### Curriculum Vitae of

# **Zachary Ryne Noel**

PharmD, PhD, BCCP

UNC Eshelman School of Pharmacy | University of North Carolina at Chapel Hill
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#### **Education & Post Graduate Training**

Doctor of Philosophy, Health Professions Education University of Maryland, Baltimore Graduate School Baltimore, MD Advisor: Christina Cestone, PhD; Karen Gordes, DPT, PhD	2020 - 2023
Post-Graduate Year 2 Cardiology Pharmacy Residency University of Kentucky Chandler Medical Center Lexington, KY Program Director: Tracy Macaulay, PharmD	2015 - 2016
Post-Graduate Year 1 Pharmacy Practice Residency University of Kentucky Chandler Medical Center Lexington, KY Program Director: Aaron Cook, PharmD	2014 - 2015
Doctor of Pharmacy (summa cum laude) University of Kentucky College of Pharmacy Lexington, KY	2010 - 2014
Undergraduate Studies University of Kentucky Lexington, KY	2007 - 2010
Professional Experience	
Academic Appointments Teaching Associate Professor Division of Practice Advancement and Clinical Education UNC Eshelman School of Pharmacy University of North Carolina at Chapel Hill	2023 – Present
Clinical Associate Professor Department of Practice, Sciences, and Health Outcomes Research University of Maryland School of Pharmacy University of Maryland, Baltimore	July 2023 – December 2023
Assistant Professor Department of Practice, Sciences, and Health Outcomes Research University of Maryland School of Pharmacy University of Maryland, Baltimore	2016 - 2023

Administrative and Leadership Experiences Residency Program Coordinator Post-Graduate Year 2 Cardiology Pharmacy Residency Program University of Maryland School of Pharmacy Baltimore, MD	2017 - 2020; 2021 - 2022
Applied Therapeutics, Research, and Instruction at the University of Marylan Cardiology Collaborative University of Maryland School of Pharmacy Baltimore, MD	<b>d (ATRIUM)</b> 2016 - 2023
Chief Resident, UK Healthcare Residency University of Kentucky Medical Center Lexington, KY	2014 - 2016
Clinical Work Experience Clinical Pharmacy Specialist, Primary Cardiology Service University of Maryland Medical Center Baltimore, MD	2016 - 2023
Clinical Staff Pharmacist University of Kentucky Medical Center Lexington, KY	2014 - 2016
Float Staff Pharmacist Rite Aid Pharmacy Lexington, KY	2014 - 2016
Pharmacy Intern Baptist Health Lexington Lexington, KY	2010 - 2013
Pharmacy Technician & Intern Rite Aid Pharmacy Lexington, KY	2009 – 2014
Licensure and Certifications	
Basic Life Support Instructor American Heart Association Instructor ID: 09190819199	2019 - 2023
Board Certified Cardiology Pharmacist (BCCP) Board of Pharmacy Specialties Credential Number: B10100032	2018 – Present
<b>Board Certified Pharmacotherapy Specialist (BCPS)</b> Board of Pharmacy Specialties Credential Number: 3151679	2015 - 2022
Registered Pharmacist Kentucky (license number 017012); Maryland (license number 24428)	2014 – Present
Advanced Cardiac Life Support Certification for Healthcare Providers  American Heart Association  Certification Number: SCIXSDHMSG7W	2014 - 2023

