ASNC 2018
Annual Scientific Session
American Society of Nuclear Cardiology
September 6-9, 2018
San Francisco, California
San Francisco Marriott Marquis

FINAL PROGRAM

BRIDGING QUALITY IMAGING AND PATIENT CARE
RUBY-FILL® (Rubidium Rb 82 Generator) and RUBY Rubidium Elution System

Elution Evolution

See for yourself at BOOTH #217

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.

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.

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**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 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.

References:

RUBY-FILL® is a registered trademark used under license by Jubilant DraxImage, Inc.
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R. Glenn Wells, PhD

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www.asnc.org/ASNC2018
• More than 50 years of TechneLite® generator manufacturing expertise

• TechneLite® represents our “5th generation” of dry-column technetium-99m generator manufacturing advances

• 100% Assay and Mo-99 breakthrough testing

• 100% terminal sterilization following filling and in-process test elutions

• 0% Sterility Assurance failure

• Lantheus Medical Imaging was the first U.S. generator manufacturer to obtain FDA approval to use Low Enriched Uranium (LEU)-sourced Mo-99 in our TechneLite® generator on June 25, 2009

• Lantheus Medical Imaging was the first to manufacture and ship a Center for Medicare and Medicaid Services (CMS) compliant LEU technetium-99m generator (TechneLite®) on January 7, 2013

Please visit [www.Lantheus.com](http://www.Lantheus.com) or [www.TechneLite.com](http://www.TechneLite.com) for more information, including Indications and Important Safety Information, and full Prescribing Information.

REFERENCES:
CHAIR'S WELCOME

Dear Colleagues,

What a pleasure it is to welcome you to ASNC2018! I have the honor of unveiling the Final Program for our Annual Scientific Session and the very special celebration of our Society's 25th anniversary. Please join me in thanking my co-chair Dr. Panithaya Chareonthai-wee, the Program Committee, our excellent faculty and ASNC's dedicated staff for building a unique educational event that combines ASNC's longtime traditions with many new, outside-the-box innovations.

We are fortunate to have four days to gather as a community to learn, collaborate and celebrate together. I urge you to take advantage of this time and to participate fully in the program's many facets. Engage with your feet, your hands, your head and your voice. Attend the plenary sessions to get energized about the future of our field. Mix and match sessions from all ten tracks. Speak up and share your questions as well as the challenges you grapple with and the solutions you've tried.

We are offering more hands-on learning opportunities than ever before. Roll up your sleeves and really participate, in both the sessions and the Expo. Try out the workstations and see how they feel. Join ASNC past presidents and your colleagues for Walk and Learn tours in our wonderful host city of San Francisco. And, by all means, kick up your heels at ASNC's 25th Anniversary Party on Friday evening.

I want you to know that every single aspect of ASNC2018 has been planned to deliver a personalized, real-world, collaborative experience for you. I hope you'll enjoy it and join us next year in Chicago.

Sharmila Dorbala, MD, MPH, FASNC
ASNC2018 Program Chair

PRESIDENT'S WELCOME

I am delighted and excited to welcome you to ASNC 2018 in beautiful San Francisco. We are honored to have you all with us as we celebrate the important milestone of our 25th anniversary.

Sharmila Dorbala and her committee have designed an innovative and creative program that will engage and educate. Please take advantage of all the opportunities to interact and collaborate with experts, peers, patients and innovators. And be sure to catch this year's Mario Verani Lecture by Dr. Kim Williams, a visionary thought-leader and compassionate physician-scientist.

Thank you for your attendance and support all year-round. We would also like to thank our industry partners for their contributions, I invite you to visit them in the Exhibit Hall to learn about the latest advances in imaging hardware and software.

The vibrant city of San Francisco is sure to provide the weather, ambience, food and drink for a perfect meeting.

Enjoy!

Prem Soman, MD, PhD, FASNC
2018 ASNC President
American Society of Nuclear Cardiology would like to thank the International Atomic Energy Agency for their second year of generous support of live streaming of ASNC’s annual scientific sessions.

ASNC2018 Live Streaming sessions will be broadcast to physicians and technologists in developing countries.

Celebrat! ASNC’s 25th Anniversary Party

FRIDAY, SEPTEMBER 7
6:30 – 11:00 pm
Casual attire
Tickets $125 per person
Your $125 ticket includes:
Dinner | Complimentary Drinks | Entertainment
T-Shirt | Door Prize Drawings

Featuring music from the Thallium Stallions
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
- **Abstracts of original investigation** programmed as poster and e-poster presentations
- **Sessions offering Maintenance of Certification points**
- **Commercial exhibits** displaying the latest in nuclear cardiology technology and services
- **Cost-related information** in the practice and business of nuclear cardiology
- **Cases with the Aces** with experts demonstrating how to read a scan with vendor software
- **Opportunities to convene and interact** with experts in all aspects of nuclear cardiology and cardiovascular 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. ASNC2018 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.

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 27* 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 credit is accepted by both NMTCB and ARRT. ASNC2018 has been approved for a maximum of 23.5* 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.

MAINTENANCE OF CERTIFICATION CREDITS

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 20.5* Maintenance of Certification (MOC) points in the American Board of Internal Medicine (ABIM) MOC program. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

*Subject to Change
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, moderators, 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.

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.

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 CT coronary angiography cases and recognize its value and limitations in clinical cardiology

Acknowledgement of Commercial Support

This activity is supported by educational grants from Pfizer and Advanced Accelerator Applications, a Novartis Company.

PROGRAM TRACKS

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

**PL**  
Plenary  
Sessions will include keynote presentations from leaders in the field covering areas such as new technology, and emerging clinical applications in nuclear cardiology.

**A/R**  
Abstracts/Research  
To include poster and oral abstract presentations, young investigator oral presentations, and sessions geared toward how to get your cardiovascular imaging research published.

**A**  
Advanced  
Learn about cutting edge nuclear cardiology advances with a focus on clinical applications for these innovations.

**I**  
Imaging-based Case Management (formerly RWTE)  
Learn from master clinicians in cardiology about how they use imaging to manage patients with complex cardiovascular diseases. Audience interaction is available.

**CA**  
Cases with the Aces: Interactive Reading  
Small group sessions with faculty from premier nuclear cardiology training programs focused on scan interpretation using commercial software to simulate day to day imaging reading room experience. Audience participation is required.

**MI**  
Intersocietal Multimodality Imaging  
Learn about intersocietal-societal guidelines in nuclear cardiology and their clinical application to deliver optimal care to patients. Patient perspective is included.

**P**  
PET  
These sessions will offer a broad-based review of the clinical value of cardiac PET and its applications.

**S/O**  
Special (non-track) Sessions  
These unique sessions offer the latest applications of machine learning in imaging, ethical considerations, educational walking tours, physician well-being.

**T-B**  
Team-based Learning (formerly Core)  
Learn from global nuclear cardiology teams about creative solutions to practical day to day problems in clinical practice. Submit your questions to get answers to day-to-day nuclear cardiology problems. These sessions are geared for the entire nuclear cardiology imaging team.

