RUBY-FILL® (Rubidium Rb 82 Generator) and RUBY Rubidium Elution System

Elution Evolution

Advancing cardiac PET imaging to be:

- **Precise**: Constant-activity infusion option
  - Maintains consistent activity rate profiles throughout the life cycle of the generator

- **Flexible**: Accurate patient-specific dosing
  - Long shelf life—60 days

- **Efficient**: Automated daily quality control
  - Built-in safety controls

Leap forward with RUBY-FILL®

Indication and Important Safety Information

RUBY-FILL® Rubidium Rb 82 Generator is a closed system used to produce rubidium Rb 82 chloride injection for intravenous use. Rubidium Rb 82 chloride injection is a radioactive diagnostic agent indicated for Positron Emission Tomography (PET) imaging of the myocardium under rest or pharmacologic stress conditions to evaluate regional myocardial perfusion in adult patients with suspected or existing coronary artery disease.

**WARNING:** UNINTENDED STRONTIUM-82 (Sr-82) AND STRONTIUM-85 (Sr-85) RADIATION EXPOSURE

Please see full prescribing information for complete boxed warning

- Unintended radiation exposure occurs when the levels of Sr-82 or Sr-85 in the rubidium Rb 82 chloride injection exceed specific limits.
- Perform generator eluate tests:
  1. Determine Rb-82, Sr-82, Sr-85 levels in the eluate:
     - Once daily, prior to any drug administration, and
     - With additional daily tests after detection of an Alert Limit.
  2. Stop use of the generator at its Expiration Limit.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/safety/medwatch, or call 1-800-FDA-1088.

References:

RUBY-FILL® is a registered trademark used under license by Jubilant DraxImage, Inc.
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President’s Welcome

As ASNC President, it is my pleasure to welcome you to Kansas City for ASNC2017. Nuclear cardiology continues to play a critical and cost-effective role in the diagnosis of heart disease and risk stratification in our patients. ASNC2017 showcases what nuclear cardiology has to offer in providing the best care for our patients.

This year’s program will allow physicians and technologists to refine their diagnostic and technical acumen and to focus on patient-centered imaging – choosing the right test for the right patient and affording the lowest radiation dose possible. Sessions on multimodality imaging will provide an important perspective for attendees, particularly in providing essential diagnostic information in an environment of health care cost containment. State-of-the-art innovations in cardiac PET and SPECT imaging, including perfusion imaging, quantification of myocardial blood flow reserve, and the diagnosis of inflammatory and infiltrative cardiomyopathies, will be highlighted in the meeting. Be sure to attend our first-ever disease-based, rapid-fire abstract session focused on cardiac amyloid during the opening reception.

We are delighted to have world-renowned experts in cardiology in sessions covering a variety of disease-specific imaging topics. In a unique session on heart failure, long-time ASNC member Dr. Rory Hachamovitch will share his perspective as a patient rather than a physician. In addition, we are pleased to have ASNC past president, Dr. Leslee Shaw, deliver the 2017 Verani Lecture “Evolving, Innovating and Revolutionary Changes in Cardiovascular Imaging – We Have Only Begun!”. Our industry partners will exhibit the latest advancements in imaging hardware and software, radiopharmaceuticals, pharmacologic stress agents, and many other products essential to providing high quality patient care. I encourage you to visit the Exhibit Hall to meet with our industry partners and learn more about these exciting advancements.

ASNC’s continued growth and success depends on the support of our members, guests, and industry partners. I thank you not only for your attendance, but also for your continued support of ASNC and nuclear cardiology. Enjoy the meeting, have a great time in Kansas City, and don’t forget to sample some KC barbecue!

Raymond Russell, MD, PhD, FASNC
ASNC2017 President

Chair’s Welcome

On behalf of the American Society of Nuclear Cardiology, I would like to welcome you to ASNC2017, the 22nd Annual Scientific Session of ASNC. We are very excited to be visiting Kansas City, the HEART of America. This year’s meeting will highlight disease specific sessions (sarcoidosis and amyloidosis), hands on reading with the experts, case-based sessions, new rapid fire ePoster presentations and lots of opportunities for networking and mentorship.

The educational program will consist of several exciting plenary sessions. Dr. Leslee Shaw will deliver the Mario Verani Memorial Lecture at the opening plenary. Dr. Shaw will be speaking on Evolving, Innovating and Revolutionary Changes in Cardiovascular Imaging – We Have Only Begun. Our second plenary will focus on heart failure and will open with the patient perspective (Dr. Rory Hachamovitch): experiencing a heart transplant.

In addition to the diverse plenary sessions there will be several multimodality imaging sessions, practical sessions on how to establish a PET program, PYP imaging, international sessions, and, as always, the engaging Controversies in Cardiology session which will be held in an exciting new format.

NEW for 2017 – be sure to find time to drop in to the Comprehensive Boot Camp for Heart Service Line Administrators, Laboratory Managers, and Nuclear Cardiologists on Thursday afternoon.

So whether this is your first time at an ASNC annual meeting or you are a regular attendee, we have designed an interactive and exciting program that we hope you will enjoy.

I would like to thank the members of the ASNC2017 Program Committee and specifically Vice Chair, Sharmila Dorbala, MD, FASNC for their time and commitment in preparing this program. I would also like to thank all of the individuals who agreed to participate as part of the faculty for ASNC2017.

Donna M. Polk, MD, MPH, FASNC
ASNC2017 Program Chair
American Society of Nuclear Cardiology would like to thank the International Atomic Energy Agency for their generous support of the ASNC2017 Live Streaming sessions to physicians in developing countries.

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Program Design

- A scientific forum featuring panel discussions on focused areas of cutting-edge research
- State-of-the-art reviews of the key aspects of nuclear cardiology by the world’s experts
- A basic core curriculum addressing practical issues in the performance of nuclear cardiology procedures to include opportunities for maintenance of certification credit
- Scientific sessions on advances in nuclear cardiology
- Ethics session will offer case-based scenarios dealing with ethical issues
- Educational track dealing with the pathophysiology of multimodality imaging
- Presentations addressing technical issues in nuclear cardiology
- Oral abstracts featuring the latest clinical studies in cardiovascular imaging as well as young investigator presentations
- Abstracts of original investigation programmed as poster presentations
- Commercial exhibits displaying the latest in nuclear cardiology technology and services
- Cost-related information in the practice and business of nuclear cardiology focused on developing a PET program
- Innovations in Technology session to cover expanding horizons for cardiac imaging
- Opportunities to convene and interact with experts in all aspects of nuclear cardiology and cardiovascular imaging

Disclosure

ASNC is pledged to ensure balance, independence, objectivity, and scientific rigor in all its supported educational activities through disclosure of relationships with commercial companies and resolution of conflict of interest. All planners, reviewers and presenters involved with this activity are expected to disclose financial interests with the manufacturer(s) of any commercial product(s) and/or providers of commercial services discussed in an educational presentation. A complete list of disclosures will be distributed to all attendees on site.

Accreditation and Continuing Education Credit

PHYSICIANS: The American Society of Nuclear Cardiology is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Society of Nuclear Cardiology designates this live activity for a maximum of 31.75* AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

TECHNOLOGISTS: The American Society of Nuclear Cardiology is a recognized provider of continuing education credit for technologists. ASNC’s Continuing Education (ACE) credit is accepted by both NMTCB and ARRT. ASNC2017 has been approved for a maximum of 20.75* ARRT Category A Credits.

PHYSICIAN ASSISTANTS: The American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credits™ from organizations accredited by ACCME.

NURSE PRACTITIONERS: The American Academy of Nurse Practitioners Certification Board (AANPCP) recognizes attendance at CE offerings which provide AMA PRA Category 1 Credits™ for the purpose of recertification.

*Subject to Change

Target Audience

This course is intended for cardiologists, radiologists, nuclear medicine specialists, practice administrators, nuclear technologists, nurses and other health care professionals with an interest in the field of nuclear cardiology and cardiac CT imaging.

Statement of Need

In order to maintain competence and improve performance, imaging professionals must assimilate and integrate knowledge spanning multiple areas, including clinical data, technical aspects of imaging, and appropriate application of imaging (e.g., clinical guidelines and appropriate use criteria). Each of these areas is constantly evolving, particularly as innovative technologies and novel pharmacologic agents are introduced. ASNC2017 is an educational activity designed to help you and other imaging professionals obtain the latest information in clinical practice and review cutting-edge scientific advances in nuclear cardiology and cardiac imaging.
Overall Purpose

The overall goal of the meeting is to improve learner knowledge, competence and skills in applications about appropriate use criteria, radiation safety, reporting, and lab performance in using appropriate guidelines-based treatment.

General Learning Objectives

DEMONSTRATE improved skills in image interpretation and reporting
LEARN how to recognize and minimize technical problems and artifacts that may be associated with cardiac imaging
LEARN the appropriate use of cardiac imaging techniques based on current guidelines
EVALUATE new imaging technologies, software, and stress techniques
UNDERSTAND the role of nuclear and cardiac CT imaging in overall patient care
LEARN the importance of balancing radiation exposure with image quality
DESCRIBE future directions in cardiac PET, CT, and SPECT/CT in order to anticipate training and equipment needs
UNDERSTAND the clinical implication of multimodality cases and recognize the value and limitations in clinical cardiology

Program Tracks

The program will include the following tracks to allow attendees to customize their educational experience:

**PLENARY (PL)**
Sessions will include keynote presentations from leaders in the field covering areas such as emerging research, new technology, and advances in treatment.

**ABSTRACTS/RESEARCH (AR)**
To include poster, ePosters, Rapid Fire ePosters and oral abstract presentation including young investigator oral presentations.

**ADVANCED (ADV)**
This track includes sessions covering advances in the field of nuclear cardiology and potential clinical applications for these innovations.

**CASES WITH THE ACES: INTERACTIVE READING (CA)**
Small group sessions on how to read a scan with senior faculty using vendor software to demonstrate cases

**CORE (C)**
These didactic presentations review topics essential to the effective diagnosis and treatment of heart disease patients using imaging modalities.

**INTERNATIONAL (I)**
These sessions offer an opportunity to learn about multimodality imaging from the international community and how that view may differ from the US-based approach.

**LIFELONG LEARNING (LL)**
Participate in a dedicated study session offering the opportunity to weigh in through audience response and discussion with facilitators and fellow participants to identify the most appropriate answers to ABIM approved questions. In addition, many didactic sessions offer MOC. These are designated in the schedule program schedule.

**MULTIMODALITY IMAGING (MI)**
Sessions include important applications of nuclear cardiology along with other imaging modalities in current practice to deliver optimal care to patients.

**OTHER (O)**
These sessions are general in nature with broad-based interest. They include a boot camp focusing on positioning your lab for the future, an ethics session, choosing wisely challenge and ImageGuide registry update.

**PET (P)**
These sessions will offer a broad-based review of the clinical value of pharmacologic PET, radiation exposure, modeling cost effectiveness and other areas

**POLICY AND PRACTICE (PP)**
Managing a cardiology practice has never been more challenging. In each presentation you will find programming that gets to the heart of today’s challenges while preparing you for the cardiology practice of tomorrow.

**READ WITH THE EXPERTS (RE)**
Learn with the best practitioners in the field by walking through cases along with panelists and expert faculty. Audience response opportunities available.

