

# NASCI 2020

## VIRTUAL ANNUAL MEETING

Saturday, September 12 - Monday, September 14

**CME**  
WILL BE OPEN  
FOR 60 DAYS

**FREE**  
**Bootcamp**  
September 12

**SATURDAY, SEPTEMBER 12, 2020** (All times are Eastern Time Zone)

8:15 am – 9:00 am	<b>NASCI VIRTUAL YOGA</b> <b>INTRODUCER: PURVI PARWANI</b> <b>INSTRUCTOR: EDDIE STERN</b> 
9:30 am – 11:15 am	<b>CARDIAC CT BOOTCAMP SESSION 1</b> <b>MODERATOR: DANIEL VARGAS</b>
9:30 am	(SAT-01) Coronary Artery Disease – Basics and CAD-RADS <i>Shaoxiong Zhang</i>
9:45 am	(SAT-02) Coronary Anatomy <i>Sandeep Hedgire</i>
10:00 am	(SAT-03) CABG Evaluation <i>Lewis Hahn</i>
10:15 am	(SAT-04) Coronary Anomalies <i>Michael Bolen</i>
10:30 am	(SAT-05) Basic Adult Congenital Heart Disease <i>Demetrios Raptis</i>
10:45 am	(SAT-06) Patient Preparation, Premedication <i>Daniel Groves</i>
11:00 am	Q & A
11:15 am – 12:45 pm	<b>CARDIAC CT BOOTCAMP SESSION 2</b> <b>MODERATOR: SASAN PARTOVI</b>
11:15 am	(SAT-07) Cardiac Tumors <i>Daniel Ocazonez</i>
11:30 am	(SAT-08) Pre-TAVR Imaging <i>Jeremy Burt</i>
11:45 am	(SAT-09) Postoperative Imaging of the Aorta <i>Gauri Rani Karur</i>
12:00 pm	(SAT-10) Pericardial Disease <i>Daniel Green</i>
12:15 pm	(SAT-11) Peripheral Extremity CTA <i>Sasan Partovi</i>
12:30 pm	Q & A
12:45 pm – 2:15 pm	<b>CARDIAC MR BOOTCAMP SESSION 3</b> <b>MODERATOR: JADRANKA STOJANOVSKA</b>
12:45 pm	(SAT-12) Ischemic CM <i>Lara Walkoff</i>
1:00 pm	(SAT-13) Cardiac Masses <i>Gautham Reddy</i>
1:15 pm	(SAT-14) Non Ischemic CM <i>Jadranka Stojanovska</i>
1:30 pm	(SAT-15) Cardiac Valve Evaluation with MRI <i>Kimberly Kallianos</i>
1:45 pm	(SAT-16) Tips and Tricks CMR <i>Bradley Allen</i>
2:00 pm	Q & A
2:15 pm – 3:25 pm	<b>THE YEAR IN REVIEW</b> <b>MODERATORS: ARTHUR STILLMAN, PAM WOODARD</b>
2:15 pm	(SAT-17) Journal of Thoracic Imaging <i>Joseph Schoepf</i>
2:25 pm	(SAT-18) International Journal of Cardiovascular Imaging <i>Arthur Stillman</i>
2:35 pm	(SAT-19) Journal of Cardiovascular Computed Tomography <i>Carlo De Cecco</i>
2:45 pm	(SAT-20) Circulation Cardiovascular Imaging <i>Pamela Woodard</i>
2:55 pm	Journal of Cardiovascular Magnetic Resonance: Cardiac Imaging in COVID-19 <i>Purvi Parwani</i>
3:10 pm	Q & A
3:30 pm – 4:00 pm	<b>Photon Counting CT: The Next Frontier?</b> <i>Ahmed Halaweish, Ph.D., Director, CT Scientific Collaboration, Siemens Healthineers</i> <b>*Sponsored by Siemens Healthineers</b>

