

**Michelle Jacobs, PharmD, RPh, CDCES, BCACP**

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**Education and Credentials:**

2018 to present:	Board Certified Ambulatory Care Pharmacist
2005 to present:	Certified Diabetes Care and Education Specialist
2002 to present:	Certified Pharmacist Immunizer
1995-1996: PGY-1 Pharmacy Practice Residency <b>University of California</b> San Francisco, California School of Pharmacy	Residency completion certificate
1991-1995: <b>University of California</b> San Francisco, California School of Pharmacy	Doctor of Pharmacy June 1995
1989-1991 <b>University of California</b> San Diego, California	Animal Physiology Organic Chemistry
1987-1989 <b>San Diego Mesa College</b> San Diego, California	General Studies, with a focus in Western Civilization and Art History

**Pharmacy Practice Experience:**

November 2003 to present

**Assistant Clinical Professor** (2003-2020)

**Associate Clinical Professor** (2020-present)

Northeastern University

Bouve College of Health Sciences, School of Pharmacy and Pharmaceutical Sciences

Department of Pharmacy and Health Systems Sciences

Boston, Massachusetts

Responsibilities include educating and advising students in both didactic and experiential teaching forums. Also engaged in ongoing college service, scholarship, and professional activities.

*Course coordination:*

Comprehensive Disease Management, Module 2 (yearly, summer semester)

Comprehensive Disease Management, Seminar

Capstone project course

*Didactic lectures* have included: Diabetes Mellitus, Hypertension, Pain Management, Pathophysiology of Pain, Geriatrics Pharmacotherapy, The Pathophysiology of Aging, Alzheimer's disease, and the Pathophysiology of Alzheimer's Disease

*APhA Pharmacy Based Immunization Training program:* deliver live lecture portion and injection technique observer

*Experiential Advanced Pharmacy Practice teaching practice site:*

2013-present: DotHouse Health, Dorchester, MA

2003-2013: Whittier Street Health Center, Roxbury, MA.

Primary responsibility: maintaining a clinic practice which serves as a forum for experiential learning.

Clinical pharmacy services are provided in a collaborative practice model within adult chronic disease management, in particular, diabetes mellitus, hypertension, hyperlipidemia, COPD/asthma and pain management. In addition, pharmacy services handle all warfarin anticoagulation management and help solve any problem that may arise where therapeutics are involved.

Students are professionally integrated in a way that enhances the quality of patient care, assisting in provider education, and reducing health care disparities in an underserved population.

Spring 2004-2007

**Course Coordinator and Lecturer**

*Pharmacotherapeutics for Adults and Older Adults – Spring Semester*

Northeastern University

School of Nursing

January 2000 to 2004

**Course Coordinator and Lecturer**

*Advanced Pharmacology – Spring semester*

University of Massachusetts, Lowell

Department of Nursing

October 2001 to

November 2003

**Clinical Pharmacists Practitioner and Study Coordinator for:**

**PATHS:** *Pharmacist Assisted Treatment of Hyperlipidemia*, and

**PAMPERED:** *Pharmacist Assisted Medication Program Enhancing the Regulation of*

*Diabetes*

Lahey Clinic. Burlington, Massachusetts

1996- October 2001 **Assistant Professor of Clinical Pharmacy**

Massachusetts College of Pharmacy & Health Sciences (MCPHS)

Boston, Massachusetts

## Research and Publications:

- 2021 Jacobs M, Bartucca M, Douglass M, Gonyeau M, Matta T, Miller D, Rose T, Zgarrick D.  
**The Role of Student Pharmacists in the Immunization Process at Northeastern University.**  
*Pharmacy Times*. Supplements, October 2021 Immunization Guide for Pharmacists.
- 2020 Rose TN, Jacobs ML, Reid DJ, Bouwmeester CJ, Conley MP, Fatehi B, Matta TM, Barr JT.  
**Real-world impact on monthly glucose-lowering medication cost, HbA<sub>1c</sub>, weight, and polytherapy after initiating a GLP-1 receptor agonist.** *J Am Pharm Assoc* 2020 Jan-Feb;60(1):31-38
- 2017 Jacobs M, Sajjad A, Zheng K, Crosson J.  
**Integration of Home Blood Pressure Monitoring in Hypertension Management.**  
*Arch Clin Hypertens* 2017;3(1): 021-026.
- 2012 Jacobs M, Sherry P, Taylor L, Amato M, Tataronis G, Cushing G.  
**Pharmacist Assisted Medication Program Enhancing the Regulation of Diabetes (PAMPERED) Study**  
*J Am Pharm Assoc.* 2012;52:613–621.
- 2011 Kirwin, DiVall, Douglass, Gonyeau, Jacobs, McQueeny, Skirvin, Van Amburgh, Watanabe, Zgarrick.  
**Curricular revision incorporating pathophysiology, pharmaceutical care skills, self-care, and pharmacotherapeutics to enhance content delivery.**  
Abstract published in *American Journal of Pharmaceutical Education*, 75 Issue 5, Article 105.
- 2008 Jacobs M., Drews M.  
**A Four-Year Evaluation of an On-going Diabetes Group Medical Visit in an Urban Community Health Center.**  
Abstract published in *Diabetes*, 2008;57 supplement(1), A565, 2044-PO.

