

Beatriz Manzor Mitrzyk, PharmD, BCPS, BCACP
bmitrzyk@med.umich.edu

Education

JUL 2016-APR 2019

Postdoctoral Research Fellowship in Clinical Translational Pharmaceutical Sciences,
University of Michigan College of Pharmacy, Ann Arbor, MI

JUL 1992-JUN 1993

Residency in Pharmacy Practice, University of Michigan Hospitals, Ann Arbor, MI

SEP 1988- JUN 1992

Doctor of Pharmacy, University of Michigan College of Pharmacy, Ann Arbor, MI

SEP 1986- AUG 1988

Pre-pharmacy, University of Michigan School of Literature, Science, and Arts, Ann Arbor, MI

Academic Experience

MAY 2019-Present

Clinical Assistant Professor, Assistant Research Scientist, Ambulatory Care Clinical Pharmacist,
University of Michigan College of Pharmacy, Michigan Medicine, Ann Arbor, MI

75% Research, 20% PCMH Pharmacist, 5% Teaching and Committee work

P723 Pharmacy Practice Skills III

P730 Seminar Fall 2019

SEP 2010-APR 2019

Adjunct Clinical Assistant Professor, University of Michigan College of Pharmacy, Ann Arbor, MI

P757 Aging Patient Fall 2016

P730 Seminar Fall 2018

SEP 2018-APR 2019

Senior Postdoctoral Fellow, University of Michigan College of Pharmacy, Ann Arbor, MI

85% Research, 10% PCMH Pharmacist, 5% Teaching

JUL 2016-SEPT 2018

Postdoctoral Fellow, University of Michigan College of Pharmacy, Ann Arbor, MI

85% Research, 10% PCMH Pharmacist, 5% Teaching

JUL 2016-APR 2019

Clinical Instructor, University of Michigan College of Pharmacy

SEP 2001-SEP 2016

Clinical Assistant Professor, University of Florida, Gainesville for Working Professional PharmD
Program

Regional Director, Clinical Practice Assessments 2008-2016

Course Coordinator, Clinical Practice Experiences I, II, III 2008-2016

Facilitator 2001-2008

Academic Experience (continued)

JUL 1997-SEP 2016

Adjunct Clinical Assistant Professor, University of Michigan College of Pharmacy, Ann Arbor, MI
Preceptor for rotations in: Drug Information (2007-2016); Advanced Community Practice (2001-2003); Infectious Disease (1996-1999); Internal Medicine (1993-1996)

FEB 2000-OCT 2001

Assistant Coordinator, Experiential Education, University of Michigan College of Pharmacy, Ann Arbor, MI

JAN 1994-JUL 1996

Adjunct Clinical Assistant Professor, Wayne State University College of Pharmacy and Allied Health Professions, Detroit, MI

Clinical Experience

APR 2019-Dec 2020

University of Michigan Transitions of Care

MAY 2017-Present

University of Michigan Patient Centered Medical Home (PCMH) Saline Health Center, West Ann Arbor Health Center, Ypsilanti Health Center, and East Ann Arbor Health Center

JAN 2008-FEB 2010

Diabetes Medication Therapy Management Clinical Pharmacist (Part-time), Pharmacy Solutions, Ann Arbor, MI/ THE Pharmacy, Ypsilanti, MI

OCT 2000-AUG 2003

Clinical Pharmacist/ Preceptor Advanced Community Practice (Part-time) Village Pharmacy II/ University of Michigan, Ann Arbor, MI

JUL 1996-MAR 1999

Clinical Specialist Infectious Diseases, Sinai Hospital, Detroit Medical Center. Detroit, MI

AUG 1993-JUL 1996

Clinical Specialist Internal Medicine, Coordinator Pharmacokinetic Consultation Service, Detroit Receiving Hospital and University Health Center, Detroit Medical Center. Detroit, MI

Certification

JUN 2016-Present

Board Certified Ambulatory Care Pharmacotherapy (BCACP) Specialist

SEP 2007-Present

Board Certified Pharmacotherapy Specialist (BCPS)- Recertified January 2015

Research Experience

NSDUH 2016 Data Analysis of Mental Health Disparities in Hispanics. HUM00147519. Sponsor: Frances and Kenneth Eisenberg University of Michigan Depression Center.

