Gupta S, Spalding W. Assessment of the internal consistency and concurrent validity of the Medication Adherence Reasons Scale (MAR-Scale) in an Attention Deficit/Hyperactivity disorder population-based sample. Poster presented at ISPOR, Copenhagen, Denmark, November 4, 2019.
27. Shiyabola OO, Pigarelli D, Unni EJ, Maurer M, Huang Y. Preliminary results from a mixed method randomized clinical trial: ADdressing Health literacy, bEliefs, adheRence and self-Efficacy (ADHERE) program to improve diabetes outcomes. Poster presented at the International Conference on Communication in Healthcare, San Diego, CA, October 28, 2019.
28. Virrueta NA, Shiyabola OO, Walbrandt D, Unni EJ, Smith PD, Maurer M. ADdressing Health literacy, bEliefs, adheRence and self-Efficacy (ADHERE) program to improve diabetes outcomes: preliminary results from a pharmacist-led randomized controlled trial. Poster accepted for presentation at the American Pharmacists Association Annual Meeting, Washington DC, March 20 – 23, 2020 (Conference canceled due to COVID-19).
29. Unni EJ, Shaloo G, Sternbach N. Trends of Non-adherence using the Medication Adherence Reasons Scale among type 2 diabetes medication users in the United States. Poster accepted for presentation at the International Society of Pharmacoeconomics and Outcomes Research Annual Meeting, Orlando, FL, May 20, 2020 (Conference canceled due to COVID-19).
30. Unni EJ, Shaloo G, Sternbach N. Using the Medication Adherence Reasons Scale (MAR-SCALE) to Identify the Reasons for Medication NON-Adherence Among Type 2 Diabetes, Migraine, and Depression Medication Users in JAPAN. Poster accepted for presentation at the International Society of Pharmacoeconomics and Outcomes Research Asia Pacific Annual Meeting, Virtual Meeting, Sep 14-16, 2020

#### **Poster Presentations on Educational Research**

31. Radhakrishnan R, Smith K, Unni EJ, Zhang J, Bridgen C, DeYoung M, Metzger T. Determining the academic performance of pharmacy students based on admission criteria in a non-traditional private pharmacy school. Poster presented at American Association of Colleges of Pharmacy Annual Meeting, Seattle, WA, May 2010.
32. Kullgren J, Unni EJ, Radhakrishnan R, Sebranek E, Zhang J, Rose T, Hanson E, Coffman R. Development, Implementation and Evaluation of an Integrated Elective Course in Pain Management and Palliative Care. Poster submitted at American Association of Colleges of Pharmacy Annual Meeting, San Antonio, TX, July 2011.
33. Unni EJ, Kullgren J, Radhakrishnan R. Longitudinal Study on the Effectiveness of an Integrated Elective Course in Pain Management and Palliative Care. Poster presented for American Association of Colleges of Pharmacy Annual Meeting, Kissimmee, FL, July 2012.
34. Unni EJ, Radhakrishnan R, Johanson E, Jorvig E, Stolte S. Knowledge retentions of basic and clinical science materials in a PharmD program. Poster presented at the 2014 AACP Annual Meeting in Grapevine, Texas.
35. Unni EJ, Madrid L, Christensen N, Oderda G, Saokaew S. Quality of life of pharmacy students. Poster presented at the 2014 AACP Annual Meeting in Grapevine, Texas.
36. Johanson E, Unni EJ, Whitaker E. Continuing Professional Development (CPD) course implementation – engaging students in portfolio building and reflective thinking. Poster presented for American Association of Colleges of Pharmacy Annual Meeting, National Harbor, Maryland, July 2015.
37. Unni EJ, Johanson E, Kale V, Yellepeddi V. Utility of a pharmacy student organization leadership retreat. Presented at the AACP Annual Meeting, Pharmacy Education, Anaheim, CA, July 24 – 25, 2016



