

Geoffrey D Barnes

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CURRICULUM VITAE

Geoffrey D Barnes, M.D., M.Sc., FACC, RPVI
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Education and Training

9/99 – 5/03	Washington University in St. Louis, St. Louis, MO	B.S.
9/03 – 5/07	University of Michigan Medical School, Ann Arbor, MI	M.D.
7/14 – 5/15	University of Michigan, Ann Arbor, MI	M.Sc.

Postdoctoral Training

6/07 – 6/10	Intern and Resident in Internal Medicine, University of Michigan Health System, University of Michigan Medical School, Ann Arbor, MI
7/10 – 6/11	Chief Medical Resident, Department of Internal Medicine, University of Michigan Health System, University of Michigan Medical School, Ann Arbor, MI
7/11 – 6/14	Cardiology Fellow, University of Michigan Health System, University of Michigan Medical School, Ann Arbor, MI
7/13 – 6/14	Vascular Medicine Fellow, University of Michigan Health System, University of Michigan Medical School, Ann Arbor, MI (concurrent fellowship)
7/14 – 6/16	Advanced Research Fellow, NIH T32 Training Grant, Division of Cardiovascular Medicine, University of Michigan Medical School, Ann Arbor, MI
9/16 – 12/16	Training Institute for Dissemination and Implementation Research in Health, Washington, DC

Certification and Licensure

Board Certification Internal Medicine, 2010 – 2020 (ABIM# 313239)
 Cardiovascular Medicine, 2014-2024 (ABIM# 313239)
 Registered Physician in Vascular Interpretation, 2014-2024 (ARDMS# 182052)
 Vascular Medicine, 2015-2025

Medical Licensure Michigan Medical License, Registration #4301090085, exp 1/31/20
Michigan Controlled Substance, No 5315044955 exp 1/31/2020
US Dept of Justice DEA, exp 7/31/2019
NPI 1427258532

Other Certificates Lean Healthcare, 12/8/2016
Responsible Conduct of Research Training for K Awardees, 3/29/2017
Healthcare Six Sigma, Green Belt, 10/20/2017

Academic, Administrative and Clinical Appointments

Academic Appointments

7/14 – 8/17 Clinical Lecturer, Internal Medicine, Cardiovascular Medicine, University of Michigan Medical School
9/17 – present Assistant Professor, Internal Medicine, Cardiovascular Medicine, University of Michigan Medical School

Clinical Appointments

6/10 – 6/16 Staff Physician, Internal Medicine, Ann Arbor Veteran's Affairs Hospital
Ann Arbor, MI
7/14 – present Staff Physician, Cardiovascular and Vascular Medicine, University of Michigan Health System, Ann Arbor, MI

Research Interests

Dr. Barnes' research interests focus on 1) anticoagulation care, 2) venous thromboembolism, 3) quality of care and quality improvement, 4) implementation science, and 5) healthcare engineering (LEAN and work flow optimization)

Grants and Research Funding

Present and Active

Re-organizing Peri-procedural Anticoagulation Management

PI: Geoffrey D Barnes, MD

Source: NIH Loan Repayment Program (NHLBI)

Period: 7/17-9/19

Funding Ammount: \$70,000

Specific aims:

1. Develop a re-organized model of peri-procedural anticoagulation care within six diverse healthcare centers using system engineering methods
2. Develop an implementation strategy for a re-organized model of peri-procedural anticoagulation care of atrial fibrillation patients within a diverse group of healthcare systems

Developing an Implementation Strategy to Improve Peri-procedural Anticoagulation Management for Patients with Atrial Fibrillation (K01 HL135392-01)

PI: Geoffrey D Barnes, MD, MSc

Agency: NIH/NHLBI

Period: 1/17-12/21

Funding Amount: \$156,000 (Barnes Annual Direct)

Description: Many people with a common heart rhythm problem called atrial fibrillation must temporarily stop taking their “blood thinner” medication (e.g. warfarin) around the time of a surgery. These patients are commonly given shorter-acting blood thinners (“bridging anticoagulants”) hoping to prevent strokes. However, peri-procedural use of these shorter-acting bridging anticoagulants can actually lead to life-threatening bleeding events without preventing strokes. This research will develop a re-organized model of care for patients with atrial fibrillation to prevent harmful use of bridging anticoagulants when patients with atrial fibrillation undergo common surgical procedures.

