

Matthew J. Labreche, M.Sc., Pharm.D., BCPS, BCIDP
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EDUCATION

2010- 2012

Master of Science

The University of Texas at Austin College of Pharmacy, Austin, TX

Major Professor: Christopher Frei, Pharm.D., M.S., BCPS

Thesis: *Oral Antibiotics for Methicillin-Resistant Staphylococcus aureus (MRSA) Skin and Soft Tissue Infections (SSTIs) in the Primary Care Setting: Incidence of Treatment Failure and its Additional Economic Impact*

2003- 2010

Doctor of Pharmacy

Northeastern University College of Pharmacy

Boston, MA

PROFESSIONAL EXPERIENCE

November 2016 - present

Infectious Diseases Clinical Pharmacy Specialist

Highland General Hospital

Oakland, CA

Highland Hospital Antimicrobial Stewardship Program Co-chair

- Led the revision of local antimicrobial Empiric Therapy Guide to promote evidence-based antimicrobial prescribing and reduced hospital wide broad-spectrum antimicrobial use by 22% from baseline in first 2 years
- Transformed annually updated paper Empiric Therapy Guide into electronic app-based guide now updated in real-time
- Reorganized stewardship program from post-prescription audit and feedback model to antimicrobial restriction model then to a point-of-care clinical decision support model
- Led clinical validation for 3 Public Hospital Redesign and Incentives in Medi-Cal (PRIME) and 2 Hospital Quality Improvement (QIP) pay-for-performance/reporting quality improvement metrics
- Led implementation of health system-wide electronic antimicrobial order sets
- Appointed antimicrobial subject matter expert (SME) for EPIC build; reviewed all antimicrobial related content during transition to EPIC
- Annual development of local Antibigram and continued maintenance of local Empiric Therapy Guide
- Successfully lead validation & implementation of NHSN/CMS AUR Reporting Project for entire health system
- Author quarterly Antimicrobial Stewardship Newsletter
- Lead development of local antimicrobial prescribing metrics to give individual providers feedback about antimicrobial prescribing rates

PROFESSIONAL EXPERIENCE (cont.)

Highland Hospital Infectious Diseases Clinical Pharmacy Specialist/ID Rotation Preceptor

- Daily teaching rounds with infectious diseases team
- Carry Antimicrobial Stewardship pager to respond to ID-pharmacy related questions throughout the day
- Lecture medical/surgical departments on topics related to antimicrobial stewardship/infectious diseases
- Develop rotation activities and schedule to provide learning opportunities for Highland Hospital ASHP-accredited PGY-1 residency program as well as P3-4 pharmacy students
- Precept 6-week ID rotation block and mentor ID-related residency projects for students and PGY-1 residents (24 residents, 30 students & 8 residency projects, to date)

Additional Committees

- **Infection Prevention and Control** (voting member)
- **COVID-19 Committee** (voting member)
- **PRIME/QIP Committee** (voting member, project lead)
- **Sepsis Committee** (voting member)
- **Residency Advisory Committee** (voting member)
- **Surgical Site Infection Performance Improvement Committee** (voting member)
- **Academic Half-day Faculty** (lecturer)

August 2013 – October 2016

Infectious Diseases Clinical Pharmacy Specialist

Kaiser Permanente Northwest
Oregon & Washington, USA

Infectious Diseases Clinical Pharmacy Specialist

- Retrospective antimicrobial review rounds for 2 hospital system
- Provide real-time response to positive blood cultures: Verigene
- Monitor ordering of restricted antimicrobials (inpatient/outpatient)
- Develop and monitor stewardship alerts using MedMined Software
- Precept 6-week PGY-1 resident ID rotation block
- Develop rotation activities and schedule to provide learning opportunities for KP NW ASHP-accredited PGY-1 residency program
- Mentor residents on ID-related residency projects

PROFESSIONAL EXPERIENCE (cont.)