**TECHNOLOGY AND TECHNIQUES (T)**
Sessions are instructive with regard to nuclear cardiology procedures. Information is intended to provide practical information for providing quality imaging services. These sessions are geared for the nuclear cardiology technologist.
<table>
<thead>
<tr>
<th>DAY</th>
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<th>SESSION TITLE</th>
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<th>END</th>
<th>ROOM</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>ADVANCED</td>
<td>Imaging to Guide Arrhythmia Management</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>New York</td>
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<tr>
<td></td>
<td></td>
<td>Cutting Edge Technologies</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>New York</td>
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<tr>
<td></td>
<td>Sat</td>
<td>Debate: Clash of the Titans</td>
<td>1:30PM</td>
<td>3:00PM</td>
<td>Exhibit Hall B</td>
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<tr>
<td></td>
<td>Sun</td>
<td>Approach to Known or Potential Ischemic Heart Disease</td>
<td>9:45AM</td>
<td>10:45AM</td>
<td>Atlanta</td>
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<tr>
<td>CA</td>
<td>CASES WITH THE ACES</td>
<td>10:00AM</td>
<td>11:30AM</td>
<td>Empire B</td>
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<tr>
<td></td>
<td>Fri</td>
<td>Cases from the Cleveland Clinic</td>
<td>12:00PM</td>
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<td>Empire B</td>
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<td></td>
<td>Fri</td>
<td>Cases from St. Luke’s Roosevelt/Mt. Sinai</td>
<td>3:00PM</td>
<td>4:30PM</td>
<td>Empire B</td>
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<tr>
<td></td>
<td>Sat</td>
<td>Cases from MMP MaineHealth Cardiology</td>
<td>10:00AM</td>
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<td></td>
<td>Sat</td>
<td>Cases from Brigham &amp; Women’s Hospital</td>
<td>12:00PM</td>
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<td></td>
<td>Sat</td>
<td>Cases from Brown University</td>
<td>3:00PM</td>
<td>4:30PM</td>
<td>Empire B</td>
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<tr>
<td>C</td>
<td>CORE</td>
<td>How to Incorporate Test Findings Beyond Perfusion</td>
<td>1:00PM</td>
<td>2:30PM</td>
<td>Chicago</td>
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<tr>
<td></td>
<td>Thu</td>
<td>Nuclear Cardiology Lab in 2017</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Exhibit Hall B</td>
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<tr>
<td></td>
<td>Fri</td>
<td>Cardiac Amyloidosis in 2017</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Exhibit Hall B</td>
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<tr>
<td></td>
<td>Sat</td>
<td>Patient Centered Myocardial Perfusion Imaging</td>
<td>1:30PM</td>
<td>3:00PM</td>
<td>New York</td>
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<tr>
<td></td>
<td>Sun</td>
<td>How Does Radionuclide Imaging Guide Clinical Decision Making?</td>
<td>11:00AM</td>
<td>12:00PM</td>
<td>Atlanta</td>
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<tr>
<td>I</td>
<td>INTERNATIONAL</td>
<td>IAEA Global Initiatives - Part 1</td>
<td>4:00PM</td>
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<td>Atlanta</td>
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<td></td>
<td>Fri</td>
<td>Nuclear Cardiology Lab in 2017</td>
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<td>Cardiac Amyloidosis in 2017</td>
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<td>Sat</td>
<td>Patient Centered Myocardial Perfusion Imaging</td>
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<td></td>
<td>Sun</td>
<td>How Does Radionuclide Imaging Guide Clinical Decision Making?</td>
<td>11:00AM</td>
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<td>Atlanta</td>
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<tr>
<td>LL</td>
<td>LIFELONG LEARNING</td>
<td>ASNC MOC Module 2</td>
<td>7:00PM</td>
<td>9:30PM</td>
<td>New York/Atlanta</td>
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<tr>
<td>MI</td>
<td>MULTIMODALITY IMAGING</td>
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<td></td>
<td>Thu</td>
<td>CT, PET/CT and PET/MR Imaging to Assess Heart Disease</td>
<td>10:30AM</td>
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<td></td>
<td>Fri</td>
<td>Methods and Value of Cardiotoxicity Assessment in Oncologic Disease</td>
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<td>New York</td>
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<tr>
<td></td>
<td>Sun</td>
<td>Multimodality Assessment of Complex Cardiovascular Disease</td>
<td>11:00AM</td>
<td>12:00PM</td>
<td>Chicago AB</td>
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<tr>
<td>O</td>
<td>OTHER</td>
<td>Positioning your Nuclear Cardiology Laboratory for Long-term Success - Part 1</td>
<td>1:00PM</td>
<td>2:30PM</td>
<td>Empire BC</td>
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<tr>
<td></td>
<td>Thu</td>
<td>Positioning your Nuclear Cardiology Laboratory for Long-term Success - Part 2</td>
<td>2:45PM</td>
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<tr>
<td></td>
<td>Fri</td>
<td>Ethics in Nuclear Cardiology: A Focus on Informed Consent</td>
<td>12:15PM</td>
<td>1:15PM</td>
<td>New York</td>
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<td></td>
<td>Sat</td>
<td>ImageGuide Registry Informational Session</td>
<td>6:30AM</td>
<td>7:45AM</td>
<td>Chicago C</td>
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<tr>
<td></td>
<td>Sat</td>
<td>Choosing Wisely Challenge</td>
<td>3:15PM</td>
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<td>Fri</td>
<td>222</td>
<td>How to Establish a Cardiac PET Program</td>
<td>4:00PM</td>
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<tr>
<td>Sat</td>
<td>306</td>
<td>Imaging in Sarcoidosis (Update on Guidelines)</td>
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<td>Sat</td>
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<td>How to Incorporate PET Myocardial Blood Flow Quantification into Practice</td>
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<td>New Directions in Cardiovascular PET</td>
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<td>Opening Plenary and Verani Lecture</td>
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<td>Multimodality Imaging in the Diagnosis and Management of Heart Failure</td>
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<td>301</td>
<td>The Emerging Clinical Challenge of Symptomatic Non-obstructive Coronary Artery Disease</td>
<td>7:55AM</td>
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<td>Exhibit Hall B</td>
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<tr>
<td>Sun</td>
<td>401</td>
<td>Controversies in Clinical Cardiology and Cardiac Imaging</td>
<td>8:00AM</td>
<td>9:30AM</td>
<td>Atlanta</td>
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**PLENARY**

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<tr>
<td>Thu</td>
<td>105</td>
<td>The Changing Face of Medicare: Considerations in Practice and Payment</td>
<td>4:30PM</td>
<td>6:00PM</td>
<td>Chicago</td>
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**POLICY AND PRACTICE**

**ABSTRACTS/RESEARCH**

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<td>Thu</td>
<td>106</td>
<td>Rapid Fire ePosters: Disease-based - Amyloidosis</td>
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<td>Exhibit Hall A</td>
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<tr>
<td>Fri</td>
<td>202a</td>
<td>ePosters: New Developments in Quality and Appropriate Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
<td>Exhibit Hall A</td>
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<tr>
<td>Fri</td>
<td>202b</td>
<td>Posters: Advances in PET Imaging</td>
<td>9:30AM</td>
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<td>Exhibit Hall A</td>
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<tr>
<td>Fri</td>
<td>218a</td>
<td>ePosters: Advances in PET Imaging</td>
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<tr>
<td>Fri</td>
<td>218b</td>
<td>Posters: New Techniques in Myocardial Perfusion Imaging</td>
<td>3:00PM</td>
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<td>Exhibit Hall A</td>
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<tr>
<td>Sat</td>
<td>302a</td>
<td>ePosters: New Techniques in Myocardial Perfusion Imaging</td>
<td>9:30AM</td>
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<tr>
<td>Sat</td>
<td>302b</td>
<td>Posters: New Developments in Quality and Appropriate Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
<td>Exhibit Hall A</td>
</tr>
<tr>
<td>Sat</td>
<td>327</td>
<td>Featured Research Oral Abstracts</td>
<td>4:30PM</td>
<td>5:30PM</td>
<td>New York</td>
</tr>
<tr>
<td>Sat</td>
<td>330</td>
<td>Young Investigator Competition</td>
<td>5:45PM</td>
<td>6:45PM</td>
<td>Chicago C</td>
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**READ WITH THE EXPERTS**

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<tr>
<td>Fri</td>
<td>208</td>
<td>99mTc-PYP Amyloid Imaging; PET for Inflammation/Infection</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago AB</td>
</tr>
<tr>
<td>Fri</td>
<td>223</td>
<td>Appropriate Use of Nuclear Stress Imaging</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago AB</td>
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<tr>
<td>Sat</td>
<td>307</td>
<td>Imaging for the Detection or Risk Assessment of Stable CAD: Get with the Guidelines</td>
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<td>Chicago AB</td>
</tr>
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<td>Sat</td>
<td>318</td>
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<td>1:30PM</td>
<td>3:00PM</td>
<td>Chicago AB</td>
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<tr>
<td>Sat</td>
<td>326</td>
<td>New Technology in SPECT (Attenuation Correction, CZT)</td>
<td>4:00PM</td>
<td>5:30PM</td>
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<tr>
<td>Sun</td>
<td>403</td>
<td>PET Perfusion/Myocardial Blood Flow</td>
<td>9:45AM</td>
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**TECHNOLOGY & TECHNIQUES**

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<tr>
<td>Fri</td>
<td>209</td>
<td>Not Just Pushing Buttons</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago C</td>
</tr>
<tr>
<td>Fri</td>
<td>216</td>
<td>Patients are Different - So are Protocols</td>
<td>1:30PM</td>
<td>3:00PM</td>
<td>Chicago C</td>
</tr>
<tr>
<td>Fri</td>
<td>224</td>
<td>RWTE for Technologists</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago C</td>
</tr>
<tr>
<td>Sat</td>
<td>308</td>
<td>Cardiac PET: Focus on Myocardial Perfusion Imaging</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago C</td>
</tr>
<tr>
<td>Sat</td>
<td>319</td>
<td>Nuclear Cardiology Beyond Plain Myocardial Perfusion Imaging</td>
<td>1:30PM</td>
<td>3:00PM</td>
<td>Chicago C</td>
</tr>
<tr>
<td>Sat</td>
<td>328</td>
<td>Multimodality Imaging</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago C</td>
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**Thursday, September 14, 2017**

<table>
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<tr>
<td>C</td>
<td>101</td>
<td>How to Incorporate Test Findings Beyond Perfusion</td>
<td>1:00PM</td>
<td>2:30PM</td>
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<tr>
<td>O</td>
<td>102</td>
<td>Positioning your Nuclear Cardiology Laboratory for Long-term Success - Part 1</td>
<td>1:00PM</td>
<td>2:30PM</td>
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<tr>
<td>MI</td>
<td>103</td>
<td>CT, PET/CT and PET/MR Imaging to Assess Heart Disease</td>
<td>2:45PM</td>
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<tr>
<td>O</td>
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<td>Positioning your Nuclear Cardiology Laboratory for Long-term Success - Part 2</td>
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<td>PP</td>
<td>105</td>
<td>The Changing Face of Medicare: Considerations in Practice and Payment</td>
<td>4:30PM</td>
<td>6:00PM</td>
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<tr>
<td>AR</td>
<td>106</td>
<td>Rapid Fire ePosters: Disease-based - Amyloidosis</td>
<td>6:15PM</td>
<td>7:15PM</td>
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<tr>
<td>LL</td>
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<td>ASNC MOC Module 2</td>
<td>7:00PM</td>
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**Friday, September 15, 2017**

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<tr>
<td>PL</td>
<td>201</td>
<td>Opening Plenary and Verani Lecture</td>
<td>7:45AM</td>
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<tr>
<td>AR</td>
<td>202a</td>
<td>ePosters: New Developments in Quality and Appropriate Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
<td>Exhibit Hall A</td>
</tr>
<tr>
<td>AR</td>
<td>202b</td>
<td>Posters: Advances in PET Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
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<tr>
<td>CA</td>
<td>203</td>
<td>Cases from the Cleveland Clinic</td>
<td>10:00AM</td>
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<tr>
<td>A</td>
<td>205</td>
<td>Imaging to Guide Arrhythmia Management</td>
<td>10:30AM</td>
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<td>C</td>
<td>206</td>
<td>Nuclear Cardiology Lab in 2017</td>
<td>10:30AM</td>
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<tr>
<td>MI</td>
<td>207</td>
<td>Methods and Value of Cardiotoxicity Assessment in Oncologic Disease</td>
<td>10:30AM</td>
<td>12:00PM</td>
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<td>99mTc-PYP Amyloid Imaging; PET for Inflammation/Infection</td>
<td>10:30AM</td>
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<td>Chicago AB</td>
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<tr>
<td>T</td>
<td>209</td>
<td>Not Just Pushing Buttons</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago C</td>
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<tr>
<td>CA</td>
<td>210</td>
<td>Cases from St. Luke’s Roosevelt/Mt. Sinai</td>
<td>12:00PM</td>
<td>1:30PM</td>
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<td>211</td>
<td>Ethics in Nuclear Cardiology: A Focus on Informed Consent</td>
<td>12:15PM</td>
<td>1:15PM</td>
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<td>215</td>
<td>Multimodality Imaging in the Diagnosis and Management of Heart Failure</td>
<td>1:30PM</td>
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<td>Exhibit Hall B</td>
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<td>T</td>
<td>216</td>
<td>Patients are Different - So are Protocols</td>
<td>1:30PM</td>
<td>3:00PM</td>
<td>Chicago C</td>
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<tr>
<td>CA</td>
<td>217</td>
<td>Cases from MMP MaineHealth Cardiology</td>
<td>3:00PM</td>
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<tr>
<td>AR</td>
<td>218a</td>
<td>ePosters: Advances in PET Imaging</td>
<td>3:00PM</td>
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<tr>
<td>AR</td>
<td>218b</td>
<td>Posters: New Techniques in Myocardial Perfusion Imaging</td>
<td>3:00PM</td>
<td>4:00PM</td>
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<tr>
<td>MI</td>
<td>221</td>
<td>Evaluation of Suspected Coronary Artery Disease in Women: A Comparison of the Different Imaging Modalities</td>
<td>4:00PM</td>
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<tr>
<td>P</td>
<td>222</td>
<td>How to Establish a Cardiac PET Program</td>
<td>4:00PM</td>
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<tr>
<td>RE</td>
<td>223</td>
<td>Appropriate Use of Nuclear Stress Imaging</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago AB</td>
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<td>T</td>
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<td>RWTE for Technologists</td>
<td>4:00PM</td>
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<td>IAEA Global Initiatives - Part 1</td>
<td>4:00PM</td>
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<td>I</td>
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<td>IAEA Global Initiatives - Part 2</td>
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**Saturday, September 17, 2017**