University of Kentucky College of Pharmacy Lexington, KY

#### **Honors and Awards**

Teacher of the Year, PharmD Class of 2023, University of Maryland School of Pharmacy	2023
Junior Investigator Award, Cardiology Practice and Research Network, American College of Clinical Pharma	acy 2022
Medication Safety Award, Maryland Society of Health-System Pharmacists	2022
Francis S. Balassone Lecturer, University of Maryland School of Pharmacy	2022
AACP Teacher of the Year, University of Maryland School of Pharmacy	2020
Jeffrey Ensor Leadership Award, Maryland Society of Health-System Pharmacists	2018
Faculty Preceptor of the Year, University of Maryland School of Pharmacy	2018
Spirit Award, University of Maryland School of Pharmacy	2017
Impact Award, UK Healthcare Pharmacy Residency Program	2016
Post-Graduate Year 1 Research Award, UK Healthcare Pharmacy Residency Program	2015
James Rhodes Scholar Award, University of Kentucky College of Pharmacy	2014
Rho Chi Service Award, University of Kentucky College of Pharmacy	2013
Track & Field and Cross Country Athletic Scholarship, University of Kentucky Athletic Department	2008 – 2010

#### **Publications** (\*corresponding author; affiliated trainees underlined)

#### **Refereed Publications**

- 1. <u>S</u>, **Noel ZR**\*, Macaulay TE, Gale SE, Cain J. An Inter-Institutional PharmD Elective Course and Qualitative Analysis Exploring Student Engagement and Collaboration. *Currents in Pharmacy Teaching and Learning*. Mar;14(3):359-365. https://doi.org/10.1016/j.cptl.2022.01.018.
- 2. <u>Willeford A</u>, Leiman V, **Noel ZR\***. Impact of a Pharmacist-to-Dose Direct Oral Anticoagulant Protocol on Medication Errors at an Academic Medical Center. *J Am Coll Clin Pharm*. 2021. DOI: 10.1002/jac5.1503
- 3. Pincus KJ, Blackman AL, Suen SY, Devabhakthuni S, Gale SE, **Noel ZR**, Seung H, Sheth Pandi N. Statin gap in patients living with HIV: Assessing dose appropriateness. *HIV Medicine* 2021;00:1-7. DOI: 10.1111/hiv.13150
- 4. **Noel ZR\***, Flannery AH. The Implications of Conduction Abnormalities on Pharmacotherapy Decision-making. *Ann Pharmacother*. 2020 Nov 13;1060028020973387.
- 5. **Noel ZR\***, See VY, Flannery AH. Walk the Line-The Importance of Well-Informed Interpretation of QT Prolongation. *Ann Pharmacother*. 2021. Jan;55(1):123-126. doi: 10.1177/1060028020934718.
- 6. Reed BN, **Noel ZR**, Heil EL, Shipper AG, Gardner AK. Surveying the selection landscape: A systematic review of processes for selecting postgraduate year 1 pharmacy residents and key implications. *J Am Coll Clin Pharm*. 2020. https://doi.org/10.1002/jac5.1334
- 7. <u>Broscious R, Kukin A</u>, **Noel ZR**, Devabhakthuni S, Seung H, Ramani H, Reed BN. Comparing Diuresis Patterns in Hospitalized Patients With Heart Failure With Reduced Versus Preserved Ejection Fraction: A Retrospective Analysis. *J Cardiovasc Pharmacol Ther*. 2020. doi: 10.1177/1074248420960930
- 8. <u>Mouradjian MT</u>, <u>Plazak ME</u>, Gale SE, **Noel ZR**, Watson K, Devabhakthuni S. Pharmacologic Management of Gout in Patients with Cardiovascular Disease and Heart Failure. *Am J Cardiovasc Drugs*. 2020. doi:10.1007/s40256-020-00400-6.
- 9. <u>Plazak ME, Mouradjian MT</u>, Watson K, Reed BN, **Noel ZR**, Devabhakthuni S, Gale, SE. An aspirin a day? Clinical utility of aspirin therapy for the primary prevention of cardiovascular disease. *Expert Rev Cariovasc Ther*. 2019 Aug;17(8):561-573. doi: 10.1080/14779072.2019.1642108