## Textbook forward:

Nurse's Handbook of Behavioral and Mental Health Drugs.  
*Blanchard & Loeb Publishers.*  
Co-authored the Forward of the 2003 edition.

## Internet Publication:

Published comments in the WebMD article 2001:  
*Elderly Patients: Be Careful What You Prescribe Them. Docs Need More Geriatric Education*

Drug Topics, "R.Ph. Involvement Improves A1c Levels in Type 2 Diabetes" Wayne Kuznar

## Reviewer:

- 2021 **Currents in Pharmacy Teaching and Learning**  
Reviewed manuscript for publication
- 2020 **ASHP 2020 Ambulatory Care Pharmacy Recertification Literature Study**  
Field tester
- 2015 **Dove Medical Press, Journal**  
Reviewed manuscript for publication
- 2013 **Clinical Audit**  
Dove Medical Press
- 2012 **Currents in Pharmacy Teaching and Learning**  
Reviewed manuscript for publication
- 2011 **Archives of Internal Medicine**  
Reviewed manuscript for publication

## Poster Presentations:

- 2021 Carleton S, Jacobs M  
**Implementing a Continuous Glucose Monitoring Program in an Outpatient Setting**  
RISE:2021 Research, Innovation, and Scholarship Expo, Northeastern University.
- Jacobs, M, Park C.  
**Evaluating methods to minimize the white coat effect in patient home blood pressure monitoring**  
American College of Clinical Pharmacy Annual meeting, October 2021. (virtual meeting).
- Gadecki E, Lee M, Jacobs M  
**Clinical Impact of Home Blood Pressure Monitoring on Hypertension**  
American College of Clinical Pharmacy Annual meeting, October 2021. (virtual meeting).  
and  
RISE:2021 Research, Innovation, and Scholarship Expo, Northeastern University.
- Armano G, Chang E, Jacobs M  
**Comparison of Warfarin Management Between the Year Before and During the COVID-19 Pandemic in a Federally Qualified Community Health Center**  
American Society of Health-System Pharmacist Midyear Clinical Meeting and Exhibition (virtual meeting). December 2021.
- 2020 Jacobs M, Pham DQ, Crosson, J.  
**Integrating a Lending Home Blood Pressure Monitoring Program in Hypertension Management.**  
Community Health Institute & Expo annual meeting of the National Association of Community Health Centers, August 2020 (virtual meeting).
- 2019 Barr JT, Rose T, Jacobs M, Reid DJ, Bouwmeester C, Conley M, Fatehi B, Matta TM.  
**Collaboration among ambulatory care faculty results in multi-center GLP-1 impact study.**  
American Association of Colleges of Pharmacy Annual Meeting, July 2019. Chicago, Illinois.
- Jacobs M, Rose TN, Reid DJ, Bouwmeester CJ, Conley MP, Fatehi B, Matta T, Barr JT.  
**Impact of adding a GLP-1 receptor agonist to the medication regimen.**  
American Diabetes Association's 79th Scientific Sessions, June 2019. San Francisco, California.
- Chun H, Laguna A, Jacobs M.  
**Quality improvement through utilization of TSOACs in an anticoagulation clinic.**  
American Pharmacists Association Annual Meeting & Exposition, March 2019.  
Seattle, WA  
and  
RISE:2019 Research, Innovation, and Scholarship Expo, Northeastern University.
- 2018 Jacobs M, Chen J.  
**Evaluating patient instructions in a pharmacist-run home blood pressure monitoring program.**  
American College of Clinical Pharmacy Global Conference on Clinical Pharmacy, October 2018.  
Seattle, WA.
- 2017: Miller D, Jacobs M, Reid D, Matta T, Conley M, Rose T.  
**Pre- and Post-Assessments to Evaluate Student Competency in Ambulatory Care Advanced Pharmacy Practice Experiences.**  
118th Annual Meeting of the American Association of Colleges of Pharmacy, July 2017.  
Nashville, TN.