Mental Health Conditions Treatment in Hispanic Adults: 2015 BRFSS Analysis. HUM00126344. Sponsor: None.

Research Experience (continued)

Understanding Provider Perspectives Regarding the Use of Pharmacogenomics Testing for Treatment of Mental Health Issues among Early Adopters. HUM00108570. Sponsor: Progenity, LLC.

Determining the Feasibility, Acceptability, and Preliminary Effectiveness of PGx Testing in Primary Care HUM00121185. Sponsor: Mcubed Program at University of Michigan.

Medication management among individuals with neurodevelopmental disabilities (M-MIND) HUM00107874 Sponsor: National Institute on Disability, Independent Living, and Rehabilitation (NIDILR)

Medication Use in Individuals with Cerebral Palsy and Spina Bifida: a Retrospective Chart Review. HUM00116090. Sponsor: None.

Mobile Text Message Reminders, Time-To-Prescription-Pickup, and Patient Satisfaction. HUM00122584. Sponsor: None.

Clinical Pharmacists in Patient-Centered Medical Homes. HUM00050569. Sponsor: None.

Grants Awarded

2019-2022 Michigan Institute for Clinical and Health Research (MICHHR) KL2 Award over 2 years (converted from J to KL2) \$449,312

2019 MAR-JUL MICHHR J Award over 2 years \$ 84,000

2018-2020 University of Michigan Depression Center Frances and Kenneth Eisenberg Collaborative Innovations Award \$ 30,000

2009 American Pharmacists Association Incentive Grant \$ 1,000

Original Research Publications

Manzor Mitrzyk B, Kadri R, Farris KB, Ellingrod VL, Klinkman MS, Ruffin MT IV, Plegue MA, Buis LR. Using Pharmacogenomic Testing in Primary Care: Protocol for a Pilot Randomized Controlled Study. *JMIR Res Protoc* 2019;8(8):e13848

Farris KB, Manzor Mitrzyk B, Batra P, Peters J, Diez HL, Yoo A, McKay K, Friend K, Danko L, Waber R, Marshall VD, Choe HM. Linking the patient-centered medical home to community pharmacy via an innovative pharmacist care model. *J Am Pharm Assoc* (2003). 2019;59(1):70-78

Manzor Mitrzyk B, Bici A, Barras M, Holm J, Marshall VD, Farris KB. Implementation of a text message reminder service in an independent community pharmacy: A retrospective analysis of time to prescription pickup and satisfaction. *J Am Pharm Assoc* (2003). 2019;59(2S):S67-S70.

Mitrzyk B, Jarco PE, Rybak MJ. Stability and antimicrobial activity of gentamicin sulfate, tobramycin sulfate, and amikacin sulfate in polypropylene syringes for use in once-daily therapy. *Am J Health-Syst Pharm*. 1996;53:2855-2859.

Original Research Publications

In Progress

Manzor Mitrzyk B, Cook M, Godley E, Marshall V, Erickson S, Farris KB. Retrospective Analysis of Medication Use in Adults with Cerebral Palsy and Spina Bifida in University Ambulatory Care Clinics. Target journal: TBD

Manzor Mitrzyk B, Plegue MA, Kadri R, Guetterman T, Farris KB, Ellingrod VL, Ruffin MT, Klinkman MS, Buis LR. Understanding Prescriber Perspectives Regarding the Use of Pharmacogenomic Testing for Treatment of Mental Health Issues among Early Adopters. Target journal: *Personalize Medicine* – *accepted*

Manzor Mitrzyk B, Plegue MA, Kadri R, Guetterman T, Farris KB, Ellingrod VL, Ruffin MT, Klinkman MS, Buis LR. Understanding Physician Perspectives Regarding the Use of Pharmacogenomics Testing for Treatment of Mental Health Issues among Early Adopters: A Qualitative Analysis. Target journal: *Personalized Medicine* – *accepted*

Oral Presentations

Manzor Mitrzyk B, Salgado T, Newman S, Farris KB. Medication management among individuals with neurodevelopmental disabilities: Use of MedTracker pillbox, Medisafe application, and Parent/Caregiver Monitoring application. American Pharmacist Association 2018 Annual Meeting. Nashville, TN.