- 10. **Noel ZR\***, Beavers CJ, Dunn SP, Schullo-Feulner AM, Caldas L, Dixon DL. Identifying Core Content for Electrocardiogram Instruction in Doctor of Pharmacy Curricula. *American Journal of Pharmaceutical Education*. 2018; 82 (10).
- 11. Longyhore DS, Dixon DL, **Noel ZR\***. A Modified Approach to Setting Curriculum Boundaries in Pharmacy School. *American Journal of Pharmaceutical Education*. 2018; 82 (9) Article 7010.
- 12. Watson K, <u>Broscious R</u>, Devabhakthuni S, **Noel ZR**. Focused Update on Pharmacologic Management of Hypertensive Emergencies. *Current Hypertension Reports* (2018) 20:56.
- 13. <u>Kukin A</u>, **Noel ZR**, Watson K. Through the Decades: β-Blocker Use and Outcomes in Acute Coronary Syndromes. *Cardiol Rev.* 2018 May/Jun;26(3):157-166. doi: 10.1097/CRD.00000000000197.
- 14. **Noel Z\***. Safety concerns regarding selexipag in pulmonary arterial hypertension. *Am J Health Syst Pharm*. 2018 Apr 1;75(7):420. doi: 10.2146/ajhp170884.
- 15. **Noel ZR\***, Kido K, Macaulay TE. Selexipag for the Treatment of Pulmonary Arterial Hypertension. *Am J Health-Syst Pharm*. 2017; 74:e360-6.
- 16. **Noel ZR**, Bastin ML, Montgomery AA, Flannery AH. Comparison of High-Dose Versus Standard Dose Oseltamivir in Critically Ill Patients with Influenza. *J Intensive Care Med*. March 2016. DOI 10.1177/0885066616638649.
- 17. **Noel ZR**, Beavers CJ. Proprotein Convertase Subtilisin/Kexin Type 9 Inhibitors: A Brief Overview. *Am J Med*. 2017 Feb;130(2):229.e1-229.e4. doi: 10.1016/j.amjmed.2016.09.021.
- 18. Cain J, **Noel Z**, Smith KM, Romanelli F. Four Rights of the Pharmacy Educational Consumer. *Am J Pharm Educ*. 2014 Aug 15;78(6):115. doi: 10.5688/ajpe786115.

#### **Books Chapters**

- 1) **Noel ZR\***. Ventricular Arrhythmias. *Pharmacotherapy First: A multimedia learning resource*. American Pharmacists Association. 2023.
- 2) Noel ZR\*, Tisdale JE. Chapter 6: Arrhythmias. ACCP Board Certification Review Course. 2020-2022.
- 3) Merry J, **Noel ZR**. Appropriate Post-Acute Anticoagulation Guidelines. Empirian Health Short Stay Prescribing Guidelines. Monograph. Empirian Health, Inc. 2020. https://www.empirian.com/s/
- 4) **Noel ZR\***. Ventricular Arrhythmias. *Pharmacotherapy First: A multimedia learning resource*. American Pharmacists Association. 2018.
- 5) Smetana K, **Noel ZR**, Sidhartha RD. Chapter 19: Drugs Acting on the Cerebral and Peripheral Circulations. *Side Effects of rugs Annual*. 40th Edition. 2018
- 6) **Noel ZR**. Ventricular Arrhythmias and Advanced Cardiac Life Support. *American Society of Health-System Pharmacy Board-Certified Cardiology Pharmacist Review Course*. 2018.

#### Scientific/Research Abstracts and Posters

- 1) **Noel ZR\***, Gordes K, Cestone C, Kulo V, Jun HJ. *The Effects of "Ungrading" Individual Readiness Assurance Tests*. American Association of Colleges of Pharmacy Annual Meeting. Denver, CO. July 2023.
- 2) **Noel ZR\***, Sera L, McPherson ML. *Old Habits Die Hard: Longitudinal Changes in PharmD Student Learning and Study Strategies Inventory Scores*. American Association of Colleges of Pharmacy Annual Meeting. Dallas, TX. July 2022.
- 3) <u>Defreitas N\*</u>, **Noel ZR**. Evaluation of Medication Errors Involving Low-Dose Rivaroxaban at an Academic Medical Center. American Society of Health-System Pharmacists Midyear Clinical Meeting. Virtual. December 2021.