Michigan Anticoagulation Quality Improvement Initiative (MAQI²)

PI: James B Froehlich, MD, MPH

Co-PI: Geoffrey D Barnes, MD, MSc

Agency: Blue Cross-Blue Shield of Michigan

Period: 9/08-present

Type: Collaborative Quality Initiative

Funding Amount: Approx \$2,000,000 yearly, automatically renewed

Specific aims: By bringing together multiple anticoagulation management services (AMS) across the state of Michigan, we aim to improve the quality of anticoagulation care for patients receiving warfarin therapy for any indication. Specifically, we will identify risk factors for adverse events, develop risk prediction models, identify key components of a successful AMS, perform cost analysis for anticoagulation care and develop recommendations and guidelines for AMS structure and design.

Cost of Warfarin Management for Out of Range INR Values

PI: James B Froehlich, MD, MPH

Co-PI: Geoffrey D Barnes, MD, MSc

Source: Pfizer/Bristol-Myers-Squibb

Period: 1/16-12/18

Funding Amount: \$265,250

Description: To perform time study analyses of anticoagulation clinic staff to estimate the cost of managing INR values, specifically comparing the time and staff cost differentials for in-range vs. out-of-range INR values. Also to survey the AC Forum membership and perform semi-structured interviews with anticoagulation staff leaders about current services provided and the barriers to providing DOAC care.

Previous Grants

Using Teach Back to Improve Knowledge and Adherence in the Anticoagulation Clinic

PI: Geoffrey D Barnes, MD, MSc

Co-I: Eva Kline-Rogers, NP, Tina Alexandris-Souphis, RN, Steve Erickson, PharmD

Source: Frankel CVC Micro Grant

Period: 1/16-12/17

Type: Pilot Grant Funding

Funding Amount: \$5000

Specific aims: To demonstrate efficacy and feasibility of the Teach Back method to improve patient knowledge regarding warfarin therapy in the anticoagulation clinic setting.

Improving Anticoagulation Decision making in Venous Thromboembolism

PI: Geoffrey D Barnes, MD

Source: NIH Loan Repayment Program (NHLBI)

Period: 7/15-6/17

Funding Amount: \$70,000

Specific aims:

1. Perform a systematic review of shared decision making interventions in the diagnosis and treatment of venous thromboembolism
2. Analyze the current use and cost implications of each oral anticoagulant for VTE care in office-based practices
3. Identify patient-specific values and preferences that impact the selection of specific oral anticoagulants in venous thromboembolism patients

Investigation of Physiologic Lower Extremity Pediatric Venous Anatomy and Valve Function

PI: Dawn Coleman, MD

Co-I: Geoffrey D Barnes, MD, MSc

Source: Frankel CVC Micro Grant

Period: 1/16-12/16

Type: Pilot Grant Funding

Funding Amount: \$4375

Specific aims:

1. Determine 'normal' pediatric venous valve function across the age range of 5-17 years as it relates to valve closure time (msec) and max velocity (cm/sec)
2. Determine the 'normal' incidence of accessory superficial veins in healthy children aged 5-17 (for example: anterior and posterior accessory superficial veins)
3. Determine the 'normal' spectrum of venous size in diameter (cm) of the pediatric deep and superficial veins

Development of a Shared Decision Making Tool for Atrial Fibrillation Anticoagulation

Co-PI: Geoffrey D Barnes, MD, MSc and James B Froehlich, MD, MPH

Funding Source: Bristol Meyers Squibb/Pfizer

Period: 8/14-6/16

Funding Amount: \$220,000

Specific aims:

1. To develop a shared decision making tool for anticoagulation in atrial fibrillation patients
 - a. This tool should incorporate both risk stratification for stroke and bleeding as well as specific patient preferences to optimize patient adherence to anticoagulant therapy
2. To implement a shared decision making tool for anticoagulation in atrial fibrillation

Honors and Awards

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|------|--|
| 2008 | Golden Beeper Recipient for top honors in medical student teaching
University of Michigan Medical School |
| 2013 | Conference Scholarship Recipient, 12 th National Conference on Anticoagulation Therapy, Phoenix, AZ |

