

RUPA M. SANGHANI, MD, FACC, FASNC

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Division of Cardiology
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EDUCATION

1991-1995 Bachelor of Musical Arts, Voice Performance, University of Michigan, Ann Arbor, MI
1995-1999 Medical Doctorate, School of Medicine, University of Michigan, Ann Arbor, MI
1999-2002 Residency, Department of Medicine, New York Presbyterian Hospital, Cornell Campus, New York, NY
2001-2002 Assistant Chief Resident, New York Presbyterian Hospital, Cornell Campus, New York, NY
2003-2006 Fellowship in Cardiovascular Disease, University of Chicago, Chicago, IL

LEADERSHIP TRAINING

2007-2009 American Society of Nuclear Cardiology Leadership Development Program

ACADEMIC APPOINTMENTS

2016- Associate Professor, Division of Cardiology, Rush University Medical Center, Chicago, IL
Vice Chief of Clinical Operations for Cardiology
Director of Nuclear Cardiology and Stress Laboratory
Associate Director for the Rush Heart Center for Women
Director, Inpatient Cardiology and Cardiology Consult Service
2006-2015 Assistant Professor, Department of Medicine, University of Chicago, Chicago, IL.
2002-2003 Clinical Instructor in Medicine, New York Presbyterian Hospital, Cornell Campus, New York, NY
2002-2003 Assistant Attending Physician, Hospital for Special Surgery, New York, NY
2001-2002 Assistant Chief Resident, New York Presbyterian Hospital, Cornell Campus, New York, NY

OTHER APPOINTMENTS

7/2020- Special Government Employee – Federal Drug Administration, Medical Imaging Drug Advisory Committee

EMPLOYMENT

2016- Associate Professor, Division of Cardiology, Rush University Medical Center, Chicago, IL
2006-2015 Assistant Professor, Department of Medicine, University of Chicago, Chicago, IL.
2002-2004 Clinical Instructor in Medicine, New York Presbyterian Hospital, Cornell Campus, New York, NY
2002-2003 Assistant Attending Physician, Hospital for Special Surgery, New York, NY

CERTIFICATION AND LICENSURE

2002, 2012- Internal Medicine, American Board of Internal Medicine
2005, 2014- Nuclear Cardiology, Certification Board of Nuclear Cardiology
2006- Echocardiography, American Society of Echocardiography
2006, 2015- Cardiology, American Board of Internal Medicine

2000- Permanent Licensed Physician, State of New York (inactive)
2003- Permanent Licensed Physician, State of Illinois

2006- Level II Certification, Transthoracic and Transesophageal Echocardiography

2006- Level II Certification, Nuclear Cardiology

HONORS and AWARDS

1991 Honors commendation, University of Michigan Music School
1991 Regent's Alumni Scholarship, University of Michigan
1991-1994 Various Merit-based music scholarships, University of Michigan
1994 Phi Kappa Phi Honor Society, University of Michigan
1995 Phi Beta Kappa Honor Society, University of Michigan
1998 Alpha Omega Alpha Honor Society, University of Michigan Medical School
2006 Young Investigator Award, American Society of Nuclear Cardiology
2007-2009 ASNC Leadership Development Program
2009- Fellow of the American College of Cardiology
2010- Fellow of the American Society of Nuclear Cardiology
2018 Clinical Site Excellence Award – Teaching award from PA Program Class of 2018

SOCIETY MEMBERSHIPS

Elected or invited Membership:

2009- Fellow, American College of Cardiology
2010- Fellow, American Society of Nuclear Cardiology

Other:

2007- IL-American College of Cardiology, Member
2007- IL- American College of Cardiology, Member, Women in Cardiology

TEACHING

Rush University Medical School

(a) Course Director:

2016- Course Director, Cardiology Consult Service.
- I oversee the curriculum, program, and evaluations for all PA students, medical students, interns and residents rotating through the cardiology consult service. I implemented a formal teaching curriculum with standardized lectures on core topics to be given monthly on the consult service and improved evaluations from the residents. Also received the Clinical Site Excellence Teaching Award from the PA Program Class of 2018.

2021 Director, Cardiology Inpatient Telemetry Unit
- Currently helping to design a new cardiology inpatient service that would facilitate quality patient care, throughput and resident teaching on core cardiology admission indications.

(b) Didactic:

2016- Presenter, Introduction to Nuclear Cardiology. Yearly lecture. Fellows/occasional students
2016- Presenter, Pregnancy and Heart Disease. Yearly lecture. Fellows/occasional students
2018- Presenter, ECHO Quantification. Yearly lecture. Fellows/occasional students

(c) Clinical:

2016- Consult service attending rounds: 6 weeks/year including Fellow, multiple interns/resident, MS4s and PA students (2-4 students/block)
2016- Weekly in Nuclear Cardiology – Fellow teaching, read ~6x/month (occasional students/residents)
2016- Cardiology Clinic– often have residents that participate during their outpatient subspecialty blocks. (about 1 resident/month)

2016- ECHO – teach while reading ECHO studies. read 3-4 shifts/month (occasional students/resident/other fellows)

Rush University Medical Center- Graduate Medical Education (residency and clinical fellowships)

(a) Course Director:

2016- Nuclear Cardiology and Stress Laboratory

- I oversee the curriculum and reading for all cardiology fellows (both from Rush and Cook County) as they rotate through our stress laboratory and nuclear cardiology rotations. In addition, we often have radiology residents and NM fellows that participate in reading sessions. In conjunction with our Cardiac CT/MRI program, we will be starting an advanced imaging fellowship program in 2022.
- Started the First Cardiac PET program in the State of Illinois in 2019
- Our nuclear lab and new PET program have served as a PET site tour visit for the American Society of Nuclear Cardiology Annual Meeting in 2019, and been 1 of 6 invited program for live “Cases with the Aces” at ASNC Scientific Sessions 2020.

2016- Course Director, Cardiology Consult Service.

- I oversee the curriculum, program, and evaluations for all PA students, medical students, interns and residents rotating through the cardiology consult service. I implemented a formal teaching curriculum with standardized lectures on core topics to be given monthly on the consult service.

2021 Director, Cardiology Inpatient Telemetry Unit

- Currently helping to design and implement a new cardiology inpatient service that would facilitate quality patient care, throughput and resident teaching on core cardiology admission indications.