## SUNDAY, SEPTEMBER 13, 2020 (All times are Eastern Time Zone)

9:15 am – 9:20 am	WELCOME/INTRODUCTION
9:20 am – 10:30 am	<b>SCIENTIFIC SESSION I</b> <b>MODERATORS: PRACHI AGARWAL, BRADLEY ALLEN</b>
9:20 am	(SUN-01-SSI) Measurement Accuracy of Prototype Non-contrast, Compressed Sensing-based, Respiratory Motion-Resolved Whole Heart MRA for the Assessment of Thoracic Aortic Dilatation: Comparison with CTA <i>Basel Yacoub</i>
9:27 am	(SUN-02-SSI) Diagnostic Performance of Coronary CT Angiogram (CCTA): A Comparison Between Pre-liver and Pre-kidney Transplant Patients <i>Rachael Kirkbride</i>
9:34 am	(SUN-03-SSI) The Impact of Reduced Radiation Dose and Iterative Reconstruction on Coronary Calcium Quantification in Simulated And Actual Patient Scans <i>Fatemeh Kaghazchi</i>
9:41 am	(SUN-04-SSI) Highly Accelerated 4D Flow Prototype Provides Accurate Intracardiac Flow Measurements Compared to Conventional 4D Flow <i>Akos Varga-Szemes</i>
9:48 am	(SUN-05-SSI) Deep Neural Network Provides Expert Level Accuracy in Quantifying Thoracic Aortic Dilatation on Contrast and Non-contrast Chest CT Scans <i>Basel Yacoub</i>
9:55 am	(SUN-06-SSI) Utility of Time-Resolved MRA in Complex Vascular Malformations: Correlation with Digital Subtraction Catheter Angiography <i>David Gedeon</i>
10:02 am	(SUN-07-SSI) Evaluation of Aortic Stent Endoleaks Using Ferumoxytol Enhanced MR Angiography <i>Sipan Mathevossian</i>
10:09 am – 10:30 am	Q & A
10:35 am – 12:45 pm	<b>STRUCTURAL HEART DISEASE</b> <b>MODERATORS: DIANA LITMANOVICH, PHILLIP YOUNG</b>
10:35 am	(SUN-08) Presidential Address <i>Jacobo Kirsch, MD, FNASCI</i>
10:45 am	(SUN-09) PAULIN KEYNOTE LECTURE: Advances in Percutaneous Treatment in Aortic and Mitral Valve Disease <i>Samir Kapadia</i>
11:15 am	(SUN-10) TAVR Scientific Update <i>Brian Ghoshhajra</i>
11:35 am	(SUN-11) Transcatheter Aortic Valve Replacement: Predictors of Complications <i>Mayil Krishnam</i>
11:55 am	(SUN-12) Transcatheter Mitral Valve Replacement <i>Eric Williamson</i>
12:15 am	(SUN-13) Optimizing the EP Patient <i>Harold Litt</i>
12:35 pm – 12:45 pm	Q & A
12:50 pm – 2:25 pm	<b>ISCHEMIC HEART DISEASE - UPDATES AND NEW GUIDELINES (INCLUDE PAYMENT, REIMBURSEMENT AND CODING)</b> <b>MODERATORS: MATTHEW CHAM, JOSEPH SCHOEPP</b>
12:50 pm	(SUN-14) History of Coronary Angiography <i>James Young, MD</i>
1:05 pm	(SUN-15) Current Practice Guidelines <i>Matthew Cham</i>
1:20 pm	(SUN-16) Payment/Reimbursement <i>Ron Blankstein</i>
1:35 pm	(SUN-17) Cardiac CT - Where Are We Now? <i>Phillip Young</i>
1:50 pm	(SUN-18) Exercise Stress MR <i>Andrew Bowman</i>
2:05 pm – 2:25 pm	Q & A