Regional Infectious Diseases Therapeutic Liaison

- Point of contact for regional pharmacy management and other specialty departments regarding infectious diseases issues
- Inpatient/outpatient EPIC SmartSet development/management
- Identify therapeutic initiatives to improve patient care, appropriate antimicrobial use, and cost-effectiveness throughout region
 - Implemented inpatient/outpatient upper/lower respiratory tract initiative
 - Cost effective therapeutic alternatives
 - Shorten durations of treatment to coincide with national guidelines and current evidence
 - Estimated cost savings of \$800K in the first year
 - Implemented skin and soft tissue infection (SSTI) initiative
 - Developed outpatient order sets to limit the use of inappropriate broad-spectrum antimicrobials for SSTIs
 - Implemented oncologic chemotherapy antimicrobial prophylaxis regimens and guidelines
 - Using national guidelines and evidence-based literature, worked with KPNW Oncology Department to develop antimicrobial prophylaxis order sets for inpatients/outpatients receiving chemotherapy
 - Implemented intraabdominal infection inpatient order set
 - Using national guidelines and evidence-based literature, collaborated with KPNW Colorectal Surgery Department to develop order sets for appropriate risk-based therapy for inpatients with intraabdominal infections

July 2012 - June 2013

PGY-2 Infectious Diseases Residency

Johns Hopkins Hospital
Baltimore, MD

Residency Director: Edina Avdic, Pharm.D., MBA, BCPS, AQ-ID

July 2010 - June 2012

PGY-1 Pharmacotherapy Residency

The University of Texas at Austin College of Pharmacy and
University of Texas Health Science Center at San Antonio
Pharmacotherapy Education and Research Center
Austin, TX & San Antonio, TX

Residency Director: Laurajo Ryan, Pharm.D., M.Sc., BCPS

July 2011 - Feb 2012

Bristol-Myers Squibb (BMS) Internship (as part of MSc program)

Bristol-Myers Squibb Company
Health Economics and Outcomes Research: Virology
Plainsboro, NJ

Supervisor: Timothy Juday, PhD, MPA, Virology Director

TEACHING EXPERIENCE

April 2017 – present

Touro University – California College of Pharmacy Adjunct Faculty

- Precept P3-4 pharmacy students on Infectious Diseases rotation

April 2016 – November 2016

Oregon State University College of Pharmacy Affiliate Faculty

Pharmacy Therapeutics

- Developed and presented UTI lecture for Infectious Diseases module
- Facilitated discussion about the pathophysiology, treatment and prevention of UTI as well as the importance of antimicrobial stewardship pharmacists in UTI management

Jan 2011 – July 2012

University of Texas at Austin College of Pharmacy Teaching Assistant

PHR 296P: Advanced Pharmacotherapy Skills Lab

PHR 185P: Pharmacotherapeutics III Lab

PHR 183G: Basic Intravenous Admixtures Lab

- Facilitated disease and drug therapy discussions
- Instructed P3 students on case presentation technique, article analysis, and drug information review
- Critiqued and provided constructive feedback on patient case presentations, journal clubs and drug monographs
- Graded patient case assignments, patient case presentations, journal clubs, and drug monographs
- Evaluated students and provided constructive feedback on clean room procedures, pharmaceutical calculations, aseptic technique and manual manipulations
- Graded pharmaceutical calculations and live manual technique assignments

July 2010 – June 2012

University of Texas at Austin College of Pharmacy Academic Training Program

Teaching Certificate awarded after completion of the following:

- Attended Academic Training Workshop
- Facilitated four pharmacy practice courses
- Performed peer evaluation of a faculty member
- Developed a teaching philosophy statement
- Presented two lectures to health care professionals that were evaluated by mentor and audience members
- Co-supervision of two pharmacy students during one rotation period