McManus A, Reid D, Jacobs M, Conley M, Matta T, Bouwmeester C, Barr J, Rose T.  
**Impact of Adding a GLP-1 Receptor Agonist to a Diabetes Medication Regimen in an Ambulatory Care Setting**

2017 American College of Clinical Pharmacy Annual Meeting, October 2017. Phoenix, AZ.

Jacobs M, Pham DQ, Santel L, Crosson J.

**Integration of a home blood pressure monitoring program in hypertension management at a community health center**

2017 Community Health Institute (CHI) & EXPO, August 2017. San Diego, CA.

2016:

Rose T, Conley M, Clark H, Roberts R, Jacobs M, Stanley K, Zgarrick D

**Building a Direct-Entry Pathway Into a Doctor of Pharmacy Program**

2016 American Association of Colleges of Pharmacy Annual Meeting, Anaheim, California

Jacobs M, Lee C, Min M

**A Northeastern University School of Pharmacy capstone project: Diabetes program for at risk patients to prevent or delay the onset of type 2 diabetes at a community health center.**

RISE:2016 Research, Innovation, and Scholarship Expo, Northeastern University.

Jacobs M, Sajjad A, Zheng K

**Integration of Home Blood Pressure Monitoring in Hypertension Management**

Massachusetts Society of Health-System Pharmacist Annual Meeting, 2016. Newton, MA.  
and

RISE:2016 Research, Innovation, and Scholarship Expo, Northeastern University.

Jacobs M, Rosario E

**Anticoagulation Management at DotHouse Health**

RISE:2016 Research, Innovation, and Scholarship Expo, Northeastern University.

2015

Chen K, Mei XL, Park E, Jacobs M

**Pharmacist-Managed Blood Pressure Monitor Lending Program**

New England Institute of Ambulatory Care Pharmacists (NEIAP) 3rd Annual Spring Forum, Boston, MA.

2014

Abbruscato A, Jeffords A, Kolbig L, Jacobs M

**Collaborative patient-care approach to improving diabetes management in a Community Health Center**

RISE:2014 Research, Innovation, and Scholarship Expo, Northeastern University.

Bungay K, Bouwmeester C, Conley M, Gingras D, Jacobs M, Matta T, Reid D, Van Amburgh J  
on behalf of Northeastern University, School of Pharmacy.

**Northeastern School of Pharmacy American College of Clinical Pharmacy**

**A Portfolio of Innovative Community Activities from Northeastern University School of Pharmacy (NUSOP)**

2014 American College of Clinical Pharmacy Annual Meeting, Austin, Tx.

Chen K, Mei XL, Park E, Jacobs M

**Pharmacist-Managed Blood Pressure Monitor Lending Program**

New England Pharmacist Convention, Ledyard, CT.

2013

Somers L, Susi A, Wang L, Jacobs M

**Examination of patient variables on warfarin dosing and monitoring**

6<sup>th</sup> Annual Bouve Interprofessional Research Symposium, March 2013. Northeastern University.

Lento G, Mok S, Jacobs M  
**Implementation of an Opioid Safety Review Council at an Urban Community Health Center**

New England Pharmacist Convention, August, 2013. Ledyard, CT.  
and at

2013 American Society of Health-System Pharmacist Midyear Clinical Meeting and Exhibition, December 2013. Orlando, FL.

Campbell C, Jacobs M, Drews M, Lehmann C

**Integration of pharmacy students into an acupuncture clinic**

New England Pharmacist Convention, August 2013. Ledyard, CT.

Besignano A, Dansereau J, Jacobs M

**Evaluating the correlation of established risk factors and pancreatitis in patients taking glucagon-like peptide-1 (GLP-1) receptor agonists and dipeptidyl peptidase-4 (DPP-4) inhibitors**

Presented at: 2013 ASHP Midyear clinical meeting, December 2013. Orlando, FL.

2012

Jacobs M, Gagnon D

**Response of 25-hydroxyvitamin D serum concentrations to varying vitamin D replacement regimens in an urban Boston population**

2012 American Society of Health-System Pharmacist Midyear Clinical Meeting and Exhibition, Las Vegas, NV.

Bungay K, Bouwmeester C, Chim, Conley M, Furtek K, Jacobs M, McQueeney M, Pham, Reid D, Sherman R, Van Amburgh, J

**Northeastern University School of Pharmacy Society for Ambulatory Care**

8<sup>th</sup> Annual New England Pharmacist Convention. September 2012. Ledyard, CT.

