

Aqeel Khanani, DO, MS

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EXPERIENCE

Lakeland Regional Health, Lakeland FL — *Resident Physician*

June 2023- PRESENT

Selected as **PGY3 Chief Resident**. Served in several leadership and key committee roles, including **Chair** of the Academic Curriculum Committee (PGY2), **Chair** of the Graduate Medical Education Resident Forum (PGY1-2), **President** of the Medical Student Academic Experience Committee (PGY2), and **Treasurer** of the Community Action and Resident Engagement Committee (PGY2).

Advances in Clinical Medical Research & Healthcare Delivery, Rochester NY — *Peer Reviewer*

MAY 2022 - May 2023

Assess submissions to the journal for quality and completeness, providing authors with feedback and opportunities to improve submissions.

Elevation Development, Orlando FL — *Market Research Analyst*

MARCH 2020 - DECEMBER 2020

Analyzed market data to determine competitive pricing, potential zoning issues, and overall viability of planned projects – reviewed independent living facilities and medical office buildings.

Advanced Medical Care Services, Tampa FL — *Medical Assistant and Scribe*

JULY 2018 - May 2019

Multi-specialty practice including pain medicine, anesthesiology, and radiology; assisted in charting and detailing patient-physician interactions; took vitals and brief patient histories.

EDUCATION

SKILLS

ACLS/BLS certified

Versed in Point-of-care ultrasound (POCUS)

Proficient in EPIC and Cerner

Clinical trial design and protocol development

Manuscript writing, journal submission, peer reviewing

Grant writing support and academic collaboration with industry

Reference management (EndNote)

Medical student and resident education curriculum development and coordination

Leadership in academic committees and resident recruitment

Mentorship and career guidance

AWARDS

Selected as **Resident of the Year** (2024) by program faculty and staff.

Contributing author to two **Amazon Best-Selling** medical education books on internal medicine training.

Lake Erie College of Osteopathic Medicine, Bradenton FL — ‘Doctor of Osteopathic Medicine’ (D.O.)

JULY 2019 - June 2023

Third-year clinical rotations completed at **Rochester General Hospital** (Rochester NY). Visiting fourth-year clinical rotations completed with Boston Health Care for the Homeless Program, Florida Cardiology, and Jefferson Health Northeast, among others.

University of South Florida, Tampa FL — Master of Science in ‘Medical Sciences’ (M.S.)

JULY 2017 - JUNE 2018

This Medical Sciences **Pre-Professional Program** (MSP3) had a one-year interdisciplinary curriculum on biomedical science foundations for future clinical and healthcare training.

University of Miami, Miami FL — Bachelor of Science in ‘Neuroscience’ (B.S.); Minors in ‘Political Science’ and ‘Chemistry’

AUGUST 2013 - MAY 2017

Achievements and key extracurricular activities included induction into **Iron Arrow Honor Society**, selection for President’s **100, Student Government** Executive Committee member, Chairperson of Elections Commission, **Biology Teaching Assistant**, and member of both the University Disciplinary Hearing Panel and the Honor Council.

RESEARCH PROJECTS AND SCHOLARLY WORK

Peer-Reviewed Publications & Poster Presentations (26 total)

1. Safety and Efficiency of Fluoroless Pulsed-Field Ablation Guided by Intracardiac Echocardiography.

Role: First Author

Published in: Heart Rhythm. Vol. 22, Issue 4, 2025.

DOI: 10.1016/j.hrthm.2025.03.1154

Presented at: 2025 ACP Florida Poster Competition

Collaborated with Dr. Usman Siddiqui and Dr. Roland Filart

2. First-In-Human Multicenter Experience Using a Novel Sheath-Agnostic RF Transseptal Wire.

Inducted into the **Iron Arrow Honor Society** (2015) at the University of Miami, regarded as the institution’s highest honor.

Selected as a **Finalist** at **ACP Florida 2025 Resident & Medical Student Poster Competition**.

Awarded **2nd Place** in **Best Overall Poster** category at the 2025 Central Florida Research Symposium.

Awarded **3rd Place** in **Best Overall Poster** category at the 2024 Central Florida Research Symposium.

Selected for **Best Poster Session** at 2024 Asia-Pacific Heart Rhythm Society.

LANGUAGES

Native/fluent in **English**.

Proficient in **Urdu** and **Hindi**.

Intermediate in **Spanish**

PROFESSIONAL MEMBERSHIPS

European Society of Cardiology (**ESC**)

Cardiovascular Research Foundation (**CRF**)

University of Miami Alumni Association (**UMAA**)

Society of Hospital Medicine (**SHM**)

Florida Osteopathic Medical Association (**FOMA**)

American College of Physicians (**ACP**)

Role: Co-Author

Published in: Heart Rhythm. Vol. 22, Issue 4, 2025.

DOI: 10.1016/j.hrthm.2025.03.1223

Collaborated with Dr. Devi Nair, Dr. Vivek Reddy, and Dr. Andrea Natale

3. Nanosecond Pulse Field Ablation Utilizing a Novel Focal Catheter and Mapping System.

Role: First Author

Published in: JACC. Vol. 85, Issue 12, 2025.