- 4) **Noel ZR**, <u>Willeford A\*</u>, Leiman VL. *Impact of Pharmacist-to-Dose Direct Oral Anticoagulant Service at an Academic Medical Center*. American College of Clinical Pharmacy Annual Meeting. Virtual. October 2021.
- 5) Pincus K, Blackman AL, Devabhakthuni S, Gale SE, **Noel ZR**, Sheth P. *Statin Dose Appropriateness in Patients Living with HIV Compared to Uninfected Patients*. American College of Clinical Pharmacists Annual Meeting. Held virtually Oct 2020.
- 6) <u>Kukin A</u>, Gale SE, Reed BN, Devabhakthuni S, Watson K, **Noel ZR**. Effect of Video-assisted Counseling versus Traditional Counseling on Patient Comprehension of Prescribed Direct Oral Anticoagulants. American College of Clinical Pharmacists Annual Meeting. Held virtually Oct 2020.
- 7) <u>Wasik A</u>, **Noel Z\*** Changes in Diuretic Regimen and Impact on Readmission Rates Following Transcatheter Aortic Valve Replacement. American College of Cardiology 67<sup>th</sup> Annual Scientific Session and Expo. Orlando, FL. Mar 2018
- 8) <u>Pinkos K</u>, Reed B, Devabhakthuni S, **Noel Z\***. Rates of Off-Label Dosing of Apixaban in End Stage Renal Disease: A retrospective analysis of a large health-system. 75th ASHP Midyear Clinical Meeting. Orlando, FL. Dec 2017.
- 9) <u>Schmersahl S</u>, Reed B, Devabhakthuni S, **Noel Z**. Evaluation of Impact of Upstream Clopidogrel on Time to Coronary Artery Bypass Grafting. 75th ASHP Midyear Clinical Meeting. Orlando, FL. Dec 2017.
- 10) <u>Mouradjian M</u>, **Noel Z**. Evaluation of Appropriateness of Bivalirudin Prescribing at an Academic Medical Center. 75th ASHP Midyear Clinical Meeting. Orlando, FL. Dec 2017.
- 11) **Noel Z**, Bastin-Thompson M, Flannery A. *Comparison of High Dose Oseltamivir Versus Standard Dose Oseltamivir in Critically Ill Patients*. Poster. Society of Critical Care Medicine National Meeting, Orlando, FL, February 2016
- 12) **Noel Z\***, Matson A, Goodin, A, Dobesh PP, Trujillo T, Ripley TL, Macaulay TE. Relationship between Faculty Evaluation Scores and Qualifications on Participant Knowledge Retention Rates in Continuing Pharmacy Education Activities. Poster. University Health Consortium National Meeting, New Orleans, LA, December 2015
- 13) **Noel Z\***, Cook AM, Davis G. Role of the pharmacy residency on-call program in management of direct thrombin inhibitor (DTI) use for heparin-induced thrombocytopenia (HIT). Poster. American Society of Health-System Pharmacists National Meeting, Orlando, FL, December 2013.

#### **Presentations** (\*presenting author)

#### National and International

- 1) Cozart M, Papke JL, **Noel ZR**, Challen ,. *Old School Teaching Styles Versus New School Learners*. American College of Clinical Pharmacy. Education and Training PRN. Webinar. Aug 2023.
- 2) **Noel ZR\***, Pittinger A, Peterson B. "C" Your Way to It: Using 4C/ID to Inform Teaching and Learning. American Association of Colleges of Pharmacy Annual Meeting, Denver, CO. July 2023.
- 3) **Noel ZR\***, Persky A. *Too Much, Too Fast: Using Cognitive Load Theory to Inform Teaching and Learning.* American Association of Colleges of Pharmacy Annual Meeting, Dallas, TX, July 2022
- 4) Watson KW, **Noel ZR**. *Voila! You Are Now Equipped with the Magical Presentation Secrets*. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2021
- 5) **Noel ZR\***, Zarowitz B. *DOAC Dilemmas: Direct Oral Anticoagulants for Atrial Fibrillation in the Oldest Old Adults and End Stage Renal Disease.* Joint Board Certification presentation at the American College of Clinical Pharmacy Annual Meeting and American Society of Health-System Pharmacists. October 2021 and December 2021.