**TT**  
Technology and Techniques  
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.

**SL**  
Simulation Laboratories  
Hands on sessions in the exhibit hall focused on practical aspects of PET and SPECT imaging including scanner selection, scanner quality assurance, generator elution, quantitative software use and more. These sessions are geared for the entire nuclear cardiology imaging team.
<table>
<thead>
<tr>
<th><strong>AR</strong> ABSTRACTS</th>
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<tbody>
<tr>
<td>Thu. 141 - Rapid Fire ePosters</td>
<td>6:15 pm</td>
<td>7:15 pm</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>Thu. 142 - Poster Session I: National and International Perspectives in Cardiac SPECT Imaging</td>
<td>6:15 pm</td>
<td>7:15 pm</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>Fri. 205 - ePoster Session I: PET Myocardial Blood Flow</td>
<td>9:30 am</td>
<td>10:30 am</td>
<td>Salon Foyer</td>
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<tr>
<td>Fri. 206 - Poster Session II: Innovations in SPECT Imaging</td>
<td>9:30 am</td>
<td>10:30 am</td>
<td>Expo Hall</td>
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<tr>
<td>Fri. 220 - Young Investigator Competition-Basic Science</td>
<td>12:00 pm</td>
<td>1:30 pm</td>
<td>Salon 10</td>
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<tr>
<td>Fri. 232 - ePoster Session II: New SPECT Technologies</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Salon Foyer</td>
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<tr>
<td>Fri. 233 - Poster Session III: New Horizons in Cardiovascular Infection/Inflammation Imaging</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>Fri. 234 - Poster Session IV: Advances in Myocardial Blood Flow Assessment: PET and SPECT</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Expo Hall</td>
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<tr>
<td>Sat. 305 - ePoster Session III: Inflammation Imaging</td>
<td>9:30 am</td>
<td>10:30 am</td>
<td>Salon Foyer</td>
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<tr>
<td>Sat. 306 - ePoster Session IV: PET Perfusion: General</td>
<td>9:30 am</td>
<td>10:30 am</td>
<td>Salon Foyer</td>
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<tr>
<td>Sat. 320 - Young Investigator Competition-Clinical</td>
<td>12:00 pm</td>
<td>1:30 pm</td>
<td>Salon 10</td>
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<tr>
<td>Sat. 332 - ePoster Session V: SPECT Diagnosis and Prognosis</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>Sat. 333 - Poster Session V: New Developments in Cardiac PET</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Expo Hall</td>
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<tr>
<td>Sat. 334 - Educational Abstracts</td>
<td>3:15 pm</td>
<td>4:15 pm</td>
<td>Salon Foyer</td>
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<tr>
<th><strong>A</strong> ADVANCED</th>
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<tbody>
<tr>
<td>Fri. 221 - Expanding the Horizon</td>
<td>1:45 pm</td>
<td>3:15 pm</td>
<td>Salon 2</td>
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<tr>
<td>Sat. 312 - Imaging to Guide Therapy</td>
<td>10:30 am</td>
<td>12:00 pm</td>
<td>Salon 2</td>
</tr>
<tr>
<td>Sat. 341 - What’s New in Instrumentation</td>
<td>4:15 pm</td>
<td>5:45 pm</td>
<td>Salon 2</td>
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<tr>
<th><strong>CA</strong> CASES WITH THE ACES</th>
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<tbody>
<tr>
<td>Fri. 213 - Cases from Brown University</td>
<td>10:30 am</td>
<td>12:00 pm</td>
<td>Juniper</td>
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<tr>
<td>Fri. 222 - Cases from Yale University</td>
<td>1:45 pm</td>
<td>3:15 pm</td>
<td>Juniper</td>
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<tr>
<td>Fri. 241 - PET-CFR Cases from Brigham &amp; Women’s</td>
<td>4:15 pm</td>
<td>5:45 pm</td>
<td>Juniper</td>
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<tr>
<td>Sat. 313 - Cases from the Ottawa Heart Institute</td>
<td>10:30 am</td>
<td>12:00 pm</td>
<td>Juniper</td>
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<tr>
<td>Sat. 321 - Cases from the Mayo Clinic</td>
<td>1:45 pm</td>
<td>3:15 pm</td>
<td>Juniper</td>
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<tr>
<td>Sat. 342 - Cases from Jefferson Heart Institute</td>
<td>4:15 pm</td>
<td>5:45 pm</td>
<td>Juniper</td>
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<thead>
<tr>
<th><strong>I</strong> IMAGING BASED CASE MANAGEMENT</th>
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<tbody>
<tr>
<td>Thu. 121 - Ischemic Heart Disease: Complex Cases</td>
<td>3:15 pm</td>
<td>4:45 pm</td>
<td>Salon 5</td>
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<tr>
<td>Fri. 214 - Heart Failure: Pump in a Slump</td>
<td>10:30 am</td>
<td>12:00 pm</td>
<td>Salon 5</td>
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<tr>
<td>Sat. 314 - Heart Disease in Women: The Heart Truth</td>
<td>10:30 am</td>
<td>12:00 pm</td>
<td>Salon 7</td>
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<tr>
<td>Sun. 411 - Chest Pain Evaluation (Multimodality): The Elephant on my Chest</td>
<td>8:45 am</td>
<td>10:15 am</td>
<td>Salon 5</td>
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<tr>
<th><strong>MI</strong> INTERSOCIETAL MULTIMODALITY IMAGING</th>
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<tbody>
<tr>
<td>Thu. 111 - What is New in CAC Scoring in 2018: Implications for Nuclear Cardiologists (Joint Session with SCCT)</td>
<td>1:30 pm</td>
<td>3:00 pm</td>
<td>Salon 5</td>
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<tr>
<td>Fri. 242 - Cardiac Sarcoidosis: Evolving Imaging Algorithms for an Evolving Disease</td>
<td>4:15 pm</td>
<td>5:45 pm</td>
<td>Salon 2</td>
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<tr>
<td>Sat. 322 - Multisocietal Consensus Recommendations on Imaging in Cardiac Amyloidosis Imaging</td>
<td>1:45 pm</td>
<td>3:15 pm</td>
<td>Salon 7</td>
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<tr>
<td>Sun. 412 - Multimodality Evaluation of Infective Endocarditis: Moving Beyond Echocardiography (Joint Session with ASE and EANM)</td>
<td>8:45 am</td>
<td>10:15 am</td>
<td>Salon 7</td>
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### Offsite Education

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<thead>
<tr>
<th>Day</th>
<th>Event Description</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Fri.</td>
<td>SF MOMA Walking Tour - Friday</td>
<td>10:15am</td>
<td>Offsite</td>
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<tr>
<td>Fri.</td>
<td>Taste of the City Tour - Friday</td>
<td>1:30 pm</td>
<td>Offsite</td>
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<tr>
<td>Sat.</td>
<td>SF MOMA Walking Tour - Saturday</td>
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### PET

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<th>Day</th>
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<tbody>
<tr>
<td>Thu.</td>
<td>Incorporating Myocardial Blood Flow Quantification with PET/CT into Practice</td>
<td>3:15 pm</td>
<td>Salon 10</td>
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<tr>
<td>Sat.</td>
<td>PET Controversies</td>
<td>1:45 pm</td>
<td>Salon 5</td>
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<tr>
<td>Sat.</td>
<td>When is PET a Better Choice than SPECT: A Case-based Session</td>
<td>4:15 pm</td>
<td>Salon 7</td>
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### Plenary

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<tr>
<th>Day</th>
<th>Event Description</th>
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<th>Location</th>
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<tbody>
<tr>
<td>Thu.</td>
<td>Welcome and Verani Lecture</td>
<td>5:00pm</td>
<td>Salon 5</td>
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<tr>
<td>Fri.</td>
<td>ASNC 25th Anniversary: Accomplishments, Recognition, and Moving Ahead</td>
<td>8:00am</td>
<td>Salon 7</td>
</tr>
<tr>
<td>Sat.</td>
<td>Towards Molecular Cardiovascular Medicine - Emerging Opportunities for Noninvasive Imaging</td>
<td>8:00am</td>
<td>Salon 7</td>
</tr>
<tr>
<td>Sun.</td>
<td>Frontiers in the Application of Nuclear Techniques</td>
<td>7:00am</td>
<td>Salon 7</td>
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### Policy

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<tr>
<th>Day</th>
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<th>Time</th>
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<tbody>
<tr>
<td>Thu.</td>
<td>Population Health and Health Policy</td>
<td>3:15 pm</td>
<td>Salon 2</td>
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### Special/Other

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<th>Day</th>
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<tbody>
<tr>
<td>Thu.</td>
<td>Physician Well-being and its Implications for Quality of Care</td>
<td>12:00 pm</td>
<td>Salon 5</td>
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<tr>
<td>Fri.</td>
<td>Ethics Session: RBMs and Physician Support Tools</td>
<td>10:30 am</td>
<td>Salon 2</td>
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<tr>
<td>Fri.</td>
<td>Contemporary Evaluation and Management of Cardiac Amyloidosis</td>
<td>1:45 pm</td>
<td>Salon 5</td>
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<tr>
<td>Fri.</td>
<td>Machine Learning, Medicine and Imaging</td>
<td>1:45 pm</td>
<td>Salon 7</td>
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<tr>
<td>Fri.</td>
<td>ImageGuide Registry: Supporting Change and Creating Value</td>
<td>4:15 pm</td>
<td>Salon 5</td>
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<tr>
<td>Sat.</td>
<td>ASNC Business Meeting</td>
<td>9:45 am</td>
<td>Salon 10</td>
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<tr>
<td>Sat.</td>
<td>Nuclear Cardiology Choosing Wisely Challenge</td>
<td>4:15 pm</td>
<td>Salon 5</td>
</tr>
</tbody>
</table>

### Team-Based Learning / Core

<table>
<thead>
<tr>
<th>Day</th>
<th>Event Description</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thu.</td>
<td>How to Optimize Your PET Lab</td>
<td>1:30 pm</td>
<td>Salon 2</td>
</tr>
<tr>
<td>Fri.</td>
<td>Best Practices to Optimize Radiation Dose (Joint Session with IAEA)</td>
<td>10:30 am</td>
<td>Salon 2</td>
</tr>
<tr>
<td>Fri.</td>
<td>How to Optimize your SPECT Lab: An Imaging Team Approach</td>
<td>4:15 pm</td>
<td>Salon 7</td>
</tr>
<tr>
<td>Sat.</td>
<td>Maximize Risk Assessment in Exercise Myocardial Perfusion Imaging</td>
<td>1:45 pm</td>
<td>Salon 2</td>
</tr>
</tbody>
</table>

### Technology & Techniques

<table>
<thead>
<tr>
<th>Day</th>
<th>Event Description</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri.</td>
<td>SPECT QA</td>
<td>3:15 pm</td>
<td>Salon 10</td>
</tr>
<tr>
<td>Sat.</td>
<td>The Importance of Quality in Nuclear Cardiology: Part 1</td>
<td>9:30 am</td>
<td>Salon 10</td>
</tr>
<tr>
<td>Sat.</td>
<td>The Importance of Quality in Nuclear Cardiology: Part 2</td>
<td>3:15 pm</td>
<td>Salon 10</td>
</tr>
</tbody>
</table>
# ASNC2018 Schedule by Time

## Thursday, September 6, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 pm</td>
<td>S/O 101 - Physician Well-being and its Implications for Quality of Care</td>
<td>Salon 5</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>MI 111 - What is new in CAC Scoring in 2018: Implications for Nuclear Cardiologists (Joint Session with SCCT)</td>
<td>Salon 5</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>T-B 112 - How to Optimize your PET Lab</td>
<td>Salon 2</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>I 121 - Ischemic Heart Disease: Complex Cases</td>
<td>Salon 5</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>P 122 - Incorporating Myocardial Blood Flow Quantification with PET/CT into Practice</td>
<td>Salon 10</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>PO 123 - Population Health and Health Policy</td>
<td>Salon 2</td>
</tr>
<tr>
<td>5:00 pm</td>
<td>PL 131 - Welcome and Verani Lecture</td>
<td>Salon 5</td>
</tr>
<tr>
<td>6:15 pm</td>
<td>A/R 141 - Rapid Fire ePosters</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>6:15 pm</td>
<td>A/R 142 - Poster Session I: National and International Perspectives in Cardiac SPECT Imaging</td>
<td>Expo Hall</td>
</tr>
</tbody>
</table>

