



Matthew Schumaecker, MD, MBA, MIT, FACC

Matthew Schumaecker, MD Consulting LLC
7478 Mount Chestnut Rd, Roanoke, VA 24018
consult@cardiology.expert
540-494-2411 (cell)

Highly experienced clinical and imaging cardiologist. Virginia Tech faculty.
Board certified in five areas: Cardiology, Echocardiography, Nuclear Cardiology, Cardiac Computed Tomography, and Clinical Informatics. Designated Hypertension Specialist.
Accomplished public speaker. Award-winning teacher.

CLINICAL POSITIONS

<u>Carilion Clinic, Roanoke, VA</u> Cardiologist and Medical Staff Member	September 2012-present
<u>Lehigh Valley Health Network, Allentown, PA</u> Cardiologist and Medical Staff Member	July 2007-August 2012
<u>Washoe Medical Center, Reno, NV</u> Hospitalist and Associate Staff Physician	July 2003-June 2004

ACADEMIC POSITIONS

<u>Virginia Tech Carilion School of Medicine, Roanoke, VA</u> Associate Professor of Medicine	2015- present
<u>Virginia Tech Carilion School of Medicine, Roanoke, VA</u> Assistant Professor of Medicine	2013-2015
<u>Penn State College of Medicine, Hershey, PA</u> Clinical Assistant Professor of Medicine	2007-2012
<u>Lehigh Valley Hospital Cardiology Fellowship, Allentown, PA</u> Director, Nuclear Cardiology Rotation	2007-2012
<u>Carilion Clinic Cardiology Fellowship, Roanoke, VA</u> Director, Nuclear Cardiology Rotation	2012-present
<u>Carilion Clinic Cardiology Fellowship</u> Program Evaluation Committee, Member	2013-present
<u>Carilion Clinic Cardiology Fellowship</u> Program Clinical Competency Committee, Member	2013-present
<u>Carilion Clinic Cardiology Fellowship</u> Program Selection Committee, Member	2013-2017

EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg, VA June 2015-Dec 2018
Master of Information Technology
Graduate Certificate in Health Information Technology

Lehigh University, Bethlehem, PA September 2009-Dec 2013
Master of Business Administration

McGill University, Montreal, Canada September 1996-May 2000
Doctor of Medicine

Northwestern University, Evanston, Illinois September 1991-January 1996
Bachelor of Arts, Bachelor of Music

POST-GRADUATE MEDICAL EDUCATION

University of Pittsburgh Medical Center, Pittsburgh, PA July 2004-June 2007
Fellowship in Cardiovascular Disease

New York Presbyterian Hospital (Weill-Cornell Campus), New York, NY June 2000-June 2003
Internship and Residency in Internal Medicine

BOARD CERTIFICATIONS

- Cardiac Computed Tomography (CBCCT)
- Cardiovascular Disease (ABIM)
- Clinical Informatics (ABPM)
- Echocardiography (NBE)
- Nuclear Cardiology (CBNC)
- Designated Specialist in Clinical Hypertension (American Society of Hypertension 2013)

NON-MEDICAL WORK EXPERIENCE

Metaphor Langues, Paris, France March 1996-June 1996
English Teacher and Translator

MEDICAL VOLUNTEER EXPERIENCE

Moi University Medical Center, Eldoret, Kenya October 2008
Guest Lecturer in Medicine and Echocardiography

MEDIA APPEARANCE

WDBJ Roanoke 5pm News Live Interview: "Heart Disease in Women" January 31, 2013
Curriculum Vitae: Matthew Schumaecker MD, MBA, MIT, FACC
October 2023