(b) Didactic:

2016- Introduction to Nuclear Cardiology, Annual lecture for fellows

2016- Introduction to Cardiac PET, Annual lecture for fellows

2017- Chamber Quantification, Annual lecture for fellows

2017- Pregnancy and the Heart, Annual lecture for fellows

2016- Nuclear Cath Correlation Conference, Monthly for fellows/staff

(c) Clinical:

2016- Consult service attending rounds: 6-7 weeks/year, Fellow, Interns, Residents (1 Fellow, 2-5 residents, 2-5 students/month)

2016- Weekly in Nuclear Cardiology – Fellow teaching, read 4x/month (1 Fellow/month)

2016- Clinic Fellow – supervise a fellow for 12 months/year in clinic

2016- ECHO Lab – weekly reading, teaching and supervision of fellows (2-3 fellows/month)

2016- Stress Lab- Supervise fellows in the stress lab (weekly)

Grand Rounds

2004 Invited Speaker for Grand Rounds. Exercise and Rehabilitation for the patient with Coronary Artery Disease, Schwab Rehabilitation Center, Chicago, IL

2007 Invited Speaker for Grand Rounds. Pregnancy and the Heart. Department of Obstetrics/Gynecology, University of Chicago, Chicago, IL

2008 Invited Speaker for Grand Rounds. Preoperative Evaluation for Vascular Surgery. Section of Vascular Surgery, University of Chicago, Chicago, IL

Rupa M. Sanghani, MD

- 2008 Invited Speaker for Grand Rounds. Coronary Artery Disease in Lupus and RA. Department of Rheumatology, University of Chicago, Chicago, IL
- 2010 Invited Speaker for Grand Rounds. Women and Heart Disease. Medicine Grand Rounds, Gottlieb Medical Center, Elmhurst, IL
- 2012 Invited Speaker for Grand Rounds. Exercise and the Patient with Coronary Artery Disease. Schwab Rehabilitation Center, Chicago, IL.
- 2014 Invited Speaker for Grand Rounds. Advances in Nuclear Imaging: Focus on PET. University of Chicago, Section of Cardiology, Chicago, IL.
- 2015 Invited Speaker for Grand Rounds. Advances in Nuclear Imaging: Focus on PET. University of Chicago, Section of Cardiology, Chicago, IL.
- 2015 Invited Speaker for Grand Rounds. Caring for the Pregnant Patient with Cardiovascular Disease: The Heart-Baby Connection. Department of Ob/Gyn. Rush University Medical Center, Chicago, IL
- 2015 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Department of Ob/Gyn. Rush University Medical Center, Chicago, IL
- 2017 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Professional Nursing Committee Education Committee. Rush University Medical Center, Chicago, IL
- 2017 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Department of Internal Medicine, Presence Saint Joseph Hospital, Chicago, IL
- 2019 Invited Speaker. Advances in Nuclear Cardiology: The Era of PET. Internal Medicine Grand Round. Rush University Medical Center, Chicago, IL.
- 2019 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. Cardiology Grand Rounds. Rush University Medical Center, Chicago, IL
- 2020 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. Cardiology Grand Rounds. Rush University Medical Center, Chicago, IL
- 2021 Invited Speaker. Grand Round. Patient centered stress testing in a World Full of Choices. General Internal Medicine Grand Rounds. Rush University Medical Center, Chicago, IL
- 2021 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. Cardiology Grand Rounds. Illinois Masonic Hospital. Chicago, IL
- 2021 Invited Speaker. Grand Rounds. Cardiac PET Myocardial Perfusion Imaging: A New Era in Stress Testing. Gerontology Round. Rush University Medical Center, Chicago, IL

Pritzker School of Medicine (M.D.)/University of Chicago:

(a) Course Director:

2005-2015 Course Director, Introduction to the ECG for 3rd year medical students (16 classes/year), MS3 (the whole MS3 class over the course of the year)

-I restructured the series of lectures and the EKG case file that accompanies it. The course was recorded and accessible on line. I personally gave the lectures as a 4 week course that was given 4x/year.

Rupa M. Sanghani, MD

2007-2015 Course Co-Director, Introduction to Nuclear Cardiology course, MS4 Elective, 2-4weeks (8-10 students annually)

(b) Didactic:

2007-2010 Presenter, Differentiation of SVTs. Mechanisms and Treatment of Cardiac Disorders: Acute Cardiac Care and advanced cardiac arrhythmias for senior students. Yearly lecture. MS4, ~30 students. Course #52400-1

2007-2010 Presenter, Differential of ST elevations. Mechanisms and Treatment of Cardiac Disorders: Acute Cardiac Care and advanced cardiac arrhythmias for senior students. Yearly lecture. MS4. ~30 students. Course #52400-1

2010-2015 Presenter. Medical Treatment of PAD. Mechanisms and Treatment of Cardiac Disorders: Acute Cardiac Care and advanced cardiac arrhythmias for senior students. Yearly lecture. MS4. ~30 students. Course #52400-1

2010-2014 Presenter: Women and Heart Disease. Topics in Women for Senior Students. Yearly Lecture MS4. ~20 students

(c) Clinical:

2004-2007 Case Discussant, Clinical Pathophysiology of Cardiac Disease, M2 course. Path 302

2006-2015 Ward attending rounds: 4 months/year including MS3, and SubInterns (1 student /month)

2006-2015 Consult service attending rounds: 2 months/year including MS3 and MS4 (1-2 students/month)

2006-2015 Weekly in Nuclear Cardiology – Fellow/Student teaching, read 6x/month (1 student/month)

2007-2015 Co-Director, Introduction to Nuclear Cardiology - MS4 Elective, 2-4weeks (8-10 students annually)

2009 Panelist- Introduction to Internal Medicine Subspecialties for first year medical students

2018- Presenter, ECHO Quantification. Yearly lecture. Fellows/occasional students

University of Chicago Medicine -Graduate Medical Education (residency and clinical fellowships)

(a) Didactic:

2006-2015 Pregnancy and Heart Disease. Annual Lecture for Fellows

2007-2010 Women and Heart Disease. Annual Lecture for Fellows

2011-2013 Cardiac Preoperative Evaluation. Lecture for Residents (6 lectures/year)

2012-2015 PET Nuclear Imaging. Annual Lecture for Fellows

2013-2015 Cardiac Rehabilitation and Coronary Artery Disease. Annual Lecture for Fellows

(b) Clinical:

2006-2015 Ward Attending Rounds: 4 months/year, Interns/Residents (2/month)

2006-2015 Consult service attending rounds: 2 months/year, Fellow, Interns, Residents (1 Fellow, 1-2 residents, 1-2 students/month)

2006-2015 Weekly in Nuclear Cardiology – Fellow/Student teaching, read 6x/month (1 Fellow, 1 student/month)

2009-2015 Clinic Fellow – supervise a fellow for 12 months/year in clinic

2010-2015 Supervise fellows on prevention rotation, rotate through Cardiac Rehab program

CONSULTING POSITIONS

2009-2016	Astellas Pharma	Speaker's Bureau
2009-2016	Astellas Pharma, Inc	Medical Advisory Board
2020-	FDA Medical Imaging Drugs	Advisory Board

LEADERSHIP SERVICE/LEADERSHIP POSITIONS

Professional Organizations

2006-2009 AHA Go Red for Women Medical Advisory Committee for Chicago

2007-2012 American Society of Nuclear Cardiology Quality Assurance Committee
2007 Sister to Sister- Chicago Medical Advisory Board
2007-2010 American Society of Nuclear Cardiology Education Committee
2009 FOCUS Campaign Workgroup, American College of Cardiology
2010-2015 Member, Intra and Inter-Observer Variability Project, American Society of Nuclear Cardiology
2016- ACC Cardioserve
2017-2020 American College of Cardiology, Member, Cardiovascular Imaging Section Leadership Council
2018-2020 ASNC, Referring Wisely Committee
2019 ASNC 2019 Annual Scientific Sessions Program Committee
2020-2021 Chair of Viability Module, American Society of Nuclear Cardiology , Nuclear Cardiology Knowledge Self-Assessment Program
2020 ASNC 2021 Annual Scientific Sessions Program Committee
2021- ASNC, Advocacy Committee
2021- Co-Chair/Director - ASNC Nuclear Cardiology Today Annual Meeting