AWARDS/HONORS/SCHOLARSHIPS

October 2018

PRIME Certificate of Appreciation

Awarded by Alameda Health System Department of Quality for outstanding efforts and commitment to improving patient care through antimicrobial stewardship quality improvement metrics

January 2013

The University of Texas at Austin Thesis of the Year 2012 Nomination

Nominated by the University of Texas at Austin College of Pharmacy

AWARDS/HONORS/SCHOLARSHIPS (cont)

November 2011

University of North Texas Health Science Center Education Grant

Awarded for: Frei C, Lee G, **Labreche M**, Young V, Winkler P. MRSA SSTIs in Primary Care Clinics: A STARNet Study

October 2011

Infectious Diseases Society of America Fellows Travel Grant

Awarded for: **Labreche M**, Forcade N, Parchman M, Du L, Nyren N, Trevino L, Pena J, Mann M, Munoz A, Trevino S, Wickes B, Mortensen E, Jorgensen J, Pollock B, Frei C. Moderate-Complicated Methicillin-Resistant *Staphylococcus aureus* (MRSA) Skin and Soft Tissue Infections (SSTIs) in 10 Primary Care Clinics: A STARNet Study

Presented at 2011 Infectious Diseases Society of America Annual Meeting
Boston, MA

November 2009

American Medical Informatics Association Distinguished Paper Award

Awarded for: Palchuck M, Fang E, Cygielnik J, **Labreche M**, Shubina M, Ramelson H, Hamann C, Broverman C, Einbinder J, Turchin A. An Unintended Consequence of Electronic Prescriptions: Prevalence and Impact of Internal Discrepancies

Presented at 2009 American Medical Informatics Association Annual Symposium
San Francisco, CA

September 2003 – May 2010

Northeastern University Excellence Scholarship

Top 25% of admitted students are considered for this merit based scholarship

PUBLICATIONS

Fraze BW, Sing A, **Labreche M**, Imani P, Ha K, Furszyfer del Rio J, Kreys E, McCabe R. Methicillin-resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa* community acquired pneumonia: Prevalence and locally derived risk factor in a single hospital system. *JACEP Open*.2023;e13061. <https://doi.org/10/1002/emp2.13061>

Klepser ME, Dobson EL, Pogue JM, **Labreche MJ**, Adams AJ, Gauthier TP, Turner RB, Su CP, Jacobs DM, Suda KJ on behalf of the Society of Infectious Diseases Pharmacists Community Pharmacy Antimicrobial Stewardship Task Force. A call to action for outpatient antibiotic stewardship. *J Am Pharm Assoc*, 2017;57:457-63.

Dobson EL, Klepser ME, Pogue JM, **Labreche MJ**, Adams AJ, Gauthier TP, Turner RB, Su CP, Jacobs DM, Suda KJ on behalf of the Society of Infectious Diseases Pharmacists Community Pharmacy Antimicrobial Stewardship Task Force. Outpatient antibiotic stewardship interventions and opportunities. *J Am Pharm Assoc*, 2017;57:464-73

Labreche MJ, Graber CJ, Nguyen HM. Recent updates on the role of pharmacokinetics-pharmacodynamics in antimicrobial susceptibility testing as applied to clinical practice. *Clin Infect Dis*, 2015;61:1446-1452.

Reveles KR, Juday TR, **Labreche MJ**, Mortensen EM, Koeller JM, Seekins D, Oramasionwu CU, Bollinger M, Copeland LA, Jones X, Frei CR. Comparative value of four measures of retention in expert care in predicting clinical outcomes and health care utilization in HIV patients. *PLOS One*, 2015;10:e0120953.

PUBLICATIONS (cont)

Hill JT, Tran KD, Barton KL, **Labreche MJ**, Sharp SE. Evaluation of the Nanosphere-Verigene BC-GN for the direct identification of Gram-negative bacilli and antibiotic resistance markers from positive blood cultures and the potential impact for more rapid antibiotic interventions. *J Clin Microbiol*, 2014;52:3805-7.