DOI: 10.1016/S0735-1097(25)00608-4

Presented at: American College of Cardiology 2025 conference

Collaborated with Dr. Usman Siddiqui to explore this novel technology

4. First Known Use of Pulsed-Field Ablation in a Patient with an ASD Occluder: Demonstrating Safety and Efficacy.

Role: First Author

Published in: JACC. Vol. 85, Issue 12, 2025.

DOI: 10.1016/S0735-1097(25)04471-7

Presented at: American College of Cardiology 2025 conference

Collaborated with Dr. Usman Siddiqui on this case report abstract

5. Natriuresis-Guided Diuretic Therapy in Acute Decompensated Heart Failure: A Meta-Analysis of Clinical Trials.

Role: Co-Author

Published in: JACC. Vol. 85, Issue 12, 2025.

DOI: 10.1016/S0735-1097(25)01832-7

6. Effect of Finerenone in Cardiovascular and Renal Outcomes: A Systematic Review and Metaanalysis.

Role: Co-Author

Published in: JACC. Vol. 85, Issue 12, 2025.

DOI: 10.1016/S0735-1097(25)01682-1

7. Concomitant Amulet Implantation with Pulsed Field Ablation: A Case Series.

Role: First Author

Published in: Journal of Cardiovascular Electrophysiology. Vol. 36, 2025.

DOI: 10.1111/jce.16619

Collaborated with Dr. Usman Siddiqui on this retrospective case series

8. Colchicine Therapy In Cardiovascular Medicine: A Literature Review.

Role: Co-Author

Published in: American Heart Journal Plus. Vol. 52, 2025.

DOI: 10.1016/j.ahjo.2025.100525

9. Safety and Efficacy of the Amulet LAA Occluder for Stroke Prophylaxis Without Pre-Procedural Chest CT.

Role: Co-Author

Published in: Circulation. Vol. 150, 2024.

DOI: 10.1161/circ.150.suppl_1.4143224

Presented at: American Heart Association Scientific Sessions 2024

Worked with Dr. Usman Siddiqui on this retrospective study

10. Drug-Coated Balloon Angioplasty vs Plain Balloon Angioplasty in Patients with Coronary In-Stent Restenosis: A Meta-Analysis of Randomized Controlled Trials..

Role: Co-Author

Published in: JACC. Vol. 84, 2024.

DOI: 10.1016/j.jacc.2024.09.572

11. Retrospective Comparison of Device Utilization for Left Atrial Appendage Occlusion: Amulet vs. Watchman.

Role: Co-Author

Published in: JACC. Vol. 84, 2024.

DOI: 10.1016/j.jacc.2024.09.622

Presented at: Transcatheter Cardiovascular Therapeutics (TCT) 2024

12. A Great Imitator: MAC Infection Presenting as a Solitary Pulmonary Nodule.

Role: First Author

Published in: CHEST. Vol. 166, 2024.

DOI: 10.1016/j.chest.2024.06.680

Presented at: CHEST 2024

13. Evaluating Lesion Integrity with Diamond Temp System.

Role: Co-Author

Published in: European Heart Journal. Vol. 45, 2024.

DOI: 10.1093/eurheartj/ehae666.432

Presented at: European Society of Cardiology 2024 conference

Prospective study done in collaboration with Dr. Usman Siddiqui, supported my Medtronic's External Research Program.

14. PFOcus on the Unusual: A Stroke of Paradox.

Role: Co-Author

Published in: CHEST. Vol. 166, 2024.

DOI: 10.1016/j.chest.2024.06.268

15. Shoptalk – Barbers as Partners in Health Promotion: Reviewing Social Determinants of Health, Revisiting Cardiology Pioneers, and Moving Forward.

Role: First Author

Published in: American Heart Journal Plus. Vol. 43, 2024.

DOI: 10.1016/j.ahjo.2024.100410

Explored community-based cardiovascular health promotion by engaging barbershops as public health partners and integrating social determinants of health.

16. Management of PFO in Paradoxical Embolic Stroke with Hemorrhagic Conversion: A Case Report.

Role: Co-Author

Published in: Frontiers in Cardiovascular Medicine. Vol. 11, 2024.

DOI: 10.3389/fcvm.2024.1395542

17. Catheter Ablation as First-Line Therapy in Persistent Atrial Fibrillation.

Role: Co-Author

Published in: JACC: Clinical Electrophysiology. Vol. 10, 2024.

DOI: 10.1016/j.jacep.2024.02.035

18. PCI vs. CABG in Left Main with Multi-Vessel Coronary Artery Disease and Diabetes.

Role: Co-Author

Published in: Diabetes and Vascular Disease Research. Vol. 21, 2024.

DOI: 10.1177/14791641241253540

19. Canceled Amidst the Storm: Recognizing Thyroid Storm Before Undergoing Anesthesia.

Role: First Author

Published in: Journal of Hospital Medicine. Vol. 19, 2024.