2011

Kirwin, DiVall, Douglass, Gonyeau, Jacobs, McQueeney, Skirvin, Van Amburgh, Watanabe, Zgarrick

**Curricular revision incorporating pathophysiology, pharmaceutical care skills, self-care, and pharmacotherapeutics to enhance content delivery.**

2011 American Association of Colleges of Pharmacy Annual Meeting, Austin, TX.

Sharma M, Healy P, Drews M, Jacobs M

**The effects of adding liraglutide to an urban type 2 diabetic population**

2011 American Colleges of Clinical Pharmacy Annual Meeting, Pittsburg, PA.

Jacobs M, Schoch A, Shelly A, Drews M

**Weight neutral effects of insulin glargine in an African American and Hispanic population**

2011 Massachusetts Society of Health System Pharmacist Annual Meeting, Newton, MA.  
and

RISE:2011 Research, Innovation, and Scholarship Expo, Northeastern University.

2010

Jacobs M, Drews, M

**Clinical Pharmacy Services Integrated in Anticoagulation, Diabetes and Hyperlipidemia Management**

Patient Safety and Clinical Pharmacy Services Collaborative (PSPC) Poster Session at the APHA Annual Meeting, March 2010. Washington, D.C.

The poster received an award for having “The Greatest Impact on Direct Patient Care”

## **Oral Presentations:**

### **National:**

**Dialogue on Population of Focus – Creating a Clinical Pharmacist Run Anticoagulation Clinic.** Platform presentation at: Patient Safety and Clinical Pharmacy Services Collaborative. U.S. Department of Health and Human Services. Learning Session 2, December 2008. Washington DC.

**Creating Foolproof Systems: Patients and Practice Factors for Embedding Guidelines and Facilitating Spread.** Platform presentation at: Health Disparities Collaborative National Congress, September 2004. Nashville, Tennessee.

**Using Center Based Research and Evidence Based Practice to Address Disparities in Diabetes Among African Americans and Latino Patients in Roxbury.** Presented within session titled: Community-Based Research of Racial and Ethnic Disparities in Health: Guiding Policy and Practice. American Public Health Association Annual Meeting, November 2004. Washington, DC.

### **Regional:**

Invited panel speaker. **Pre-health Interdisciplinary Panel for Undergraduate Students Interested in Pursuing a Career in Health Care.** Hosted by: Northeastern University's American Medical Women's Association. Northeastern University. Boston, Massachusetts, February 2018.

**Learning How to Improve Communication Through a 12-year-old, a Previous Hostage Negotiator for the FBI, and a Spanish Translator.** Presented to Northeastern University Department of Pharmacy and Health Systems Sciences faculty, Boston, Massachusetts. June 2018.

**The Evidence Behind Home Blood Pressure Monitoring and How to Integrate It in Your Practice.** Presented to Boston Medical Center medical residents, DotHouse Health, Dorchester, Massachusetts. January 2017.

Invited panel speaker. **Physical Therapist - Pharmacy Panel: Opportunities for Interprofessional Collaboration.** Hosted by the American Pharmacists Association student chapter at Northeastern University. April 2017.

**Home Blood Pressure Monitoring.** Presented at the Research-In-Progress Seminar Series sponsored by the Department of Pharmacy and Health Systems Sciences Scholarship/Research committee, Northeastern University. Boston, Massachusetts. April 2017.

**Interprofessional Video for Pain Management Lectures.** Presented to Northeastern University Department of Pharmacy and Health Systems Sciences faculty. Boston, Massachusetts, September 2015.

**Examining the Efficacy of Treating Vitamin D Deficiency.** Presented at: Pharmacy Practice Research Forum, Northeastern University School of Pharmacy. 2011.

**Clinical Faculty Relationships Within Community Health Centers Work.** Presented at the Northeastern University Urban Research Exchange, Northeastern University, Boston, Massachusetts. 2009.

**Delivery System Design: Group Visits.** Presented at the Massachusetts Health Disparities Collaborative, Marlborough, Massachusetts. June 2016.

**Therapeutics Jeopardy.** Grand Rounds presented to the Boston University Geriatrics Section at Boston Medical Center, Boston, Massachusetts. September 2005.