March 2018

- 2013 Young Investigator Award, XXIV Congress of the International Society on Thrombosis and Haemostasis (ISTH), Amsterdam
- 2013 2nd Place, Fellow in Training Poster Competition, Michigan American College of Cardiology (ACC) Conference, Detroit, MI
- 2013 1st Place, Cardiovascular Medicine Fellow's Research Competition, University of Michigan Division of Cardiovascular Medicine, Ann Arbor, MI
- 2013 Inaugural Chair and Member, Young Professional Task Force, International Society on Thrombosis and Haemostasis (ISTH)
- 2014 Young Investigator Award, 60th SSC Meeting of the International Society on Thrombosis and Haemostasis (ISTH), Milwaukee, WI
- 2015 Young Investigator Award Finalist, 64th Annual Scientific Session of the American College of Cardiology, San Diego, CA
- 2017 Blue Ribon Peer Reviewer, Vascular Medicine
- 2017 Emerging Faculty Program Attendee, American College of Cardiology, Washington, DC

Membership in Professional Societies

- 2011 – Member and Fellow, American College of Cardiology (ACC)
- 2012 – Member and Fellow, American Heart Association (AHA)
Council on Peripheral Vascular Disease (PVD)
- 2013 – Member, International Society on Thrombosis and Haemostasis (ISTH)
- 2014 – Member and Fellow, Society for Vascular Medicine (SVM)

Editorial Positions, Boards, and Peer-Review Services

Editorial Positions

- 2014 – 2017 ACC Journal Scan, Editorial Team Leader
- 2017 – ACC Journal Scan, Associate Editor
- 2017 – Vascular Medicine, Editorial Board Member and Social Media Editor
- 2017 – American Journal of Medicine, Specialty Editor
- 2017 – Research and Practice in Thrombosis and Hemostasis, Editorial Board Member
- 2018 – Thrombosis and Haemostasis, Section Editor

Ad Hoc Reviewer

American Heart Journal
 American Journal of Managed Care
 American Journal of Medicine
 American Journal of Pharmacy Benefit
 Annals of Internal Medicine
 BMJ
 Canadian Family Physician
 Circulation: Cardiovascular Quality and Outcomes – Top Reviewer Award 2017
 Clinical Cardiology
 European Journal of Hematology
 Heart

Journal of the American College of Cardiology
 Journal of the American Heart Association
 Journal of the American Medical Association
 Journal of the American Medical Association: Cardiology
 Journal of General Internal Medicine
 Journal of Hospital Medicine
 Journal of Thrombosis and Haemostasis
 Journal of Thrombosis and Thrombolysis
 Thrombosis and Haemostasis
 Thrombosis Journal
 Vascular Medicine

Board Membership

2017 – National Certification Board for Anticoagulation Providers

Teaching Activities

Medical Student Teaching

10/2015 Small Group Faculty Facilitator, Cardiovascular Physiology Cases
 6/2016 Faculty, Patient-Based Scientific Inquiry (M4 Curriculum)
 9/2016 Faculty, Patient-Based Scientific Inquiry (M4 Curriculum)
 11/2017 Small Group Faculty Facilitator, Understanding and Improving the U.S. Healthcare System
 2/2018 Small Group Faculty Facilitator, Structured Scientific Problem Solving

Fellow and Resident Teaching

12/2014 Lecture, “Oral Anticoagulation”, House Officer Lunchtime Lecture Series
 3/2015 Lecture, “Anticoagulation Quality Improvement”, House Officer Quality Improvement Lecture Series
 8/2015 Lecture, “Introduction to Stata”, Robert Wood Johnson Clinical Scholars Program
 9/2015 Lecture, “Oral Anticoagulation”, House Officer Lunchtime Lecture Series
 10/2015 Lecture, “Venous Thromboembolism and Anticoagulation”, Cardiovascular Fellowship
 7/2016 Discussant, Internal Medicine Morbidity and Mortality Conference
 8/2016 Group Facilitator, HO-II Retreat, Research in Residency Session
 8/2016 Lecture, “Introduction to Stata”, Robert Wood Johnson Clinical Scholars Program
 9/2016 Discussant, Internal Medicine Morning Report Conference
 4/2017 Discussant, Internal Medicine Morning Report Conference
 4/2017 Discussant, Internal Medicine Ambulatory Morning Report Conference
 7/2017 Lecture, “Introduction to Stata”, IHPI Clinical Scholars Program
 8/2017 Discussant, Internal Medicine Morning Report Conference
 2/2018 Discussant, Internal Medicine Morning Report Conference

Conference Faculty

6/2012 Faculty, 23rd Annual Meeting of the Society of Vascular Medicine, Minneapolis, MN
 5/2014 Faculty, 15th Annual Antithrombotic Therapy Symposium, Dearborn, MI
 11/2014 Faculty, American Heart Association Scientific Sessions, Chicago, IL