2:30 pm – 4:20 pm		<b>CUTTING EDGE TECHNOLOGY AND AHA SESSION</b> <b><i>MODERATORS: GREG KICKSKA, KAREN ORDOVAS</i></b>
2:30 pm	(SUN-19) How Photon Counting will Change Cardiac Imaging <i>Greg Kickska</i>	
2:45 pm	(SUN-20-AHA) Automated Measurement of Left Atrial Volumes on Routine Non-ECG-gated, Noncontrast Chest CT Using a Deep Neural Network <i>Basel Yacoub</i>	
2:52 pm	(SUN-21-AHA) Deep Learning-Based Automated Segmentation for Biventricular Tissue Phase Mapping <i>Ashitha Pathrose</i>	
2:59 pm	(SUN-22-AHA) Association of clinical outcome following ventricular tachycardia ablation with extent of unablated CMR detected conducting corridors on CMR-EAM merge in electrophysiology navigation platform. <i>Avanti Gulhane</i>	
3:06 pm	(SUN-23-AHA) Low Contrast Volume Pre-TAVR/TMVR Cardiac CT Angiography: An Assessment of Image Quality <i>Brian Jiang</i>	
3:13 pm	(SUN-24) Resolving Cardiac Anatomy – New CT Techniques to Improve Spatial and Temporal Resolution <i>Frederich Knollman</i>	
3:28 pm	(SUN-25-AHA) Radiomics Analysis of T1 and T2 Maps Yields High Diagnostic Accuracy to Detect Histologic Derived Chronic Myocardial Inflammation in Patients with Heart Failure and Reduced Ejection Fraction <i>Tilman Emrich</i>	
3:35 pm	(SUN-26-AHA) Effects of Mitral Valve Prolapse on Quantification of Mitral Regurgitation using Cardiac MR <i>Bamidele Otemuyiwa</i>	
3:42 pm	(SUN-27-AHA) Increased Ascending Aorta Area With Elevated 4D Flow MRI-Derived Wall Shear Stress is Associated With Progression to Aortic Surgery in Bicuspid Aortic Valve Patients <i>Michael Scott</i>	
3:49 pm - 4:20 pm	Q & A	
<b>1A</b>	<b>4:25 pm – 6:10 pm</b>	<b>HEREDITARY CARDIOMYOPATHIES</b> <b><i>MODERATORS: CRISTINA FUSS, JEREMY COLLINS</i></b>
<b>CONCURRENT SESSION</b>	4:25 pm	(SUN-28A) CMR of Left Ventricular Hereditary Cardiomyopathy (CM) <i>Shaimaa Fadl</i>
	4:40 pm	(SUN-29A) Cardiac Imaging in Fabry Disease <i>Kate Hanneman</i>
	4:55 pm	(SUN-30A) The Right Ventricle in Left Noncompaction <i>Abhishek Chaturvedi</i>
	5:10 pm	(SUN-31A) Arrhythmogenic Right Ventricular Cardiomyopathy <i>Jeremy Collins</i>
	5:25 pm	(SUN-32A) Muscular Dystrophy Related Cardiomyopathy <i>Mina Hanna</i>
	5:40 pm - 6:10 pm	Q & A
<b>1B</b>	<b>4:25 pm – 6:10 pm</b>	<b>ARTIFICIAL INTELLIGENCE/NEW TECHNOLOGY (4D FLOW, 3D PRINTING, DUAL ENERGY CT, QUANTITATIVE PERFUSION, ETC.)</b> <b><i>MODERATORS: MATTHEW LAZARUS, CHARLES WHITE</i></b>
<b>CONCURRENT SESSION</b>	4:25 pm	(SUN-33B) Cardiothoracic 3D Printing: Tips and Tricks <i>Jordi Broncano</i>
	4:40 pm	(SUN-34B) Augmented Cardiovascular Diagnosis: AI Powered Cardiac MRI <i>Albert Hsiao</i>
	4:55 pm	(SUN-35B) Preparing Medical Imaging Data for Machine Learning <i>Martin Willeminck</i>
	5:10 pm	(SUN-36B) Dual Energy CT in the Adult Cardiovascular System <i>Charles White</i>
	5:25 pm	(SUN-37B) Practical Applications of 4D Flow in Clinical Practice <i>Prabhakar Rajiah</i>
	5:40 pm	(SUN-38B) Cybersecurity in Clinical Cardiac Imaging <i>Benoit Desjardins</i>
	5:55 pm – 6:10 pm	Q & A