PUBLICATIONS

- **Schumaecker M**, Larsen T, Sane D. "Cardiac Manifestations of Adrenal Insufficiency." *Reviews in Cardiovascular Medicine* 17(3-4), 131-136, 2016
- Hendel RC, Abbott BG, Bateman TM, Blankstein R, Calnon DA, Leppo JA, Maddahi J, **Schumaecker MM**, Shaw LJ, Ward RP, Wolinsky DG., "The role of radionuclide myocardial perfusion imaging for asymptomatic individuals." *J Nucl Cardiol.* 2011 Feb;18(1):3-15.
- Freudenberger R, **Schumaecker M**, Homma, S "What is the Appropriate Approach to Prevention of Thromboembolism in Heart Failure?" *Thrombosis and Hemostasis.* 2010 Mar;103(3):489-95

PRESENTATIONS/ABSTRACTS

- "Heart Songs", Session Co-Chair. American College of Cardiology Scientific Sessions. Annually from 2013 to present (except 2020-2021 when meeting was cancelled due to COVID).
- Roby M, Spangler M, Cook T, **Schumaecker M**, Slowikowski J "Analysis of Previously Undescribed D-SPECT Camera Artifact" Poster Abstract, ASNC Scientific Sessions; 2017
- Farooqui M, Rathore S, **Schumaecker M** "Utility of indium-11 Octreotide to Identify a Cardiac Metastasis of a Carcinoid Neoplasm" Oral Abstract, ASNC Scientific Sessions; 2014
- Sharifi B, Self B, **Schumaecker M**, "Ischemia or Inaccuracy: Chronically Elevated Troponin in a Patient with Elevated anti-EBV Antibody Titers." Poster Abstract, American College of Cardiology Meeting Abstracts 2019
- Ayzenbart V, Wasilewski M, **Schumaecker M**, "Severe Paroxysmal Hypertension Related to Gastric Neuroendocrine Tumor Diagnosed by PET DOTATATE" Poster Abstract, American Heart Association Hypertension Sessions; 2022
- Wright B, **Schumaecker M**, Carvalho H "Wright table of the cardiac cycle: Expanding application to clinical settings. American Physiology Summit Meeting Abstracts; 2023
- Ayzenbart V, Wasilewski M, **Schumaecker, M**, Roby M. "Between a Rock and a Hard Place: A Case of Paradoxical Venous Thromboembolism in the Foramen Ovale. ACC Meeting Abstract, In Review

ADDITIONAL RESEARCH EXPERIENCE

PROMISE Trial (Cardiac CT) Site Investigator 2018-2020

LECTURES

Carilion Clinic Depts of Clinical Documentation Integrity and Facility Inpatient Coding July 2023
"Semantics of Myocardial Infarction – Implications for Correct Documentation"

American Academy of Professional Coders, Southwest Virginia Chapter April 2022
"Cardiac Stress Testing"

Virginia Tech School of Medicine

Yearly First-Year Medical School Lectures: 6 Part Lecture Series on Cardiac Physiology Co-Taught by Helena Carvahlo, PhD

2022-present

Yearly Second-Year Medical School Lectures: Hypertension, Pericardial Diseases 2012-2019

Virginia Tech Translational Program in Biology Medicine and Health 2015-2019
Lecture “Economics of Heart Disease: Cost Effectiveness, Moral Hazard and Price Elasticity of Demand”

Carilion Clinic Medicine Ground Rounds
“Contemporary Cardiac Risk Assessment” March 2022
“Nuclear Cardiology: Clinical Epidemiology” July 2015
“Hypertension Prevention and Treatment.” March 2013

Carilion Advanced Imaging Conference November 2013
“Advances in Nuclear Cardiology and Cardiac Stress Testing”

HeartNet of the Virginias September 2015
“Hypertension: Pathophysiology, Epidemiology and Treatment of the ‘Challenging Patient’

Cardiology for the Primary Care Physician Conference February 2017
“Update in Clinical Hypertension”

Carilion Bedside Ultrasound Course September 2013
Lecture “Myocardial Infarction”
Lecture “Pericardial Diseases”