Writing Groups

2008 Chair of Writing Group, American Society of Nuclear Cardiology, Nuclear Cardiology Lifelong Learning Program
2010 PET Practice Points, American Society of Nuclear Cardiology, Writing group
2010 SPECT Acquisition Practice Points, American Society of Nuclear Cardiology. Writing Group,
2014-2016 ASNC, Maintenance of Certification Module #1 Writing Group
2017 ASNC Nuclear Cardiology Self Assessment Program, question writer
2018 ASNC Standardized Reporting Guidelines
2020- ASNC Quality Metrics, writing committee
2020- ASNC PET Reporting Guidelines, writing committee
2021- ASNC Starting a PET Program Monograph – First Author Lead

Other

2019- HOPE Registry – Delivery Planning and outcomes workgroup
2019-2020 Women in Medicine Symposium – Planning committee

Leadership at RUMC

2016- Director of Nuclear Cardiology
In 2019, I built the first cardiac PET program in the State of Illinois at RUMC. I designed and led a complete revision of our nuclear cardiology program, with the acquisition of completely new hardware and software including a dedicated Cardiac PET camera, new reporting program, training of additional faculty, facilitated communication with insurers on the new program, and quality improvement in moving all nuclear cardiac imaging services to Cardiology ownership. Growth in Nuclear Cardiology has been >70% over the last 2 years.

2016- Director of Cardiac Stress Lab
I supervise the cardiac stress lab, ensuring safety protocols are in place, and oversee the medical decisions needed to run a smooth and effective lab. Since I started at Rush, I have revamped the ordering protocol, reviewed our emergency procedures and streamlined our weekend protocol.

2016- Director for Cardiology Consult Service
I direct the cardiology consult service and implemented a new/formal teaching curriculum when I started. This includes a set of “core” lectures that are given on a

monthly basis to the medical residents and students on the rotation. In addition, I have reestablished a new cardiology answering service for our consult attendings when on call to improve the quality and efficiency of outpatient phone calls after hours.

- 2016- Associate Director of Rush Heart Center for Women
I work actively with Annabelle Volgman MD, Director of the Center, to improve our clinical models, create research projects and to do community outreach and education on the incidence of heart disease in women. I am our expert on CardioObstetrics and am formalizing our program
- 2020- Vice Chief of Cardiology for Clinical Operations
I am currently helping to develop a new inpatient cardiology telemetry service to optimize patient care, throughput and teaching

COMMUNITY SERVICE

- 2006-2009 AHA Go Red for Women Medical Advisory Committee for Chicago
2007-2012 American Society of Nuclear Cardiology Quality Assurance Committee
2008 Sister to Sister- Chicago Medical Advisory Board
2007-2010 American Society of Nuclear Cardiology Education Committee
2009 FOCUS Campaign Workgroup, American College of Cardiology
2010-2015 Member, Intra and Inter-Observer Variability Project, American Society of Nuclear Cardiology
2016- ACC Cardioserve
2017-2020 American College of Cardiology, Member, Cardiovascular Imaging Section Leadership Council
2018-2020 ASNC, Referring Wisely Committee
2018 ASNC 2019 Annual Scientific Sessions Program Committee
2020-2021 Chair of Viability Module, American Society of Nuclear Cardiology , Nuclear Cardiology Knowledge Self-Assessment Program
2021 ASNC 2021 Annual Scientific Sessions Program Committee
2021- Co-Chair/Director - ASNC Nuclear Cardiology Today Annual Meeting

CLINICAL SERVICE at RUSH UNIVERSITY MEDICAL CENTER

Innovations

Cardiac PET Program

I direct the Nuclear Cardiology Lab at RUMC and designed and led a complete restructure of the program in 2019. I started the first Cardiac PET MPI program in the State of Illinois, which allows Rush to offer the full spectrum of nuclear cardiology imaging service, including SPECT and PET MPI, Sarcoid, Amyloid and Viability imaging to the greater area. I oversaw the acquisition and implementation of all new hardware & software, and a new reporting program that promotes consistent and quality interpretations. I also oversaw proper training and quality in our new modality and worked with the CMO's office to transition all nuclear MPI reading to Cardiology. As this was the first program of its type in the State, I worked closely with our insurance group and preauthorization team to ensure smooth approval and reimbursement for this new program. Nuclear Cardiology volumes have increased >70% since implementation of the program and we have expanded our regional referral base.

Cardiology Inpatient Service

I am currently working with administration on the development of a dedicated cardiology telemetry unit. This unit will host 16 beds dedicated to the care of cardiac patients, ensure adequate transition for patients needing to "step down" from the ICU, and provide comprehensive bundled services to patients, to include pharmacy, nutrition, and social work and reduce readmissions. The

unit will be staffed by an attending cardiologist and residents, who will receive teaching on core cardiology topics and management of inpatients with cardiac disease.

Cardio-Obstetrics Program

I work closely with her maternal-fetal medicine program to facilitate the evaluation, management, and treatment of high risk pregnant patients with concomitant coronary cardiac disease.

Safety/Quality Improvement

Cardiac PET Program

I direct the Nuclear Cardiology Lab at RUMC and completely restructured the program in 2019. I started the first Cardiac PET MPI program in the State of Illinois, which allows Rush to offer the full spectrum of nuclear cardiology imaging service, including SPECT and PET MPI, Sarcoid, Amyloid and Viability imaging to the greater area. I oversaw the acquisition and implementation of all new hardware & software, and a new reporting program that promotes consistent and quality interpretations. I also oversaw proper training and quality in our new modality and worked with the CMO’s office to transition all nuclear MPI reading to Cardiology. As this was the first program of its type in the State, I worked closely with our insurance group and preauthorization team to ensure smooth approval and reimbursement for this new program.

Cardiology Inpatient Service

I am currently working with administration on the development of a dedicated cardiology telemetry unit. This unit will host 16 beds dedicated to the care of cardiac patients, ensure adequate transition for patients needing to “step down” from the ICU, and provide comprehensive bundled services to patients, to include pharmacy, nutrition, and social work and reduce readmissions. The unit will be staffed by an attending cardiologist and residents, who will receive teaching on core cardiology topics and management of inpatients with cardiac disease.

COVID19

During the COVID-19 pandemic I worked with our stress lab and nuclear cardiology lab to revise our protocols to ensure safety for our patients and staff. In addition, I designed an inpatient schedule to provide backup inpatient coverage of COVID patients, if needed.

Clinical Research/Clinical Trials

Nuclear Cardiology

I am currently setting up our nuclear cardiology database that we will provide comprehensive Ddata on all of our cardiac MPI studies, amyloid, viability, and sarcoid studies. I hope to have this interdigitate with her other imaging modalities so that we can provide cross modality imaging comparisons.