6:15 pm – 7:15 pm	<b>WELLNESS</b> <b><i>MODERATOR: ELSIE NGUYEN</i></b>
6:15 pm	(SUN-39) The Heart of the Cardiac Imager <i>Rachael Edwards</i>
6:25 pm	(SUN-40) Reducing Physician Burnout Workshop <i>Nicole Restauri</i>
7:02 pm	Q & A
7:15 pm – 8:30 pm	NASCI Sips with a Somml! (Separate registration required by September 4th)

## MONDAY, SEPTEMBER 14, 2020 (All times are Eastern Time Zone)

9:30 am – 10:25 am	<b>MEMBERS BREAKFAST / BUSINESS MEETING</b>
10:25 am – 10:30 am	<b>WELCOME/INTRODUCTION</b>
10:30 am – 11:30 am	<b>SCIENTIFIC SESSION II</b> <b><i>MODERATORS: CHRISTOPHER FRANCOIS, NAGINA MALGURIA</i></b>
10:30 am	(MON-01-SSII) Coronary CTA-Derived Fractional Flow Reserve for Prediction of Adverse Cardiac Outcomes in Transcatheter Aortic Valve Replacement Patients <i>Madison Kocher</i>
10:37 am	(MON-02-SSII) Mobile Deployment of a Convolutional Neural Network Which Identifies Pacemakers and Implantable Defibrillators on Chest Radiographs <i>Michael Wells</i>
10:44 am	(MON-03-SSII) Diagnostic Accuracy and Performance of Deep Learning Ensemble for Concurrent Detection of Lung Nodules and Coronary Artery Calcium Scoring on Low-Dose Chest CT for Lung Cancer Screening with Correlation to Risk Predictive Value <i>Jeremy Burt</i>
10:51 am	(MON-04-SSII) Safety of MRI Performed in Center for Medicare and Medicaid (CMS) Insured Patients with Non-Conditional (Legacy) Cardiac Implanted Electronic Devices (CIED) <i>Aysenur Buz</i>
10:58 am	(MON-05-SSII) Patient and Referring Physician Perceptions of the Utility of MRI in Center for Medicare and Medicaid Services (CMS) Insured Patients with Non-Conditional (Legacy) Cardiac Implanted Electronic Devices (CIED) <i>Aysenur Buz</i>
11:05 am	(MON-06-SSII) Are Coronary Artery Calcifications Underreported on CT Chest of Patients with Suspected Lung Cancer? Effect of Structured Reports and Cardiothoracic Radiology Training <i>Zainab Alhajari</i>
11:12 am – 11:30 am	Q & A



2A

11:35 am – 1:15 pm

**PEDIATRIC – CARDIAC IMAGING**

**MODERATOR: KAREN LYONS**

CONCURRENT SESSION

11:35 am

(MON-07A) Evolution of Fetal Echocardiography of Congenital Abnormalities  
*Theodore Dubinsky*

11:50 am

(MON-08A) CMR Derived Metrics Predictive of Liver Fibrosis in Fontan Patients  
*Mark Fogel*

12:05 pm

(MON-09A) Overview and Current State of Pediatric Cardio-Oncology Imaging and Future Directions  
*Vasu Gooty*

12:20 pm

(MON-10A) Cinematic Rendering in Congenital Heart Disease: Tips and Tricks  
*Nagina Malguria*

12:35 pm

(MON-11A) Machine Learning to Automated Ventricular Contouring in Congenital Heart Disease  
*Animesh Tandon*

12:50 pm

(MON-12A) Imaging of Congenital Heart Disease Using 4D Anatomy and Physiology  
*Arash Bedayat*