Carilion Clinic Cardiology Fellowship Lectures Yearly from 2013 to present
Lecture “Cardiorenal Syndrome”
Lecture “Hemodynamics”
Lecture “Introduction to Stress Testing”
Lecture “Nuclear Cardiology I: Principles of Coronary Physiology”
Lecture “Nuclear Cardiology II: Instrumentation and Radiopharmacy”
Lecture “Nuclear Cardiology III: Clinical Value of Nuclear Cardiology”

DISTINCTIONS

Carilion Internal Medicine Residency 2016-2017
Subspecialty Teaching Attending of the Year

Carilion Cardiology Fellowship Program 2015
Outstanding Teacher of the Year

Lehigh Valley Health Network 2011
Top 20 Teachers of the Year

American Society of Nuclear Cardiology 2010-present

Fellow

Fellow of the American College of Cardiology

2008-present

Fellow

Molson Scholarship

1997-1999

Medical Informatics

McGill University

1997-1998

President, Medical Students' Society

McGill University

1996-1999

President , Medical Class of 2000

ADDITIONAL CLINICAL TRAINING

SCCT Winter Conference, Dublin, Ireland

January 2016

Level II Course in Cardiac CTA

Princeton Longevity Center

June 2007

Level II Certification – Cardiac CT Angiography

PROFESSIONAL MEMBERSHIPS

American College of Cardiology, Fellow

American Society of Nuclear Cardiology, Fellow

American Society of Echocardiography, Member

NATIONAL ORGANIZATIONAL COMMITTEE MEMBERSHIP

American College of Cardiology, Virginia Chapter

2022-present

Executive Council

American Society of Nuclear Cardiology

2018-2022

Healthy Policy Committee Member

LANGUAGES

- English – Native
- French – Spoken, understood and read fluently
- Spanish – Spoken, understood and read with advanced proficiency
- Japanese –Basic reading and verbal proficiency

MEDICAL LEADERSHIP EXPERIENCE

Carilion Clinic, Roanoke, VA

July 2019-present

Medical Director, Cardiovascular Informatics

- Started work part-time as medical informaticist in 2016. Position formalized in 2018
- Represent cardiovascular needs to clinical informatics and technology services group
- Work to prioritize and implement large IT-related projects for cardiac imaging, cath lab, EP lab, hybrid OR
- Address Epic IT-related and clinical workflow problems within the cardiovascular service line
- Create and maintain order sets used within cardiology practice

Carilion Clinic

January 2013-present

Medical Director, Nuclear Cardiology

- Started a new nuclear cardiology laboratory incorporating D-SPECT (a new low-radiation imaging modality) which has performed almost 6,000 studies since its inception.
- Together with radiology physician leaders, negotiated terms of and built a cardiac PET program for stress testing and metabolic imaging.
- Worked with capital budgeting to create a roadmap nuclear cardiology hardware and software infrastructure.

Lehigh Valley Health Network Department of Medicine

April 2009–August 2011

Co-Director of Quality Improvement

- Established and maintained a comprehensive quality agenda with focus on outcome and cost with particular emphasis on lean methodologies and statistical process control

Lehigh Valley Health Network

July 2007–August 2012

Medical Director, Nuclear Cardiology

CLINICAL INFORMATICS EXPERIENCE

- Board Certified by ABPM in Clinical Informatics
- Currently work within Carilion Clinic Technology Service Group, Health Analytics Department and Cardiovascular Institute to analyze and optimize workflows within our electronic health record. Heavily involved in optimal data collection for quality improvement (clinical outcomes, cost utilization). Build, maintain and track usage of order sets.
- Certified as a “Physician Builder” by Epic Systems, Inc (Verona, WI) with added qualification in data analytics and order set construction. (2016, 2017)
- Served as the physician champion and super-user for implementation of CENTRICITY/CPO into our outpatient cardiology practice at Lehigh Valley Hospital. 2011-2012
- Designed, programmed, and implemented a comprehensive patient database management system (using a Sharepoint platform) in order to keep a centralized “sign-out” repository and improve continuity of care. 2011