## Friday, September 7, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>PL 201 - ASNC 25th Anniversary: Accomplishments, Recognition, and Moving Ahead</td>
<td>Salon 7</td>
</tr>
<tr>
<td>9:30 am</td>
<td>A/R 205 - ePoster Session I: PET Myocardial Blood Flow</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>9:30 am</td>
<td>A/R 206 - Poster Session II: Innovations in SPECT Imaging</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>10:15 am</td>
<td>OE 211 - SF MOMA Walking Tour - Friday</td>
<td>Offsite</td>
</tr>
<tr>
<td>10:30 am</td>
<td>S/O 212 - Ethics Session: RBMs and Physician Support Tools</td>
<td>Salon 2</td>
</tr>
<tr>
<td>10:30 am</td>
<td>CA 213 - Cases from Brown University</td>
<td>Juniper</td>
</tr>
<tr>
<td>10:30 am</td>
<td>I 214 - Heart Failure: Pump in a Slump</td>
<td>Salon 5</td>
</tr>
<tr>
<td>10:30 am</td>
<td>T-B 215 - Best Practices to Optimize Radiation Dose (Joint Session with IAEA)</td>
<td>Salon 7</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>A/R 220 - Young Investigator Competition-Basic Science</td>
<td>Salon 10</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>A 221 - Expanding the Horizon</td>
<td>Salon 2</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>CA 222 - Cases from Yale University</td>
<td>Juniper</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>S/O 223 - Contemporary Evaluation and Management of Cardiac Amyloidosis</td>
<td>Salon 5</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>S/O 224 - Machine Learning, Medicine and Imaging</td>
<td>Salon 7</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>OE 225 - Taste of the City Tour-Friday</td>
<td>Offsite</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>TT 231 - SPECT QA</td>
<td>Salon 10</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>A/R 232 - ePoster Session II: New SPECT Technologies</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>A/R 233 - Poster Session III: New Horizons in Cardiovascular Infection/Inflammation Imaging</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>A/R 234 - Poster Session IV: Advances in Myocardial Blood Flow Assessment: PET and SPECT</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>CA 241 - PET-CFR Cases from Brigham &amp; Women’s</td>
<td>Juniper</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>MI 242 - Cardiac Sarcoidosis: Evolving Imaging Algorithms for an Evolving Disease</td>
<td>Salon 2</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>T-B 243 - How to Optimize your SPECT Lab: An Imaging Team Approach</td>
<td>Salon 7</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>S/O 244 - ImageGuide Registry: Supporting Change and Creating Value</td>
<td>Salon 5</td>
</tr>
</tbody>
</table>
### SATURDAY, SEPTEMBER 8, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Towards Molecular Cardiovascular Medicine - Emerging Opportunities for Noninvasive Imaging</td>
<td>Salon 7</td>
</tr>
<tr>
<td>9:45 am</td>
<td>ASNC Business Meeting</td>
<td>Salon 10</td>
</tr>
<tr>
<td>9:30 am</td>
<td>ePoster Session III: Inflammation Imaging</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>9:30 am</td>
<td>ePoster Session IV: PET Perfusion: General</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>9:30 am</td>
<td>The Importance of Quality in Nuclear Cardiology: Part 1</td>
<td>Salon 10</td>
</tr>
<tr>
<td>10:15 am</td>
<td>ImageGuide SF MOMA Walking Tour - Saturday</td>
<td>Offsite</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Imaging to Guide Therapy</td>
<td>Salon 2</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Cases from the Ottawa Heart Institute</td>
<td>Salon 10</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Heart Disease in Women: The Heart Truth</td>
<td>Salon 7</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Young Investigator Competition-Clinical</td>
<td>Salon 10</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>Cases from the Mayo Clinic</td>
<td>Juniper</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>Multisocietal Consensus Recommendations on Imaging in Cardiac Amyloidosis Imaging</td>
<td>Salon 7</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>PET Controversies</td>
<td>Salon 5</td>
</tr>
<tr>
<td>1:45 pm</td>
<td>Maximize Risk Assessment in Exercise Myocardial Perfusion Imaging</td>
<td>Salon 2</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Taste of the City Tour-Saturday32</td>
<td>Offsite</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>The Importance of Quality in Nuclear Cardiology: Part 2</td>
<td>Salon 10</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>ePoster Session V: SPECT Diagnosis and Prognosis</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>ePoster Session V: New Developments in Cardiac PET</td>
<td>Expo Hall</td>
</tr>
<tr>
<td>3:15 pm</td>
<td>Educational Abstracts</td>
<td>Salon Foyer</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>What's New in Instrumentation</td>
<td>Salon 2</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>Cases from Jefferson Heart Institute</td>
<td>Juniper</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>When is PET a Better Choice than SPECT: A Case-based Session</td>
<td>Salon 7</td>
</tr>
<tr>
<td>4:15 pm</td>
<td>Nuclear Cardiology Choosing Wisely Challenge</td>
<td>Salon 5</td>
</tr>
</tbody>
</table>

### SUNDAY, SEPTEMBER 9, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am</td>
<td>Frontiers in the Application of Nuclear Techniques</td>
<td>Salon 7</td>
</tr>
<tr>
<td>8:45 am</td>
<td>Chest Pain Evaluation (Multimodality): The Elephant on my Chest</td>
<td>Salon 5</td>
</tr>
<tr>
<td>8:45 am</td>
<td>Multimodality Evaluation of Infective Endocarditis: Moving Beyond Echocardiography (Joint Session with ASE and EANM)</td>
<td>Salon 7</td>
</tr>
</tbody>
</table>

### EXPO HALL ACTIVITIES

**THURSDAY, SEPTEMBER 6**
- 6:00 PM – 7:30 PM  Welcome Reception

**FRIDAY, SEPTEMBER 7**
- 9:30 AM – 10:30 AM  Coffee Break  
- 12:00 PM – 12:30 PM  Coffee Break  
- 1:15 PM – 1:45 PM  Dessert Break and Wine Gift Pack Drawing*  
  *Must be present to win
- 3:15 PM – 4:15 PM  Appreciation Reception hosted by ASNC President Prem Soman, MD Networking Lounge  
  Drinks and hors d’oeuvres

**SATURDAY, SEPTEMBER 8**
- 9:30 AM – 10:30 AM  Coffee Break  
- 12:00 PM – 12:30 PM  Expo Hall closed  
- 1:15 PM – 1:45 PM  Dessert Break and Wine Gift Pack Drawing*  
  *Must be present to win
- 3:15 PM – 4:15 PM  Happy Hour and Meet & Greet with ASNC leadership Networking Lounge  
  Drinks and hors d’oeuvres
SAVE THE DATE
CHICAGO
SEPTEMBER 12 – 15
THURSDAY, SEPTEMBER 6, 2018

1 – 2 PM | Salons 10

GE HEALTHCARE DESSERT SESSION
Realizing the current and future potential of myocardial perfusion imaging: The right test for the right patient

Faculty:
Manuel Cerqueira, MD (Chair)
Hein Verberne, MD
Marcelo Di Carli, MD

FRIDAY, SEPTEMBER 7, 2018

6:30 – 7:45 AM | Salon 10

GE HEALTHCARE/SYNTERMED BREAKFAST WORKSHOP
Adding Clinical Value to Nuclear Cardiology Procedures

Faculty:
Ernest V Garcia, PhD – Moderator
Teresa Massardo, MD
Paolo Raggi, MD, FACC, FASNC
Valeria Moncayo, MD

12 – 1:15 PM | Golden Gate Ballroom

JUBILANT DRAXIMAGE LUNCH & LEARN
The Clinical Advantage of RUBY-FILL® for Cardiac Rb-82 PET

Faculty:
Howard C. Lewin, MD FACC FASNC, Medical Director, Positron Imaging Partners

SATURDAY, SEPTEMBER 8, 2018

6:30 – 7:45 AM | Golden Gate Ballroom
Full breakfast will be served at 6:00 am

PFIZER BREAKFAST WORKSHOP
Nuclear imaging to diagnose ATTR cardiac amyloidosis: Ready for clinical practice?

12 – 1:15 PM | Golden Gate Ballroom

BRACCO DIAGNOSTICS INC. LUNCH & LEARN
Quantitative PET for artery specific or subendocardial ischemia, interventions and microvascular disease

Faculty:
K. Lance Gould, MD

6:30 PM – 8:30 PM | Salon 7

IMPLEMENTING A CARDIAC PET PROGRAM – THE WHY’S AND HOW TO’S
Developed by the ASNC Cardiovascular PET Taskforce
Hear from those who have started programs on how PET demonstrates value. Learn how to make it work in a live setting.

Moderators:
Gary V. Heller, MD, PhD, MASNC
Manuel D. Cerqueira, MD, MASNC
Timothy M. Bateman, MD, MASNC

Panelists:
Danny Basso, CNMT
James Case, PhD
John Fisher, MD
Sanjay Malhotra, MD
David Min, MD
Karen Quinn, RN, BSN, MS
Patrick White, MPH

Industry Session Moderator:
Andrew Ono, MBA, CNMT, PET/CT Product Manager – USA, Siemens Healthineers

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Jubilant DraxImage Inc.
Molecular Imaging Services, Inc.

Supporter:
Bracco Diagnostics Inc.