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<tr>
<td>O</td>
<td>300</td>
<td>ImageGuide Registry Informational Session</td>
<td>6:30AM</td>
<td>7:45AM</td>
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<td>PL</td>
<td>301</td>
<td>The Emerging Clinical Challenge of Symptomatic Non-obstructive Coronary Artery Disease</td>
<td>7:55AM</td>
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<tr>
<td>AR</td>
<td>302a</td>
<td>ePosters: New Techniques in Myocardial Perfusion Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
<td>Exhibit Hall A</td>
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<tr>
<td>AR</td>
<td>302b</td>
<td>Posters: New Developments in Quality and Appropriate Imaging</td>
<td>9:30AM</td>
<td>10:30AM</td>
<td>Exhibit Hall A</td>
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<tr>
<td>CA</td>
<td>303</td>
<td>Cases from Brigham &amp; Women’s Hospital</td>
<td>10:00AM</td>
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<td>A</td>
<td>304</td>
<td>Cutting Edge Technologies</td>
<td>10:30AM</td>
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<td>Cardiac Amyloidosis in 2017</td>
<td>10:30AM</td>
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<td>P</td>
<td>306</td>
<td>Imaging in Sarcoidosis (Update on Guidelines)</td>
<td>10:30AM</td>
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<td>Imaging for the Detection or Risk Assessment of Stable CAD: Get with the Guidelines</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago AB</td>
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<tr>
<td>T</td>
<td>308</td>
<td>Cardiac PET: Focus on Myocardial Perfusion Imaging</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>Chicago C</td>
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<tr>
<td>CA</td>
<td>310</td>
<td>Cases from Brown University</td>
<td>12:00PM</td>
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<td>Debate: Clash of the Titans</td>
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<td>316</td>
<td>Patient Centered Myocardial Perfusion Imaging</td>
<td>1:30PM</td>
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<tr>
<td>P</td>
<td>317</td>
<td>How to Incorporate PET Myocardial Blood Flow Quantification into Practice</td>
<td>1:30PM</td>
<td>3:00PM</td>
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<tr>
<td>RE</td>
<td>318</td>
<td>Viability Assessment (SPECT and PET)</td>
<td>1:30PM</td>
<td>3:00PM</td>
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<td>T</td>
<td>319</td>
<td>Nuclear Cardiology Beyond Plain Myocardial Perfusion Imaging</td>
<td>1:30PM</td>
<td>3:00PM</td>
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<tr>
<td>CA</td>
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<td>Cases from Mayo Clinic</td>
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<td>322</td>
<td>Choosing Wisely Challenge</td>
<td>3:15PM</td>
<td>4:15PM</td>
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<tr>
<td>P</td>
<td>325</td>
<td>New Directions in Cardiovascular PET</td>
<td>4:00PM</td>
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<td>RE</td>
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<td>New Technology in SPECT (Attenuation Correction, CZT)</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago AB</td>
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<tr>
<td>AR</td>
<td>327</td>
<td>Featured Research Oral Abstracts</td>
<td>4:30PM</td>
<td>5:30PM</td>
<td>New York</td>
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<tr>
<td>T</td>
<td>328</td>
<td>Multimodality Imaging</td>
<td>4:00PM</td>
<td>5:30PM</td>
<td>Chicago C</td>
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<tr>
<td>AR</td>
<td>330</td>
<td>Young Investigator Competition</td>
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**Sunday, September 17, 2017**

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<tr>
<td>PL</td>
<td>401</td>
<td>Controversies in Clinical Cardiology and Cardiac Imaging</td>
<td>8:00AM</td>
<td>9:30AM</td>
<td>Atlanta</td>
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<tr>
<td>A</td>
<td>402</td>
<td>Approach to Known or Potential Ischemic Heart Disease</td>
<td>9:45AM</td>
<td>10:45AM</td>
<td>Atlanta</td>
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<tr>
<td>RE</td>
<td>403</td>
<td>PET Perfusion/Myocardial Blood Flow</td>
<td>9:45AM</td>
<td>10:45AM</td>
<td>Chicago AB</td>
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<tr>
<td>C</td>
<td>404</td>
<td>How Does Radionuclide Imaging Guide Clinical Decision Making?</td>
<td>11:00AM</td>
<td>12:00PM</td>
<td>Atlanta</td>
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<tr>
<td>MI</td>
<td>405</td>
<td>Multimodality Assessment of Complex Cardiovascular Disease</td>
<td>11:00AM</td>
<td>12:00PM</td>
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ASNC Organized Ancillary Sessions

SATURDAY, SEPTEMBER 16

Saturday, 6:30AM – 7:45AM | Chicago C

**ImageGuide Registry Informational Session & Discussion**

Join us for an informational session on the latest updates for the ImageGuide Registry and how it can be used to improve quality, demonstrate value, and fulfill requirements under The Merit-based Incentive Payment System (MIPS).

**FACULTY:**
- Peter Tilkemeier, MD, FASNC
- Georgia Lawrence
- Joe Reyes
- Emmett Chapital, MD, MBBS, FASNC

Saturday, 3:15PM – 4:15PM | New York

**Vote for the Winner of the Nuclear Cardiology Choosing Wisely® Challenge**

Come listen to live presentations of the three finalists from ASNC’s Choosing Wisely® Challenge. Audience voting will combine with a judging panel to select the top prize winner!

- **Minimizing Radiation Exposure from Myocardial Perfusion Imaging**
  - Debra Mahlum, CNMT; Maureen Van der Kooy, CNMT; Steven Port, MD

- **A Simplified Approach to Stress-first Nuclear Myocardial Perfusion Imaging: Implementation of ASNC Choosing Wisely Recommendations**
  - Randy Jeffrey MD, David E. Winchester MD, FASNC, David C. Wymer MD, Vicente Taasan MD

- **Advanced Protocol Planning in Nuclear Cardiology to Enhance Care Delivery**
  - Sarah Cuddy, MB, BCh, BAO, Yin Ge, MD, Ron Blankstein, MD, FASNC, Marcelo DiCarli, MD, Sharmila Dorbala, MD, MPH, FASNC

**FACULTY:**
- Raymond R. Russell, III, MD, PhD, FASNC

**JUDGES:**
- Renee Bullock-Palmer, MD, FASNC
- Maria G. Sciammarella, MD

*This activity is supported by Bracco Diagnostics Inc.*
NC TODAY 2018

BEST PRACTICES FOR TODAY, INNOVATIONS FOR TOMORROW

APRIL 20 – 22, 2018 | LOEWS CHICAGO O’HARE HOTEL

Course Directors:
Dennis A. Calnon, MD, MASNC
David G. Wolinsky, MD, MASNC

This two-and-a-half day interactive course for physicians, technologists and other healthcare professionals provides the latest updates in nuclear cardiology imaging. As an attendee, you will increase your knowledge and competency in solving clinical, technical and practical issues facing nuclear cardiology imaging professionals.

Among 2017 survey respondents who attended the 2½-day program held in Chicago last spring —

94% rated the Nuclear Cardiology Today content as USEFUL.
"Very applicable material to every day practice."
91% rated Nuclear Cardiology Today: EXCELLENT or VERY GOOD.

Save the Date! April 20-22, 2018

www.asnc.org/nctoday
## 2017 Program Schedule

### Thursday, September 14

### 1:00PM – 2:30PM

#### **CORE**

**Session 101** How to Incorporate Test Findings Beyond Perfusion

<table>
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<tr>
<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:00PM</td>
<td>Significant ST Segment Changes</td>
<td>Christopher L. Hansen, MD, FASNC</td>
</tr>
<tr>
<td>1:20PM</td>
<td>Arrhythmias, Heart Rate Recovery and Abnormal Hemodynamic Responses</td>
<td>John Wells Askew, MD, FASNC</td>
</tr>
<tr>
<td>1:40PM</td>
<td>High Risk MPI Markers</td>
<td>R. Parker Ward, MD, FASNC</td>
</tr>
<tr>
<td>2:00PM</td>
<td>Coronary Artery Calcium and Coronary Flow Reserve</td>
<td>L. Samuel Wann, MD</td>
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<tr>
<td>2:20PM</td>
<td>Discussion</td>
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#### **OTHER**

**Session 102** Positioning your Nuclear Cardiology Laboratory for Long-term Success: A Comprehensive Boot Camp - Part 1

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<tr>
<td>1:00PM</td>
<td>Physician Supervision Requirements for Stress Testing in 2017</td>
<td>Lisa A. Oakes, RN</td>
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<tr>
<td>1:20PM</td>
<td>What is the Ideal Staffing of a Nuclear Cardiology Laboratory?</td>
<td>Lisa A. Oakes, RN</td>
</tr>
<tr>
<td>1:40PM</td>
<td>Do Nuclear Technologists Need Additional Training and Qualification to Perform PET, SPECT/CT, or PET/CT Imaging?</td>
<td>Robert A. Pagnanelli, CNMT, RT(N)(R), NCT, FASNC</td>
</tr>
<tr>
<td>2:00PM</td>
<td>Discussion</td>
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### 2:45PM – 4:00PM

#### **MULTIMODALITY IMAGING**

**Session 103** CT, PET/CT and PET/MR Imaging to Assess Heart Disease

<table>
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<th>Time</th>
<th>Title</th>
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<tr>
<td>2:45PM</td>
<td>Ancient to Current: CT in the Evaluation of Atherosclerosis in Populations</td>
<td>Gregory S. Thomas, MD, MPH, MASNC</td>
</tr>
<tr>
<td>3:00PM</td>
<td>PET/CT: Current Role and Opportunities for Advancement</td>
<td>Mouaz H. Al-Mallah, MD, FASNC</td>
</tr>
<tr>
<td>3:15PM</td>
<td>PET/CT: Current Role and Opportunities for Advancement</td>
<td>Andrew E. Arai, MD</td>
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<tr>
<td>3:30PM</td>
<td>Case Presentation and Discussion</td>
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### 2:45PM – 4:15PM

#### **OTHER**

**Session 104** Positioning your Nuclear Cardiology Laboratory for Long-term Success: A Comprehensive Boot Camp - Part 2

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>2:45PM</td>
<td>What Is the Ideal Mix of SPECT and PET Equipment for the Modern Nuclear Cardiology Laboratory?</td>
<td>Timothy M. Bateman, MD, MASNC</td>
</tr>
<tr>
<td>3:05PM</td>
<td>How Do We Select the Appropriate Test and Protocol for the Patient Even if the Referring Physician Requested a Different Test?</td>
<td>Randall C. Thompson, MD, FASNC</td>
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<tr>
<td>2:45PM</td>
<td>How Can We Incorporate AUC Into the Modern Nuclear Laboratory?</td>
<td>David G. Wolinsky, MD, MASNC</td>
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<td>3:45PM</td>
<td>Part 4. The Future Landscape of Healthcare and Reimbursement and the Impact on Nuclear Cardiology</td>
<td>Larry Sobal, MBA</td>
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### 2:45PM – 4:15PM

#### **OTHER**

**Session 105** Positioning your Nuclear Cardiology Laboratory for Long-term Success: A Comprehensive Boot Camp - Part 3

<table>
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<tr>
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Thursday, September 14 (cont.)

4:15PM – 6:00PM

**POLICY AND PRACTICE**

**Session 105**  The Changing Face of Medicare: Considerations in Practice and Payment

**Location:** Chicago

**CME:** 1.5; **CE:** 1.25; **MOC**

**Moderators:** William A. Van Decker, MD, MASNC; Kim A. Williams Sr., MD, MASNC

**4:15PM**  Introductory Remarks

William A. Van Decker, MD, MASNC

**4:25PM**  Coding Update

Georgia Lawrence

**4:35PM**  MIPS/ MACRA- What You Need to Know

Kim A. Williams Sr., MD, MASNC

**4:50PM**  System Level Considerations in Value-based Care

Jack A. Ziffer, MD, PhD, FASNC

**5:05PM**  Bundled Payments for Care Improvement Initiative (BCPI)

Gregory S. Thomas, MD, MPH, MASNC

**5:20PM**  Cardiac Bundled Payment in Practice: a Case Study from HeartWell LLC

Jonathan Fialkow, MD

**5:35PM**  Medicare's Appropriate Use Criteria Program: an ASNC Status Update

L. Samuel Wann, MD

**5:50PM**  Discussion

6:15PM – 7:15PM

**ABSTRACTS/RESEARCH**

**Session 106**  Rapid Fire ePosters: Disease-based — Amyloidosis

**Location:** Exhibit Hall A

**CME:** 1.0

**Abstract Discussants:** Sabahat Bokhari, MD, FASNC; Edward J. Miller, MD, FASNC

**6:15PM**  106-01 Simultaneous Dual Isotope Tc99m PYP/Thallium-201 SPECT Myocardial Imaging Reduces the Frequency of Equivocal Tc 99m PYP SPECT Findings in Patients With Suspected Cardiac Amyloidosis Imaging With Thallium-201 SPECT Improves Certainty of Detecting Myocardial Uptake of Tc99m PYP Among Patients With Equivocal Imaging Findings

Yuka Otaki, MD, PhD; Balaji Tamarappoo; Yoav Arnson; Mhairi Doris; Heidi Gransar; Sean Hayes; John Friedman; Louise Thomson; Piotr Slomka; Damini Dey; Daniel Berman

**6:25PM**  106-02 On Close In-SPECT-tion, a Planar Technetium-99m Pyrophosphate (TcPYP) Scan for Cardiac Amyloidosis: 1 Hour vs 3 Hour Imaging

Ahmad Masri, MD; Ricardo Nieves; Andrew D. Althouse; William Follansbee; Joao L. Cavalcante; Prem Soman

6:45PM  106-04 Apical Sparing of Longitudinal Strain Cannot be Explained by Regional Differences in Florbetapir Retention in Cardiac Amyloidosis

Paco E. Bravo, MD; Kana Fujibara; Marie F. Kijewski; Sophia Jacob; William Sticka; Shira Dubey; Anthony Belanger; Mi-Ae Park; Marcelo F. Di Carli; Rodney H. Falk; Sharnila Durbala

6:55PM  106-05 Clinical Utility of 99mTc-PYP and 201Tl SPECT Imaging in Patients with Suspected Cardiac Amyloidosis

Shimpei Itou, MD; Nobuhiro Kodani; Katsuki Tanabe

**7:05PM**  106-06 Non-cardiac Uptake of Technetium-99m Pyrophosphate (TcPYP) in Cardiac Amyloidosis

Brett W. Sperry, MD; Richard Brunken; Manuel D. Cerqueira; Mazen Hanna; Wael A. Jaber

7:00PM – 9:30PM

**LIFELONG LEARNING**

**Session 107**  ASNC Maintenance of Certification Module 2

**Location:** New York/Atlanta

**CME:** 2.5

**Lead Facilitator:** Karthikeyan Ananthasubramaniam, MD, FASNC

**Facilitator:** Maria G. Sciammarella, MD; Ronald G. Schwartz, MD, FASNC

Friday, September 15

7:45AM – 9:30AM

**PLENARY**

**Session 201**  Opening Plenary and Verani Lecture

**Location:** Exhibit Hall B

**CME:** 1.0; **CE:** 1.0

**Moderator:** Donna M. Polk, MD, MPH, FASNC

**7:45AM**  Opening Remarks from ASNC CEO

Kathleen Flood

**7:55AM**  Remarks from the ASNC2017 Program Chair

Donna M. Polk, MD, MPH, FASNC

**8:05AM**  President’s Address — The Triple Threat One Year Later

Raymond R. Russell, III, MD, PhD, FASNC

**8:20AM**  ASNC and ASE: Innovative Collaboration

Raymond R. Russell, III, MD, FASNC and Vera H. Rigolan, MD

**8:25AM**  President Elect’s Address - Nuclear Cardiology: The Case for Optimism

Prem Soman, MD, PhD, FASNC

**8:45AM**  Presentation of the Kenneth Brown Award for Best JNC Editorial

Ami E. Iskandrian, MD, PhD, MASNC

**8:50AM**  Introduction of the Mario Verani Lecturer

Raymond R. Russell III, MD, PhD, FASNC

**8:55AM**  Mario Verani Lecture: Evolving, Innovating and Revolutionary Changes in Cardiovascular Imaging — We Have Only Begun!