Manzor Mitrzyk B, Newman S, Farris KB. Tailoring a Medication Management System for Individuals with Neurodevelopmental Disabilities. 2018 International Society of Pharmacists Workshop. Lueven, Belgium.

Abstract Publications

Manzor Mitrzyk B, Santos M, Freeman J, Pinto R, Alegria M, Farris K. Systematic Review to Assess the Role of Culture on Antidepressant Use in Latinx with Depression: Quantitative Data. American Pharmacists Association 2020 Annual Meeting.

Manzor Mitrzyk B, Marshall V, Farris KB. Subpopulation, Acculturation, and Gender Effects on Prescription Medication Use for Major Depressive Episode Among US Hispanics: Analysis of the 2010 to 2013 National Survey on Drug Use and Health. American Pharmacist Association 2019 Annual Meeting. Seattle, WA.

Manzor Mitrzyk B, Plegue MA, Kadri R, Guetterman TC, Ellingrod VL, Farris KB, Ruffin MT, Klinkman MS, Buis LR. Provider Perspectives on the Use of Pharmacogenomic Testing for Treatment of ADHD and Depression among Early Adopters. 2017 National Network of Depression Centers Annual Conference. Ann Arbor, MI

Manzor Mitrzyk B, Farris KB. Treatment of Mental Health Conditions and Health-Related Quality of Life in US Hispanic Adults: Results from the 2015 Behavioral Risk Factor Surveillance System. American College of Clinical Pharmacy 2017 Virtual Poster Symposium. www.accp.com/2017vps

Manzor Mitrzyk B, Cook M, Godley E, Marshall V, Erickson S, Farris KB. Retrospective cohort study of medication use in adults with cerebral palsy and spina bifida. American Pharmacist Association 2018 Annual Meeting. Nashville, TN.

Abstract Publications (continued)

Manzor Mitrzyk B, Farris KB, Ellingrod VL, Klinkman MS, Ruffin MT, Kadri R, Plegue MA, Buis LR. Exploring the Use of Pharmacogenomic (PGx) Testing for Treating Depression and Anxiety in Primary Care. NCT03270891. 2017 North American Primary Care Research Group (NAPCRG) Annual Meeting.

Mitrzyk B, Jarco P, Smolarek R, Rybak MJ. Highly concentrated amikacin, gentamicin, and tobramycin stability and microbiological activity in plastic syringes. (abstract) Presented at 30th *American Society of Health-System Pharmacists Midyear meeting*, Las Vegas, NV. Dec 7, 1995.

Nassiri MR, Cameron MJ, Manzor B, Wotring LL, Townsend LB, Drach JC. Cytotoxicity of Tricirbine in Human Cells, a Compound with Potent Activity Against HIV. (abstract) Presented at 31st *International Conference Antimicrobial Agents and Chemotherapy Annual meeting*, Chicago, IL. October 1, 1991.

Book Chapter Publications

Chapter 2. Anti-infective Agents. *Pharmacotherapeutics for Advanced Nursing Practice*. Demler TL and Rhoads J. Jones and Bartlett Learning. Burlington, MA. 2016.

Manzor Mitrzyk B. Bacterial and mycobacterial infections. *Natural Standard Herb & Supplement Guide: An Evidence-Based Reference*. 1st Ed. 2010.

Review Article Publications

Manzor Mitrzyk B. Extensively resistant tuberculosis: Role of the pharmacist. *Pharmacotherapy*. 2008; 28(10):1243-54.

Richardson GS, Mitrzyk BM, Bramley TJ. Circadian rhythmicity and the pharmacologic management of insomnia. *Am J Manag Care*. 2007;13(5 Suppl):S125-8.

Navarro R, Mitrzyk BM, Bramley TJ. Chronic insomnia treatment and Medicare Part D: implications for managed care organizations. *Am J Manag Care*. 2007;13(5 Suppl):S121-4.

Stumpf JL, Mitrzyk B. Management of orthostatic hypotension. *Am J Hosp Pharm*. 1994;51:648-660.

Editorial Publications

Swidan S, Manzor Mitrzyk B, Samuels K. A call to action: Start a chain reaction. *JAPhA*. 2008;1.

Lectures and Presentations (Last 10 years)

2012-2014

“Clinical Practice Assessments I, II, III.” University of Florida College of Pharmacy- Working Professional PharmD Program. PHA 5869. Foundations.