These sessions are not part of the official ASNC2018 Annual Scientific Session as planned by the Program Committee. *Check mobile app for updates on topics.
ASNC EDUCATION

THURSDAY, SEPTEMBER 6, 2018

12:00 PM – 1:00 PM

S/O SPECIAL

Session 101
Physician Well-being and its Implications for Quality of Care
Location: Salon 5  CME/MOC: 1.0; CE: 1.0
Moderator: Sharmila Dorbala, MD, FASNC
Finding Meaning, Balance and Professional Fulfillment in the Practice of Medicine
Tait D. Shanafelt, MD

1:30 PM – 3:00 PM

MI INTERSOCIETAL MULTIMODALITY IMAGING

Session 111
What is New in CAC Scoring in 2018: Implications for Nuclear Cardiologists (Joint Session with SCCT)
Location: Salon 5  CME/MOC: 1.5; CE: 1.25
Moderators: Ron Blankstein, MD, FASNC; L. Samuel Wann, MD

1:30 PM  Update on Use of CAC Scoring in Preventive Cardiology
Leslee J. Shaw, PhD, MASNC

1:50 PM  How to Manage Patients with Elevated CAC Score ... When is Further Testing Needed
Ron Blankstein, MD, FASNC

2:10 PM  Role of CAC Testing in Low Risk Chest Pain Patients
Khurram Nasir, MD, MPH

2:30 PM  What is the Role of Adding CAC to SPECT and PET Myocardial Perfusion Imaging
John J. Mahmarian, MD, MASNC

2:50 PM  Discussion

T/B TEAM-BASED LEARNING

Session 112
How to Optimize your PET Lab
Location: Salon 2  CME/MOC: 1.5; CE: 1.25
Moderators: Mouaz H. Al-Mallah, MD, MSc, FASNC; April Mann, MBA, CNMT, RT(N), NCT, FASNC

1:30 PM  Patient Selection to Leverage Advantages of Cardiac PET
Mark C. Hyun, CNMT, NCT, RT(N)(R), FASNC

1:50 PM  How to Approach Incidental Findings in Cardiac PET
Maria G. Sciammarella, MD

2:10 PM  Recognition of PET Artifacts
Robert Bober, MD

2:30 PM  Cardiac PET Protocols: Experience from Diverse Practices
Manuel D. Cerqueira, MD, MASNC

2:50 PM  Discussion

3:15 PM – 4:45 PM

I IMAGING BASED CASE MANAGEMENT (RWTE)

Session 121
Ischemic Heart Disease: Complex Cases
Location: Salon 5  CME/MOC: 1.5 ; CE: 1.0
Moderator: W. Lane Dutvall, MD
Panelists: Fadi G. Hage, MD, FASNC; Leslie Cho, MD

3:15 PM  The High Risk/Complex CAD Patient
• Case Presenter - John Wells Askew, MD, FASNC
• Imaging Discussant - Nils P. Johnson, MD
• Panel Discussion

3:45 PM  The Obese Patient with Suspected CAD
• Case Presenter - Ibrahim M. Saeed, MD
• Imaging Discussant - Dennis A. Calnon, MD, MASNC
• Panel Discussion

4:15 PM  The Patient Presenting Late After an MI:
• Case Presenter - Niti R. Aggarwal, MD, FASNC
• Imaging Discussant – Edwin Wu, MD
• Panel Discussion

P PET

Session 122
Incorporating Myocardial Blood Flow Quantification with PET/CT into Practice
Location: Salon 10  CME/MOC: 1.5; CE 1.25
Moderators: Terrence D. Ruddy, MD; Heinrich R. Schelbert, MD, PhD

3:15 PM  How do I Know the Number is Right - Technical Aspects
Robert A. deKemp, PhD

3:35 PM  When and How to Report Myocardial Blood Flow
Timothy M. Bateman, MD, MASNC

3:55 PM  PET MBF and CAC score: Complementary or Contradictory?
Ron Blankstein, MD, FASNC

4:15 PM  FFR, iFR, MFR - Do They all Provide the Same Information?
Nils P. Johnson, MD

4:35 PM  Discussion

PO POLICY

Session 123
Population Health and Health Policy
Location: Salon 2  CME/MOC: 1.5; CE: 1.25
Moderator: David G. Wolinsky, MD, MASNC

3:15 PM -  AUC-Implementation and Advocacy Efforts
David E. Winchester, MD, FASNC

3:35 PM  MIPS/MACRA Year Three Changes
William A. Van Decker, MD, MASNC
3:55 PM  Legislative Update and the ASNC Agenda  
Camille S. Bonta

4:15 PM  Incorporating New Technology in Nuclear Cardiology  
Julius Torelli, MD

4:35 PM  Discussion

5:00 PM – 6:00 PM  

**PLENARY**

Session 131  
**Welcome and Verani Lecture**

Location: Salon 5  
CME/MOC: 1.0; CE: 1.0

Moderator: Prem Soman, MD, PhD, FASNC

5:00 PM  ASNC Welcome  
President Prem Soman, MD, PhD, FASNC

5:05 PM  ASNC2018 Program Chair Welcome  
Sharmila Dorbala, MD, FASNC

5:10 PM  Presentation of 2018 Research Fellowship Award  
to Krishna Patel, MBBS

5:15 PM  Introduction of Verani Lecturer  
Timothy M. Bateman, MD, MASNC

5:20 PM  Mario Verani Lecture: Imaging in the Assessment of Preventive Cardiology  
Kim A. Williams Sr., MD, MASNC

6:00 PM – Opening Reception and  
7:30 PM Opening of Expo Hall

6:15 PM – 7:15 PM  

**ABSTRACTS**

Session 141  
Rapid Fire ePosters

Location: Salon Foyer  
CME: 1.0; CE: 0

Poster Discussants: Timothy M. Bateman, MD, MASNC; Diwakar Jain, MD, MASNC

141-01 18f-flobetapir PET/CT Detects Preclinical Cardiac Involvement in Al Amyloidosis  

141-02 Serial Assessment of Cardiac Allograft Vasculopathy with Quantitative Myocardial Perfusion PET  

141-03 Coronary Microvascular Dysfunction Associates with Impaired Myocardial Mechanics in Aortic Stenosis  

6:45 PM  141-04 CFR and Stress MBF May Provide Better Quantitative Metrics Than MPR for Normal- 
abnormal Differentiation: A Dynamic Cardiac SPECT Investigation  
U. M. Shrestha, M. Sciammarrella, M. Pampaloni, G. Gullberg*, E. Botvonic, Y. Sio

6:55 PM  141-05 SPECT/CT Evaluation of Right Ventricular Blood Flow and Function in a Novel Porcine Model of Right Ventricular Heart Failure  

7:05 PM  141-06 Safety, Adverse Symptoms and Hemodynamic Effects of Pharmacologic Vasodilator Stress Testing In Patients with Moderate to Severe Aortic Stenosis  
A. J. Russak, A. M. Schwartz, N. A. Paivanas, A. Farrukh, K. Q. Schwarz, R. G. Schwartz*

Thursday, September 6th, 7 pm, Suite 3249  
Social Mixer for Molecular Imaging Training Programs and Prospective Fellows  
This event is designed to encourage young investigators and fellows to expand their training in molecular imaging and providethe training programs a venue to recruit new trainees.
142-07 Differences in the Form of Presentation and the Diagnosis of Coronary Artery Disease (CAD) in Pre and Post-Menopausal (M) Women

142-08 To Determine the Association Between Local Transient Ischemic Dilation Pattern and Abnormal Perfusion Defect Involving the Left Main, Left Anterior Descending and/or Ramus Artery Territories on Myocardial Perfusion Imaging Utilizing Technetium 99m Radioisotope Scan
C. M. Dookhan*, C. O’Sullivan, S. Ratanapo, N. Punnanithinont, V. Arora, V. Robinson

142-09 Impact of Gd-153 Scanning Line Source Attenuation Correction on Downstream Invasive Testing

142-10 Design of a Prospective Registry for Patient Centered Assessment of Symptoms (PCAS)
D. E. Winchester*, C. Schwartz, A. Bagrova

142-11 Prevalence, Severity and Extent of Perfusion Defects in Egyptian Women Referred to MPI Compared to Men

142-12 Machine Learning to Diagnose CAD from SPECT MPI: A Preliminary Study
Z. Jiang, Z. He, F. Zhu, H. Tang, D. Li, C. Zhang, W. Zhou*

NEW THIS YEAR!
ASNC 2018 SIMULATION LABS: HANDS ON SPECT AND PET CASE INTERPRETATION

Hours: Friday and Saturday, 9:30 AM – 4:15 PM
Location: Salon 15

The goals of these sessions are to educate attendees on standardized interpretation of nuclear cardiology using software and quantitative metrics. ASNC will provide 10 de-identified PET and SPECT cases (20 total) with reference solutions. Faculty support is provided to guide use of various software programs. Come test your interpretation skills using various software programs.