Leslie J. Shaw, PhD, FASNC
9:30AM – 10:30AM

AR ABSTRACTS/RESEARCH

Session 202a ePosters: New Developments in Quality and Appropriate Imaging

Location: Exhibit Hall A
Abstract Discussant: Robert C. Hendel, MD, MASNC

9:35AM 202a-01 Prevalence of Ischemia on Rarely Appropriate Myocardial Perfusion Imaging: Validation of Appropriate Use Criteria
David E. Winchester, MD MS; Carsten Schmalfuss; Rebecca Beyth

9:45AM 202a-02 Usefulness of HEART Score with Coronary Artery Calcium Scores on the Prediction of Abnormal SPECT MPI Studies in Emergency Department Chest Pain Patients
Nissi Suppogu, MD; Alan W. Ahlberg; W. Lane Duvall, MD

9:55AM 202a-03 Implementation of the American Society of Nuclear Cardiology (ASNC) Recommendations Resulted in a Significant Reduction in Radiation Exposure Along With Improved Patient Satisfaction Score Without a Deterioration in Image Quality
Basant Arya, MD; Cynthia Meek

10:05AM 202a-04 The Impact of Appropriate Use Criterias on the Cost-Effectiveness of SPECT-MPI
Nathan L. Frogge, MD, MBA; Jagadish Khanagavi; Kathleen Hayes Brown; Rami Doukkly

10:15AM 202a-05 Quality Improvement with Outpatient Myocardial Perfusion Imaging — Experience in a Managed Care Model
Avni Thakore, MD; Vin Aung; Vikrum Malhotra

AR ABSTRACTS/RESEARCH

Session 202b Posters: Advances in PET Imaging

Location: Exhibit Hall A
Abstract Discussant: Parthiban Arumugam, MB BS

202b-01 Early Therapeutic Effects of Adaptive Servo-Ventilation on Cardiac Sympathetic Nervous Activity in Patients with Heart Failure Evaluated by the Combined Use of 11C-HED PET and 123I-MIBG SPECT
Yusuke Tokuda, MD; Keiichiro Yoshinaga; Mamoru Sakakibara; Kikumi Kikuta; Kazunori Omote; Yoshita Kato; Naoya Asakawa; Osamu Manabe; Nagara Tamaki; Hiroyuki Tsutsui

202b-02 18F-NaF Uptake and Evolution of Calcium Volume in the Process of Vascular Calcification
Takehiro Nakahara, MD, PhD; Jagat Narula; H. William Strauss

202b-03 Comparison of Diagnostic Accuracy of PET-derived Myocardial Blood Flow Parameters: A Meta-analysis
Sang-Geon Cho, MD; Soo Jin Lee; Yun Young Chon; Henry Hae-Seung Bum

202b-04 Anderson-Fabry Disease: Case Report Demonstrating Value of PET/CT in a Rare Disease
Abdulrahman R. Abdelkarim, M.D; Abdelrahman Aly; Timothy M. Bateman

202b-05 Lack of Correlation of Segmental Myocardial Blood Flow versus Normalized Perfusion on Rubidium-82 PET in Patients with Angiographically Significant Coronary Disease
Cesia Gallegos, MD; Yi-Hwa Lin; Vera Tsatskin; Richard Paloy; Edward J. Miller

202b-06 Increasing Coronary Artery Calcium Burdens are Associated with Decreasing Global Stress Myocardial Blood Flow and Myocardial Flow Reserve
Hannah E. Raasch, MD; Raymond O. McCubrey; Viet T. Le; Steve O. Mason; Jon-David Ethington; Anjali Gollwe; Kent G. Meredith; Joseph B. Muhlstein; Kirk U. Knowlton

202b-07 Comparison of Gated 82Rb PET-CT with Cardiovascular Magnetic Resonance for the Measurement of Ventricular Volumes and Function in Patients with Suspected or Known Cardiac Sarcoidosis
Jason See, MBBS; Stephen Richard Underwood; Kshama Wecatekar

202b-08 Predictors of Incorporating Myocardial Blood Flow Measurements into Daily Clinical Rest/Stress Rb-82 PET Myocardial Perfusion Study Reports
Faraz Kureshi, MD, MSc; Preetham Muskula; A. Iain McGhee; Kevin Kennedy; Krishna K. Patel; Staci Courter; Mohamed Omer; James Case; Timothy Bateman

202b-09 Left Ventricular Ejection Fraction Changes Between Rest and Peak Stress by CMR: A Rb-82 Myocardial Perfusion PET Comparison Study
Preetham R. Muskula; Faraz Kureshi; Krishna K. Patel; Joseph S. Softya; Ibraim M. Saeed; Kevin F. Kennedy; James A. Case; Timothy M. Bateman

202b-10 Predicting the Risk for Acute Type B Aortic Intramural Hematoma by 18F-FDG PET/CT
Fan Yang, M.D.; Jianfang Luo; Qingyi Hou; Qingshan Geng

202b-11 Ratio of Myocardial Uptake to Blood Pool Activity in Dual-Time-Point 18F-FDG PET for the Diagnosis of Cardiac Sarcoidosis
Sherrie Khadanga, MD; Janusz Kikut; Sean Reynolds; Friederike K. Keating, MD; Patrick Silveira

10:00AM – 11:30AM

CA CASES WITH THE ACES

Session 203 Cases from the Cleveland Clinic
Location: Empire B
Case Presenters: Manuel D. Correia, MD, MASNC; Rory Hachamovitch, MD, FASNC

10:30AM – 12:00PM

A ADVANCED

Session 205 Imaging to Guide Arrhythmia Management
Location: New York
Moderators: Mario J. Garcia, MD; Hein J. Verbene, MD, PhD

10:30AM Myocardial Remodeling Changes that Predispose to Arrhythmogenecity
Robert J. Gropler, MD, MASNC
10:45AM  Radionuclide Imaging for Assessing Ventricular Arrhythmogenicity  
Mark I. Travin, MD, FASNC

11:00AM  Echocardiographic Assessment of Arrhythmogenicity  
Mario J. Garcia, MD

11:15AM  MRI Assessment of Arrhythmogenicity  
Katherine C. Wu, MD

11:30AM  Role of Radionuclide Imaging in Assessment of Atrial Arrhythmias  
Arthur J. Scholte, MD

11:45AM  Discussion

### Session 206  Nuclear Cardiology Laboratory in 2017

**Location:** Exhibit Hall B  
**CME:** 1.5; CE 1.25; MOC

**Moderators:** Thomas A. Holly, MD, FASNC; David E. Winchester, MD, FASNC

10:30AM  ImageGuide: How it Can Improve Your Practice  
Nishant Shah, MD, MPH

10:45AM  ALARA: Practical Approaches to Radiation Reduction  
James A. Case, PhD

11:00AM  Laboratory Accreditation: Nuts and Bolts  
Eric V. Burgett, CNMT, NCT

11:15AM  Optimizing Attenuation Correction and Reconstruction  
Parthiban Arumugam, MB BS

11:30AM  Advances in Nuclear Camera Technology  
Ernest V. Garcia, PhD, MASNC

11:45AM  Discussion

### Session 207  Multimodality Imaging

**Location:** Atlanta  
**CME:** 1.5; CE 1.25; MOC

**Moderators:** Jamieson M. Bourque, MD, FASNC; Saurabh Malhotra, MD, MPH, FASNC

10:30AM  Cardiac Complications of Cancer Therapy and Their Prevention and Treatment  
Raymond R. Russell III, MD, PhD, FASNC

10:45AM  Contemporary Radionuclide Evaluation of Oncologic Cardiotoxicity  
Jamieson M. Bourque, MD, FASNC

11:00AM  The Echocardiographic Approach to Assess Oncologic Cardiotoxicity  
Amil M. Shah, MD

11:15AM  Cardiac MRI to Evaluate Oncologic Cardiotoxicity  
Michael Salerno, MD

11:30AM  Case Presentations and Discussion

### Session 208  99mTc-PYP Amyloid Imaging; PET for Inflammation/Infection

**Location:** Chicago AB  
**CME:** 1.5; CE 1.5; MOC

**Moderators:** Dominique Delbeke, MD, PhD; Robert E. O’Donnell, MD, MPH

**Case Presenters:** Vasken Dilisian, MD, MASNC; Edward Hulten, MD, MPH, FASNC; Edward J. Miller, MD, PhD, FASNC

### Session 209  Technology & Techniques

**Location:** Chicago C  
**CME:** 1.5; CE 1.5

**Moderators:** Timothy L. Dunn, CNMT; Mark C. Hyun, CNMT, NCT, RT(N)(R), FASNC

10:30AM  Acquisition Parameters (Conventional and Solid State)  
Jaime Warren, CNMT, MBA

11:00AM  Processing Parameters (Conventional and Resolution Recovery)  
Marie F. Kijewski, ScD

11:30AM  Types of Filters and Their Parameters  
Mi-Ae Park, PhD

12:00PM - 1:30PM

### Session 210  Cases with the ACES

**Location:** Empire B  
**CME:** 1.5

**Case Presenter:** E. Gordon DePuey, MD, MASNC

12:15PM – 1:15PM

### Session 211  Ethics in Nuclear Cardiology: A Focus on Informed Consent

**Location:** Chicago AB  
**CME:** 1.0

**Podium Moderator:** Andrew J. Einstein, MD, PhD, FASNC

**Audience Moderators:** Matthew Parker, MD; Gregory S. Thomas, MD, MPH, MASNC

**Panelists:** Stephen A. Bloom, MD, FASNC; Ronald G. Schwartz, MD, FASNC; Leslee J. Shaw, PhD, MASNC

12:15PM  Patient Centered Imaging: A Background Presentation on Shared Decision Making  
Leslee J. Shaw, PhD, MASNC

12:25PM  Frequent MUGA Testing in a Myeloma Patient: Case-based  
Sabha Bhatti, MD, FASNC

12:30PM  Panel and Audience Discussion

12:50PM  Consenting Inappropriate Patients: Case-based  
Matthew E. Harinstein, MD, FASNC

12:55PM  Panel and Audience Discussion
Friday, September 15 (cont.)

1:30PM – 3:00PM

**PL PLENARY**

Session 215 Multimodality Imaging in the Diagnosis and Management of Heart Failure

**Location:** Exhibit Hall B  
**Moderators:** James E. Udelson, MD, MASNC; Mary N. Walsh, MD, FASNC

1:30PM  
**How Does Imaging Guide Contemporary Management of the Heart Failure Patient?**  
Mary N. Walsh, MD, FASNC

1:45PM  
**Evaluation of Ischemia and Viability in Heart Failure/LV Dysfunction: Is it Still Relevant?**  
Gary R. Small, MD

2:00PM  
**Novel Approaches to Evaluate Myocardial Inflammatory Diseases**  
Ron Blankstein, MD, FASNC

2:15PM  
**The Rapidly Emerging Role of Multimodality Imaging to Diagnose and Manage the Cardiac Amyloidoses**  
Frederick L. Ruberg, MD

2:30PM  
**Patient Perspective: Experiencing a Heart Transplant (An Interview)**  
Rory Hachamovitch, MD, FASNC

2:50PM  
**Discussion**

**TECHNOLOGY & TECHNIQUES**

Session 216 Patients are Different — So are Protocols

**Location:** Chicago C  
**Moderators:** Robert A. Pagnanelli, CNMT, RT(N)(R), NCT, FASNC; Jaime Warren, CNMT, MBA

1:30PM  
**BMI-Based Dosing**  
Robert A. Pagnanelli, CNMT, RT(N)(R), NCT, FASNC

2:00PM  
**Stress First or Rest First?**  
John J. Mahmarian, MD, MASNC

2:30PM  
**Pharmacologic Stress Agents — Which is the Best for my Patient?**  
Matthew Parker, MD

3:00PM – 4:30PM

**CASES WITH THE ACES**

Session 217 Cases from MMP MaineHealth Cardiology

**Location:** Empire B  
**Case Presenters:** Mylan C. Cohen, MD, MPH, MASNC; Waseem Chaudhry, MD

3:00PM – 4:00PM

**AR ABSTRACTS/RESEARCH**

Session 218a ePosters: Advances in PET Imaging

**Location:** Exhibit Hall A  
**Abstract Discussant:** Timothy M. Bateman, MD, MASNC

3:05PM  
**218a-01 Ability of Quantitative Blood Flow Analysis of 13NH3 PET to Predict High Risk Coronary Disease**  
Waddy Gonzalez, MD, MD; Piotr Sloanka, PhD; Lili Zhang, MD, ScM; Na Song, PhD; Sanford Abramson, PH; Veronica Francois, NP; Mark Travis, MD