2/2015	Faculty, 1 st Qatar Conference on Safe Anticoagulation Management: New Advances and Trends, Doha, Qatar
4/2015	Faculty, 13 th National Conference of the Anticoagulation Forum, Washington, DC
6/2015	Faculty, Oral Anticoagulants in Atrial Fibrillation, CME Webinar Series (affiliation with American College of Cardiology), San Jose, Costa Rica
6/2015	Faculty, 61 st Annual SSC Meeting at the ISTH, Toronto, ON, Canada
11/2015	Faculty, American Heart Association Scientific Sessions, Orlando, FL
4/2016	Faculty, American College of Cardiology Scientific Sessions, Chicago, IL
4/2016	Faculty, Society of Interventional Radiology Annual Meeting, Vancouver, BC, Canada
5/2016	Faculty, Taiwan Society of Cardiology Annual Meeting, Taipei, Taiwan
6/2016	Faculty, Society for Vascular Medicine 27 th Annual Meeting, Long Beach, CA
6/2016	Faculty, 2016 Pulmonary Embolism Symposium, Boston, MA
11/2016	Faculty, American Heart Association Scientific Sessions, New Orleans, LA
3/2017	Faculty, American College of Cardiology Scientific Sessions, Washington, DC
6/2017	Faculty, Society for Vascular Medicine 28 th Annual Meeting, New Orleans, LA
6/2017	Faculty, 2017 Pulmonary Embolism Symposium, Boston, MA
11/2017	Faculty, 31 st Annual Congress of the American College of Phlebology, Austin, TX
11/2017	Faculty, American Heart Association Scientific Sessions, Anaheim, CA
12/2017	Faculty, 10 th Annual Conference on the Science of Dissemination and Implementation in Health, Arlington, VA
3/2018	Faculty, American College of Cardiology Scientific Sessions, Orlando, FL

Conference Organizing and Planning Committee

5/2016	Planning Committee, 27 th Annual Scientific Session of the Society for Vascular Medicine, Long Beach, CA
3/2017	Planning Committee, ACC.17 Scientific Sessions, Pulmonary Hypertension and Venous Thromboembolism Working Group, Washington, DC
6/2017	Planning Committee, 20 th Annual Scientific Session of the Society for Vascular Medicine, New Orleans, LA
6/2017	Co-Director, 2017 Pulmonary Embolism Symposium, Boston, MA
3/2018	Planning Committee, ACC.18 Scientific Sessions, Pulmonary Hypertension and Venous Thromboembolism Working Group, Orlando, FL
6/2018	Planning Committee, 21 st Annual Scientific Session of the Society for Vascular Medicine, Chicago, IL

Mentorship

House Officers:

2011-12	Mentor, PGY 2,3, Alex Katz, University of Michigan, Research Fellow <i>Product:</i> 1 manuscript published (American Journal of Managed Care)
2012-13	Mentor, PGY 2,3, John Coatney, University of Michigan, Chief Medical Resident <i>Product:</i> 1 manuscript published (American Journal of Managed Care)
2013-16	Mentor, PGY 2, Brett Izzo, University of Michigan, Resident Physician <i>Product:</i> 1 manuscript published (Thrombosis Research)
2014-16	Mentor, PGY 2, Anum Minhas, University of Michigan, Resident Physician <i>Product:</i> 1 manuscript published (Journal of Thrombosis and Thrombolysis)
2014-15	Mentor, PGY2, Andrew Putnam, University of Michigan, Resident Physician

- Product:* 1 manuscript published (Journal of Thrombosis and Thrombolysis)
Kenneth R. Stark Award recipient for resident research (2015-2016)
- 2015-17 Mentor, PGY2,3 Akash Kataruka, University of Michigan, Resident Physician
Product: 2 manuscripts published (Vascular Medicine and Hospital Practice)
- 2015-16 Mentor, PGY3,4 Zach Hale, University of Michigan, Resident Physician
Product: 1 manuscript published (Journal of Thrombosis and Thrombolysis)
- 2016-17 Mentor, PGY 2, 3 Jeremy Slivnick, University of Michigan, Resident Physician
Product: 1 manuscript published (American Journal of Cardiology)
- 2016 – Mentor, PGY 4,5, Jordan Schaefer, University of Michigan,
Hematology/Oncology Fellow
Product: 2 oral abstract (American Society of Hematology 2016 & 2017, ASH
Abstract Achievement Award winner 2016 & 2017), 1 manuscript published
(Blood Adv), 1 manuscript under review