“Patient Counseling” University of Florida College of Pharmacy- Working Professional PharmD Program. PHA 5692. Foundations.

2010-2012

“Introduction to Medication Therapy Management” University of Florida College of Pharmacy Working Professional PharmD Program. PHA 5869. Foundations.

Lectures and Presentations (Last 10 years-continued)

“Communication Skills for Pharmacists” University of Florida College of Pharmacy Working Professional PharmD Program. PHA 5869. Foundations.

Additional Writing Experience

SEPT 2001-Present

Medical Writer and Editor, Mitrzyk Medical Communications (MMC), LLC. Northville, MI.

2014-2018

Continuing Pharmacist Education (CPE) Project management, Scientific reviewer, and Medical writer, *Pharmacy Times* Office of Pharmacy Education.

2015-2016

Continued Medical Education (CME) Medical Writer, Projects in Knowledge.

2008-2015

Medical Writer DesignWrite, LLC, MedVal, LLC

Systematic review; clinical trial posters, abstracts, and manuscripts; standard response letters.

MAY 2006-JUNE 2011

Contributing Writer (Part-time), *Pharmacy Today* and *American Drug Info Line*. American Pharmacists Association. Northville, MI/ Washington, DC.

JULY 2009-APR 2010

Scientific Director, JB Ashtin Group, Inc. Plymouth, MI.

NOV 2005-MAR 2008

Medical Writer/Analyst (Part-time), Xcenda, LLC. Northville, MI/ Palm Harbor, FL.

SEPT 2004-SEPT 2005

Editor (Part-time) Gold Standard Multimedia, *Clinical Pharmacology Online*. Northville, MI/ Tampa, FL.

Membership in Professional Organizations

2009-2016

American Association of Colleges of Pharmacy (AACP) Teaching Practices in Pharmacy Practice Task Force Committee Member.

2009

University of Michigan College of Pharmacy - Alumni Society Board of Governors Member.

Accreditation Council for Pharmacy Education (ACPE) - Field Reviewer.

Michigan Pharmacists Association (MPA) - Public Affairs Committee (PAC).

2016-present

American College of Clinical Pharmacy (ACCP) Ambulatory Care Practice and Research Network (PRN).

2007-2012

Faculty Perspectives Page, *University Record* - University of Michigan.

Membership in Professional Organizations (continued)

2007

BCPS Item Writing Panel Member.

2000-2011

American Pharmacists Association (APhA) - Policy Review Committee (PRC) 2008-09;

Advanced Practice Institute: Diabetes Care 2008; Advocacy Key Contact Network 2008-2011;
Editorial Board

Member, *JAPhA* 2006-09; Editorial Board Member, *Pharmacy Today* 2002-04; Moderator,
APhA Annual Meetings 2008-09; APhA Annual Meeting, Poster Judge 2007-20

Academy of Pharmaceutical Research (APhA-APRS); Clinical Sciences Section 2007-2011-
Delegate 2008-09; Nominated, APhA-APPM Chair-elect, Hospital and Institutional Practice
Section; Nominated, Fellow APhA-APPM

Phi Delta Chi Professional Pharmacy Fraternity - Worth Keeper of Records and Seals 1990-91;
Member, Editorial Advisory Board, *The Communicator* 2008-10

Manuscript and Abstract Reviewer

Research in Social and Administrative Pharmacy (RSAP)

Journal of Managed Care Pharmacy (JMCP)

American Journal of Pharmaceutical Education (AJPE)

Journal of the American Pharmacists Association (JAPhA)

Pharmacotherapy Journal of Human Pharmacology and Drug Therapy

Volunteer Activities

Capuchin Soup Kitchen volunteer 2010-Present

Detroit Rescue Mission Ministries 2010-Present

Community Engagement

Member of the UM Council for Disability Concerns 2016-2019

Latinx Behavioral Health Steering Committee (LABSCO) of Southeastern MI: Informing
Participatory Research 2019-Present

Research/Academic Committee Engagement

Member University of Michigan CTHI Rehabilitation Engineering Research Center (RERC)

Technology Increasing Knowledge: Technology Optimizing Choice (TIKTOC) 2016-2019

Foreign Language

Fluent Spanish speaker and writer

bmm 9/20