3:15PM  
**218a-02 Effect of Exercise and Regadenoson Stress on Peak Hyperemic Myocardial Blood Flow and Coronary Flow Reserve in Healthy Subjects**  
Yin Ge, MD; Sophia Jacob; David Yang; Karla Sirenni; William Sticla; Jon Hainer; Marcelo DiCarli; Sharmila Dorbala

3:25PM  
**218a-03 Detection of Myocardial Inflammation by T2-weighted Imaging on Cardiac MRI versus FDG PET Among Patients with Suspected Cardiac Sarcoidosis**  
Paco E. Bravo, MD; Tomas S. Vita; Viviany Taqueti; Mahdi Vellet-Chowdhury; Michael Steigner; Hicham Skalli; Sharmila Dorbala; Marcelo F. Di Carli; Ron Blankstein

3:35PM  
**218a-04 Effect of Exercise and Regadenoson Stress on Peak Hyperemic Myocardial Blood Flow and Coronary Flow Reserve in Clinical Subjects**  
Yin Ge, MD; Sophia Jacob; Karla Sirenni; David Yang; William Sticla; Jon Hainer; Marcelo DiCarli; Sharmila Dorbala

3:45PM  
**218a-05 Quantification of Right Ventricular Function Using PET: Comparison with Cardiac Magnetic Resonance**  
Krasimira M. Mikhailova, MD; Ken M. Hiller; James R. Cortet; Edward P. Picari; Venkatesh L. Murthy
218b-18  Synchrony Analysis and Activation Sequences of the Left Ventricle in Patients with Left Bundle Branch Block
Juan Ernest Sr., MD; Monica Redolatti; Gustavo Vigo; Victor Arregui; Luis Cartasegna; Luis Castro; Maria Laura Platinio; Alejandro Vilchez; Javier Moreno; Erick Alexanderson; Jorge Camilletti

218b-19  A Case of Prolonged Ventricular Standstill Following Regadenoson Injection With Incidental Late Gadolinium Enhancement on Cardiac MRI
Laith Derbas, MD; Abdul-rahman Abdel-karim; Ibrahim M. Saeed; A. Iain McGhie; Timothy M. Bateman

218b-20  Novel SPECT-MPI Parameters as Predictors of Obstructive Coronary Artery Disease
Giorgio A. Medranda, MD; Anjili Srivastava; Connor Healey; Kevin Marzo; Joshua Deleon; Zack Williams; Rose Calixte; Beevash Ray

218b-21  Cardiac Amyloidosis Presenting with Recurrent Syncope and Diagnosed Following Exercise SPECT Myocardial Perfusion Imaging
Ji Can Yang; Mena Yacoub, DO; Michael Youssef; John Makaryus

4:00PM – 5:30PM

**MULTIMODALITY IMAGING**

**Session 221**  Evaluation of Suspected Coronary Artery Disease in Women: A Comparison of the Different Imaging Modalities

**Location:** New York  
**CME:** 1.5; **CE:** 1.25; **MOC**

**Moderator:** Regina S. Druz, MD, FASNC; Lawrence M. Phillips, MD, FASNC

- 4:00PM  Challenges in the Evaluation of Heart Disease in Women
  Gary V. Heller, MD, PhD, MASNC

- 4:15PM  In Women, Anatomic Imaging with CT is Preferred
  Kavitha Chinnaiyan, MD

- 4:30PM  In Women, Functional Imaging with Radionuclide Imaging is Better
  Viviany R. Taqueti, MD

- 4:45PM  In Women, Functional Imaging with CMR is Better
  Balaji K. Tamarappoo, MD, PhD

- 5:00PM  Case Presentations and Discussion

**INTERNATIONAL**

**Session 225**  International Atomic Energy Agency Global Initiatives - Part 1

**Location:** Atlanta  
**CME:** 1.0; **CE:** .75

**Moderators:** Nathan Better, MB BS; Felix Keng, MD, FASNC

- 4:00PM  The IAEA Nuclear Cardiology Protocols Study (INCAPS): Building Research Collaborations Between ASNC and IAEA
  Andrew J. Einstein, MD, PhD, FASNC

- 4:20PM  The Challenges to Develop Nuclear Cardiology with Competing Modalities in the Developing World
  Joao Vitola, MD, PhD

- 4:40PM  Discussion

5:15PM – 6:15PM

**INTERNATIONAL**

**Session 226**  International Atomic Energy Agency Global Initiatives - Part 2

**Location:** Atlanta  
**CME:** 1.0; **CE:** .75

**Moderators:** Nathan Better, MB BS; Felix Keng, MD, FASNC

- 5:15PM  Case Presentation: The Present Status of Medical Radiation and Nuclear Medicine Usage in Japan
  Takashi Kudo, MD, PhD

- 5:35PM  Case Presentation: Revascularization Predicts Improved Prognosis in Egyptian Patients with Stable CAD and Large Ischemic Perfusion Defects
  Adel H. Allam, MD, FASNC

- 5:55PM  Discussion
Saturday, September 16

6:30AM - 7:45AM

O OTHER

Session 300  ImageGuide Registry Informational Session
Location: Chicago C
Additional information can be found on page ??

7:55AM - 9:30AM

PL PLENARY

Session 301  The Emerging Clinical Challenge of Symptomatic Non-obstructive Coronary Artery Disease
Location: Exhibit Hall B  CME: 1.5; CE 1.25; MOC
Moderators: John Wells Askew, MD, FASNC; Randall C. Thompson, MD, FASNC
7:55AM  Recognition of New FASNC and MASNC Members and JNC Award Recipients
Randall C. Thompson, MD, FASNC and Ami E. Iskandrian, MD, PhD, MASNC
8:00AM  Nomenclature: Syndrome X, Microvascular Angina, Coronary Microvascular Dysfunction — One and the Same? Leslee J. Shaw, PhD, MASNC
8:20AM  Is This the Sweet Spot for Coronary CT? Daniel S. Berman, MD, MASNC
8:40AM  The Challenge with Stress Testing: How to Differentiate Microvascular Disease from a False Positive Test
Raymond J. Gibbons, MD, MASNC
9:00AM  Can Imaging Help Guide Management? Viviany R. Taqueti, MD
9:20AM  Discussion

9:30AM – 9:45AM

ASNC Annual Business Meeting
Location: Exhibit Hall B

9:30AM - 10:30AM

AR ABSTRACTS/RESEARCH

Session 302a  ePosters: New Techniques in Myocardial Perfusion Imaging
Location: Exhibit Hall A  CME: 1.0
Abstract Discussant: Renee Bullock-Palmer, MD, FASNC
9:35AM  302a-01 Usefulness of Quantitative Assessment of Myocardial Blood Flow With D-SPECT in Patients With Multivessel Coronary Artery Disease: Comparison With Visual Qualitative Assessment
Eni Tateshi; Kelsuwe Kiso; Hayato Hosoda; Yasuhide Asaumi; Tetsuya Fukuda
9:45AM  302a-02 The Prognostic Value of Heart Rate Response During Vasodilator Stress Myocardial Perfusion Imaging in Patients with End Stage Renal Disease Undergoing Renal Transplantation

James A. Case, PhD; Jessica Jensen; Staci A. Courter; Paul Helmsath; Timothy M. Bateman

10:05AM  302a-04 Assessment of Coronary Calcium Score Using Integrated PET Myocardial Perfusion Quantitative Software Method: Comparison With the Standard Stand Alone Software Systems
Mark C. Hyc; Frances Wang; Heidi Gransar; Norman Gellada; Serge D. Vankriekinge; Pietro Slomka; Damini Dey; Parker Waechter; Sean W. Hayes; Louise E. Thomson; John D. Friedman; Daniel S. Berman

10:15AM  302a-05 Combined Echocardiography and Pyrophosphate Imaging Detect Cardiac Amyloidosis with High Accuracy Among Elderly with Aortic Stenosis
Vasi Singh, MD; Clark Zhang; Saurabh Malhotra

302b-22 The Impact of Initial Myocardial Perfusion Imaging vs. Invasive Coronary Angiography on Outcomes of Coronary Artery Disease: A Nationwide Cohort Study
Guang-Uei Hung, MD

302b-23 Sensitivity of 8-Frame Cadmium-Zinc-Telluride Single Photon Emission Computed Tomography for the Assessment of Diastolic Dysfunction
Ji Can Yang, DO; Nicholas Chan; Badewattie Narine; John Makaryus; Joseph Diamond

302b-24 Prognostic Value of LV Diastolic Dysynchrony from SPECT MPI in Patients with DCM
Dianfu Li; Cheng Wang; Haipeng Tang; Guang-Uei Hung; Weihua Zhou, PhD

302b-25 A Comparison of Left Ventricular Volumes and Ejection Fraction by Various Commercially Available Nuclear Cardiology Software on a CZT SPECT Camera
Chad M. House, BS, RDTS, FASE; Kelly S. Root; Jill C. Schreiner; Patricia K. Turnquist; Katie A. Moriarty; William B. Nelson

302b-26 How Soon is Now? Delay in the Utilization of Technetium-99m Pyrophosphate Scintigraphy for the Diagnosis of Cardiac Transthyretin Amyloidosis in Patients with Symptoms
Nikolaos Papoutsidakis, MD, PhD; Daniel Jacoby; Anna Rodonski; Edward Miller

302b-27 A Phantom Study of Positional Change in Defect Size And Severity: Is Everything That Moves Really an Artifact?
Aaron M. Timins, DO; Mark Task; Andrew Althouse; Matthew E. Harinstein; Prem Soman

302b-28 Clinical feasibility of Adenosine Stress Lung Thallium-201 Uptake in Patients With Pulmonary Congestive Heart Failure
Hiroaki Namura, MD
302b-29  Preliminary Analysis of Previously Undescribed D-SPECT Nuclear Camera Artifact
Matthew D. Roby, D.O.; Matthew M. Schumaecker; Melanie Spangler; Jacek S. Slowikowski
302b-30  Quantitative Myocardial Perfusion and Flow Distribution in Human with 99mTc-Tetrofosmin Dynamic Cardiac SPECT
Uttam M. Shrestha, PhD; Maria Sciammarella; Youngho Seo; Grant Gullberg; Elias Botvinick
302b-31  Contribution of Coronary Artery Calcification in the Prediction of Diastolic Dysfunction Parameters as Assessed by Myocardial Perfusion SPECT
Lakshmi Subramanian, MBBCh BAO; William Yezina; Jonathan Romsa; Cigdem Akincioğlu; Rob Stodilka; James Warrington
10:00AM - 11:30AM
CASES WITH THE ACES
Session 303  Cases from Brigham & Women’s Hospital
Location: Empire B  CME: 1.5
Case Presenters: Shamila Durbala, MD, FASNC; Marcelo Di Carli, MD; Vikram Agarwal, MD, MPH
10:30AM - 12:00PM
ADVANCED
Session 304  Cutting Edge Technologies
Location: New York  CME: 1.5; CE: 1.25; MOC
Moderators: Renee Bullock-Palmer, MD, FASNC; Indu Poornima, MD
10:30AM  Latest in SPECT and PET Hardware Development
Piotr J. Sloenka, PhD
10:50AM  New Tracers on the Horizon
Mehran Sadeghi, MD
11:10AM  Theranostics — Wave of the Future
Albert J. Sinusas, MD, FASNC
11:30AM  Kinetic Remodeling: What You Need to Know to Obtain Reliable Quantitative Flow
Robert A. deKemp, PhD
11:50AM  Discussion
10:30AM  Imaging in Unexplained Cardiomyopathy: A Clinician’s Perspective
Leslie T. Cooper, MD
10:50AM  Non-invasive Imaging for Cardiac Sarcoidosis: the European Perspective
Hein J. Verberne, MD, PhD
11:10AM  PET/CT for Detection and Management of Sarcoidosis: Update from the New Guidelines
Panithaya Charoenthaitawee, MD
11:30AM  What’s Next for Imaging to Direct Therapy in Cardiac Sarcoidosis: Current and Future Approaches
David Birnie, MD
11:50AM  Discussion
Session 307  Imaging for the Detection or Risk Assessment of Stable Coronary Artery Disease: Get with the Guidelines
Location: Chicago AB  CME: 1.5; CE 1.5; MOC
Moderators: Rami Doukkly, MD, FASNC; Nishant Shah, MD, MPH
Case Presenters: Rami Doukkly, MD, FASNC; Myron C. Gerson, MD, MASNC
10:30AM  Acquisition/Processing Parameters
Mi-Ae Park, PhD
11:00AM  Radiation Reduction in PET
James A. Case, PhD
11:30AM  PET (CIED Infection, Prosthetic Valve Endocarditis, Sarcoidosis)
Hicham Skali, MD
11:50AM  Discussion
Session 308  Cardiac PET: Focus on Myocardial Perfusion Imaging
Location: Chicago C  CME: 1.5; CE 1.5
Moderators: Timothy L. Dunn, CNMT; Eric J. Schockling, CNMT
10:30AM  Pathogenesis of Amyloidosis
Kevin M. Alexander, MD
10:50AM  What’s New and What’s on the Horizon in Diagnosis and Treatment
Frederick L. Ruberg, MD
11:10AM  Echocardiography and MRI in Amyloidosis
PROGRAM SCHEDULE

Saturday, September 16 (cont.)