- 6) Challen L, **Noel ZR**. *The Great Debate: Does Attendance Matter?* American College of Clinical Pharmacy Annual Meeting, October 2021.
- 7) Watson KW, Gale SE, **Noel ZR**. *Creating a High-Functioning Team Where Together Everyone Achieves More*. American Society of Health-Systems Pharmacists (ASHP) Midyear Clinical Meeting, December 2020.
- 8) **Noel ZR**. *Controversies Surrounding Antithrombotic Therapy Following Transcatheter Aortic Valve Replacement*. American Society of Health-Systems Pharmacists (ASHP) Midyear Clinical Meeting, December 2020.
- 9) Smith KJ, Thomas J, Sibicky S, Gale SE, **Noel ZR.** Work Smarter Not Harder Instructional Design and Project Management Principles for Course Managers. American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2020.
- 10) **Noel ZR.** *Ventricular Arrhythmias and Advanced Cardiac Life Support.* American Society of Health-Systems Pharmacy Cardiology Board Certification Review Course. Webinar. June 2018

#### Faculty Development and Workshops

- 1) **Noel ZR\***. *Oversize Load: Using Cognitive Load Theory to Inform Teaching and Learning*. Faculty Development Workshop. Midwestern University College of Pharmacy. November 2023.
- 2) **Noel ZR\***. Oversize Load: Using Cognitive Load Theory to Curate the Readiness Process. Team-Based Learning Online Workshop sponsored by CognaLearn. July 2023.
- 3) **Noel ZR\***. *Oversize Load: Using Cognitive Load Theory to Inform Teaching and Learning*. Faculty Development Workshop. Feik School of Pharmacy, University of Incarnate Word. San Antonio, TX. March 2023.
- 4) **Noel ZR\***. Oversize Load: Using Cognitive Load Theory to Curate the Readiness Process. Team-Based Learning Online Workshop sponsored by CognaLearn. May 2022.
- 5) El-Sayed S, **Noel ZR.** Implementing Team-Based Learning in Health Sciences. InteDashboard™ Online Roundtable. Virtual. March 2022.
- 6) There's no "I" in Group: Using Collaborative Learning to Improve Group Work. University of Maryland Teaching Excellence Day. Baltimore, MD. July 2018.

#### Regional and Local

- 1) **Noel ZR**. Teamwork Makes the Dream Work: Using Team-Based Learning in PharmD Education. Teaching Excellent Day, University of Maryland School of Pharmacy, July 2021
- 2) **Noel ZR**. *Mapping Out a Plan: Anticoagulation Considerations for Atrial Fibrillation Ablation*. American College of Cardiology, Maryland Chapter Cardiovascular Team. Pillars in Cardiology Presentation. Nov 2020.
- 3) **Noel ZR**. *The Pros and Pitfalls of Polling Platforms*. Teaching Excellence Day. University of Maryland, Baltimore. June 2019.
- 4) **Noel ZR.** #MondayMotivation: Getting the Most from Millennial Learners Starting Day 1. University of Maryland School of Pharmacy Academy of Preceptors. Baltimore, MD. May 2019
- 5) Devabhakthuni S, **Noel ZR**. Whose Side Are You On? Warfarin vs DOACs for Stroke Prevention in Atrial Fibrillation and End Stage Renal Disease. 3<sup>rd</sup> Annual ATRIUM Spring Symposium. Baltimore, MD. April 2018
- 6) **Noel ZR**. *Role of Dietary Supplements in the Prevention and Treatment of Cardiovascular Disease.* 35th Annual North Central Heart Cardiac Symposium. Siouix Falls, SD. November 2017
- 7) **Noel ZR.** *TSOACs, DOACs, and NOACs...OH MY! Drug Safety Considerations for Using Non-Vitamin K Antagonist Oral Anticoagulants.* ATRIUM Annual Spring CE Symposium. Baltimore, MD. April 2017