Development of a new line of patient care/clinic

Development of the Cardiac PET Perfusion Program at Rush	2019
Developing the Cardiology Inpatient Service	In progress, 2021
Development of Formal Cardio-Obstetrics Clinic	In progress, 2021

Overview:

2016- Nuclear Cardiology
 Director: Developed the Cardiac PET program in 2019, complete revision of the program
 Clinical work:
 (Read nuclear stress tests 5-6 days/month) I am responsible for reading nuclear stress tests for the hospital and outpatient center 5-6 days/month with an average of 10-16 studies per day. I supervise cardiology fellows and occasional

students in the nuclear lab. Teaching is done through case presentation, review of nuclear images and informal lecture/discussion. I also facilitate board review preparation for senior fellows in preparation for nuclear certification.

2016- Stress Laboratory

Director:

As Medical Director of the stress laboratory at Rush, I oversee all of stress protocols to ensure quality and safety for our patients. I work closely with our nurses in regards to our emergency plan, facilitating questions on an almost daily basis regarding patient appropriateness for studies or changes that may need to be made. I supervise nuclear and echo stress tests on a regular basis and train cardiology fellows on ECG interpretation of stress tests. With the COVID-19 pandemic, I restructured our stress laboratory and protocols to accommodate for safety and infection protocols that would allow us to continue stress testing in the safest manner possible for our staff and patients.

2016- Cardiology Consult Service

Director:

I am Director the Cardiology Consult Service and oversee scheduling, teaching, program development, and evaluations for all levels of trainees including: PA students, medical students, interns, residents, and fellows. I organized and implemented a teaching curriculum of core cardiology topics that has been well received and won a 2018 PA Program Clinical Site Teaching Award.

Clinical:

(6-8 hours per day in 1 week blocks, for a total of 6-7 weeks/year). I am responsible for consultative services on 4-10 new patients/day, and 4-10 return patients/day. I supervise and direct a team of 1 cardiology fellow, 3-5 house staff and 2-5 medical students in the care of inpatients being consulted for cardiology issues. Teaching is done through case presentation, bedside teaching, review of CXR, ECHO, Cath and Nuclear images, and informal lecture/discussion

2021- Director of Inpatient Cardiology

I am currently working with administration on the development of a dedicated cardiology telemetry unit. This unit will host 16 beds dedicated to the care of cardiac patients, ensure adequate transition for patients needing to “step down” from the ICU, provide comprehensive bundled services to patients, to include pharmacy, nutrition, and social work and reduce readmissions.

2016- Cardiology Clinic

(I see outpatients during 3-4 half day clinics/week, total about 35 patients/week) I am responsible for cardiology patients that I see on a regular basis in my outpatient clinic. I see about 25 return patients/week, and 10 new patients/week. In addition to clinic, I spend considerable time on patient follow-up, and returning patient phone calls and emails. I also supervise a fellow in clinic who sees patients with me once/week. I built a strong collaboration with our Ob/Gyn department and see a large proportion of our pregnant patients with CV disease, in addition to risk assessment and treatment of CAD in women from the Rush Heart Center for Women. I receive many referrals for preoperative evaluations from our surgeons and transplant group

2016- ECHO Laboratory

(I read Echocardiograms about 2x/month, total about ~40 studies/day). I read transthoracic echos for the hospital and outpatient clinics about 2 full days/month. I supervise fellows in the reading and interpretation of echocardiography. Teaching is done through review of images and informal case discussions/lectures.

2016- EKG reader

(Read EKG's for the hospital 4-5 days/month, total ~60 EKG/session). I read EKGs for the hospital 4 weekdays/month. I supervised fellows in EKG reading on the weekday sessions.

University of Chicago 2006-2015

2006-2015 Inpatient Cardiology Ward Service

(2-4 hours per day in 2 week blocks for a total of 4 months/year). I was responsible for the care of 4-10 patients/day on the inpatient cardiology service. I supervised and directed a team of 2 house staff and a medical student in caring for these patients. Teaching was done through case presentation, bedside teaching, review of CXR, ECHO, Cath and Nuclear images, and informal lecture/discussion

2006-2015 Cardiology Consult Service

(2-6 hours per day in 1 week blocks, for a total of 2 months/year, concurrent with inpatient service). I was responsible for consultative services on 4-12 patients/day. I supervised and directed a team of 1 cardiology fellow, 2-3 house staff and 1-2 medical students in the care of inpatients being consulted for cardiology issues. Teaching was done through case presentation, bedside teaching, review of CXR, ECHO, Cath and Nuclear images, and informal lecture/discussion

2006-2015 Cardiology Clinic

(I saw outpatients during 3 half day clinics/week, total about 35 patients/week) I was responsible for cardiology patients that I saw on a regular basis in my outpatient clinic. I saw about 25-30 return patients/week, and 5-10 new patients/week. In addition to clinic, I spent considerable time on patient follow-up, and returning patient phone calls and emails. I also supervised a fellow in clinic who saw patients with me once/week. I built a strong collaboration with our perioperative center and facilitated cardiology preoperative evaluations for our surgeons.

2006-2015 Nuclear Cardiology

(Read nuclear stress tests 6 afternoons/month) I was responsible for reading nuclear stress tests for the hospital and outpatient center 6 afternoons/week, with an average of 8-10 studies per day. I supervised a cardiology fellow and occasional students in the nuclear lab. Teaching was done through case presentation, review of nuclear images and informal lecture/discussion. I also facilitated board review preparation for senior fellows in preparation for nuclear certification. I started our cardiac PET program and created the program on Cardiac PET Sarcoid Imaging.

2009-2015 EKG reader

(Read EKG's for the hospital 4-5 days/month, total ~160 EKG/session). I read EKGs for the hospital on the weekends when covering the inpatient service and 3-5 weekdays/month as well. I supervised fellows in EKG reading on the weekday sessions.

COMMITTEE AND ADMINISTRATIVE SERVICES

Rush University Medical Center 2016-

Departmental

2016- DOM Education Steering Committee
2016- Cardiology Fellowship Application Interviewer
2016-2017 DOIM Division Marketing Plan Committee
2019- Rush CHF Readmission Pathway
2020- Cardiology Readmissions Committee

Medical College

2016- DOM Medical Student Leadership Committee

Previous Institutions -University of Chicago 2006-2015

Committee Membership:

2006-2015 Medicine Internship Application Interviews (4-8 interviews/year)
2007-2015 Cardiology Fellowship Application Interviews (6-10 interviews/year)
2007-2015 Cardiology Fellowship Application Review Committee
2010-2015 Medical Advisory Committee for Therapy Services
2013-2015 Hospital Quality Committee
2014-2015 Readmission Task Force
2014-2015 CHF Readmission Task Force, Chairperson

Leadership

2010-2015 Medical Director for Cardiac Rehabilitation (5%) effort
I supervised the medical portion of the cardiac rehabilitation program and oversaw 3 exercise physiologists. I reviewed the exercise plan of care for each patient, updated the cardiac rehabilitation emergency plan and was the first line for any medical issues that would arise. Total visits increased by 10% after I began a widespread enrollment initiative.

2013-2015 Director for Cardiac PET
I started the Cardiac Sarcoid PET program and developed a new clinical program and protocol for Cardiac PET Sarcoid Imaging.