12:00PM - 1:30PM

[CA] CASES WITH THE ACES [TICKETED SESSION]

Session 310  Cases from Brown University
Location: Empire B
CME: 1.5
Case Presenters: Brian G. Abbott, MD, MASNC; James A. Arighi, MD, MASNC; Raymond R. Russell III, MD, PhD, FASNC; Nishant Shah, MD

1:30PM - 3:00PM

[A] ADVANCED

Session 315  Debate: Clash of the Titans
Location: Exhibit Hall B
CME: 1.5; CE 1.5; MOC
Moderators: Lawrence M. Phillips, MD, FASNC; L. Samuel Wann, MD
1:30PM  Is Solid State SPECT a Viable Substitute for PET Imaging? PRO
Prem Soman, MD, PhD, FASNC
1:40PM  Is Solid State SPECT a Viable Substitute for PET Imaging? CON
Terrence D. Ruddy, MD
1:50PM  Rebuttals

2:00PM  Is CT-FFR Assessment Offlow Physiology Comparable to PET? PRO
Benjamin Chow, MD, FASNC
2:10PM  Is CT-FFR Assessment Offlow Physiology Comparable to PET? CON
K. Lance Gould, MD
2:20PM  Rebuttals

2:30PM  Is CT Attenuation Correction the Best Option for PET Imaging? PRO
Marcelo Di Carli, MD
2:40PM  Is CT Attenuation Correction the Best Option for PET Imaging? CON
Nils P. Johnson, MD
2:50PM  Rebuttals

2:30PM

[RE] RWTE

Session 318  Viability Assessment (SPECT and PET)
Location: Chicago AB
CME: 1.5; CE 1.5; MOC
Moderators: Thomas A. Holly, MD, FASNC; Ami E. Iskandrian, MD, PhD, MASNC
Case Presenters: Paul Cremer, MD; Jamshid Maddahi, MD, FASNC; Hein J. Verberne, MD, PhD

3:00PM - 4:30PM

[C] CORE

Session 316  Patient Centered Myocardial Perfusion Imaging
Location: New York
CME: 1.5; CE 1.25; MOC
Moderators: Jeffrey A. Leppo, MD, MASNC; Peter Tilkemeier, MD, FASNC
1:30PM  Appropriate Use: Are We Making Progress?
Robert C. Hendel, MD, MASNC
1:50PM  Personalized Protocol Selection
W. Lane Duval, MD
2:10PM  Optimizing the Clinical Value of Reports
Peter Tilkemeier, MD, FASNC
2:30PM  Current Health Policy Issues: Implications for Patient Choice and Costs
William A. Van Decker, MD, MASNC
2:50PM  Discussion

3:15PM - 4:15PM

[CA] CASES WITH THE ACES [TICKETED SESSION]

Session 321  Cases from Mayo Clinic
Location: Empire B
CME: 1.5
Case Presenters: Panithaya Chareonthaitawee, MD; Todd D. Miller, MD

3:15PM - 4:15PM

[O] OTHER

Session 322  Choosing Wisely Challenge
Location: New York
Additional Information can be found on page ??
4:00PM - 5:30PM

PET

Session 325  New Directions in Cardiovascular PET: A Joint Session with the European Association of Nuclear Medicine

Location: Atlanta  CME: 1.5; CE 1.25; MOC

Moderators: Fabien Hyafil, MD, PhD; Terrence D. Ruddy, MD

4:00PM  PET vs. MR (and PET/MR) for Ischemic and Non-ischemic Cardiomyopathy
Robert J. Gropler, MD, MASNC

4:20PM  New Approaches to Molecular Imaging with PET
Hein J. Verberne, MD, PhD

4:40PM  Role of PET in Valvular Disease
Fabien Hyafil, MD, PhD

5:00PM  Role of PET in Transplant Vasculopathy
Sharon Chih, MBBS, PhD

5:20PM  Discussion

TECHNOLOGY & TECHNIQUES

Session 328  Multimodality Imaging

Location: Chicago C  CME: 1.5; CE 1.5

Moderators: Maria Costello, CNMT; Haresh Majmundar, CNMT, RT(N)

4:00PM  Cardiac CT
Mark C. Hyn, CNMT, NCT, RT(N)(R), FASNC

4:30PM  Echocardiography
Dennis A. Calnon, MD, MASNC

5:00PM  Cardiac MRI
Balaji K. Tamarappoo, MD, PhD

4:30PM - 5:30PM

ABSTRACTS/RESEARCH

Session 327  Featured Research Oral Abstracts

Location: New York  CME: 1.0; CE: 1.0

Moderators: Maria G. Sciammarella, MD; Manuel D. Cerqueira, MD, MASNC

4:30PM  327-01 The Prognostic Value of Ischemic ECG Changes in Patients Undergoing Regadenoson Stress Myocardial Perfusion Imaging
Rami Doukkly, MD, FASNC; Ibithaj Fughhi; Rozzi Khan; Chledozi Anokwu; Ali Ayoub; Snigdha Kola; Mina Iskander; Fady Iskander; Mark Sahyouni; Bala Hota

4:42PM  327-02 Association of Nuclear Cardiology Laboratory Accreditation with Downstream Resource Utilization and Clinical Outcomes
Venkatesh L. Murthy, MD, PhD; Jessica Lehnerich; Ravi V. Shah; Hong J. Yoon; James R. Corbett; Edward P. Ficaro; Rony Rachamovitch; Leslee J. Shaw; Brahmajeet K. Nallamothu

4:54PM  327-03 Left Ventricular Ejection Fraction Reserve Derived with PET, but not SPECT, Myocardial Perfusion Imaging Predicts Presence of Multivessel Coronary Artery Disease by Coronary Angiography: Same-Patient, Head-to-head PET vs. SPECT Comparison
Firas Al Badarin, MD; Timothy Bateman; Staci Courter

5:06PM  327-04 Direct Comparison Between Relative 18F-fluorodeoxyglucose Uptake and Late Gadolinium Enhancement on Cardiac MRI by Using PET/MRI
Atsuro Masuda, MD, PhD; Ayaka Nemoto; Noboru Oriuchi; Hiroshi Ito; Yasuhi Takatsuki

5:18PM  327-05 Development of a Simple Screening Measure to Approximate Resting Myocardial Blood Flow in Rb-82 PET: Value of the Rate-pressure Product
Mohamed Omer, MD; Faraz Kureshi; Preetham Musulka; Krishna K. Patel; Kevin Kennedy; Ibrahim Saed; Staci Courter; James A. Case; Timothy M. Bateman

5:45PM - 6:45PM

ABSTRACTS/RESEARCH

Session 330  Young Investigator Competition

Location: Chicago C  CME: 1.0; CE: 1.0

Moderator: Gary V. Heller, MD, PhD, MASNC

Judges: Fadi G. Hage, MD, FASNC; Rami Doukky, MD, FASNC; Barry L. Zaret, MD, MASNC; James A. Case, PhD

5:45PM  330-01 A Novel Matrix Metalloproteinase Targeting Tracer for PET Imaging of Aneurysms
Jakub Toczek, PhD; Yinpeng Ye; Kian Gona; Jasheng Zhang; Jinah Han; Jae-Joon Jung; Mehran M. Sadeghi

5:57PM  330-02 Accuracy of the Non-invasive Diagnosis of Cardiac Amyloidosis: A Multi-modality Registry Analysis
Ahmad Masri, MD; Ricardo Nieves; Islam Abdelkarim; Michael S. Sharbaugh; Andrew D. Allhouse; William Follansbee; Joan L. Cavalcante; Timothy Wong; Erik B. Schelbert; Prem Soman

6:09PM  330-03 Intracellular Behavior of the Novel Sympathetic Nerve Agent 18F-LMI1195
Rudolf A. Werner, MD; Xinyu Chen; Constantin Lapa; Simon Robinson; Takahiro Higuchi

6:21PM  330-04 Head-to-head Comparison of SPECT- and PET-Derived Stress Left Ventricular Functional Measurements Using Same-Patient, Near-Simultaneous PET and SPECT Acquisitions
Firas Al Badarin, MD; Timothy Bateman; Staci Courter

6:33PM  330-05 Analysis of Raw Polar Maps from Myocardial Perfusion SPECT by Gender-adjusted Deep Learning Improves Automatic Prediction of Obstructive Coronary Disease
Julian A. Betancur, PhD; Frederic Commandeur; Tali Sharir; Mathews Fish; Terrence Ruddy; Philipp Kaufmann; Timothy Bateman; Sharnilla Durbal; Guido Germano; Daniel Berman; Danmini Dey; Piotr Słomka
### Sunday, September 17

**8:00AM - 9:30AM**

#### PL PLENARY

**Session 401 Controversies in Clinical Cardiology and Cardiac Imaging**

**Location:** Atlanta  
**CME:** 1.5; CE 1.5; MOC  
**Moderators:** Prem Soman, MD, PhD, FASNC; Vivian R. Taqueti, MD

- **8:00AM** Debate 1 - Breakthrough: Novel approaches for Early Detection of Chemotherapy Cardiotoxicity  
  W. Gregory Hundley, MD

- **8:12AM** Debate 1 - Controversy: What Would it take for Novel Markers of Cardiac Toxicity to Replace Ejection Fraction  
  Indu Poornima, MD

- **8:30AM** Debate 1 - Discussion

- **8:42AM** Debate 2 - Breakthrough: FDG Imaging of Cardiac and Vascular Inflammation  
  Ahmed Tawakol, MD

- **8:54AM** Debate 2 - Controversy: Is FDG Imaging the Be-all and End-all?  
  Robert J. Gropler, MD, MASNC

- **9:24AM** Debate 2 - Discussion

- **9:45AM** Debate 3 - Breakthrough: Noninvasive Quantification of Coronary Flow Reserve  
  Marcelo Di Carli, MD

- **9:57AM** Debate 3 - Controversy: Is Coronary Flow Reserve Good Enough to Guide Management in Coronary Artery Disease?  
  K. Lance Gould, MD

- **9:45AM - 10:45AM**

#### ADVANCED

**Session 402 Approach to Known or Potential Ischemic Heart Disease**

**Location:** Atlanta  
**CME:** 1.0; CE 1.0; MOC  
**Moderators:** Justin B. Lundbye, MD, FASNC; Mark J. Travin, MD, FASNC

- **9:45AM** Which Imaging Test to Begin within the Context of Varying Guidelines  
  Manuel D. Carqueira, MD, MASNC

- **10:00AM** Benefits of Myocardial Blood Flow Quantitation (with Attention to Microvascular Disease, Especially in Women)  
  Venkatesh L. Murthy, MD, PhD

- **10:15AM** Imaging Plaque: How do We do It?  
  Mehran Sadeghi, MD

- **10:30AM** Radionuclide Imaging of Peripheral Arterial Disease  
  Mitchel R. Stacy, PhD

**11:00AM - 12:00PM**

#### CORE

**Session 404 How Does Radionuclide Imaging Guide Clinical Decision Making?**

**Location:** Atlanta  
**CME:** 1.0; CE 1.0; MOC  
**Moderators:** Christopher L. Hansen, MD, FASNC; Hicham Skali, MD

- **11:00AM** How to Decide When to Proceed to Angiography  
  Hicham Skali, MD

- **11:20AM** Latest in Viability Assessment  
  Jamshid Maddahi, MD, FASNC

- **11:40AM** Preoperative Testing: When is Preoperative Evaluation Helpful  
  Todd D. Miller, MD

**11:00AM - 12:00PM**

#### MULTIMODALITY IMAGING

**Session 405 Multimodality Assessment of Complex Cardiovascular Disease**

**Location:** Chicago AB  
**CME:** 1.0; CE 1.0; MOC  
**Moderators:** Ibrahim M. Saeed, MD; Joao Vitola, MD, PhD

- **11:00AM** A Patient with Chest Pain and an Anomalous Coronary Artery  
  Steven C. Port Jr., MD

- **11:15AM** A Patient with Ischemic Cardiomyopathy and Heart Failure  
  Ibrahim M. Saeed, MD

- **11:30AM** A Patient with Pocket Erythema and Swelling Post-ICD Placement  
  Vasken Dilisian, MD, MASNC

- **11:45AM** A Patient with Peripheral Arterial Disease  
  Randall C. Thompson, MD, FASNC
ASNC’s International Association Partners

- International Atomic Energy Agency (IAEA)
- AOFNMB (Asia Oceania Federation of Nuclear Medicine and Biology)
- ALASBIMN (Latin American Association of Biology and Nuclear Medicine)
- Argentine Federation of Cardiology
- Brazilian Society of Cardiology
- Chinese Society of Nuclear Medicine
- Egyptian Society of Cardiology
- European Association of Nuclear Medicine
- European Society of Cardiology
- Inter-American Society of Cardiology
- Japanese Society of Nuclear Cardiology
- Japanese Society of Nuclear Medicine
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Admission Requirements

Admission to all sessions and the exhibit hall is by badge only.

ASNC Booth

Located outside outside the Expo Hall.

ASNC2017 Meeting on Demand

All attendees can obtain access to the ASNC2017 MOD by visiting the Astellas booth on the expo floor to obtain an access code. This is a non-CME product. Information about purchasing a CME MOD will be provided to all attendees by email. Corporate support for the non-CME access is provided by Astellas Pharma US, Inc.

Coat and Baggage Check

ASNC does not provide coat or baggage check. Bags may be checked at the bell stand in the hotel lobby.

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Please go to page 25 in this program to view download instructions for the ASNC2017 mobile app.

Mobile Phones, Pagers, Other Electronic Devices

For consideration of others, please remember to silence all electronic devices while in educational sessions.

No Smoking Policy

Smoking is prohibited in all meeting spaces of the Sheraton Kansas City Crown Center. Your compliance is appreciated.