1:05 pm – 1:15 pm

Q & A

2B

11:35 am – 1:15 pm

**NASCI MEETS ESCR - CARDIAC TUMORS AND IMAGING CARDIO-ONCOLOGY**

**MODERATORS: JUAN LOPEZ MATTEI, DANIEL OCAZONEZ**

CONCURRENT SESSION

11:35 am

(MON-13B) Scientific Update on Imaging in Cardio-Oncology  
*Rozemarijn Vliegenthart (ESCR)*

11:50 am

(MON-14B) Cancer Therapeutics-Related Dysfunction: Use of Mapping and Strain  
*Juan Lopez-Mattei*

12:05 pm

(MON-15B) Immune Therapy Related Cardiotoxicity  
*Matthias Friedrich*

12:20 pm

(MON-16B) Benign Cardiac Tumors  
*Jacobo Kirsch*

12:35 pm

(MON-17B) Imaging of Malignant Cardiac Tumors  
*Luigi Natale (ESCR)*

12:50 pm – 1:15 pm

Q & A

3A

1:20 pm – 2:45 pm

**ADULT CONGENITAL**

**MODERATORS: BEVERLEY NEWMAN, ERIN ROMBERG**

CONCURRENT SESSION

1:20 pm

(MON-19A) Congenital Pulmonary Arteriopathies  
*Beverley Newman*

1:35 pm

(MON-20A) MRI for Familial Aortopathy  
*Dominique DaBreo*

1:50 pm

(MON-21A) Post Repair Transposition of the Great Arteries  
*Juan-Carlos Muniz*

2:05 pm

(MON-22A) Unusual Pulmonary and Systemic Venous Anomalies: A Case Based Presentation  
*Prachi Agarwal*

2:25 pm – 2:45 pm

Q & A

3B

1:20 pm – 2:45 pm

**STR/NASCI CONNECTIVE TISSUE DISEASE AND VASCULITIDES**

**MODERATORS: CAROLE DENNIE, JULIA ALEGRIA**

CONCURRENT SESSION

1:20 pm

(MON-23B) Large Vessel Vasculitis  
*Carlos Restrepo*

1:35 pm

(MON-24B) Medium and Small Vessel Vasculitis: Cardiovascular Manifestations  
*Jose Gutierrez-Chacoff*

1:50 pm

(MON-25B) Connective Tissue Diseases 1  
*Christopher Francois*

2:05 pm

(MON-26B) Connective Tissue Diseases 2  
*Carole Dennie*

2:20 pm – 2:45 pm

Q & A

2:45 pm – 3:45 pm

**Spectral Detector CT for Cardiovascular Applications**

*Charles White, MD, Director of Thoracic Imaging, Department of Radiology, University of Maryland*  
\*Sponsored by Philips

4A

3:45 pm – 5:35 pm

NON-ISCHEMIC CM

**MODERATORS: KATE HANNEMAN, HAROLD LITT**

CONCURRENT SESSION

3:45 pm

(MON-27A) PET/MR Evaluation of Sarcoidosis: Novel Agents  
*Paco Bravo*

4:00 pm

(MON-28A-NICM) Prognostic Value of Global Longitudinal Strain  
in Patients Undergoing Kidney Transplantation  
*Benjamin Swanson*

4:07 pm

(MON-29A-NICM) Impact of Papillary Muscles on Left Ventricular Mass Quantification  
by Cardiac MRI in Fabry Disease  
*Amna Al-Arnawoot*

4:14 pm

(MON-30A-NICM) Deep Learning Inference of Intracardiac Hemodynamics  
*Evan Masutani*

4:21 pm

(MON-31A) Multimodality Imaging of Amyloid  
*Joanne Kusmirek*

4:36 pm

(MON-32A-NICM) Clinical Impact of Cardiac Magnetic Resonance Imaging T1 and T2 Mapping  
*Will Warnica*

4:43 pm

(MON-33A-NICM) Atrial Strain Assessment Indicates Progressive Impairment  
of Left Atrial Function in Fabry's Disease  
*Moritz Halfmann*

4:50 pm

(MON-34A-NICM) Diagnostic Accuracy and Performance of Artificial Intelligence in Measuring Left Atrial  
Volumes and Function on Multiphasic CT in Patients with Atrial Fibrillation  
*Jeffrey Waltz*