Please sign up for a time slot in Salon 15 during Expo Hours. First come, first served. Each time slot will be up to 75 minutes and will offer 1 hour of CME.
Coronary Flow Reserve and Extent of Myocardial Ischemia with Rb-82 PET Myocardial Perfusion Imaging Predict the Burden of Patient-reported Angina in Those with Known Coronary Artery Disease
F. Al Badarin*, T. Bateman, J. A. Spertus, K. K. Patel, P. S. Chan, S. V. Arnold, J. A. Case

205-03  Prognostic Value of Positive Vasodilator-induced ST Segment Changes and Normal Rb-82 Rubidium Myocardial Perfusion Imaging: the Added Value of Coronary Flow Reserve

205-04  Relationship Between Epicardial Adipose Tissue and Coronary Vascular Function in Patients with Normal Myocardial Perfusion by Rb-82 PET/TC

205-05  Myocardial Blood Flow Quantitation: Added Prognostic Value in PET Particularly when Visual Interpretation is Normal
S. Elman*, H. Zigray, S. Li, R. Cheng, L. Soine, J. Caldwell, M. Bindschadler, A. Alessio

Can Patient Symptomatology Predict Duodenogastric Reflux on Myocardial Perfusion Scintigraphy?
E. G. DePuey*, E. Verheyen, J. Abed, J. Morley, I. Paik

Clinical Feasibility of ECG-gated Myocardial Perfusion SPECT Imaging for Right Ventricular Functional Analysis in Patients with Pulmonary Hypertension: Compared to MRI Measurement
K. Kiso*, E. Tateishi, Y. Morita, T. Fukuda

Comparison of Regadenoson and Adenosine Stress for Ischemic ECG Changes and SPECT Myocardial Perfusion Imaging Results
A. Chomenko*, E. Wu, S. M. Leonard, T. A. Holly

One-day Myocardial Perfusion SPECT: Considerably Less Activity for Rest Studies Needed than Generally Recommended

Rest Myocardial Perfusion Imaging is Possible Very Shortly After Tracer Injection with Cardiac Multi-pinhole Camera
E. Gremillet*, A. Steiner-Emptaz, B. Geissler

Differences in Left Ventricular Ejection Fraction and Synchronicity Between Upright and Supine Positions

FMTVDM<sup>©℗</sup> Provides the First Nuclear Quantitative Method for Nuclear Cardiology and Introduces a New Era for Nuclear Cardiology

The Use of Gated SPECT Dyssynchrony Parameters to Distinguish Scar from Attenuation Artifact in Myocardial Perfusion Imaging
F. Rahimi, I. Verma*, D. Pelletier, G. Heald, G. Tadeo, F. Quevedo, W. Duvall

LVEF Increases by CZT D-SPECT Equilibrium Radionuclide Angiocardiography in Patients with Pulmonary Arterial Hypertension Treated with Pulmonary Vasodilators
R. G. Schwartz*, M. L. Mackin, A. N. Light, A. M. Schwartz, R. White

A Novel Cardiac Targeting Peptide to Deliver Technetium-99m to the Heart
M. Zahid*, K. S. Feldman, N. S. Mason

Noise Properties of FBP, OSEM and OSEM3d with Resolution Recovery AF MPI Images at Full, One-half, One-fourth and One-eighth Counts
J. A. Case*, P. Helmuth, S. A. Courter, J. Jensen, T. Bateman

Development and Evaluation of a 68Ga-labeled Angiotensin Peptide Coupled to Rhodamine for Diagnostic Imaging of the Heart
S. Okarvi*, I. AlJammaz

Can Patient Symptomatology Predict Duodenogastric Reflux on Myocardial Perfusion Scintigraphy?
E. G. DePuey*, E. Verheyen, J. Abed, J. Morley, I. Paik

10:15 AM – 12:45 PM

Modern Art/The Art of Social Media in Imaging
Jennifer H. Mieres, MD, MASNC; Leslee J. Shaw, PhD, MASNC; Niti R. Aggarwal, MD, FASNC

10:30 AM – 11:30 AM

Ethics Session: Radiology Benefits Managers and Physician Support Tools: Adversaries or Two Sides of the Same Coin
Moderator: Andrew J. Einstein, MD, PhD, FASNC
Floor Moderator: Gregory S. Thomas, MD, MPH, MASNC
Expert Panel Discussants: Rory Hachamovitch, MD, FASNC; Janet Wei, MD; Richard Weinberg, MD, PhD
10:30 AM  RBM Industry Overview and Their Perspective on Cardiac Imaging; Value Provided by RBMs  
Julius Torelli, MD

10:40 AM  Problems with RBMs; ACC Research Regarding AUC and Decision Support Tools  
Robert C. Hendel, MD, MASNC

10:50 AM  Rebuttals

11:00 AM  Patient Advocate Perspectives

11:10 AM  Audience Questions and Answers

10:30 AM – 12:00 PM  
CASES WITH THE ACES  Ticketed Session

Session 213  Bread and Butter Nuclear Cardiology: Cases from Brown  
Location: Juniper  
CME: 1.5; CE: 1.5  
Case Presenters: James A. Arrighi, MD, MASNC; Brian G. Abbott, MD, MASNC; Raymond R. Russell III, MD, PhD, MASNC

11:00 AM  A Patient with New Onset Non-ischemic Cardiomyopathy  
• Case Presenter - Vikram Agarwal, MD, MPH  
• Imaging Discussant - Hicham Skali, MD  
• Panel Discussion

11:30 AM  A Patient with Prior Cardiac Transplantation  
• Case Presenter - Patrycja Galazka, MD  
• Imaging Discussant - Mark I. Travin, MD, MASNC  
• Panel Discussion

10:30 AM – 12:00 PM  
IMAGING BASED CASE MANAGEMENT (RWTE)

Session 214  Heart Failure: Pump in a Slump  
Location: Salon 5  
CME/MOC: 1.5 ; CE: 1.0  
Moderator: Wael A. Jaber, MD  
Panelists: James E. Udelson, MD, MASNC; Ronald Witteles, MD

10:30 AM  A Patient with New Onset Non-ischemic Cardiomyopathy  
• Case Presenter - Shivda Pandey, MD  
• Imaging Discussant - Diwakar Jain, MD, MASNC  
• Panel Discussion

11:00 AM  A Patient with Chemo/Radiation Therapy  
• Case Presenter - Shivda Pandey, MD  
• Imaging Discussant - Diwakar Jain, MD, MASNC  
• Panel Discussion

11:30 AM  A Patient with Prior Cardiac Transplantation  
• Case Presenter - Patrycja Galazka, MD  
• Imaging Discussant - Mark I. Travin, MD, MASNC  
• Panel Discussion

11:15 AM  US Perspective  
John J. Mahmarian, MD, MASNC

11:30 AM  Physicist Perspective  
James A. Case, PhD

11:45 AM  Technologist Perspective  
April Mann, MBA, CNMT, RT(N), NCT, FASNC

12:00 PM – 1:30 PM  
ABSTRACTS

Session 220  Young Investigator Competition-Basic Science  
Location: Salon 10  
CME: 1.25; CE: 1.25

12:05 PM  220-01 Dual Angiotensin Receptor-neprilysin Inhibitor Sacubitril/Valsartan Attenuates  
99mTc-RP805 Uptake and Systolic Dysfunction in a Rodent Model of Doxorubicin-induced Cardiotoxicity  

12:20 PM  220-02 Automatic Classification of Myocardial Perfusion Abnormalities from Nuclear Cardiac SPECT Images Using a Neural Network Model  
Y. Zhang*, K. Cheng, P. Chen, Y. Liu

12:35 PM  220-03 Development and Evaluation of Novel Macrophage Elastase-targeting Radiotracers for Imaging of Aneurysms  

1:05 PM  220-05 Externally Validated Deep Learning Improves Per-vessel Prediction of Obstructive Coronary Artery Disease from Upright and Supine SPECT MPI: a Multicenter Study  
1:45 PM  Cardiovascular Pathophysiology Targeted by Novel Tracers
   Frank Bengel, MD

2:00 PM  Molecular Imaging of Aneurysms and Peripheral Arterial Disease
   Mehran Sadeghi, MD

2:15 PM  Imaging Device Thrombosis and DVT
   Ilknur Ay, MD, PhD

2:30 PM  Sodium Fluoride Imaging of Coronary and Valvular Heart Disease
   Marcus Hacker, MD

2:45 PM  Imaging Cardiac Inflammation Post Myocardial Infarction
   Robert J. Gropler, MD, MASNC

3:00 PM  Discussion

**CASES WITH THE ACES** Ticketed Session

**222**

SPECT and PET Cases of all Kinds from Yale

Location: Juniper  CME: 1.5; CE: 1.5

Case Presenters: Edward J. Miller, MD, PhD, FASNC; Albert J. Sinusas, MD, FASNC

**SPECIAL**

**223**

Contemporary Evaluation and Management of Cardiac Amyloidosis

Location: Salon 5  CME/MOC: 1.5; CE: 1.0

Moderators: Prem Soman, MD, PhD, FASNC; James E. Udelson, MD, MASNC

Discussants: Sharmila Dorbala, MD, FASNC; Adam Castano, MD; Yvonne Eisele, PhD; C. Christina Quarta, MD, PhD; Frederick L. Ruberg, MD

Case Presenter: Prem Soman, MD, PhD, FASNC

**ABSTRACTS**

**232**

ePoster Session II: New SPECT Technologies

Location: Salon Foyer  CME: 1.0; CE: 0

Poster Discussant: Lawrence M. Phillips, MD, FASNC

3:20 PM  232-01 Mechanisms of Left Ventricular Dyssynchrony in Bundle Branch Patients
   S. Sillanmäki*, S. Ahmad, A. Gimelli, S. Saba, S. Malhotra, P. Soman

3:30 PM  232-02 Gender Differences in Prognostic Value of Stress Perfusion Deficit Using High-efficiency Solid-state Detector Myocardial Perfusion SPECT in a Large International Multicenter Study

3:40 PM  232-03 Point-of-order Consultation Reduces Rarely Appropriate Testing and Allows for Test-independent Cardiovascular Risk Reduction
### ABSTRACTS