Medical Students:

- 2013-15 Mentor, Medical student and MPH candidate, Brian Salata
Product: 1 manuscript published (American Journal of Cardiology)

Pharmacy Resident:

- 2014-16 Mentor, Pharmacy Student, Emily Ashjian, PharmD
Product: 1 manuscript published (American Journal of Health-System Pharmacy)

Committee, Organizational and Volunteer Service

University of Michigan

- 2015 – 2017 Member, Atrial Fibrillation Quality Improvement Committee
2016 – Member, IHPI Early Career Faculty Advisory Council
2017 – 2018 Team Leader, Peri-endoscopy Anticoagulation Management Committee
2018 – Core Faculty, Michigan Medicine/IHPI Program on Value Enhancement
(MPrOVE)

Regional

- 2003 – 2007 Children’s Fundraiser Co-Chair and Vice President, Galens Medical Society,
University of Michigan Medical School
2010 – 2016 Interviewer, Washington University in St. Louis Alumni and Parents Admissions
Committee, Michigan Chapter
2013 – 2016 Co-chair, Washington University in St. Louis Alumni and Parents Admissions
Committee, Michigan Chapter

National

- 2014 – Member, FIT and Early Career Committee of PVD Council, AHA
2015 – 2017 Member, Early Career Committee Academic Workgroup, ACC
2015 – Member, Scientific Program Committee, SVM
2016 – Member, Pulmonary HTN and VTE Program Committee, ACC
2016 – Member, Social Media Committee, SVM
2016 – Member, Task Force on Performance Measures, ACC/AHA

- 2017 – Chairperson, Membership and Communication Committee, AHA PVD Council
- 2017 – Member, PVD Leadership Committee, AHA PVD Council
- 2017 – Member, PVD Scientific & Clinical Education Lifelong Learning Committee, AHA PVD Council
- 2017 – Member, Nominations Committee, SVM

International

- 2013 – 2015 Chair, Early Career Task Force, ISTH
- 2015 – 2018 Immediate Past Chair, Early Career Task Force, ISTH
- 2014 – Member, Education and Outreach Committee, ISTH

Volunteer Service (Community and Humanitarian)

- 2010 – 2015 Clinician, Delonis Medical Clinic, Ann Arbor, MI
- 2013 – Marketing Committee Member, Ann Arbor Symphony Orchestra, Ann Arbor, MI
- 2014 – Board of Directors, Ann Arbor Symphony Orchestra, Ann Arbor, MI
- 2016 – Vice President, Ann Arbor Symphony Orchestra, Ann Arbor, MI

Consulting Positions

- 11/2014 Advisory Board, Portola Pharmaceuticals
- 3/2016 Advisory Board, Aralez Pharmaceuticals
- 10/2016 Advisory Board, BMS/Pfizer (Role: Facilitator)
- 5/2017 Advisory Board, Portola Pharmaceuticals
- 7/2017 Advisory Board, Portola Pharmaceuticals
- 9/2017 Advisory Board, Portola Pharmaceuticals
- 10/2017 Advisory Board, Janssen Pharmaceuticals
- 12/2017 Advisory Board, BMS/Pfizer (Role: Facilitator)
- 5/2018 Advisory Board, Portola Pharmaceuticals (Role: Facilitator)
- 6/2018 Advisory Board, Janssen Pharmaceuticals

Visiting Professorship, Seminars, Webinars, and Extramural Invited Presentations

Extramural Invited Presentations or Session Moderator

- 10/2004 Invited Workshop, 34th Annual Meeting of the Association for the Behavioral Sciences & Medical Education, “Understanding and Using Active Learning Theory and Methods”, Vail, CO
- 11/2004 Invited Workshop, 115th Annual Meeting of the Association of American Medical Colleges, “Understanding and Using Active Learning Theory and Methods”, Boston, MA
- 7/2006 Invited Workshop, International Meeting of the Association for Medical Educators in Europe, “Understanding and Using Active Learning Theory and Methods”, Genoa, Italy
- 6/2012 Invited Speaker, 23rd Annual Meeting of the Society of Vascular Medicine, “Improving Existing Therapies: Vascular Registries and the Michigan Anticoagulation Quality Improvement Initiative (MAQI²) Experience”, Minneapolis, MN