2014-2015 Director for Quality for Cardiology
I created a balanced sectional and physician level scorecard/dashboard to display physician level quality metrics. This was the first dashboard of its kind at the Univ of Chicago. I facilitated credentialing and quality issues for the Section of Cardiology I also developed and led a program to reduced congestive heart failure readmissions.

2014-2015 Director – Acute Decompensated Heart Failure Readmission Reduction Program (ADHRP)
I developed and implemented a very successful quality initiative to help reduced readmission rates for CHF. We created a multi-disciplinary team involving cardiology, medicine, nursing, pharmacy, nutrition, PT/OT, Social work, case management, and patient engagement that helped to reduced readmissions by over 50% on the cardiology floor. The program is currently being expanded to include other indications that are penalized for readmission, including AMI and is now being looked at for Afib. We won a \$100,000 quality and innovations grant from the University for our work on this project.

SCIENTIFIC AND SCHOLARLY ACTIVITIES

Membership in Professional Societies

2009- Fellow, American College of Cardiology
2010- Fellow, American Society of Nuclear Cardiology
2007- IL-American College of Cardiology, Member
2007- IL- American College of Cardiology, Member, Women in Cardiology
2007-2012 American Society of Nuclear Cardiology Quality Assurance Committee
2007-2010 American Society of Nuclear Cardiology Education Committee
2009 FOCUS Campaign Workgroup, American College of Cardiology

- 2010-2015 Member, Intra and Inter-Observer Variability Project, American Society of Nuclear Cardiology
- 2016- ACC Cardioserve
- 2018-2020 ASNC, Referring Wisely Committee
- 2019 American Society of Nuclear Cardiology Annual Program Committee
- 2017-2020 American College of Cardiology, Member, Cardiovascular Imaging Section Leadership Council
- 2019 American Society of Nuclear Cardiology Annual Program Committee
- 2021-2024 American Society of Nuclear Cardiology Health Policy Committee
- 2021- Co-Chair/Director - ASNC Nuclear Cardiology Today Annual Meeting

Review for Professional Journals

- 2010- *Ad hoc* Reviewer, Journal of Nuclear Cardiology
- 2010- *Ad hoc* Reviewer, Heart Failure Reviews.
- 2011- *Ad hoc* Reviewer, American Journal of Cardiology

Invited/Oral Presentations at Regional, National and International Meetings

- 2006 Young Investigator Award Presentation/Winner. Clinical Application of the Appropriateness Criteria for SPECT. American Society of Nuclear Cardiology National Meeting
- 2007 Invited Speaker. Chicago Medical Society CME. Women and Heart Disease
- 2009 Invited Speaker. Appropriateness Criteria: Case Presentation. American College of Cardiology
- 2010 Invited Speaker. Update on Appropriateness Criteria. American Society of Nuclear Cardiology Fellow's Workshop.
- 2010 Invited Speaker. Update on Advanced Cardiovascular Imaging. Indiana Society of Cardiopulmonary Rehabilitation Annual Meeting. Indiana
- 2010 Invited Speaker. The importance of taking your medications. Women Heart Program, Chicago, IL
- 2010 Invited Speaker/Panelist: Understanding Advances in Contemporary Nuclear Cardiology Techniques: A Case based approach. The Heart.Org
- 2011 Invited Speaker. Update on Appropriate Use Criteria for SPECT. American Society of Nuclear Cardiology Fellow's Workshop.
- 2011 Invited Speaker. Appropriate Use of Nuclear Cardiac Imaging: How to apply in daily practice. American College of Cardiology
- 2012 Invited Speaker. Update on Appropriate Use Criteria for SPECT and CT. American Society of Nuclear Cardiology Fellow's Workshop. Chicago, IL
- 2013 Invited Speaker. Case Presentation on Cardiac CT. American Society of Nuclear Cardiology Scientific Sessions. Chicago, IL
- 2013 Invited Speaker. Nuclear Cardiology Quiz Bowl. American Society of Nuclear Cardiology Scientific Sessions. Chicago, IL
- 2014 Invited Speaker. Maintenance of Certification Session. American Society of Nuclear Cardiology Scientific Sessions. Boston, MA

- 2016 Invited Speaker. Maintenance of Certification Session. American Society of Nuclear Cardiology Scientific Sessions. Boca Raton, FL
- 2017 Invited Speaker. Hypertension in Pregnancy. 18th Annual Cardiovascular Symposium: Cardiology for the Primary Care Physician. Chicago, IL.
- 2019 Invited Speaker. PET site Tour for American Society of Nuclear Cardiology Annual Scientific Sessions. Chicago, IL
- 2019 Invited Speaker. ASNC Lunch and Learn. Practical Considerations in starting a PET lab. ASNC Scientific Sessions. Chicago IL.
- 2020 Invited Speaker. ASNC Board Prep Course, PET Cases. Virtual Meeting, Chicago, IL
- 2020 Invited Speaker. Update on Appropriateness Criteria. American Society of Nuclear Cardiology Fellow's Bootcamp Workshop Invited Speaker. ASNC Cases with the Aces. – Live cases on Cardiac PET, Virtual ASNC Annual Scientific Sessions
- 2020 Invited Speaker. ASNC Nuclear Cardiology Today. Coronary Microvascular Disease: From Mystery to Reality. Virtual program
- 2021 Invited Speaker. ASNC Nuclear Cardiology Today. New Onset Systolic Dysfunction: Can Ischemic Cardiomyopathy be Excluded with Cardiac Imaging? Do all Patients Need a Cath? Virtual program
- 2021 Invited Speaker. SNMMI Annual Scientific Session. Practical Solutions to Starting a Cardiac PET Program. Virtual program
- 2021 Invited Speaker. Cardiovascular Institute. Best Practices in PET Reporting. Virtual program
- 2021 Invited Speaker. British Institute of Radiology and ASNC Conference Current Trends in Nuclear Cardiology. Nuclear Cardiology Practice- Current Guidelines: An American Perspective. Virtual Program
- 2021 Invited Speaker and Panelist. ASNC Multimodality Imaging in Chest Pain. Webinar

Invited Seminars and Lectures

- 2004 Invited Speaker for Grand Rounds. Exercise and Rehabilitation for the patient with Coronary Artery Disease, Schwab Rehabilitation Center, Chicago, IL
- 2007 Town Hall Panel. AHA Go Red for Women Luncheon, Chicago, IL
- 2007 Invited Speaker for Grand Rounds. Pregnancy and the Heart. Department of Obstetrics/Gynecology, University of Chicago, Chicago, IL
- 2008 Invited Speaker for Grand Rounds. Preoperative Evaluation for Vascular Surgery. Section of Vascular Surgery, University of Chicago, Chicago, IL
- 2008 Town Hall Panel. AHA Go Red for Women Luncheon, Chicago, IL
- 2008 Invited Speaker for CME. New Frontiers in Clinical Cardiology and CV Surgery: A Case Presentation, Chicago, IL