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<td>Myocardial Involvement of Cardiac Sarcoidosis by F-18 FDG-PET and Clinical Presentation with Ventricular Arrhythmias and Atioventricular Block</td>
<td>N. Natarajan*, S. Bokhari, L. L. Johnson, A. Deluca, M. P. Kinkhabwala, A. J. Einstein</td>
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<td>PET-CT Imaging with 18-fdg Myocardial Suppression by Saturated Fatty Acid Loading in Order to Assess the Infectious and Inflammatory Cardiovascular Disease</td>
<td>V. D. Martire*, E. Pis Diez, S. Carames, M. V. Martire, C. De Pierris</td>
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<td>233-04</td>
<td>Inflammatory Markers and Labeled Leukocyte SPECT/CT Results in Infective Endocarditis</td>
<td>M. Kostkiewicz*, K. Holcman, W. Szot, P. Podolec</td>
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<td>P. Raggi*, P. Senior, S. Shahbaz, R. Hung, P. Kaul, R. Coulden, R. Yeung, J. Abele</td>
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<td>233-06</td>
<td>Changes in Global Left Ventricular Ejection Fraction and Myocardial Perfusion by Rb-82 in Patients Treated for Cardiac Sarcoidosis</td>
<td>P. Sethi*, D. Rosenthal, J. Zikherman, V. Vedantham, M. Pampaloni</td>
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<td>Predictors of Short-term Mortality in Heart Failure Patients Referred for Tc-99m PYP Scintigraphy</td>
<td>A. Masri*, S. Ahmad, R. Nieves, W. Follansbee, P. Soman</td>
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<td>Reducing the Influence of Inter-user Segmentation Variability Myocardial Blood Flow Values</td>
<td>A. Saillant*, S. Zuehlsdorff, C. Hayden, V. Shah, M. Chappell</td>
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<td>Interaction of Motion Correction and Kinetic Modeling on Quantification of Coronary Flow Reserve from Rubidium-82 PET</td>
<td>C. Gallegos*, J. Gaglione, V. Tsatkin, Y. Liu, S. Thorn, A. Sinusas, E. Miller</td>
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FRIDAY, SEPTEMBER 7, 2018

234-17 Correlation Between Google Search Volume for Amyloidosis and Amyloidosis-related Mortality
A. Singh*, M. S. El-Sady, K. M. Alexander, S. Cuddy, M. F. Di Carli, R. H. Falk, R. Merchant, S. Dorbala

4:15 PM - 5:45 PM

CASES WITH THE ACES Ticketed Session

241 Analysis, Interpretation, and Reporting of PET-CFR (Brigham & Women’s)
Location: Juniper CME: 1.5; CE: 1.5
Case Presenters: Marcelo Di Carli, MD, Vasvi Singh, MD

INTERSOCIETAL MULTIMODALITY IMAGING

242 Cardiac Sarcoidosis: Evolving Imaging Algorithms for an Evolving Disease (in Collaboration with the Foundation for Sarcoidosis Research)
This session supported by an educational grant from Advanced Accelerator Applications, a Novartis company
Location: Salon 2 CME/MOC: 1.5; CE: 1.25
Moderators: Wael A. Jaber, MD; Reimer H.J.A Slart, MD
4:15 PM Patient Interview
Ronald Witteles, MD
4:25 PM Cardiac MRI and Echocardiography: Screening, Diagnosis and Prognosis per the Guidelines
Amit R. Patel, MD
4:45 PM PET for Cardiac Sarcoidosis: Robust Test in the Right Hands and Patients per the Guidelines
Panithaya Chareonthaitawee, MD
5:05 PM Putting it all Together: Evaluation and Management of Sarcoidosis in the Real World
Walid Saliba, MD
5:25 PM Discussion

TEAM-BASED LEARNING

243 How to Optimize your SPECT Lab: An Imaging Team Approach
Location: Salon 7 CME/MOC: 1.5; CE: 1.5
Discussants: Karthikeyan Ananthasubramaniam, MD, FASNC; Saurabh Malhotra, MD, MPH, FASNC
Team 1
Ernest G. DePuey, MD, MASNC
Jerome Morley, CNMT

SPECIAL

244 ImageGuide Registry Update: Supporting change and Creating Value
Location: Salon 5 CME: 1.5; CE: 1.25
Moderator: Peter Tilkemeier, MD, FASNC
4:15 PM National Multimodality Perspective on Registries
Ralph G. Brindis, MD
4:30 PM Impact on Clinical Activities: MIPS/QCDR
Georgia Lawrence
4:45 PM Impact on Clinical Activities: Quality/Accreditation
Scott D. Jerome, DO, FASNC
5:00 PM Impact on Directing Care and Guidelines for the Future
Rory Hachamovitch, MD, FASNC
5:15 PM ImageGuide - Today and Tomorrow
Peter Tilkemeier, MD, FASNC
5:30 PM Discussion

6:30 PM – 11:00 PM
ASNC 25th Anniversary Celebration
Location: Golden Gate Ballroom (Ticketed Event)
7:55 AM – 9:30 AM

**PLENARY**

**Session 301**
President-Elect Address: Towards Molecular Cardiovascular Medicine - Emerging Opportunities for Noninvasive Imaging

Location: Salon 7  
Moderators: Frank Bengel, MD; Albert J. Sinusas, MD, FASNC

7:55 AM  
JNC Best Paper Award Presentation  
Ami Iskandrian, MD, MASNC

8:00 AM  
The (Molecular and Cellular) Future of Cardiovascular Medicine from a Translational Scientist’s Prospective  
Joseph C. Wu, MD, PhD

8:20 AM  
Explorer Project, Role of Whole Body PET Imaging of the Cardiovascular System  
Simon R. Cherry, PhD

8:40 AM  
Cardiovascular Molecular Imaging in Drug Development  
Robert J. Gropler, MD, MASNC

9:00 AM  
President-Elect’s Address: What will the Future Hold for Nuclear Cardiology?  
Rob S.B Beanlands, MD, FASNC

9:20 AM  
Discussion

9:40 AM - 9:55 AM

**Session 302**
ASN Business Meeting

Location: Salon 10

9:30AM – 4:15 pm  
Expo Hall Open

9:30 AM – 10:30 AM

**ABSTRACTS**

**Session 305**  
ePoster Session III: Inflammation Imaging  
Poster Discussant: Ron Blankstein, MD, FASNC

9:35 AM  
305-01 Comparative Accuracy of Two Methods for Assessing Apical Sparing Strain Pattern for Diagnosing Transthyretin Cardiac Amyloidosis  
V. Singh*, S. Malhotra

9:45 AM  
305-02 Intraobserver and Interobserver Variability of 18F-florbetapir PET/CT Retention Index in Light Chain Amyloidosis  
A. Y. Nodoushani*, M. El-Sady, M. F. Kijewski, M. Park, R. H. Falk, M. F. DiCarli, S. Dorbala

9:55 AM  
305-03 The Prognostic Value of Quantifying F18-FDG Uptake in Cardiac Sarcoidosis  
R. Flores*, K. R. Flaherty, Z. Jin, S. Bokhari

10:05 AM  
305-04 Validation and Reproducibility of Dietary Preparation for FDG PET for Cardiac Sarcoidosis  
B. D. Young*, Z. Shahab, R. Alvi, E. J. Miller

10:15 AM  
305-05 Prevalence of Myocardial Inflammation and Myocardial Scar in Patients with Ventricular Arrhythmias and no Known History of Sarcoidosis: an 18F-FDG Cardiac PET and Cardiac Magnetic Resonance Study  

10:05 AM – 10:15 AM

**Session 310**  
The Importance of Quality in Nuclear Cardiology: What is the Technologist Role - Part 1  
Moderator: Mark C. Hyun, CNMT, NCT, RT(N)(R), FASNC

9:30 AM  
Achieving Quality in Nuclear Cardiology: The Technologist Perspective  
Robert A. Pagnanelli, CNMT, RT(N)(R), NCT, FASNC
### 10:00 AM | Importance of and Factors Affecting Quality
April Mann, MBA, CNMT, RT(N), NCT, FASNC

### 10:15 AM – 12:45 PM

**OE OFFSITE EDUCATION** Ticketed Session

**Session 311**
SF MOMA Walking Tour - Saturday  
CME: 1; CE: 1
Meet at ASNC Registration

**Modern Art/Contemporary SPECT**
Brian G. Abbott, MD, MASNC; Gregory S. Thomas, MD, MPH, MASNC; Ibrahim M. Saeed, MD

### 10:30 AM – 12:00 PM

**ADVANCED**

**312 Imaging to Guide Therapy: A Joint Session with EANM**

**Location:** Salon 2  
**CME/MOC:** 1.5; **CE:** 1.25

**Moderators:** Mehran Sadeghi, MD; Hein J. Verberne, MD, PhD

**10:30 AM**
**Arrhythmia and Dyssynchrony Case Presenter**
Saara Sillanmäki, MD

**10:40 AM**
**Arrhythmia and Dyssynchrony**
Hein J. Verberne, MD, PhD

**10:55 AM**
**Vasculitis Case Presenter**
Kevin Chen, MD

**11:05 AM**
**Vasculitis**
Fabien Hyafil, MD, PhD

**11:20 AM**
**Cardiotoxicity Case Presenter**
Cesia Gallegos, MD

**11:30 AM**
**Cardiotoxicity**
Lauren A. Baldassarre, MD

**11:45 AM**
**Discussion**

### 11:30 am | Chest Pain in a Patient with Rheumatological Illness
Case Presenter - Ahmed Aljizeeri, MB BS  
Imaging Discussant - Richard Weinberg, MD, PhD  
Panel Discussion

### 12:05 PM

**320-01 Does Ischemia on Myocardial Perfusion Imaging with Positron Emission Tomography Identify Patients Receiving Survival Benefit with Early Revascularization?**

**320-02 Characterization of Resting Myocardial Blood Flow with Rubidium-82 Positron Emission Tomography in Regions of Myocardial Infarction as Defined by Cardiac Magnetic Resonance Imaging**
M. H. Stewart*, S. Shah, R. Bober

**320-03 Magnitude of Denervated Myocardium Predicts Arrhythmic Events Among Patients with Ischemic Cardiomyopathy**
V. Singh*, S. Malhotra, J. Canty, J. Fallavollita

**320-04 Cardiopulmonary Transit a Novel Measure of In-Vivo Physiology from Dynamic PET for Risk Stratification of Heart Transplant Recipients**

**1:05 PM**

**320-05 Feasibility and Failure Modes of Solid State SPECT Myocardial Flow Quantification**
R. A. Nieves*, J. Dietz, S. Malhotra, P. Soman