38. Echeverri M, Unni EJ, et al. Measuring cultural competency in pharmacy education. Presented at the AACP Annual Meeting, Pharmacy Education, Anaheim, CA, July 24 – 25, 2016.
39. Lee S, Unni EJ, Park H. Using PCAT scores to explain academic performance in a 3-year PharmD program. Presented at the AACP Annual Meeting, Pharmacy Education, Anaheim, CA, July 24 – 25, 2016.
40. Oswald C, Nguyen S, Unni EJ. Identifying strengths of student pharmacists in Western pharmacy schools. Presented at the APhA Annual Meeting, San Francisco, CA, March 24 – 25, 2017.
41. Weathers T, Unni EJ. Five-year review of publication rates of Social and Administrative Sciences Pharmacy faculty in non-research intensive Colleges of Pharmacy. Poster presented at the American Association of Colleges of Pharmacy Annual Meeting, Nashville, TN, July 17, 2017.
42. Johanson E, Unni EJ, Cone C. Continuing Professional Development (CPD) course assessing development of self-awareness. Poster presented at the American Association of Colleges of Pharmacy Annual Meeting, Nashville, TN, July 17, 2017.
43. Williams E, Manley G, Lee S, Unni EJ. Evaluation of Student Pharmacist Participation in Advanced Practice Experience (APPE) with a Dual Licensed Pharmacist-Physician Assistant. Poster presented at the American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, July 22-23, 2018.
44. Velliyur V, Gupta V, Cone C, Unni EJ. Motivators and barriers to improve the response rate of student evaluations of teaching. Poster presented at the American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, July 22-23, 2018.
45. Brown B, Unni EJ, Rush A, Ralls B. Community pharmacist's perceptions regarding their role in the healthcare team of patients with chronic conditions. Poster presented at the APhA Annual Meeting, Seattle, WA, March 22 – 24, 2019.
46. Brown B, Unni EJ, Rush A, Norman J, Schmidt A. Prevalence of enhanced services provided by community pharmacies in Utah. Poster presented at the APhA Annual Meeting, Seattle, WA, March 22 – 24, 2019.
47. Gupta V, Vitale K, Williams E, Unni EJ. Viewpoints of residency program directors regarding the development of depressive symptoms in pharmacy residents. Poster accepted for presentation at the American Association of Colleges of Pharmacy Annual Meeting, Virtual Meeting, July 6-24, 2020.
48. Eiland LS, Shields KM, Smith SE, Covington EW, Edwards A, Kinney S, Unni EJ, Haines SL. Development and assessment of an AACP SIG faculty mentoring program. Poster accepted for presentation at the American Association of Colleges of Pharmacy Annual Meeting, Virtual Meeting, July 6-24, 2020.

#### **Posters Presented on Student/Resident Research**

49. Lian N, Kuykendall W, Unni EJ. Understanding pharmacists' perceptions about their roles in HIV PrEP therapy and their knowledge about HIV PrEP therapy. Poster presented at the APhA Annual Meeting in October 2015.
50. Lian N, Kuykendall W, Unni EJ. Utilizing Human Immunodeficiency Virus (HIV) post-exposure prophylaxis (PEP) kits for patients in the United States. Poster presented at the American College of Clinical Pharmacy Global Conference, San Francisco, CA, in October 2015.
51. Hammeren L, Strohecker J, Unni EJ. Using student pharmacists to address adherence to antidepressants in a Medicaid population. Poster presented at the American Managed Care Pharmacy Nexus Meeting, Orlando, FL, October 2015.
52. Gordon C, Unni EJ, Montuoro J, Ogborn DB. Community pharmacists in team-based healthcare delivery: Physician perceptions and proclivity for collaboration. Poster presented at the American Pharmacists Association Annual Meeting, March 2016.

53. Chen P, Chang EH, Unni EJ. Validation of the Taiwan Version of the Medication Adherence Reasons Scale in patients with hypertension. Presented at the International Social Pharmacy Workshop, Scotland, July 2016.
54. Tolentino VL, Unni EJ, Jaime ML, Ogborn DB, Kepka D. Utah pharmacist's perceptions of their role in Human Papillomavirus vaccine recommendation, administration, and follow-up on series completion. Presented at the APhA Annual Meeting, San Francisco, CA, March 24 – 25, 2017.
55. Turner JB, Unni EJ. Prevalence of Lantus vial use beyond 28 days in a Medicaid population. Presented at the APhA Annual Meeting, San Francisco, CA, March 24 – 25, 2017.
56. Weathers T, Unni EJ. Publication rates of pharmacy residents across the United States. Poster presented at the American Health System Pharmacists Midyear Meeting, Orlando, FL, December 3 – 7, 2017.
57. Moya A, Unni EJ, Montuoro J, Ogborn D. Development of an Assessment Tool to Evaluate Pharmacy Technician Engagement and Proficiency in Clinical Services Delivery in the Community Pharmacy Setting. Poster presented at the American Pharmacists Association Annual Meeting, Nashville, TN, March 16-19, 2018
58. Payne K, Unni EJ, Jolley B. Impact of dispensing services in an independent community pharmacy. Poster presented at the APhA Annual Meeting, Seattle, WA, March 22 – 24, 2019.
59. Hon M, Unni EJ, Montuoro J, Young W. Impact of integrating position-specific roles for comprehensive medication reviews into community pharmacy workflow. Poster presented at the APhA Annual Meeting, Seattle, WA, March 22 – 24, 2019.