- 8) **Noel ZR.** Extended Dual Antiplatelet Therapy. Kentucky Society of Health-Systems Pharmacists Spring Meeting: Clinical Pearls Session. Lexington, KY. May 2016
- 9) **Noel ZR.** Drug Therapy Update for the Treatment of Hyperlipidemia and Heart Failure. University of Kentucky College of Pharmacy Annual Law Review. Lexington, KY. April 2016

#### **Teaching and Precepting Experience**

#### **Course Director**

#### PHAR 5003: Applied Science and Therapeutics 3(Autoimmune, Joint, and Bone Disorders)

2022 - 2023

Required 2 credit hour second year pharmacotherapy course (~90 students)

University of Maryland School of Pharmacy

## PHAR 5005: Applied Science and Therapeutics 5 (Cardiovascular and Cerebrovascular Disorders) 2022 – 2023

Required 2 credit hour second year pharmacotherapy course (~90 students/year)

University of Maryland School of Pharmacy

#### PHMY 536: Essential Study Skills for Pharmacy Students

2020 - 2023

*Elective 1 credit hour course for first year pharmacy students (~75 students/year)* 

University of Maryland School of Pharmacy

#### PHMY 5016: Current Concepts and Controversies in Cardiology

2019 - 2021

*Elective 2 credit hour course for third year pharmacy students (~10 students/year)* 

University of Maryland School of Pharmacy (taught jointly with University of Kentucky College of Pharmacy)

#### Facilitator, Lecturer, or Instructor

#### PHMY 536: Essential Study Skills for Pharmacy Students

2020 - 2023

University of Maryland School of Pharmacy

Instructor for the following topics (~75 students/year):

Learning Myths

Spacing, Interleaving, and Retrieval Practice

Memory Devices

Learning and Study Strategies Inventory

Desirable Difficulties in Learning

#### MSPR 521: Pathophysiology and Therapeutics I

2019 - 2023

University of Maryland School of Medicine

*Lecturer for the following topics (~150 students/year):* 

**Antiarrhythmic Drugs** 

**Antihypertensive Medications** 

Antiplatelet, Anticoagulant, and Fibrinolytic Medications

#### PHAR 5005: Applied Science and Therapeutics 5

2017 - 2023

University of Maryland School of Pharmacy

Lecturer and Facilitator for the following topics (~90 students/year):

**Arrhythmias** 

Antiarrhythmic Drug Pharmacology

Venous Thromboembolism

Anticoagulant Pharmacology

Anatomy, Physiology, and Assessment

#### PHAR 5004: Applied Science and Therapeutics 4

2017 - 2023

University of Maryland School of Pharmacy

Lecturer and Facilitator for the following topics (~90 students/year):

University of Kentucky College of Pharmacy Lecturer for the following topics (~130 students):  Pulmonary Arterial Hypertension Hyperlipidemia	2015
Preceptor APPE 451: Acute Care Cardiology University of Maryland Medical Center 4 students/year	2017 - 2023
Interventional Cardiology and Cardiovascular Imaging Post-Graduate Year 2 Cardiology Residency Program University of Maryland Medical Center Primary preceptor in July for 2 residents/year	2017 - 2023
Elective Experiences in Electrophysiology and Cardiology Consults Post-Graduate Year 2 Cardiology Residency Program University of Maryland Medical Center Primary preceptor in December/March for 2 residents/year	2017 - 2023
Primary Cardiology I Post-Graduate Year 1 Residency Program University of Maryland Medical Center Primary preceptor January – March for 3 residents/year	2017 - 2023
Primary Cardiology I, II, and II Post-Graduate Year 2 Cardiology Residency Program University of Maryland Medical Center Primary preceptor August – November for 2 residents/year	2016 - 2023
Blogs and Media Contributions	