### 10:30 am | Patient Interview
Janet Wei, MD

### 10:40 AM | Coronary Microvascular Dysfunction

- **Imaging Discussant** - Jamieson M. Bourque, MD, FASNC
- **Panel Discussion**

### 11:00 AM | Spontaneous Coronary Artery Dissection

- **Case Presenter** - Sarah Cuddy, MB ChB
- **Imaging Discussant** - L. Samuel Wann, MD
- **Panel Discussion**

### 12:05 PM

**320-01 Does Ischemia on Myocardial Perfusion Imaging with Positron Emission Tomography Identify Patients Receiving Survival Benefit with Early Revascularization?**

**320-02 Characterization of Resting Myocardial Blood Flow with Rubidium-82 Positron Emission Tomography in Regions of Myocardial Infarction as Defined by Cardiac Magnetic Resonance Imaging**
M. H. Stewart*, S. Shah, R. Bober

**320-03 Magnitude of Denervated Myocardium Predicts Arrhythmic Events Among Patients with Ischemic Cardiomyopathy**
V. Singh*, S. Malhotra, J. Canty, J. Fallavollita

**320-04 Cardiopulmonary Transit a Novel Measure of In-Vivo Physiology from Dynamic PET for Risk Stratification of Heart Transplant Recipients**

**1:05 PM**

**320-05 Feasibility and Failure Modes of Solid State SPECT Myocardial Flow Quantification**
R. A. Nieves*, J. Dietz, S. Malhotra, P. Soman
### CA CASES WITH THE ACES Ticketed Session

**321 SPECT and Nuclear Cardiology Cases from Mayo Clinic**  
**Location:** Juniper  
**CME:** 1.5; **CE:** 1.5  
Case Presenters: Hayan Jouni, MD; Todd D. Miller, MD; Jason Young, MD

### MI INTERSOCIETAL MULTIMODALITY IMAGING

**322 Multisocietal Consensus Recommendations on Imaging in Cardiac Amyloidosis Imaging (in Collaboration with the Amyloidosis Foundation)**  
**Location:** Salon 7  
**CME/MOC:** 1.5; **CE:** 1.5  
Moderators: Lawrence M. Phillips, MD, FASNC; Sharmila Dorbala, MD, FASNC

- **1:45 PM** Patient Interview  
  Sharmila Dorbala, MD, FASNC
- **1:55 PM** Pathogenesis  
  Kevin M. Alexander, MD
- **2:10 PM** Diagnostic Criteria and Appropriate Use in Cardiovascular Imaging  
  Jamieson M. Bourque, MD, FASNC
- **2:25 PM** Echo/CMR Imaging  
  C. Christina Quarta, MD, PhD
- **2:40 PM** PYP/DPD Imaging  
  Sabahat Bokhari, MD, FASNC
- **2:55 PM** Key Clinical Questions and Optimal Management of Cardiac Amyloidosis  
  Ronald Witteles, MD

### PET

**323 PET Controversies**  
**Location:** Salon 5  
**CME/MOC:** 1.5; **CE:** 1.5  
Moderators: Manuel D. Cerqueira, MD, MASNC; Jamshid Maddahi, MD, FASNC

#### Debate 1
- **1:45 PM** Breakthrough - Multiparametric Quantitative PET/CT Myocardial Perfusion Approach for Detection of Coronary Artery Disease  
  Philipp A. Kaufmann, MD
- **1:57 PM** Controversy 1 - What Would it Take for Cardiac PET/CT to Replace SPECT MPI for CAD Evaluations?  
  Rory Hachamovitch, MD, FASNC
- **2:09 PM** Controversy 2 - Will MRI Perfusion and Quantitative Blood Flow Replace PET?  
  Andrew E. Arai, MD
- **2:21 PM** Discussion

#### Debate 2
- **2:30 PM** Breakthrough - Quantitative PET Evaluation of Myocardial Viability  
  Heinrich R. Schelbert, MD, PhD
- **2:42 PM** Controversy 1 - Is it Necessary for Guiding Revascularization Decisions?  
  Mouaz H. Al-Mallah, MD, MSc, FASNC
- **2:54 PM** Controversy 2 - MRI Assessment of Myocardial Viability. Is PET No Longer Needed?  
  Michael Salerno, MD
- **3:06 PM** Discussion

### T-B TEAM-BASED LEARNING

**324 Maximize Risk Assessment in Exercise Myocardial Perfusion Imaging**  
**Location:** Salon 2  
**CME/MOC:** 1.5; **CE:** 1.25  
Moderators: Matthew E. Harinstein, MD, FASNC; Frans J. Wackers, MD, PhD, MASNC

- **1:45 PM** ECG Findings Beyond ST Segment Changes  
  Donna M. Polk, MD, MPH, FASNC
- **2:05 PM** Role of Quantitative Perfusion Assessment for Risk Stratification  
  Thomas A. Holly, MD, FASNC
- **2:25 PM** Putting it all Together: Risk Assessment in Challenging Cases with Discordant Information, Including CT  
  Maria G. Sciammarella, MD
- **2:45 PM** How will Machine Learning Enhance our Image Interpretation  
  Piotr J. Slomka, PhD
- **3:05 PM** Discussion

### OE OFFSITE EDUCATION Ticketed Session

**325 Taste of the City Tour-Saturday**  
**Meet at ASNC Registration**  
**CME:** 1.0; **CE:** 1
3:15 PM – 4:15 PM

**TECHNOLOGY & TECHNIQUES**

331 The Importance of Quality in Nuclear Cardiology: What is the Technologist Role - Part 2

Location: Salon 10  
CME/MOC: 1.0; CE: 1.0

Moderators: Joseph Dietz, CNMT; Jaime Warren, CNMT, MBA

3:15 PM Improving Quality by Preventing Artifacts  
Robert A. Pagnanelli, CNMT, RT(N)(R), NCT, FASNC

3:45 PM Recognizing Quality: The Importance of the Technologist from the Physician's Perspective  
W. Lane Duvall, MD

**ABSTRACTS**

332 ePoster Session V: SPECT Diagnosis and Prognosis

Location: Salon Foyer  
CME: 1.0; CE: 0

Poster Discussant: Renee Bullock-Palmer, MD, FASNC

3:20 PM 332-01 Temporal Trends of Radiation Exposure in Cardiac Nuclear Myocardial Perfusion Imaging  

3:30 PM 332-02 Left Ventricular Dyssynchrony Improvement as Assessed by SPECT Myocardial Perfusion Imaging Predicts Clinical Outcomes in Heart Failure Patients Undergoing Cardiac Resynchronization Therapy (CRT): A Multi-National Prospective Trial  

3:40 PM 332-03 The Prognostic Value of Serial Stress Myocardial Perfusion Imaging in Asymptomatic End Stage Renal Disease Patients Awaiting Kidney Transplant  

3:50 PM 332-04 Flow Differences Along Specific Coronary Vessels Determined Noninvasively Using Dynamic PET/CTA Fused Imagery: 3d Parametric Vs. Vessel-specific Approaches  
M. Piccinelli*, C. Cooke, J. Votaw, S. Cho, H. Born, E. Garcia

4:00 pm 332-05 Diagnostic Yield of Stress Myocardial Perfusion Imaging in Patients Presenting with Syncope  
### ABSTRACTS

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<td>1.0; <strong>CE:</strong> 0</td>
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<tr>
<td><strong>Poster Discussant:</strong></td>
<td>Donna M. Polk, MD, MPH, FASNC</td>
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**3:15 PM**

**334-10 Development and Promotion of Online Educational Content: The Refer Wisely Campaign**  
D. E. Winchester*, D. Wolinsky

**3:30 PM**

**334-11 Extra-cardiac Findings Detected on Myocardial Perfusion Imaging Studies**  
I. Koutsikos*, A. Velidaki

**3:45 PM**

**334-12 Cardiac Viability: A Case Based Multimodality and Correlative Pictorial Review**  
K. Gupta*, R. Jadhav, R. Prasad, A. Ali, S. Virmani

**4:00 PM**

**334-14 Use of Technetium Pyrophosphate to Detect ATTR Variant of Cardiac Amyloidosis**  
P. Sethi*, M. Pampaloni

### CASES WITH THE ACES

**#342**

**SPECT and SPECT/PET (Jefferson Heart Inst.)**  
**Location:** Juniper  
**CME:** 1.5; **CE:** 1.5

**Case Presenters:** Christopher L. Hansen, MD, FASNC; Gregary Marhefka, MD

### PET

**#343**

**When is PET a Better Choice than SPECT: A Case-based Session**  
**Location:** Salon 7  
**CME/MOC:** 1.5; **CE:** 1.5

**Moderators:** Rob S.B. Beanlands, MD, FASNC; Paco E. Bravo, MD  
**Panelists:** Erick Alexanderson, MD; Manuel D. Cerqueira, MD; Panithaya Chareonthaitawee, MD; Gary V. Heller, MD, PhD, MASNC  
**Case Presenters:** Hayan Jouni, MD; Paco E. Bravo, MD

### SPECIAL

**#344**

**Nuclear Cardiology Choosing Wisely Challenge**  
**Location:** Salon 5  
**CME:** 0; **CE:** 0

**Moderator:** Paul Cremer, MD  
**Panelists:** Renee Bullock-Palmer, MD, FASNC; Maria G. Sciammarella, MD; Wael A. Jaber, MD; Todd D. Miller, MD, MASNC

### WALK & LEARN WITH ASNC PAST PRESIDENTS:

**Enjoy the sights of San Francisco!**

**LOCAL TASTES OF THE CITY TOUR**  
Discussion on how to develop, promote, sustain and maintain a cardiac imaging service: Focus on optimal use of imaging and appropriate use.