## **Grants**

- Jaclyn Schwartz, Unni EJ (Consultant). Medication Adherence after Stroke. Funded by National Institutes of Health (NIH), Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Center for Medical Rehabilitation Research (NCMRR). 2019-2021. Received \$277,687
- Hon M, Unni EJ (Research preceptor). Impact of Integrating Position-Specific Roles for Comprehensive Medication Reviews into Community Pharmacy Workflow. APhA Foundation Incentive Grant. 2018. Received \$1000.
- Shiyabola, OO, Unni EJ (Co-PI). A randomized control trial mixed methods study to assess the impact of a health literacy tailored patient education/medication counseling program to improve clinical outcomes in patients with diabetes by enhancing patient's self-efficacy and illness and medication beliefs. Merck Investigator-Initiated Studies Program. 2017. *Received \$191,993*
- Rose T, Unni EJ (Co-PI). Helping Patients Put Together the PIECES: Patient-centered, Interactive Education for Chronic diseases. Roseman University College of Pharmacy 2016 external peer-reviewed intramural grant. *Received \$7,500.*
- Unni EJ (PI), Shiyabola OO, Bellows B. Estimating Statin Adherence and Patient Beliefs After an Initial Cardiovascular Event. PHRMA Health Outcomes Researcher Started Grant. Received \$100,000. July 1, 2016 - June 30, 2017.
- Unni EJ (PI), Rose T. I'M HAPPY project – American Medical Association Health Living Grant. Fall 2014. Received \$8000.
- Unni EJ (PI). Revision and validation of Medication Adherence – Reasons Scale in cholesterol lowering and asthma maintenance medications. Grant submitted to Intramural Research Grant at the University of Southern Nevada. Spring 2009. *Received \$10,000.*

## **Ancillary Research Activities**

- Journals
  - Reviewer for Medical Care

- Reviewer for Journal of American Pharmacist Association
- Reviewer for Research in Social and Administrative Pharmacy
- Reviewer for Patient Education and Counseling
- Reviewer for Journal of Patient Reported Outcomes
- Reviewer for PLOS ONE
- Reviewer for BMJ Open
- Reviewer for Integrated Pharmacy Research and Practice
- Reviewer for Journal of Behavioral Health
- Reviewer for the Journal of Pharmacy Technology
- Reviewer for Currents in Pharmacy Teaching and learning
- Reviewer for BMC Research Notes
- Reviewer for Patient Preference and Adherence
- Reviewer for Patient Centered Outcomes Research Institute (PCORI)
- Conferences
  - Reviewer for International Society For Pharmacoeconomics and Outcomes Research’s Annual Conference abstracts and posters and workshops
  - Reviewer for International Society for Quality of Life Research’s Annual Conference abstracts and posters, workshops, and symposiums
  - Reviewer for Society of Behavioral Medicine Annual Conference abstracts
  - Reviewer for American Pharmacists Association ESAS’s Annual Conference abstracts and posters
  - Reviewer for American Public Health Association’s Annual Conference abstracts and posters
  - Reviewer for the various Patient Reported Outcome modules developed by the ISPOR Distance Learning Program.
- Grants
  - Reviewer for AACP NIA grant program

### **Technical papers upon invitation**

- Invited by International Society for Pharmacoeconomics and Outcomes Research to develop the self-study module “PRO Instrument Development” for inclusion in the ISPOR Distance Learning Program.
- Worked with AACP Public Health SIG to compose a White Paper that provided a platform for coherent dialogue regarding the role of pharmacy practice in public health.
- Worked with AACP Public Health SIG to develop educational outcomes for pharmacy education and public health based on the Clinical Prevention Population Health Framework.
- Worked with AACP Public Health SIG to develop a poster presentation on the opportunities and challenges faced by pharmacists.

### **Honors**

- July 2019 – Received the Scholarship of CPE Award from American Association of Colleges of Pharmacy CPD SIG for the paper titled “Implementation of a Continuing Professional Development Course in a Longitudinal Didactic Curriculum for Pharmacy Students” which was published in AJPE
- 2019 – 2020 – Society of Behavioral Medicine Leadership Institute Fellow
- 2008 Recipient of Dissertation Fellowship, College of Pharmacy, University of Iowa, IA
- 2008 Rho Chi Pharmaceutical Honor Society
- 2007 Received Honorable mention for the paper submitted to the Jakobsen Conference in the Biological & Health Sciences Division, University of Iowa, Iowa in March 2007

- 2006 Finalist for Wiederholt podium presentation at the Midwest Social and Administrative Pharmacy Conference, University of Minnesota, Minnesota in July 2006
- 2006 Received first place for the paper submitted to the Jakobsen Conference in the Biological & Health Sciences Division, University of Iowa, Iowa in March 2006
- 2004 Recipient of Department Fellowship, Division of Clinical and Administrative Pharmacy, University of Iowa, IA
- 2003 Recipient of Outstanding MBA Graduate, University of Louisiana at Monroe, LA
- 2003 Beta Gamma Sigma Academic Society

### **Membership and Activities**

- 2009-present American Association of Colleges of Pharmacies (AACP)
- 2006-present International Society For Pharmacoeconomics & Outcomes Research (ISPOR)
- 2005-present American Pharmacists Association (APhA)
- 2013 – present International Society for Quality of Life Research (ISOQOL)