Rupa M. Sanghani, MD

- 2008 Invited Speaker for Grand Rounds. Coronary Artery Disease in Lupus and RA. Department of Rheumatology, University of Chicago, Chicago, IL
- 2009 Invited Speaker. Appropriateness in Cardiovascular Imaging. Astellas Advisory Board Meeting, San Francisco, CA
- 2009 Invited Speaker for Grand Rounds. Women and Heart Disease. Medicine Grand Rounds, Gottlieb Medical Center, Elmhurst, IL
- 2010 Invited Speaker. FOCUS Campaign Welcome Webinar
- 2011 Invited Speaker. Update on the Appropriate Use Criteria for SPECT. Cardinal Health
- 2011 Invited Speaker. Update on PET imaging. Astellas Advisory Board Meeting, Chicago, IL
- 2012 Invited Speaker. Advances in Nuclear Cardiology. University of Chicago CME, Chicago, IL
- 2012 Invited Speaker. The Changing Landscape of Nuclear Imaging: Focus on PET. University of Chicago CME
- 2012 Invited Speaker for Grand Rounds. Exercise and the Patient with Coronary Artery Disease. Schwab Rehabilitation Center, Chicago, IL.
- 2012 Invited Speaker for Grand Rounds. Advances in Nuclear Imaging: Focus on PET. University of Chicago, Section of Cardiology, Chicago, IL.
- 2013 Invited Speaker for Grand Rounds. Advances in Nuclear Stress Testing: Cardiac PET. University of Chicago, Department of Medicine, Chicago, L.
- 2016 Overview of the Rush Heart Center for Women. A day with Congressman Danny Davis. Rush University Medical Center, Chicago, IL
- 2016 Invited Speaker for Grand Rounds. Caring for the Pregnant Patient with Cardiovascular Disease: The Heart-Baby Connection. Department of Ob/Gyn. Rush University Medical Center, Chicago, IL
- 2017 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Department of Ob/Gyn. Rush University Medical Center, Chicago, IL
- 2017 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Professional Nursing Committee Education Committee. Rush University Medical Center, Chicago, IL
- 2017 Invited Speaker for Grand Rounds. Prevention and Screening for Cardiovascular Risk in Women. Department of Internal Medicine, Presence Saint Joseph Hospital, Chicago, IL
- 2017 Invited Speaker. Hypertension in Pregnancy. 18th Annual Cardiovascular Symposium: Cardiology for the Primary Care Physician. Chicago, IL.
- 2019 Invited Speaker. Advances in Nuclear Cardiology: The Era of PET. Internal Medicine Grand Round. Rush University Medical Center, Chicago, IL.
- 2019 Invited Speaker. Preoperative Cardiovascular Risk Assessment. Cardiology PA in service. Rush University Medical Center, Chicago, IL

- 2019 Invited Speaker. Webinar. How to start a PET program, ASNC
- 2019 Invited Speaker. PET site Tour for American Society of Nuclear Cardiology Annual Scientific Sessions. Chicago, IL
- 2019 Invited Speaker. ASNC Lunch and Learn. Practical Considerations in starting a PET lab. Chicago IL.
- 2019 Invited Speaker. Advances in Nuclear Cardiology at Rush: The Era of PET. Cardiology Grand Rounds. Rush University Medical Center, Chicago, IL
- 2019 Invited Speaker. Keynote Address. My Future in Nuclear Cardiology. ASNC Future leaders of Nuclear Cardiology Program. Tysons Corner, VA
- 2020 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. Cardiology Grand Rounds. Rush University Medical Center, Chicago, IL
- 2020 Invited Speaker. Preoperative Cardiovascular Risk Assessment. Cardiology PA in service. Rush University Medical Center, Chicago, IL
- 2021 Invited Speaker, Imaging for Ischemic Heart Disease in Women. Federal Drug Administration Office of Women's Health.
- 2021 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. Cardiology Grand Rounds. Illinois Masonic Medical Center, Chicago, IL
- 2021 Invited Speaker. Grand Rounds. Advances in Nuclear Cardiology: The Era of PET. General Internal Medicine Grand Rounds. Rush University Hospital, Chicago, IL

Continuing Medical Education

- 2007 Chicago Medical Society CME. Women and Heart Disease
- 2008 New Frontiers in Clinical Cardiology and CV Surgery: A Case Presentation, University of Chicago CME, Chicago, IL
- 2012 Advances in Nuclear Cardiology. University of Chicago CME, Chicago, IL
- 2012 The Changing Landscape of Nuclear Imaging: Focus on PET. University of Chicago CME
- 2017 Hypertension in Pregnancy. 18th Annual Cardiovascular Symposium: Cardiology for the Primary Care Physician. Chicago, IL.

Poster Presentations

1. Agdamag AC, Gomez J, Rajan K, **Sanghani R**, Volgman A. Comparison of Screening electrocardiogram and Transthoracic echocardiogram abnormalities with ASCVD risk score among community dwelling women. AHA/ASA EPI/Lifestyle 2018 Abstract ID #1721
2. Li A, Bokoski J, Kalra D, **Sanghani R**. Management of Eisenmenger syndrome secondary to unrepaired sinus venosus atrial septal defect with partial anomalous pulmonary venous connection. ACC 2019. Journal of the American College of Cardiology. 2019;73:2337
3. Prasad R, Malecki M, Rybczynski A, Virmani S, Singh J, **Sanghani R**. Count Rate Performance Evaluation of 3D PET System for Rubidium Myocardial Dynamic Imaging. ASNC 2019

4. **Sanghani RM**, Fugar S, Gomez JMD, White W, Malecki M, Rana N, Williams KA. Reducing Occupational Radiation Exposure: An Additional Benefit Of Transitioning From SPECT MPI To PET MPI, Rush University Medical Center, Chicago, IL. ASNC 2020
5. G. Nair, J. M. Gomez, J. M. Du-Fay-De-Lavallaz, N. T. Aggarwal, R. Doukky, K. A. Williams, A. S. Volgman, **R. M. Sanghani**; Correlation Of Coronary Microvascular Disease And Cognitive Impairment Associated With Cerebrovascular Microvascular Disease Based On Multi-modality Imaging, by ¹Rush University Medical Center, Chicago, IL, ²Cardiology, Cook County Health and Hospitals System, Chicago, IL ASNC 2020
6. Gomez JMD, Du-Fay-de-Lavallaz J, Fugar S, Simmons A, Sarau A, Clark B, Doukky R, **Sanghani R**, Aggarwal N, Williams, KA, Volgman A. Sex Differences in COVID 19 Hospitalization and Mortality in Chicagoland. Circulation Nov 2020: AHA Scientific Sessions.