## **Continuing Medical Education Presentations:**

### **Hypertension Guideline Update for Contemporary Pharmacy Practice**

Webinar CE series sponsored by the MA Dept of Public Health and facilitated by MCPHS.

Purpose: to support and develop community pharmacy enhanced services and engagement in DM and HTN.

**Medication Management Update for Type 2 Diabetes. A focus on GLP-1 Receptor Agonist and SGLT-2 Inhibitor Therapies.** Presented for: Continuing education program, Northeastern University, Bouve College of Health Sciences. June 2020.

**APhA Pharmacist Immunization Training Program** (6-hour live virtual program). Presented through: Continuing education program, Northeastern University, Bouve College of Health Sciences.  
2021: January, March, November  
2020: June, September, November  
2019: January, March  
2016: March

**Home Blood Pressure Monitoring Program at DotHouse Health.** Continuing Education Programs, Boston University School of Medicine. Presented at: Family Medicine department, DotHouse Health, Dorchester, Massachusetts. July 2019.

**CGM Freestyle Libre.** Presented at: Adult Medicine provider meeting, DotHouse Health, Dorchester, Massachusetts. January 2019.

**DotHouse Health Anticoagulation.** Presented at: Adult Medicine provider meeting, DotHouse Health, Dorchester, Massachusetts. March 2019.

**Hypertension Guideline Update.** Continuing Education Programs, Boston University School of Medicine (1-hour program). Presented at: Family Medicine department, DotHouse Health, Dorchester, Massachusetts. April 2018.

**New Insulin Products on the Market.** Continuing Education Programs, Boston University School of Medicine. Presented at: Family Medicine department, DotHouse Health, Dorchester, Massachusetts. November 2017.

**Update on the Cardiovascular Effect of Diabetes Medications.** Continuing Education Programs, Boston University School of Medicine. Presented at: Family Medicine department, DotHouse Health, Dorchester, Massachusetts. October 2014.

**Pain Management Clinical Pearls.** Continuing Education Programs, Boston University School of Medicine. Presented at: Family Medicine department, DotHouse Health, Dorchester, Massachusetts. October 2014.

**Medication in the Elderly.** Continuing Education Programs, Boston University School of Medicine. Presented at: Adult Medicine department, DotHouse Health, Dorchester, Massachusetts. October 2014.

**Alzheimer's Disease: A Matter of Remembering.** Presented at: Professional Development Days, Northeastern University, School of Pharmacy. Dec 2004.



## Professional Offices, Appointments, and Activities:

2022-2023	<b>Chair</b> , Workgroup #4: Standards 14 through 17 Self-study for ACPE accreditation. Northeastern University, School of Pharmacy and Pharmaceutical Sciences.
2009-Fall 2016	<b>Chair</b> , School of Pharmacy Admission Committee Doctor of Pharmacy program at Northeastern University, School of Pharmacy.
2008-2010	<b>Consultant</b> – Certified Diabetes Educator Whittier Street Health Center, Roxbury, MA
2003-2013	Pharmacy and Therapeutics Committee: Member. <b>Chair</b> of the Committee 2011, 2012, 2013 Whittier Street Health Center
2004 to 2005	<b>Vice Chair</b> of the Pharmacy and Therapeutics Committee MedMetrics Health Partners
2000 to 2002	<b>Advisory Board Member</b> : Blanchard & Loeb Publishers
Summer 1995	<b>Chief Resident</b> : Pharmacy Practice Residency, University of California, San Francisco

## Awards and Honors:

2021	<b>2021 APhA Academy of Pharmaceutical Research &amp; Science Clinical Research Paper Award</b> Manuscript: Rose TN, <b>Jacobs M</b> , Reid DJ, Bouwmeester CJ, ConleyMP, Fatehi B, Matta T, Barr JT. Real-world impact on monthly glucose-lowering medication cost, HbA1c, weight, and polytherapy after initiating a GLP-1 receptor agonist.
2010	<b>Poster presentation award: The Greatest Impact on Direct Patient Care</b> American Pharmacists Association Annual Meeting, Washington, DC.
2003	<b>Practitioner Excellence Award 2003</b> Awarded by the Massachusetts Society of Health Systems Pharmacists An award given “For demonstrating excellence in a patient-directed ambulatory pharmacy practice.”
1995	<b>Honorable Mention for the Bowl of Hygeia Award</b> An award given annually by students and faculty of the UCSF School of Pharmacy to the student who best demonstrates the qualities of an ideal pharmacist in scholastic achievement, action, thought and attitude.