Nguyen HM, **Labreche MJ**, Graber CJ. Making sense of cephalosporin and amoxicillin/clavulanate susceptibility testing for uropathogens. *Clin Infect Dis*, 2014; 59:1349-50.

Labreche MJ, Lee GC, Attridge RT, Mortensen EM, Koeller J, Du LC, Nyren NR, Treviño LB, Treviño SB, Peña J, Mann MW, Muñoz A, Marcos Y, Rocha G, Koretsky S, Esparza S, Finnie M, Dallas SD, Frei CR. Treatment failure and associated costs in patients with methicillin-resistant *Staphylococcus aureus* skin and soft tissue infections treated in primary care settings: A South Texas Ambulatory Research Network (STARNet) study. *Journal of the American Board of Family Medicine* 2013;26(5):508-17.

Labreche MJ, Frei CR. Declining Gram-negative fluoroquinolone susceptibility: impact on pharmacokinetics/pharmacodynamics and clinical outcomes. *American Journal of Health-System Pharmacy* 2012; 69(21):1863-9.

Piazza G, Nguyen TN, Cios D, **Labreche M**, Hohlfelder B, Fanikos J, Fiumara K, Goldhaber SZ. Anticoagulation-associated adverse drug events. *American Journal of Medicine* 2011;124(12):1136-42.

Frei CR, **Labreche MJ**, Attridge RT. Fluoroquinolones in community-acquired pneumonia: guide to selection and appropriate use. *Drugs* 2011; 71(6):757-70.

Anger K, Szumita P, Baroletti S, **Labreche M**, Fanikos J. Evaluation of dexmedetomidine versus propofol-based sedation therapy in mechanically ventilated cardiac surgery patients at a tertiary academic medical center. *Critical Pathways in Cardiology* 2010;9(4):221-6.

Palchuck MB, Fang EA, Cygielnick JM, **Labreche MJ**, Shubina M, Ramelson HZ, Hamann C, Broverman C, Einbinder JS, Turchin A. An Unintended consequence of electronic prescriptions: prevalence and impact of internal discrepancies. *Journal of the American Medical Informatics Association* 2010; 17(4):472-6.

Fanikos J, Stevens LA, **Labreche M**, Piazza G, Catapane E, Novack L, Goldhaber SZ. Adherence to pharmacological thromboprophylaxis orders in hospitalized patients. *American Journal of Medicine* 2010; 123(6): 536-41.

Fiumara K, Piovella C, Hurwitz S, Piazza G, Niles CM, Fanikos J, Paterno M, **Labreche M**, Stevens LA, Baroletti S, Goldhaber SZ. Multi-screen electronic alerts to augment venous thromboembolism prophylaxis. *Thrombosis and Haemostasis* 2010; 103: 312-7.

Baroletti S, **Labreche M**, Niles M, Fanikos J, Goldhaber SZ. Prescription of fondaparinux in hospitalized patients. *Thrombosis and Haemostasis* 2009;101:1091-4.

Baroletti S, Piovella C, Fanikos J, **Labreche M**, Lin J, Goldhaber SZ. Heparin-induced thrombocytopenia (HIT): clinical and economic outcomes. *Thrombosis and Haemostasis* 2008;100:1130-5.

PUBLICATIONS (cont)

Turchin A, Wheeler HI, **Labreche M**, Chu JT, Pendergrass ML, Einbinder JS. Identification of documented medication non-adherence in physician notes. *AMIA Annual Symposium Proceedings* November 6th 2008:732-6.

LOCAL & NATIONAL MEETING PRESENTATIONS

January 2017-present

Highland Hospital Noon Conference. Daily educational conference for Highland Hospital Medical Residents, Oakland, CA. Presented 2-3x/year with updates on the following topics:

- Antimicrobial stewardship: Importance, updates and clinical pearls
- Urinary Tract Infections: Antimicrobial stewardship opportunities
- Lower respiratory tract infections: Antimicrobial stewardship opportunities

July 2020-July 2021

Academic Half Day Lectures. Weekly lecture series for Highland Hospital medical residents.