#### Applied Science, Therapeutics, and Research at the University of Maryland (ATRIUM) Cardiology Collaborative **Blogs**

- 1. *Updates on Post-TAVR Antithrombotic Therapy.* ATRIUM Blog. October 2020.
- 2. Up in Flames: Antiplatelet Therapy in Patients with Stable Ischemic Heart Disease Receiving Anticoagulation for *A-fib.* iForum and ATRIUM Blog. January 2020. (In collaboration with Alina Kukin)
- 3. A Tough Pill to Swallow: Clinical Application of Prasugrel in Patients with ACS. ATRIUM Blog. October 2019.
- 4. Three Things You Should Know Before Throwing in the Towel on Triple Therapy. ATRIUM Blog. June 2019.
- 5. Apixaban Over Warfarin for Anticoagulation in Patients with Atrial Fibrillation and End Stage Renal Disease. ATRIUM Blog. January 2019
- 6. No Anticoagulation in Patients with Atrial Fibrillation and End Stage Renal Disease. ATRIUM Blog. January
- 7. Post-TAVR Antithrombotic Therapy: What To Do When No One Knows What To Do. ATRIUM Blog. December 2018.

- 8. The Short End of the Stick: Practical Management of Cardiovascular Drug Shortages. ATRIUM Blog. October 2018.
- 9. Dofetilide: A Diamond in the Rough for Atrial Fibrillation in Patients with Structural Heart Disease. ATRIUM Blog. March 2018.
- 10. Dietary Supplements and Heart Health. ATRIUM Blog. November 2017.
- 11. Anticoagulation Safety (Part 2 or 2): The Role of Anticoagulation Stewardship Pharmacist. ATRIUM Blog. September 2017.
- 12. Anticoagulation Safety (Part 1 of 2): Common Drug Errors with NOACs... I Mean DOACs! ATRIUM Blog. June
- 13. Upstream P2Y12 Inhibitors and the CABG Quandary. ATRIUM Blog. April 2017.

#### Other Contributions (Podcasts, Blogs, Newsletters)

- 1. Pharmacy Times interview. Pharmacists Are Essential Team Members for Managing Direct Oral Anticoagulants. December 2021.
- 2. Pharmacy Times interview. Expert Reviews Common Medication Errors Involving Direct Oral Anticoagulants. December 2021.
- 3. Pharmacy Times. Patients With End-Stage Renal Disease, Atrial Fibrillation Have Unique Considerations When Starting Anticoagulation Therapy. December 2021.
- 4. Pharmacy Practice News. Anticoag Teams Help Optimize DOAC Monitoring. May 2020.
- 5. CardioScripts Podcast. ENTRUST-AF Trial. January 2020.
- 6. Up in Flames: Antiplatelet Therapy in Patients with Stable Ischemic Heart Disease Receiving Anticoagulation for A-fib. iForum Podcast. January 2020. (In collaboration with Alina Kukin)
- 7. Caveat Emptor: Dietary Supplements and Heart Health. Latest in Cardiology Expert Analysis. American College of Cardiology. April 2017.
- 8. Idarucizumab and Andexanet Alfa. ACCP Experts in Training Newsletter Cardiology PRN Focus. March 2016.