Speaker Ready Room

ASNC requests that faculty use the audio-visual equipment in the speaker ready room to prepare presentations. The Speaker Ready room is located in Chouteau A on the Mezzanine Level of the Sheraton. The room will be staffed with technicians to assist faculty:

- Thursday, September 14, 2017: 10:00 a.m. – 5:00 p.m.
- Friday, September 15, 2017: 7:00 a.m. – 4:00 p.m.
- Saturday, September 16, 2017: 7:00 a.m. – 4:00 p.m.
- Sunday, September 17, 2017: 7:00 a.m. – 10:00 a.m.

WiFi Available

Wifi is available in the Education rooms and public areas of the Sheraton. Corporate support for Wifi is provided by Astellas Pharma US, Inc.

Access Wifi by entering: Username: ASNC2017
Password: astellas
The ASNC Exhibit Hall is a one-of-a-kind marketplace to visit and explore the latest offerings in nuclear cardiology. ASNC attendees meet face-to-face with industry leaders and organizational representatives as they demonstrate new products, discuss exciting new services, and answer your questions.

Welcome Reception in the Exhibit Hall

Get the first look at the latest technologies and services! The Welcome Reception will be held in the Exhibit Hall on Thursday night with open bar and food. Mingle with exhibitors, attendees, and industry professionals...it’s the perfect way to unwind from your travels and kick off ASNC2017!

Please note that children under the age of 18 (including children in strollers and carriers) are not allowed in the Exhibit Hall. This policy is in effect at all times in the Exhibit Hall including set-up and tear-down.

Lunch in the Exhibit Hall

Attendees receive two lunch coupons redeemable on Friday and Saturday at the ASNC Café located in the Exhibit Hall. Offering sandwiches, snacks, and beverages, the Café will be open 11:30 a.m.– 1:30 p.m.
Absolute Imaging Solutions ................................................................. 417
Absolute Imaging Solutions (AIS) is the Molecular Imaging experts in New/Reconditioned SPECT Cameras- Service- Processing Workstations and Parts. AIS is the exclusive source for the Mediso AnyScan® S, enabling healthcare providers a cost-effective NEW SPECT alternative with integration into various clinical settings.

American College of Radiology .......................................................... 423
The American College of Radiology is a leading professional medical society dedicated to serving patients and society by empowering radiology professionals to advance the practice, science, and professions of radiological care. ACR Accreditation and Appropriateness Criteria are the standards for safe imaging and patient care. The ACR’s 37,000 members include radiologists, radiation oncologists, nuclear medicine physicians and medical physicists.

American Society of Nuclear Cardiology ........................... Expo Hall Foyer
ASNC is the recognized leader in quality, education, advocacy and standards in cardiovascular imaging, with more than 4,000 members worldwide. ASNC is dedicated to continuous quality improvement, education, patient-centered imaging, and improving patient outcomes. ASNC establishes standards for excellence in cardiovascular imaging through the development of clinical guidelines, professional education, advocacy and research development for the cardiovascular community.

APCA .................................................................................................... 422
The Certification Board of Nuclear Cardiology (CBNC) and the Certification Board of Cardiovascular Computed Tomography (CBCCT) assessments are now a part of the Alliance for Physician Certification and Advancement™ (APCA™). APCA has over 21,000 certified physicians throughout the world and is part of the non-profit Intelesse™ family of certification alliances. The Certification Board of Nuclear Cardiology (CBNC) and the Certification Board of Cardiovascular Computed Tomography (CBCCT) certification programs were established to develop and administer practice-related examinations in the field of Nuclear Cardiology and Cardiovascular Computed Tomography and to award certification to those physicians who successfully complete the examination process.

Associated Imaging Services ................................................................. 425
Associated Imaging Services has been providing nuclear medicine service and sales throughout the Midwest since 1990. AIS can provide service on most all makes and models of gamma cameras. We also have solutions for departments who want to add or upgrade equipment, we have both new and refurbished options.

Astellas Pharma US, Inc. ................................................................. 312
Astellas Pharma US, Inc., is a U.S. affiliate of Tokyo-based Astellas Pharma Inc. Located in Northbrook, Illinois, the company serves as the headquarters for the Americas and employs nearly 3,000 people. Astellas is a pharmaceutical company dedicated to improving the health of people around the world through the provision of innovative and reliable pharmaceutical products.

BC Technical ...................................................................................... 508
BC Technical is the largest non-OEM provider of Medical Imaging Solutions. Our customers trust us to provide the best refurbished NM, SPECT/CT, PET, PET/CT, MRI and CT systems from all major OEMs.

Bracco Diagnostics Inc. ................................................................. 300
Bracco Diagnostics Inc. offers a product and solution portfolio for all key diagnostic imaging modalities: X-ray Imaging (including Computed Tomography-CT, Interventional Radiology, and Cardiac Catheterization), Magnetic Resonance Imaging (MRI), Contrast Enhanced Ultrasound (CEUS), and Nuclear Medicine through radioactive tracers. The diagnostic imaging portfolio is completed by a range of medical devices and advanced administration systems for contrast imaging products.

CardioNavix ...................................................................................... 403
CardioNavix provides the isotopes you need, for the equipment you already have. We remove the need for a fixed Rubidium-82 generator while maximizing your PET/CT investment.

Cardiovascular Imaging Technologies .................................................. 327
CVIT is a research and development company focusing on practical solutions for achieving high-quality, maximally-efficient cardiac SPECT, PET, and CT imaging. CVIT offers training, preceptorships, processing software, and quality control software designed to improve quality and workflows in cardiac imaging. CVIT organizes, participates in, and functions as a core imaging lab for research studies leading to advances in the prevention, diagnosis, and treatment of cardiovascular diseases.

We have developed, 510(k) cleared, distributes and services the Imagen family of cardiac imaging products: ImagenPRO, ImagenMD, ImagenQ, Imagen3D, and our newest product ImagenSPECT. For more information, please contact Staci Courter at scourter@cvit.com or 816-531-2842 x 107.”

Cedars-Sinai Medical Center ................................................................. 220
The Artificial Intelligence in Medicine (AIM) Program at Cedars-Sinai Medical Center develops software to process and analyze three-dimensional images of the heart as an experienced human operator would. The software and algorithms developed by the AIM Program at Cedars-Sinai are widely considered the gold standard in nuclear cardiology. Visit our booth to learn more about Cedars-Sinai Cardiac Suite and some of its latest features. We set the gold standard in customer service and patient satisfaction with diagnostic solutions that optimize imaging at the point of care. For healthcare facilities of all sizes, our SPECT and PET MPI services, nuclear products, and support offer outstanding flexibility to improve performance, optimize outcomes, and enhance the patient experience.

Digirad ................................................................................................. 212
Digirad sets the gold standard in customer service and patient satisfaction with diagnostic solutions that optimize imaging at the point of care. For healthcare facilities of all sizes, our SPECT and PET MPI services, nuclear products, and support offer outstanding flexibility to improve performance, optimize outcomes, and enhance the patient experience.
The Japanese Society of Nuclear Cardiology (JSNC) is the leading society for nuclear cardiology in Japan, founded in October 1998. JSNC includes among its members cardiologists, nuclear medicine physicians, radiologists, technologists and other professionals dedicated to nuclear cardiology.

JSNC aims to promote basic and clinical research on nuclear cardiology and to contribute to international cooperation and the development of academic culture through research, education and clinical practice in nuclear cardiology. Every year we hold annual scientific meeting. Since 2015, we have published our official English-language journal, Annals of Nuclear Cardiology (http://anc.jsnc.journal.org/), to promote clinical and research work in nuclear cardiology.

Jubilant DraxImage, Inc. provides vendor-neutral solutions for multi-modality image fusion, processing, and review for radiology and nuclear medicine. MIMcardiac® is a vendor-neutral solution for the quantitative analysis of cardiac PET and SPECT. LV parameters are generated using a robust and accurate deformable registration method helping to overcome limitations of traditional threshold methods. Fusion between stress/rest images facilitates comparison of corresponding myocardium and perfusion differences are highlighted in a color-coded display.
Multi-modality fusion is also used to register functional images to CCTA and to correct PET/CT and SPECT/CT misalignment.

Molecular Imaging Services, Inc. .................................................. 317
Molecular Imaging Services, Inc. (MIS) is a privately held company with headquarters in Newark, Delaware. We specialize in Cardiac PET and SPECT In-Office Cardiology Imaging Solutions. Our Comprehensive Support approach has redefined the turnkey model with unparalleled Clinical, Operational and Reimbursement resources and solutions. If you are looking to add Cardiac PET to your practice stop by and meet the MIS Team at Booth # 317.

Nuclear Imaging Services, LLC .................................................. 319
Nuclear Imaging Services, LLC is a leading provider of nuclear cardiology turnkey solutions. We provide refurbished equipment, parts, and nationwide service and clinical support for SPECT, PET, and PET/CT imaging.

Nuclear Medicine Technology Certification Board .................. 516
The NMTCB is the Nuclear Medicine Technology Certification Board, formed for the purpose of creating and maintaining examinations for nuclear medicine technologists (NMTs). Since 1978, the NMTCB has offered high-quality certification exams for NMTs to become Certified Nuclear Medicine Technologists (CNMT). The NMTCB provides five certification programs: the entry level CNMT credential, the post-primary NMTCB(CT) credential for computed tomography, the PET specialty credential for positron emission tomography certification, the NCT specialty credential for nuclear cardiology, and the NMAA credential for NMT’s who have graduated from a recognized Master’s level program as a Nuclear Medicine Advanced Associate. NMTCB is also developing a sixth certification program, the NMTCB(RS), which will be a radiation safety credential specifically for nuclear medicine technologists.

Philips .................................................................................... 412
Philips is a health technology company focused on improving people’s lives through meaningful innovation across the health continuum – from healthy living and prevention to diagnosis, treatment and home care. Applying advanced technologies and deep clinical and consumer insights, Philips partners with customers to deliver integrated solutions that enable better outcomes at lower cost.

PMOD Technologies Inc. .................................................. 512
PMOD Technologies aims to equip researchers with best-in-class software tools for biomedical imaging in humans and animals. The PMOD tool suite arguably represents the leading solution for PET kinematic modeling. PMOD’s PCARD tool offers a comprehensive environment for the analysis of cardiac PET images, supporting static, dynamic and gated studies. Moreover, qualitative and quantitative CMR image analysis is being supported. PMOD’s expanding customer base comprises more than 500 sites worldwide. “Secure. Flexible. Accessible. ScImage’s PICOM365 Enterprise PACS delivers secure on-demand access to all patient images when and where you need them.

ScImage .................................................................................. 514
Whether you’re an independent practice with no internal IT support or a multi-hospital system with specific security requirements, PICOM365 offers options for on-premise, cloud and hybrid implementations across all imaging departments. Utilizing your existing cameras, ScImage’s PICOM365 Enterprise PACS offers tight integration with two leading nuclear cardiology quantification software solutions. Image sharing, structured reporting and comprehensive analytics optimize your departmental workflows. Learn more at www.scimage.com.”

Siemens Healthineers .............................................................. 313
Siemens Healthineers is committed to becoming the trusted partner of healthcare providers worldwide, enabling them to improve patient outcomes while reducing costs. Driven by our long legacy of engineering excellence and our pioneering approach to developing the latest advancements, we are a global leader in medical imaging, laboratory diagnostics, clinical IT, and services. Siemens Healthineers is dedicated to helping our partners be successful – clinically, operationally and financially – from prevention through diagnosis and treatment. To learn more about Siemens Healthineers, please visit usa.siemens.com/Healthineers.

Southwestern Imaging Systems and Service ........................ 421
We started Southwestern Imaging Systems & Service (SWISS) in 2002 with the singular goal of being a reliable and trustworthy provider of sales and services to the medical imaging field. Through the years, we have built a team of experienced imaging equipment engineers, technicians and support personnel that is committed to meeting the changing demands of our customers. We strive to offer affordable diagnostic equipment and support services to meet those demands.

Our goal is to ensure customers are treated equitably. We charge competitive rates for our services and never push services, packages or equipment that are not the right fit for your organization or operation. We have built SWISS for the long term, with customer relationships developed based on responsiveness, integrity and mutual respect.

We service a wide range of imaging equipment on a contract basis, ensuring system availability and long-term reliability. We also supply the parts needed by our customers and offer a selection of refurbished imaging equipment for purchase. For service, parts and imaging equipment sales, we focus on the following: MRI, PET-CT, Cardiac PET, Nuclear Medicine, Nuclear Cardiology. At SWISS, we understand the “one size fits all” approach other OEMs and providers take is often not consistent with the unique, individualized needs of our customers. Instead of forcing our customers to work “our way,” we provide products and services in a way that work for you.

Spectrum Dynamics Medical ............................................... 200
Spectrum Dynamics Medical revolutionized the practice of nuclear cardiology with the 1st clinical & commercially available CZT imaging scanner.

The D-SPECT® and D-SPECT-L™ nuclear cardiology imaging systems dramatically enhances image quality, improves workflow, allows the ability to reduce radiation exposure by implementing unique low dose protocols and provides the platform for advanced imaging protocols, i.e. Dynamic SPECT and Simultaneous Multi Isotope.

For more information, visit www.spectrum-dynamics.com or call 1-941-256-3660. Please visit us at Booth 200.
Syntermed, Inc. ................................................................. 414
Syntermed, Inc., an Atlanta-based imaging and informatics software company, is a global leader in providing cardiac and neuro solutions for SPECT and PET. Its solutions power over 50% of the nuclear medicine departments worldwide. Signature products include Emory Toolbox™, Syntermed Live™, Syntermed IDS™, SmartReport™, Synctools™, Adreview™ Tools, PETools™, Flowtool™ and NeuroQ™. Syntermed software is compatible with virtually any nuclear medicine workstation or PC/MAC that supports Microsoft® Windows® operating systems and is available direct or from leading OEMs, PACs vendors, and Systems Integrators. Please join us in booth 414 to learn more about how to use MPI LV Dysynchrony tools to guide CRT, plus QC tools specific for measuring blood flow. For more information email info@syntermed.com, visit www.syntermed.com, or call 888.263.4446.