Presented the following lectures to all medical residents over the course of the year:

- Antimicrobial Basics
- Treatment of Urinary Tract Infections and Sexually Transmitted Infections

July 2021

Antimicrobial Stewardship: Importance and Local Opportunities. Grand Rounds CE presentation for physician staff St. Rose Hospital, Oakland, CA

May 2021

Catheter Associated UTI: More questions than answers? Grand Rounds CE presentation for Alameda Health System physicians, Oakland, CA

November 2019

Recent Updates in Orthopedic Infections Diseases. Daily educational conference for Alameda Health System Department of Orthopedic Surgery, Oakland, CA

April 2017

Antimicrobial Stewardship – A Shared Responsibility. CE presentation at Highland Hospital bi-annual CSHP-sponsored regional CE day, Oakland, CA

October 2016

Urinary Tract Infections – Diagnosis, Management, and Antimicrobial Stewardship Opportunities. CE presentation at Highland Hospital bi-annual CSHP-sponsored regional CE day, Oakland, CA

April 2016

Clinical Pearl - Expanding Use of Cephalexin for Urinary Tract Infections. CE Presentation at Oregon Society of Health-Systems Pharmacists 2016 Annual Seminar, Sunriver, OR

May 2013

Labreche M, Avdic E, Carroll K, Cosgrove S. Clinical Experience with Fosfomycin Use for Urinary Tract Infections at a Tertiary Care Medical Center. Poster at Eastern States Conference for Pharmacy Residents and Preceptors, Hershey, PA

LOCAL & NATIONAL MEETING PRESENTATIONS (cont)

December 2012

Frei CR, Juday TR, Jones X, **Labreche MJ**, Koeller JM, Hebden T, Seekins DW, Oramasionwu CU, Bollinger M, Copeland LA, Teshome B, Mortensen EM. Comparative Value of Four Measures of Retention in Expert Care in Predicting Clinical Outcomes and Healthcare Utilization in HIV Patients. Poster at International Society for Pharmacoeconomics and Outcomes Research Annual International Meeting, New Orleans, LA

October 2011

Labreche M, Forcade N, Parchman M, Du L, Nyren N, Trevino L, Pena J, Mann M, Munoz A, Trevino S, Wickes B, Mortensen E, Jorgensen J, Pollock B, Frei C. Moderate-Complicated Methicillin-Resistant *Staphylococcus aureus* (MRSA) Skin and Soft Tissue Infections (SSTIs) in 10 Primary Care Clinics: A STARNet Study. Poster at Infectious Diseases Society of America Annual Meeting, Boston, MA

PROFESSIONAL MEMBERSHIPS

July 2006 – present

American College of Clinical Pharmacy (ACCP)

August 2010 – present

Society Infectious Diseases Pharmacists (SIDP)

December 2015-December 2016

SIDP Antimicrobial Stewardship Committee Member

SIDP Antimicrobial Stewardship Certificate Program Module/Webinar Review Committee Member

January 2018 – December 2018

SIDP Political Advocacy Committee

May 2011 - present

Infectious Diseases Society of America (IDSA)

PROFESSIONAL CERTIFICATES

December 2013 – present

Board of Pharmacy Specialties: Board Certified Pharmacotherapy Specialist (BCPS)

BPS #: 3131060

December 2018 - present

Board of Pharmacy Specialties: Board Certified Infectious Diseases Pharmacist (BCIDP)

BPS #: B11100464

LICENSURE

California Board of Pharmacy License No.75849

Expiration March 31, 2026

Texas Board of Pharmacy License No. 49759

Expiration March 31, 2025

Idaho Board of Pharmacy License No. P10768

Expiration March 31, 2025

REFERENCES

Available upon request