4:57 pm

(MON-35A) Cardiac MR evaluation of Athlete's Heart  
*Anil Attili*

5:12 pm – 5:35 pm

Q & A

4B

3:45 pm – 5:35 pm

PEDIATRIC VERTICAL SESSION

**MODERATORS: DIANNA BARDO, DAVID BIKO**

CONCURRENT SESSION

3:45 pm

(MON-36B-PED) Evaluation of Pediatric Pulmonary Vein Stenosis by Cardiac Computed Tomographic  
Angiography: A Comparative Study with 2D Echocardiography and Catheter Angiogram  
*Rida Salman*

3:52 pm

(MON-37B) Kawasaki Disease and Stress Imaging  
*Luana Stanescu*

4:07 pm

(MON-38B) Lake Louise Criteria Update  
*Mark Ferguson*

4:22 pm

(MON-39B) Fractional Flow Reserve- CT and MRI Non-Coronary Artery Imaging  
and Post Processing in Congenital Heart Disease  
*Dianna Bardo*

4:37 pm

(MON-40B) CMR Assessment of Single Ventricle  
*Madhukar Kollengode*

4:52 pm

(MON-41B) Update on Percutaneous PVR  
*Sadaf Bhutta*

5:07 pm

(MON-42B) Intrahepatic Dynamic Contrast MR Lymphangiography  
*David Biko*

5:22 pm – 5:35 pm

Q & A

5A

CONCURRENT SESSION

5:40 pm – 7:00 pm

**HEART DISEASE IN WOMEN**

**MODERATORS: JILL JACOBS, ELSIE NGUYEN**

5:40 pm

(MON-43A) Disparities in Healthcare for Women with Cardiovascular Disease Affect Outcomes  
*Elsie Nguyen*

5:55 pm

(MON-44A) Advantages of CMR for Imaging Heart Disease in Women  
*Karen Ordovas*

6:10 pm

(MON-45A) CMR for MINOCA in Women  
*Chiara Bucciarelli-Ducci*

6:25 pm

(MON-46A) Cardiovascular Imaging Considerations in Pregnancy  
*Diana Litmanovich*

6:40 pm – 7:00 pm

Q & A

5B

CONCURRENT SESSION

5:40 pm – 7:00 pm

**PEDIATRIC – CORONARY ARTERY IMAGING**

**MODERATORS: SEAN LANG, PRAKASH MASAND**

5:40 pm

(MON-47A) Anomalous Aortic Origin of a Coronary Artery: A Surgical Perspective  
*Sergio Carrillo*

5:55 pm

(MON-48B) Clinical Perspective of Developing an Anomalous Aortic Origin of a Coronary Artery (AAOCA) Program  
*Simon Lee*

6:10 pm

(MON-49B) Coronary CT from Infants to Adolescents  
*LaDonna Malone*

6:25 pm

(MON-50B) Virtual Endoluminal Views in the Imaging of Congenital Coronary Artery Anomalies- An Important Tool for Surgical Planning  
*Vijetha Maller*

6:40 pm

(MON-51B) Is It Intramural?  
*Prakash Masand*

6:55 pm – 7:00 pm

Q & A

7:05 pm – 7:55 pm

**CRAZIEST CASES**

**MODERATOR: JACOBO KIRSCH**

**JUDGES: ELSIE NGUYEN, KAREN ORDOVAS, DANIEL VARGAS**

7:05 pm

(MON-52) Case 1 – *Juan Carlos Batlle*

7:15 pm

(MON-53) Case 2 – *Cristina Fuss*

7:25 pm

(MON-54) Case 3 – *Aloha Meave*

7:35 pm

(MON-55) Case 4 – *Carlos Rojas*

7:45 pm – 7:55 pm

Vote

7:55 pm – 8:10 pm

**CLOSING REMARKS – INTRODUCTION TO NASCI 2021 - CELEBRATING 50TH ANNIVERSARY**

**DIANA LITMANOVICH**