Triad Isotopes .......................................................... 401
AT TRIAD ISOTOPES, NUCLEAR PHARMACY ISN’T JUST OUR CORE BUSINESS, IT’S OUR ONLY BUSINESS. Triad Isotopes is proud of our reputation for outstanding service, which has helped us become the second-largest and fastest-growing radiopharmaceutical specialist in the country. We are proud of the relationships we have with thousands of hospitals, physicians and nuclear medicine providers nationwide that consider us partners in delivering their patients the custom solutions they rely on for diagnosis and treatment. With nearly 30 years of experience in preparing radioisotopes, Triad Isotopes delivers customized solutions and industry expertise that consistently exceed our customers’ expectations. We also offer choice. Our open formulary allows clinicians to select their preferred agents to achieve the highest patient benefit. Today, our 54 locations nationwide serve over 4 million patients annually. To discover more, visit us at www.tradisotopes.com*

Wolters Kluwer .............................................................. 424
Wolters Kluwer Health company is a leading international publisher of medical books, journals, and electronic media. We proudly offer specialized publications and software for physicians, nurses, students and clinicians. Please visit our booth to browse our comprehensive product line.

UltraSPECT, Inc. ......................................................... 225
UltraSPECT Inc. is a leading provider of image reconstruction solutions that support safer and faster imaging in nuclear cardiac and oncology exams, with better diagnostic capabilities. At a fraction of the cost of a brand new camera, Xpress.Cardiac™, Xpress3.Cardiac™ and Xpress/Xact.Bone™ provide value to physicians, technologists, patients, administrators and radiopharmaceutical suppliers.

The proprietary, innovative Wide-Beam Reconstruction (WBR™) image processing algorithm addresses the clinical need for significant reduction in injection dose and shortened scan times, boosting patient safety, throughput and comfort. Healthcare facilities of all sizes maximize value from the ability to leverage the investment in existing nuclear medicine cameras and processing stations—regardless of the manufacturer, model and age. Moreover, UltraSPECT solutions enable healthcare facilities to meet the American Society of Nuclear Cardiology (ASNC) low-dose guidelines. UltraSPECT image reconstruction products are approved by the FDA, as well as numerous regulatory authorities in Europe and Asia. For more information, visit www.ultraspect.com or call 1-888-WBR-SCAN (1-888-927-7226).
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Houston, TX

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Duarte, CA

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Buffalo, NY

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St. Luke’s Mid America Heart Institute  
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Pledge your gift to The ASNC Fund and support the Institute for the Advancement of Nuclear Cardiology (IANC) today!

The mission of the IANC is to advance the field of nuclear cardiology through the support of research and innovation, promoting the continued development of the essential disciplines, and patient education.

The IANC will award the first research grant of $50,000 in 2018. Please do your part to support innovative, patient-centric research and education in the field of nuclear cardiology.

All gifts make a difference! Pledge forms are available at the ASNC Booth located in the Expo Foyer.

Gifts are 100% tax deductible.
Industry Sponsored Satellite Symposia

These activities are not part of the official ASNC2017 Annual Scientific Session as planned by the Program Committee.

Friday, September 15, 2017

Lunch and Learn
12:15 – 1:15 p.m.  |  New York
D-SPECT + CFR = NOW

FACULTY:
Josh Gurewitz, VP, Sales & Marketing Spectrum Dynamics Medical
Professor Denis Agostini, M.D., PhD, Head of Nuclear Medicine
Department Université Hôpital Caen-Normandie Caen, France
Dr. Alejandro H. Meretta, Chief of Nuclear Cardiology, Instituto Cardiovascular de Buenos Aires Buenos Aires, Argentina

Presented by Spectrum Dynamics

Lunch and Learn
12:15 – 1:15 p.m.  |  Atlanta
Introducing the Philips CardioMD IV

FACULTY:
Raffi Kayayan, PhD, Senior Manager, Product Marketing Advanced Molecular Imaging, Philips

Presented by Philips

Evening Satellite
6:30 – 7:45pm  |  New York
Imaging Flow Using Cardiac Pet: How And Why

FACULTY:
Hein J. Verberne, MD, PhD Associate Professor, Academic Medical Center, University of Amsterdam

PET-guided Interventional Physiology

FACULTY:
Nils P. Johnson, MD, MS, Associate Professor, Cardiovascular Medicine at UT Health, The University of Texas Health Science Center at Houston, McGovern Medical School

Presented by Ionetix

Saturday, September 16, 2017

Breakfast Satellite
6:30 – 7:55am  |  Chicago AB
Adding New Clinical Value to Nuclear Cardiology Procedures

FACULTY:
David Cooke, MSEE, Emory University
Kenneth Nichols, PhD, Long Island Jewish Health System
Ernest Garcia, PhD, Emory University

Presented by Syntermed

Lunch and Learn
12:15 – 1:15 p.m.  |  Atlanta
PET Gatekeeper Guided Revascularization of Severely Reduced Coronary Flow Capacity Significantly Lowers MI and Death But Not For Mild to Moderate Perfusion Abnormalities

FACULTY:
K. Lance Gould, MD, SNM, Professor of Cardiovascular Medicine and Executive Director, Weatherhead P.E.T. Center For Preventing and Reversing Atherosclerosis, McGovern Medical School, University of Texas - Houston

Presented by Bracco

Lunch and Learn
12:15 – 1:15 p.m.  |  New York
Advances in Nuclear Cardiology: From Injection to Imaging

FACULTY:
Manuel D. Cerqueira, MD, MASNC Cleveland Clinic Lerner College of Medicine, Cleveland Clinic
Terrence D. Ruddy, MD, FASNC University of Ottawa Heart Institute
Marcelo F. Di Carli, MD Brigham and Women’s Hospital

Presented by GE Healthcare
In 1989, Bracco was the first to invest heavily in cardiac PET MPI, and the legacy of excellence and service continues today.

- Team of locally based, accessible clinical and account specialists, many with extensive experience using CardioGen-82® (Rubidium Rb 82 Generator), supports you every step of the way.
- Carefully developed and robust training protocols help you safely manage your patients.
- Reimbursement professionals offer dedicated support, saving time for staff and patients.

CardioGen-82 (Rubidium Rb 82 Generator): Generating confidence in cardiac PET for more than 25 years.

Visit www.cardiogen.com or call 1-877-BRACCO-9 (1-877-272-2269) to find out what hundreds of cardiac care facilities and prestigious teaching institutions already know: We are Cardiac PET.™

IMPORTANT SAFETY INFORMATION:

WARNING: UNINTENDED STRONTIUM-82 (Sr-82) AND STRONTIUM-85 (Sr-85) RADIATION EXPOSURE

Unintended radiation exposure occurs when the levels of Sr-82 or Sr-85 in the rubidium Rb 82 chloride injection exceed specified limits [see Warnings and Precautions (5.1)].

Perform generator eluate tests:
1) Record each generator eluate volume, including waste and test volumes, and keep a record of the cumulative eluate volume [see Dosage and Administration (2.4)].
2) Determine Rb-82, Sr-82, Sr-85 levels in the eluate:
   ○ Once daily, prior to any drug administrations, and
   ○ At additional daily tests after detection of an Alert Limit. Alert Limits are:
     - 14 L for the generator’s cumulative eluate volume, or
     - An eluate Sr-82 level of 0.002 μCi/mCi Rb-82, or
     - An eluate Sr-85 level of 0.02 μCi/mCi Rb-82.
   Perform the additional daily tests at time points determined by the day’s elution volume; tests are performed every 750 mL [see Dosage and Administration (2.5)].
3) Stop use of a generator at an Expiration Limit of:
   ○ 17 L for the generator’s cumulative eluate volume, or
   ○ 42 days post generator calibration date, or
   ○ An eluate Sr-82 level of 0.01 μCi/mCi Rb-82, or
   ○ An eluate Sr-85 level of 0.1 μCi/mCi Rb-82 [see Dosage and Administration (2.6)].

Pharmacologic induction of cardiovascular stress may be associated with serious adverse events such as myocardial infarction, arrhythmia, hypotension, bronchoconstriction, and cerebrovascular events. Perform pharmacologic stress testing in accordance with the pharmacologic stress agent’s prescribing information and only in the setting where cardiac resuscitation equipment and trained staff are readily available.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/safety/medwatch, or call 1-800-FDA-1088.

Please consult brief summary of the full Prescribing Information for CardioGen-82 (Rubidium Rb 82 Generator) including boxed WARNING on previous page.

CardioGen-82 (Rubidium Rb 82 Generator) is manufactured for Bracco Diagnostics Inc., Monroe Township, NJ 08831, by GE Healthcare, Medi-Physics, Inc., South Plainfield, NJ 07080

CardioGen-82 is a registered trademark of, and We are Cardiac PET is a trademark of, Bracco Diagnostics Inc.

Bracco Diagnostics Inc., 259 Prospect Plains Road, Building H, Monroe Township, NJ 08831 USA

Phone: 609-514-2200 | Toll Free: 1-877-272-2269 (U.S. only) | Fax: 609-514-2446

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For Positron Emission Tomography Myocardial Perfusion Imaging

Nuclear Medicine Suite

In 1989, Bracco was the first to invest heavily in cardiac PET MPI, and the legacy of excellence and service continues today.

£ Team of locally based, accessible clinical and account specialists, many with extensive experience using CardioGen-82® (Rubidium Rb 82 Generator), supports you every step of the way.

£ Carefully developed and robust training protocols help you safely manage your patients.

£ Reimbursement professionals offer dedicated support, saving time for staff and patients.

The individuals shown are for illustrative purposes only. All persons depicted are models and not real patients/physicians.

Being first matters.

CardioGen-82 (Rubidium Rb 82 Generator): Generating confidence in cardiac PET for more than 25 years.

CardioGen-82 (Rubidium Rb 82 Generator) is a closed system used to produce rubidium Rb 82 chloride injection for intravenous administration. Rubidium Rb 82 chloride injection is indicated for Positron Emission Tomography (PET) imaging of the myocardium under rest or pharmacologic stress conditions to evaluate regional myocardial perfusion in adult patients with suspected or existing coronary artery disease.

IMPORTANT SAFETY INFORMATION:

WARNING: UNINTENDED STRONTIUM-82 (Sr-82) AND STRONTIUM-85 (Sr-85) RADIATION EXPOSURE

Unintended radiation exposure occurs when the levels of Sr-82 or Sr-85 in the rubidium Rb 82 chloride injection exceed speciﬁed limits [see Warnings and Precautions (5.1)].

Perform generator eluate tests:

1) Record each generator eluate volume, including waste and test volumes, and keep a record of the cumulative eluate volume [see Dosage and Administration (2.4)].

2) Start imaging 60-90 seconds after completion of the stress, use the dose of injected stress-only dose of rubidium Rb 82 chloride injection (cumulative eluate volume of <10 mL).

3) Stop use of a generator at an Expiration Limit. If Sr-82 or Sr-85 levels exceed the Sr-82 or Sr-85 Alert Limits then the generator must be stopped immediately and the generator eluate tests must be performed.

4) Use Table 2 to calculate the decay factor for Rb-82.

5) Use Table 2 to calculate the efﬁcient dose for the next daily eluate test.

6) Use Table 1 to calculate the decay factor for Rb-82.

7) Use Table 1 to calculate the efﬁcient dose for the next daily eluate test.

8) Use a correction factor (F) of 0.478 to compensate for the contribution of Sr-82 to Sr-85.

9) Calculate the sum of Sr-82 and Sr-85 in the sample using the following equation:

   Sr-82 + Sr-85 = Rb-82 x F

10. Determine if Sr-82 in the eluate exceeds an Alert Limit or Expiration Limit by dividing the Sr-82 value by the Alert Limit or Expiration Limit [see Table 1 and Table 2 below for further details based on the Sr-82 Alert Limit and Sr-82 Expiration Limit].

If Sr-82 levels exceed the Sr-82 Alert Limit of 0.0004 mCi/mCi Rb-82 the test must be repeated.

If Sr-82 levels exceed the Sr-82 Expiration Limit of 0.0478 mCi/mCi Rb-82, the test must be repeated.

11. Determine if Sr-85 in the eluate exceeds an Alert Limit or Expiration Limit by multiplying the result obtained in step 10 by Sr-85 correction factor [see Table 1 and Table 2 below].

Example: 0.0004 mCi/mCi Rb-82 x 0.478 (Sr-85 correction factor) = 0.000195 mCi/mCi Sr-85.

Use Table 1 to calculate the decay factor for Sr-85.

Cardiac Stress Test:

Stress Free

Table 1: Physical Decay Characteristics (% half-life 75-75 seconds)

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<th>% Remaining</th>
<th>% Remaining</th>
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</tr>
</tbody>
</table>

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Phone: 609-514-2200  | Toll Free: 1-877-272-2269 (U.S. only)  | Fax: 609-514-2446
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MEET AUGIE

Everyone who knows Augie also knows that he’s a hopeless romantic. He’s the guy who asked his wife to marry him twice. The guy who does everything with love—whether it’s washing his truck in the driveway on a sunny day or taking out the trash. The guy who has a romantic affinity for spicy food. What everyone doesn’t know—including Augie—is that his heartburn after those ultra-spicy tacos isn’t really heartburn. It’s chest pain.

Step into Augie’s world at Astellas Booth 312 at ASNC2017. There, you’ll find resources that can help benefit patients with big hearts like Augie.