#### **Grants**

#### Impact of Animated Video Counseling on Anticoagulation Comprehension and Retention

2018 - 2020

Funder: American College of Clinical Pharmacists (ACCP), Cardiology Practice and Research Network Seed Grant

Role: Primary Investigator

Amount: \$5,000

#### **Patient Care & Quality Improvement Projects**

#### Institutional Guidelines and Protocol

2017 - 2023

University of Maryland Medical Center

Cangrelor Protocol (original author)

*Intravenous Enoxaparin Guidelines (original author)* 

Disopyramide Protocol (original author)

Aspirin Desensitization Protocol (original author)

*Dofetilide Protocol (reviewer)* 

Direct Oral Anticoagulants Guidelines (reviewer)

Hypertensive Crisis Protocol (reviewer)

Pharmacist-to-Dose Direct Oral Anticoagulant Training University of Maryland Medical Center	2019 - 2023
Fibrinolytics for the Management of ST-Elevation Myocardial Infarction in Patients with Conf Suspected COVID-19 University of Maryland Medical Center	firmed or 2020
Eptifibatide Utilization and Cost Analysis University of Maryland Medical Center	2017
Professional Affiliations, Leadership, and Service	
Affiliations  National  American Association of Colleges of Pharmacy (AACP)  American College of Cardiology (ACC)  American College of Clinical Pharmacy (ACCP)  American Society of Health-Systems Pharmacists (ASHP)	2016 – Present 2015 – Present 2011 – Present 2011 – Present
State & Regional  Maryland Society of Health-Systems Pharmacists  Kentucky Society of Health-Systems Pharmacists	2016 - 2023 2012 - 2016
Honorary Organizations Rho Chi Academic Honor Society Phi Lambda Sigma Pharmacy Leadership Society	2011 - 2014 2012 - 2014
Leadership & Service Contributions  National  American Association of Colleges of Pharmacy (AACP)  Member, Council of Faculty, Scholarship of Teaching and Learning Committee  Member, Task Force on Professionalism and Social Media	2023 - 2024 2021 - 2022
American College of Clinical Pharmacy (ACCP)  Secretary/Treasurer, Cardiology PRN  Chair, Cardiology PRN Budget and Finance Committee  Chair, Cardiology PRN Student & Resident Committee  Member, Cardiology PRN Student & Resident Committee	2020 - 2021 2020 - 2021 2019 - 2020 2016 - 2019
<b>Team Based Learning Collaborative (TBLC)</b> <i>Member,</i> Scholarship & Research Committee	2020 - Present
American Society of Health-System Pharmacists (ASHP)  Member, New Practitioner Forum  Member, Community and e-Communications Advisory Group	2014 - 2016 2012 - 2013
Local and Regional University of Maryland School of Pharmacy Co-Chair, Curriculum Redesign Task Force Delegate, SOP representative for AACP Chair, Therapeutics Task Force Member, Curriculum Committee	2022 - 2023 2021 - 2022 2020 - 2022 2020 - 2022

President, Faculty Assembly	2019 - 2020
President-Elect, Faculty Assembly	2018 - 2019
Co-Chair, Cardiology Residency Program Advisory Committee	2017 - 2020
Member, Experiential Learning Committee	2016 - 2018
Member, Strategic Planning Education Committee	2016 - 2018
Member, Preceptor Development Committee	2016 - 2018
University of Kentucky College of Pharmacy	
Member, Honor Code Committee	2012 - 2014
Delegate, Kentucky Pharmacists Association	2013
President, Christian Pharmacists Fellowship International	2013
Vice President, Christian Pharmacists Fellowship International	2012
Community Service	
Orange County Recreation U-8 Sports Coach	2023 - Present
Emmorton Recreation U-6 Sports Coach (soccer, basketball, basketball)	2020 - 2023
Salvation Army Clinic	2014 - 2016
Ronald McDonald House Volunteer	2012 - 2014
God's Food Pantry Volunteer, Lexington, KY	2010 - 2012
Faith Pharmacy, Lexington, KY	2010 - 2011
Operation Christmas Child Local Organizer, Lexington, KY	2011 - 2013
Habitat for Humanity Volunteer	2011
Elementary School Mentor, Lexington, KY	2010