- 5/2014 Invited Speaker, 15th Annual Antithrombotic Therapy Symposium, “Quality Measures in Anticoagulation”, Dearborn, MI
- 11/2014 Invited Speaker, American Heart Association Scientific Sessions, “Shared Decision Making in Venous Thromboembolism”, Chicago, IL
- 2/2015 Invited Speaker, 1st Qatar Conference on Safe Anticoagulation Management, “Extended Anticoagulation in Venous Thromboembolism”, Doha, Qatar
- 2/2015 Invited Speaker, 1st Qatar Conference on Safe Anticoagulation Management, “Registry-based Quality Improvement in Anticoagulation”, Doha, Qatar
- 4/2015 Invited Speaker, 13th National Conference of the Anticoagulation Forum, “Ways to Measure Quality Improvement in Anticoagulation Management”, Washington, DC
- 6/2015 Invited Speaker, 61st Annual SSC Meeting, “Nomenclature of the Oral Anticoagulant Medications: Recommendation of the Control of Anticoagulation SSC”, Toronto, ON, Canada
- 11/2015 Invited Speaker, American Heart Association Scientific Sessions, “Direct Oral Anticoagulants: Answers to FAQ’s”, Orlando, FL
- 11/2015 Invited Speaker, American Heart Association Scientific Sessions, “Periprocedural Management of Warfarin”, Orlando, FL
- 4/2016 Invited Speaker, American College of Cardiology Scientific Sessions, “Who Should Get Extended Anticoagulation?” Chicago, IL
- 4/2016 Session Moderator, American College of Cardiology Scientific Sessions, “VTE: The Acute Phase and Beyond” Chicago, IL
- 4/2016 Poster Professor, American College of Cardiology Scientific Sessions, “FIT: Moderated Poster Session” Chicago, IL
- 4/2016 Invited Speaker, Society of Interventional Radiology Annual Meeting, “DOACs: Answers to Frequently Asked Questions”, Vancouver, BC, Canada
- 5/2016 Invited Speaker, Taiwan Society of Cardiology Annual Meeting, “Combined Anticoagulant and Antiplatelet Use in Acute Coronary Syndromes and Coronary Stenting” Taipei, Taiwan
- 6/2016 Invited Speaker, Society for Vascular Medicine 27th Annual Meeting “ABCs of Anticoagulation, 2016 Edition” Long Beach, CA
- 6/2016 Invited Speaker, Society for Vascular Medicine 27th Annual Meeting “Year in Review: Venous Thromboembolism” Long Beach, CA
- 6/2016 Invited Speaker, Society for Vascular Medicine 27th Annual Meeting “DOACs vs. Warfarin: AFib and Acute Coronary Syndrome” Long Beach, CA
- 6/2016 Invited Speaker, Society for Vascular Medicine 27th Annual Meeting “DOAC Reversal Agents: Mechanisms, Dosing, and When to Use” Long Beach, CA
- 6/2016 Invited Speaker, Society for Vascular Medicine Annual Fellows Course “Evidence-based Approach to IVC Filters” Long Beach, CA
- 6/2016 Session Moderator, Society for Vascular Medicine 27th Annual Meeting “Warfarin vs. DOACs: How to Pick” Long Beach, CA
- 6/2016 Session Moderator, Society for Vascular Medicine 27th Annual Meeting “Pulmonary Embolism” Long Beach, CA
- 6/2016 Session Moderator, 2016 Pulmonary Embolism Symposium “Anticoagulation Therapy: The Backbone of Treatment” Boston, MA
- 6/2016 Invited Speaker, 2016 Pulmonary Embolism Symposium “Post-PE Anticoagulation: Important Considerations that Influence Selection of Agents” Boston, MA