Presented at: Society of Hospital Medicine 2024 conference.

DOI: 10.1002/jhm.13328

20. DiamondTemp Ablation System: A Real-World Experience.

Role: Co-Author

Published in: Journal of Arrhythmia. Vol. 39, 2023.

DOI: 10.1002/joa3.12902

21. Retrospective Study of the Perclose Proglide Suture-Mediated Closure System: Impact Same-Day Discharges And Rehospitalizations.

Role: Co-Author

Published in: Journal of Arrhythmia. Vol. 39, 2023.

DOI: 10.1002/joa3.12902

22. Utilization of Omnipolar Technology in Complex Atrial Flutters.

Role: Co-Author

Published in: Heart Rhythm. Vol. 20, 2023.

DOI: 10.1016/j.hrthm.2023.03.1097

23. Effect of Cardiac Catheter Ablation on Ejection Fraction in Patients with Atrial Fibrillation Reduced Ejection Fraction.

Role: First Author

Published in: Journal of Cardiovascular Electrophysiology. Vol. 34, 2023.

DOI: 10.1111/jce.15870

Presented at: 28th Annual Atrial Fibrillation Symposium.

24. Effect of Cardiac Catheter Ablation on Ejection Fraction in Patients with Atrial Fibrillation Reduced Ejection Fraction.

Role: First Author

Published in: Journal of Cardiovascular Electrophysiology. Vol. 34, 2023.

DOI: 10.1111/jce.15870

Presented at: 28th Annual Atrial Fibrillation Symposium.

25. Comparing Novel Non-Contact Mapping Software to the Conventional High-Definition Contact Mapping.

Role: Co-Author

Published in: Journal of Cardiovascular Electrophysiology. Vol. 34, 2023.

DOI: 10.1111/jce.15870

Presented at: 28th Annual Atrial Fibrillation Symposium.

Collaborated with Dr. Vivek Reddy and Dr. Usman Siddiqui on this project

26. Herpes Simplex Virus Esophagitis Presenting Amidst Acute COPD Exacerbation.

Role: First Author

Published in: Advances in Clinical Medical Research. Vol. 2, 2022.

DOI: 10.53785/2769-2779.1119

Medical Education Books (2 total)

1. Intern Mastery: Top 10 Internal Medicine Diagnoses at the Busiest Hospitals in the Nation.

Role: Contributing Author

Independently Published, 2024

ISBN: 979-8874242954

Amazon Best-Seller in Medical Education & Training

2. Intern Mastery's PGY-1 Excellence: A Roadmap from Med School to PGY-1 Internal Medicine.

Role: Contributing Author

Independently Published, 2025

ISBN: 979-8303056367

Amazon Best-Seller in Medical School Guides

Invited Lectures & Medical Education Presentations (8 total)

1. Back Pain: Outpatient Approach and Management

Senior Lecture Series.

Lakeland Regional Health, March 2025.

2. Pulmonary Embolism: Diagnostics, Classification, and Management

Resident-Led Medical Student Lecture Series.

Lakeland Regional Health, Dec 2024 & Oct 2024.

3. Sepsis, Septic Shock, and Pressors

Resident-Led Medical Student Lecture Series.

Lakeland Regional Health, Nov 2024 & Sept 2024.

4. Outpatient Management of Hypertension

Senior Lecture Series. Lakeland Regional Health, Oct 2024.

5. Neutropenic Fever and Tumor Lysis Syndrome

ACP Board Prep Curriculum. Lakeland Regional Health, March 2024.

6. Gastrointestinal Bleeding and Ischemia

ACP Board Prep Curriculum. Lakeland Regional Health, Nov 2023.

COMMUNITY ENGAGEMENT

Alumni Career Champions, Univ of Miami — *Career Mentor*

Nov 2024- PRESENT

Provide targeted career planning and networking support to assigned undergraduate mentees to achieve their professional goals.

C.A.R.E., Lakeland Regional Health — *Treasurer*

Sept 2024- PRESENT

Community Action and Resident Engagement committee focused on community service initiatives within the greater Lakeland Area. As treasurer, manage funds and track resident participation.

Young Alumni Leadership Council, Univ of Miami — *Regional Engagement*

April 2024- PRESENT

Serve on the University of Miami's Young Alumni Leadership Council, mentoring recent graduates, supporting the 30 Under 30 initiative, and leading regional engagement efforts in Central Florida.

Orlando 'Canes Community, Univ of Miami — *Board Member*

May 2024- PRESENT

Appointed Executive Board Member of the University of Miami's Orlando 'Canes Community, leading alumni networking events and regional outreach initiatives. This role has strengthened university engagement across Central Florida and enhanced my skills in strategic planning and community building.

Project Downtown, Tampa FL — *General Member*

Sept 2024- PRESENT

Local initiative aimed at gathering food and hygiene products for distribution to men, women, and families experiencing homelessness and food insecurity in the greater Tampa area. Recently expanded to assist Afghan refugee settlement in the Tampa-Clearwater region.