Fugar S, Du-Fay-de-Lavallaz J, Gomez JM, **Sanghani RM**. Characteristics of Hispanic, Non-Hispanic White and Non-Hispanic Black Patients Screened and Hospitalized for COVID-19 in Chicago, USA. Submitted for ACC 2021

Community Service Talks

- 2016 Women and Heart Disease. Digitas, Chicago, IL
- 2016 Women and Heart Disease. Deloitte, Chicago, IL
- 2017 Panelist, Women in Bio Meeting, Merchandise March, Chicago, IL
- 2017 Panelist, Culture of a Women's Heart, Rush Oak Park Hospital, Oak Park, IL
- 2017 Women's Health Panel and Talk. Medications to lower the risk of heart disease and stroke and who should take them. Women's Athletic Club of Chicago, Chicago, IL
- 2019 Prevention of Heart Disease in Women. Capital One Financial, Chicago, IL

Funding History of Peer-Reviewed Grants

Past:

Site Primary Investigator

VIRGO (Variation in Recovery: Role of Gender on Outcomes in Young AMI Patients) NIH sponsored Trial. My role: Site PI, Total direct costs: \$5895.78 No Annual salary recovery. Project period: 4/1/08-5/31/14

GE 122-0116. An open label, multi-center, phase 4 study to demonstrate the prognostic usefulness of AdreView scintigraphy for identifying subjects with heart failure who will experience death during 60 months follow-up. Industry sponsored. Site Principal Investigator 2014-2015

SILVER-MI (Risk stratification in Older Patients with Acute Myocardial Infarction), NIH Sponsored trial My role: Site PI, No Annual salary recovery. Project Period: 5/13-5/16

ADMIRE-HF: AdreView Myocardial Imaging for Risk Evaluation in Heart Failure Industry sponsored study. My role: Site PI, 2014-2015

Sub-Investigator: Multi-Center Trials

FRESNO. A Phase 3, open-label, multi-center, randomized, parallel group study of the efficacy and safety of fixed combination torcetrapib/atorvastatin administered qd compared to fixed combination ezetimibe/simvastatin for 6 weeks in subjects with dyslipidemia. Site Sub-Investigator, 2005-2006

MIP-BP22. Development of a normal database and criteria for abnormality for B-methyl-*p*-[¹²³I]-Iodophenyl-pentadecanoic acid for Quantitative Imaging Site Sub-Investigator 2006-2007

MIBG Heart Failure Study. Site Sub-Investigator 2006-2007

SPARC trial. Study of Myocardial Perfusion and Coronary Anatomy Imaging Roles in CAD.
Site Sub-Investigator 2006-2007

Crescendo Trial. Comprehensive Rimonabant Evaluation Study of Cardiovascular Endpoints
and Outcomes. Site Sub-Investigator. 2006-2007

CORAL Trial. Cardiovascular Outcomes in Renal Atherosclerotic Lesions . Site Sub-
Investigator 2008-2013

Non-funded Research

Principal Investigator - Investigator Initiated Single Center

2006-2009 Clinical Evaluation of the ACCF/ASNC Appropriateness Criteria for SPECT

2006-2009 Clinical Evaluation of the ACCF/ACR/SCCT/SCMR/ASNC/NASCI/SCAI/SIR
Appropriateness Criteria for Cardiac Computed Tomography

2007-2009 Nuclear Cardiology Database Project

2010-2012 Stress only imaging in patients with prior SPECT imaging: new stress/old rest
comparison

Secondary Investigator

(a) Single Center Trial

2007-2009 Clinical Evaluation of the ACCF/ASNC Appropriateness Criteria for ECHO, 2007-2

BIBLIOGRAPHY

Original Full-Length Manuscripts

(a)Published

1. EA Kozak, **R Mehta**. Implementation of an Ambulatory Setting in the Third Year Internal Medicine Clerkship. *Journal of General Internal Medicine*. 12 Supplement 1:92, April 1997.
2. RP Ward, MH Al-Mallah, G Grossman, **R Mehta**, E Ficaro. American Society of Nuclear Cardiology review of the ACCF/ASNC Appropriateness Criteria for Single Photon Emission Computed Tomography Myocardial Perfusion Imaging (SPECT MPI) *J Nucl Cardiol* 2007;14:911
3. **R Mehta**, R Agarwal, S Chandra, RP Ward, KA Williams. Evaluation of the ACCF/ASNC Appropriateness Criteria for SPECT Myocardial Perfusion Imaging. *J Nucl Cardiol* 2008;15:337-44
4. RP Ward, I Mansour, N Lemieux, N Gera, **R Mehta**, R Lang. Prospective Evaluation of the Clinical Application of ACCF/ASE Appropriateness Criteria for Transthoracic Echocardiography. *JACC: Cardiovascular Imaging* 2008; 1(5):663-671
5. J Shin , HK Pokharna, KA Williams, **R Mehta**, RP Ward. SPECT Myocardial Perfusion Imaging with Prone Only Acquisitions: Correlation with Coronary Angiography. *J Nucl Cardiol* 2009;16(4):590-596
6. N Kachenoura, F Veronesi, JA Lodato, C Corsi, **R Mehta**, B Newby, RM Lang, V Mor-Avi. Volumetric Quantification of Myocardial Perfusion using analysis of multi-detector computed tomography 3D dataset: Comparison with nuclear perfusion imaging. *Eur Radiol* 2010; 20:337-347

7. JJ Ryan, **R Mehta**, T Thiruvoipati, RP Ward, KA Williams. Stress-only imaging in patients with prior SPECT MPI: A simulation study. *J Nucl Cardiol*. 2012 Jan 19. 10.1007/s12350-011-9507-4
8. S Tessler Lindau, E Abramsohn, H Bueno, G D'Onofrio, J Lichtman, N Lorenze, **R Mehta Sanghani**, E Spatz, J Spertus, K Strait, K Wroblewski, S Zhou, H Krumholz. Sexual activity and counseling in the first month after acute myocardial infarction among younger adults in the United States and Spain: A prospective, observational study. *Circulation* 2014;130:2302-2309
9. S Tessler Lindau, E Abramsohn, H Bueno, G D'Onofrio, J Lichtman, N Lorenze, **R Mehta Sanghani**, E Spatz, J Spertus K Strait, K Wroblewski, S Zhou, H Krumholz, Sexual activity and function in the year after an acute myocardial infarction among younger women and men in the U.S. and Spain. *JAMA Cardiol*. 2016;1(7):754-764
10. Tabit CE, Coplan MJ, Spencer KT, Alcain CF, Spiegel T, Vohra AS, Adelman D, Liao JK, **Sanghani RM**. Cardiology Consultation in the Emergency Department Reduces Re-hospitalization for Low-Socioeconomic Patients with Acute Decompensated Heart Failure. *Am J Med*. 2017 Sep: 130(9):1112
11. Tilkemeier, P.L., Bourque, J., Doukky, R., **Sanghani R.**, Weinberg, R. J. ASNC Imaging guidelines for nuclear cardiology procedures: Standardized reporting of nuclear cardiology. *Nucl. Cardiol*. (2017). <https://doi.org/10.1007/s12350-017-1057-y>
12. Speigel TF, Wassermann TB, Neumann N, Coplan M, Spencer K, Adelman D, **Sanghani RM**, Tabit C. A clinical pathway for heart failure reduced admissions from the ED without increasing congestion in the ED. *American Journal of Emergency Medicine* (2017); <https://doi.org/10.1016/j.ajem.2017.12.012>
13. Aggarwal, NR, Patel HN, Mehta LS, **Sanghani RM**, Lundberg G, et al. Sex Differences in Ischemic Heart Disease: Advances, Obstacles, and Next Steps. *Circ Cardiovasc Qual Outcomes* 2018;11(2) <https://doi.org/10.1161/CIRCOUTCOMES.117.004437>
14. Lundberg GP, Mehta LS, **Sanghani RM**, Patel HN, Aggarwal NR, et al. Heart Centers for Women: Historical Perspective on Formation and Future Strategies to Reduce Cardiovascular Disease. *Circulation*. 2018;138:1155-165
15. Kaye AB, Bhakta A, Moseley AD, Rao AK, Arif S, **Sanghani R**. Review of Cardiovascular Drugs in Pregnancy. *Journal of Women's Health*. 2018. DOI: 10.1089/jwh.2018.7145
16. Kalra DK, Lichetnestein SJ, Bai C, **Sanghani R** et al. Takotsubo Cardiomyopathy in a man with no trigger and multiple cardioembolic complications – A rare constellation Echocardiography. 2019;00:1-5. <https://doi.org/10.1111/echo14333>
17. Kalra DK, Anderson C, Sohl S, **Sanghani R**, et al. Double-chambered left ventricle: a diagnosis made by multimodality imaging. *Journal of Echocardiography*. 2019; (<https://doi.org/10.1007/s12574-019-00429-w>)
18. Patel H, Aggarwal N, Rao A, Bryant E, **Sanghani, RM**, Byrnes, M, Kalra D, Dairagh L, Braun L, Gabriel S, Volgman AS. Microvascular Disease and Small-vessel Disease – The Nexus of Multiple Diseases of Women- A Narrative Review, *Journal of Women's Health*. 2020 Feb 19. <https://doi.org/10.1089/jwh.2019.7826>