- 11/2016 Invited Speaker, 21st Annual Pulmonary Grand Rounds “State of the Art in VTE Treatment: Clarity or Controversy?” St. Louis, MO
- 11/2016 Invited Speaker, American Heart Association Scientific Sessions “Peri-procedural Management of Direct Oral Anticoagulants”, New Orleans, LA
- 11/2016 Invited Speaker, American Heart Association Scientific Sessions “Reimagining Anticoagulation Clinics in the 21st Century”, New Orleans, LA
- 11/2016 Session Moderator, American Heart Association Scientific Sessions “Novel Strategies to Improve Anticoagulation Delivery”, New Orleans, LA
- 11/2016 Invited Speaker, American Heart Association Scientific Sessions “Guideline-based VTE Care: What’s New in 2016?”, New Orleans, LA
- 11/2016 Session Moderator, American Heart Association Scientific Sessions “State of the Art in Venous Thromboembolism Care”, New Orleans, LA
- 11/2016 Invited Speaker, American Heart Association Scientific Sessions “Beyond the DOACs: What’s Next?”, New Orleans, LA
- 3/2017 Invited Speaker, American College of Cardiology Scientific Sessions “Optimal Treatment Approaches of Cancer-Induced Thrombosis: Pro-DOAC”, Washington, DC
- 3/2017 Session Moderator, American College of Cardiology Scientific Sessions “Challenging the Standard of Care: Emerging Concepts in VTE Treatment and Prevention”, Washington, DC
- 3/2017 Session Moderator, American College of Cardiology Scientific Sessions “Maximally Effective Vascular Care: Vascular Collaborative Team Care in Action”, Washington, DC
- 6/2017 Session Moderator, Society for Vascular Medicine Scientific Sessions “Rapid Fire Session: Anticoagulation, 2017 Edition”, New Orleans, LA
- 6/2017 Invited Speaker, Society for Vascular Medicine Scientific Sessions “Avoiding the ED: Outpatient Management of Skin Bleeding and Nosebleeds”, New Orleans, LA
- 6/2017 Invited Speaker, Society for Vascular Medicine Board Review Course “DOAC Use and Reversal”, New Orleans, LA
- 6/2017 Session Moderator, 2017 Pulmonary Embolism Symposium “PE Severity and Risk Stratification”, Boston, MA
- 6/2017 Invited Speaker, 2017 Pulmonary Embolism Symposium “Post-Thrombotic Syndrome”, Boston, MA
- 6/2017 Invited Speaker, 2017 Pulmonary Embolism Symposium “I Cannot Get This Team to Collaborate”, Boston, MA
- 11/2017 Session Moderator, American College of Phlebology Annual Congress “Controversies in Anticoagulation”, Austin, TX
- 11/2017 Invited Speaker, American College of Phlebology Annual Congress “D-Dimer and Residual Vein Obstruction: Useful Predictors of DVT Recurrence?”, Austin, TX
- 11/2017 Invited Speaker, American College of Phlebology Annual Congress “To Bridge or Not to Bridge?”, Austin, TX
- 11/2017 Invited Speaker, American College of Phlebology Annual Congress “DOAC Use in Special Populations”, Austin, TX
- 11/2017 Session Moderator “PVD Workshop: Venous Thromboembolism”, Anaheim, CA
- 11/2017 Invited Speaker “Being a Good Mentee”, Anaheim, CA
- 12/2017 Session Moderator “Implementing Clinical Decisions Support for Health Care Teams”, Arlington, VA

- 3/2018 Session Moderator, Americanl College of Cardiology Scientific Sessions “Listening to their Legs: Strategies for Peventing, Detecting and Managing the Silent Killer of Perhipheral Artery Disease”, Orlando, FL
- 3/2018 Invited Pannelist, American College of Cardiology Scientific Sessions “Vasculo-Oncology: What You Really Need to Know about Thrombotic Complications of Cancer and Canter Therapeutics”, Orlando, FL
- 3/2018 Invited Speaker, American College of Cardiology Scientific Sessions “Acute PE: What is the Best Therapeutic Approach”, Orlando, FL
- 3/2018 Session Moderator, American College of Cardiology Scientific Sessions “What’s New and Controversial in VTE Management”, Orlando, FL

University of Michigan

- 7/2009 Lecture, “Overview of Anticoagulation”, M CORRP Summer Lecture Series, Ann Arbor, MI
- 7/2009 Lecture, “Approach to ECG’s”, Intern Lecture Series, University of Michigan, Ann Arbor, MI
- 6/2010 Lecture, “Overview of Anticoagulation”, M CORRP Summer Lecture Series, Ann Arbor, MI
- 1/2011 Lecture, “Venous Thromboembolism”, Resident Lecture Series, Ann Arbor VA, Ann Arbor, MI
- 7/2011 Lecture, “Overview of Anticoagulation”, M CORRP Summer Lecture Series, Ann Arbor, MI
- 12/2013 Lecture, “Venous Thromboembolism”, Cardiovascular Medicine Fellowship, University of Michigan, Ann Arbor, MI
- 9/2014 Lecture, “Anticoagulation: 2014 Update”, Medicine Faculty Hospitalist Educational Conference, University of Michigan, Ann Arbor, MI
- 9/2014 Grand Rounds Lecture, “Anticoagulation Challenges for the Cardiovascular Physician”, Cardiovascular Medicine Grand Rounds, University of Michigan, Ann Arbor, MI
- 12/2014 Lecture, “Anticoagulation: 2014 Update”, House Officer Lecture Series, University of Michigan, Ann Arbor, MI
- 3/2015 Lecture, “Registry-based Quality Improvement in Anticoagulation”, Quality Improvement Month Lectureship Series, University of Michigan, Ann Arbor, MI
- 3/2015 Lecture, “I Hear a Carotid Bruit – What Should I Do?”, 2nd Annual Practical Guide to Cardiovascular Imaging: What Referring Providers Need to Know, University of Michigan, Ann Arbor, MI
- 3/2015 Lecture, “Imaging Patients with Suspected Claudication”, 2nd Annual Practical Guide to Cardiovascular Imaging: What Referring Providers Need to Know, University of Michigan, Ann Arbor, MI
- 5/2015 Lecture, “Shared Decision Making in Venous Thromboembolism”, University of Michigan Decision Consortium, Ann Arbor, MI
- 9/2015 Lecture, “Anticoagulation: Introduction and 2015 Update”, House Officer Lecture Series, University of Michigan, Ann Arbor, MI
- 10/2015 Lecture, “Venous Thromboembolism and Anticoagulation”, Cardiology Fellow Lecture Series, University of Michigan, Ann Arbor, MI

- 10/2015 Lecture, “Anticoagulation: Safety and Efficacy in 2015”, Hematology Conference Series, University of Michigan, Ann Arbor, MI
- 10/2015 Faculty Discussant, “Apixaban for Atrial Fibrillation”, Pharmacology Journal Club, University of Michigan, Ann Arbor, MI
- 11/2015 Lecture, “VTE in the ICU: Diagnosis, Treatment and Prevention”, 28th Annual Update in Pulmonary and Critical Care Medicine, Ann Arbor, MI
- 1/2016 Grand Rounds Lecture, “Anticoagulation in 2016”, Cardiovascular Medicine Grand Rounds, University of Michigan, Ann Arbor, MI
- 5/2016 Lecture, “Anticoagulation for Venous Thromboembolism”, Algorithms for Modern Venous Care, Ann Arbor, MI
- 12/2016 Lecture, “Oral Anticoagulation in 2016”, Cardiology Fellow Lecture Series, University of Michigan, Ann Arbor, MI
- 12/2016 Lecture, “Peripheral Arterial Diseases and Venous Thromboembolism”, House Office Lecture Series, University of Michigan, Ann Arbor, MI
- 2/2017 Lecture, “Peri-procedural Anticoagulation Management” Aortic Disease Management Conference, Michigan Medicine, Ann Arbor, MI
- 5/2017 Lecture, “Cancer-associated Venous Thromboembolism”, Gynecology-Oncology Fellowship Lecture Series, University of Michigan, Ann Arbor, MI
- 7/2017 Lecture, “Stroke Prevention in Atrial Fibrillation: State of Art in 2017” Neurology Grand Rounds, University of Michigan, Ann Arbor, MI

Webinars

- 8/2014 Moderator, “Thrombotic Thrombocytopenia Purpura: New Insights in Pathogenesis and Treatment Modalities”, ISTH Webinar Series
- 2/2015 Moderator, “Controversies in Anticoagulation”, ISTH Webinar Series
- 5/2015 Moderator, “Combining Antiplatelet and Anticoagulant Therapy”, ISTH Webinar Series
- 12/2015 Presenter, “The Changing Characteristics of Atrial Fibrillation Patients Treated with Warfarin”, Anticoagulation Forum Webinar Series
- 1/2016 Moderator, “Monitoring of Anticoagulation” ISTH Academy Webinar Series
- 2/2016 Presenter, “Improving Anticoagulation Care: Warfarin and the Direct Oral Anticoagulants”, Lake Superior Quality Innovation Network Webinar Series
- 12/2017 Presenter, “Order Sets for Atrial Fibrillation” Anticoagulation Forum Webinar Series
- 2/2018 Presenter, “Periprocedural DOAC Management” ISTH Webinar Series

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