19. Madan N, Gajo E, **Sanghani RM**, Volgman AS. Sex-Based Considerations in the evaluation of chest pain and management of obstructive coronary artery disease. *Current Atherosclerosis Reports* 2020; 22:39. <https://doi.org/10.1007/s11883-020-00855-7>
20. Lama von Buchwald C, **Sanghani R**. PET Myocardial Perfusion Imaging in the Diagnosis of Apical Hypertrophic Cardiomyopathy. *J Nucl Cardio* 2020.
20. Parashar S, Akhter N, Paplomata E, **Sanghani R**, Dent S, et al. Cancer Treatment Related Cardiotoxicity in Gynecologic Malignancies- Submitted
21. Fugar S, Du-Fay-de-Lavallaz J, Gomez JMD, **Sanghani R**, Clark B et al. Characteristics of Hispanic, White, and Non-Hispanic Black Patients Screened and Hospitalized for COVID 19 in Chicago, USA- submitted *Journal of Racial and Ethnic Health Disparities*
22. Bello NA, Bairey Merz C, Noel, Brown H, **Sanghani R**, Lindley K et al. Diagnostic Cardiovascular Imaging Therapeutic Strategies in Pregnancy JCC Focus Seminar 4/5 (on behalf of the ACC Cardiovascular Dz in Women Committee and the Cardio-Obstetrics Work Group) *JACC* 2021;77(14):1813-22
23. Gomez JM, Du-Fay-de-Lavallaz J, Fugar S, Sarau A, Simmons A, Sanghani R, Volgman A et al. Sex Differences in COVID-19 Hospitalization and Mortality. *Journal of Women's Health* 2021. (Accepted for publication)

Book Chapters

- R Mehta**, RP Ward, Editors P Coon and K Collins. *The Sonographer's Echo Manual*, Chapter: Transesophageal Echocardiography. (Submitted for publication to Lippincott Williams & Wilkins, Philadelphia, PA)
- R Sanghani**, KA Williams. *Nuclear Cardiac Imaging: Principles and Applications*, 5th edition. Chapter: Radionuclide Angiography: Planar and Tomographic (Oxford University Press 2015)
- R Sanghani**, KA Williams. *Nuclear Cardiology: Practical Applications*. 3rd edition. Chapter: Radionuclide Angiography- Equilibrium and First Pass (McGraw Medical 2017)
- R Sanghani**, S Malhotra. *Nuclear Cardiology and Multimodality Cardiovascular Imaging- A Companion to Braunwald's Heart Disease*. 1st Edition. Chapter: Recognizing and Preventing Artifacts with SPECT and PET Imaging. (Elsevier Press 2020)
- R Sanghani**, J Skeete. Heller and Hendel. *Nuclear Cardiology: Non-Cardiac Findings on SPECT and PET* (Submitted/in press)

Peer-reviewed editorials

7. **Mehta R**, Williams KA. AUC for SPECT: Is Gender Bias Inappropriate. *J Nucl Cardiol* 2011; 18(4):588-594
8. **Sanghani RM**, Doukky R. Fully Automated Analysis of Perfusion Data: the rise of the machines. *J Nucl Cardiol*. Published online April 21, 2017

Abstracts

1. Agdamag AC, Gomez J, Rajan K, **Sanghani R**, Volgman A. Comparison of Screening electrocardiogram and Transthoracic echocardiogram abnormalities with

ASCVD risk score among community dwelling women. AHA/ASA
EPI/Lifestyle 2018 Abstract ID #1721

2. Li A, Bokoski J, Kalra D, **Sanghani R**. Management of Eisenmenger syndrome secondary to unrepaired sinus venosus atrial septal defect with partial anomalous pulmonary venous connection. ACC 2019. Journal of the American College of Cardiology. 2019;73:2337
3. Prasad R, Malecki M, Rybczynski A, Virmani S, Singh J, **Sanghani R**. Count Rate Performance Evaluation of 3D PET System for Rubidium Myocardial Dynamic Imaging. ASNC 2019
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5. G. Nair, J. M. Gomez, J. M. Du-Fay-De-Lavallaz, N. T. Aggarwal, R. Doukky, K. A. Williams, A. S. Volgman, **R. M. Sanghani**; Correlation Of Coronary Microvascular Disease And Cognitive Impairment Associated With Cerebrovascular Microvascular Disease Based On Multi-modality Imaging, by ¹Rush University Medical Center, Chicago, IL, ²Cardiology, Cook County Health and Hospitals System, Chicago, IL ASNC 2020
6. Gomez JMD, Du-Fay-de-Lavallaz J, Fugar S, Simmons A, Sarau A, Clark B, Doukky R, **Sanghani R**, Aggarwal N, Williams, KA, Volgman A. Sex Differences in COVID 19 Hospitalization and Mortality in Chicagoland. Circulation Nov 2020: AHA Scientific Sessions.
7. Fugar S, Du-Fay-de-Lavallaz J, Gomez JM, **Sanghani RM**. Characteristics of Hispanic, Non-Hispanic White and Non-Hispanic Black Patients Screened and Hospitalized for COVID-19 in Chicago, USA. ACC 2021

Other works that are publically available

2020 FOCUS Innovation Welcome Webinar, American College of Cardiology, January 2010,

<http://www.cardiosource.org/Science-And-Quality/Quality-Programs/Imaging-in-FOCUS/About-the-FOCUS-Community.aspx>

2021 Understanding Advances in Contemporary Nuclear Cardiology Techniques: A Case based approach, The Heart.Org, November 2010, <http://theheart.medscape.org/viewarticle/733773>

2022 Update on the Appropriate Use Criteria for SPECT, Cardinal Health, January, 2011

2023 Update on the Appropriate Use Criteria for SPECT, Cardinal Health, February 2012

2024 How to start a PET program, Webinar. ASNC September 2019

2025 How to start a PET Program. <https://www.dicardiology.com/article/how-start-cardiac-pet-ct-imaging-program>