Provides approx. 1 CME credit ($125).  
2 sessions to choose from: 1:30- 4:30 pm, Friday, Sept. 7 and Saturday, Sept. 8 (25-person limit each)

**SAN FRANCISCO MUSEUM OF MODERN ART TOUR**  
The Art of Social Media in Imaging/ Contemporary SPECT

Provides approx. 1 CME credit ($75). Includes entry fee to museum with boxed lunch.  
2 sessions to choose from: 10:15-12:45 pm, Friday, Sept. 7 and Saturday, Sept. 8 (25-person limit each)
SUNDAY, SEPTEMBER 9, 2018

7:00 AM – 8:30 AM

**PLENARY**

Session 401
Frontiers in the Application of Nuclear Techniques

Location: Salon 7  
Moderators: Vasken Dilsizian, MD, MASNC; Rory Hachamovitch, MD, FASNC

7:00AM Advances in PET Perfusion and Flow Reserve  
Henry Gewirtz, MD

7:15AM Advances in SPECT: Can it Rival PET for CAD Assessment?  
Marcelo Di Carli, MD

7:30AM Hybrid PET/MR Imaging to Better Characterize Pathophysiology of Heart Diseases  
Marcus Hacker, MD

7:45AM Nuclear Techniques in Infiltrative Diseases: Amyloid and Sarcoid Imaging  
Andrei Iagaru, MD

8:00AM PET Applications in Cardiac Implantable Device Infections and for Guiding Arrhythmia Management  
Vasken Dilsizian, MD, MASNC

8:15AM Discussion

8:45 AM – 10:15 AM

**IMAGING BASED CASE MANAGEMENT (RWTE)**

Session 411
Chest Pain Evaluation (Multimodality): The Elephant on my Chest

Location: Salon 5  
Moderator: Vikas Veeranna, MD

Panelists: Todd D. Miller, MD, MASNC; Ahmed A. Aaty, MD

8:45 AM Emergency Room Patient  
- Case Presenter - Karthikeyan Ranganathan, MD  
- Imaging Discussant - Edward Hulten, MD, MPH, FASNC  
- Panel Discussion

9:15 AM Outpatient with Chest Pain  
- Case Presenter - Ahmad Masri, MD  
- Imaging Discussant - Nishant Shah, MD, MPH  
- Panel Discussion

9:45 AM Young Patient with CAD  
- Case Presenter - Stephanie Saucier, MD  
- Imaging Discussant - W. Lane Duvall, MD  
- Panel Discussion

**intersocietal multimodality imaging**

Session 412
Multimodality Evaluation of Infective Endocarditis: Moving Beyond Echocardiography (Joint Session with ASE and EANM)

Location: Salon 7  
Moderators: Myron C. Gerson, MD, MASNC; Gabriel B. Grossman, MD, PhD, FASNC

8:45 AM Case Presenter  
Gabriel B. Grossman, MD, PhD, FASNC

8:55 AM Role of Echocardiography in Infective Endocarditis: Limitations, Pitfalls, and New Techniques  
Amil M. Shah, MD

9:15 AM MSCT: Is it Important Just for Complicated Cases  
Paul Cremer, MD

9:35 AM What is the Role of Adding PET/CT to Echocardiogram?  
Reimer H.J.A Slart, MD

9:55 AM What is the Role of Imaging Techniques in both the Diagnosis and Management of Infective Endocarditis? Clinical Point of View  
M. Rizwan Sohail, MD
**Why N-13 Ammonia PET?**

Improved image quality, option for treadmill stress, workflow enhancements, prepared doses, and better extraction fraction for flow quantitation.

Let us tell you more about why “On Demand” N-13 Ammonia can take your cardiac PET practice to the next level all without the need to purchase a cyclotron.

**Saturday, 4:15 PM - 5:45 PM | Salon 4-6**

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

See 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!

- **Feasibility & Initial Results of a Decision to Test Algorithm Using DASI in Operable Lung Cancer Patients**
  Christopher Johnson, MD; Nadine Gauthier, MD, FRCP; Angeline Law, MD, FRCP; Eugene Leung, MD, FRCP; Calvin Thompson, MD, FRCP

- **Systematic Cardiac Risk Assessment with PET/CT Myocardial Perfusion Imaging using an Objective Risk Score Approach**
  David Min, MD; Steve Mason, PA-C; Jon-David Ethington, PA-C; Raymond McCubrey, MStat; Kent Meredith, MD

- **Point-of-Order Consultation Reduces Rarely Appropriate Testing and Allows for Test-Independent Cardiovascular Risk Reduction**
  Nishant Shah, MD, PhD; Wen-Chih (Hank) Wu, MD, MPH; Hafiz Imran; Aaron Eisman; Indra Neil Sarkar, PhD, MLIS; David Winchester, MD, FASNC

**Faculty**
Paul Cremer, MD

**Judges**
Renee Bullock-Palmer, MD, FASNC
Maria G. Sciammarella, MD
Wael A. Jaber, MD
Todd D. Miller, MD, MASNC

**Supported by a Grant from Bracco Diagnostics Inc.**
ASNC’S INTERNATIONAL PARTNERS

International Atomic Energy Agency (IAEA)
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European Society of Cardiology
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Download the ASNC2018 mobile app for FREE on your iPhone, iPad, or Android device and get access to ASNC2018 sessions and events, networking resources, social media updates, and exhibitor information. The app includes these features:

• Event Agenda
• Speaker and Participant Information
• Interactive Personalized Agenda
• Exhibitor Listings and Floorplan
• Real-time Polls and Surveys
• Venue and Area Maps
• Meeting Information
• Alerts and Updates

DIRECTIONS:
1. Visit your device’s app store
2. Search for ASNC2018
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4. Click Install & accept the app’s terms of usage
5. Allow app notifications
6. Click Open to access the app or visit the device’s home screen and click the corresponding icon
7. Type in your preferred email address, create your profile and enjoy!
GENERAL INFORMATION

AMERICANS WITH DISABILITIES ACT
ASNC supports the Americans with Disabilities Act and will be glad to assist you with any special needs to make this program accessible to you.

ADMISSION REQUIREMENTS
Admission to all sessions and the exhibit hall is by badge only. Entry to the Expo Hall is restricted to individuals over 15 years of age.

ASNC BOOTH
Located outside the Expo Hall.

ASNC2018 MEETING ON DEMAND
All attendees can obtain access to the ASNC2018 MOD by visiting the Bracco 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 Bracco Diagnostics, 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.

MOBILE APP
Please go to page 29 in this program to view download instructions for the ASNC2018 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 the Marriott Marquis. This includes meeting space, restaurants and sleeping rooms. 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 Nob Hill C located on the Yerba Buena Level of the Marriott Marquis. The room will be staffed with technicians to assist faculty:

- Thursday, September 6, 2018 10:00 a.m. – 5:00 p.m.
- Friday, September 7, 2018 7:00 a.m. – 4:00 p.m.
- Saturday, September 8, 2018 7:00 a.m. – 4:00 p.m.
- Sunday, September 9, 2018 6:30 a.m. - 9:30 a.m.

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

Access Wifi by entering:
Username: ASNC2018
Password: astellas
EXHIBITOR LISTING

ASNC2018 EVENTS IN THE EXPO HALL –
Two Chances to Win a Wine Gift Pack!

THURSDAY, SEPTEMBER 6
6:00 PM – 7:30 PM  Welcome Reception

FRIDAY, SEPTEMBER 7
9:30 AM – 10:30 AM  Coffee Break
12:00 PM – 12:30 PM  Expo Hall closed
1:15 PM – 1:45 PM  Dessert Break and Wine Gift Pack Drawing*
   *Must be present to win
3:15 PM – 4:15 PM  Appreciation Reception hosted by
   ASNC President Prem Soman, MD Networking Lounge
   Drinks and hors d’oeuvres

SATURDAY, SEPTEMBER 8
9:30 AM – 10:30 AM  Coffee Break
12:00 PM – 12:30 PM  Expo Hall closed
1:15 PM – 1:45 PM  Dessert Break and Wine Gift Pack Drawing*
   *Must be present to win
3:15 PM – 4:15 PM  Happy Hour and Meet & Greet
   with ASNC leadership Networking Lounge
   Drinks and hors d’oeuvres

Absolute Imaging Solutions 321
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.

Akcea Therapeutics 410
Akcea Therapeutics, an affiliate of Ionis Pharmaceuticals, was established in early 2015 and based in Kendall Square in Cambridge, Massachusetts. Akcea has a robust portfolio of development- and registration-stage drugs covering multiple targets and diseases using advanced RNA-targeted antisense therapeutics. Our immediate focus is to drive our clinical programs forward through development to commercialization while building on the Ionis standards of excellence.

Alnylam 110
Alnylam is leading the translation of RNA interference (RNAi) into a whole new class of innovative medicines with the potential to transform the lives of patients who have limited or inadequate treatment options. Based on Nobel Prize-winning science, RNAi therapeutics represent a powerful, clinically validated approach for the treatment of a wide range of debilitating diseases with high unmet medical need. Alnylam was founded in 2002 on a bold vision to turn scientific possibility into reality, which is now marked by its robust discovery platform and deep pipeline of investigational medicines, including 4 programs in late-stage clinical development.

American College of Radiology (ACR) 420
The American College of Radiology (ACR®) 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 38,000 members include radiologists, radiation oncologists, nuclear medicine physicians and medical physicists. www.acr.org

American Society of Nuclear Cardiology (ASNC) 430
ASNC is the recognized leader in quality, education, advocacy and standards in cardiovascular imaging, with more than 4,200 members worldwide. 2018 marks its 25th year anniversary as the only society dedicated solely to the field of nuclear cardiology. ASNC establishes standards for excellence in cardiovascular imaging through the development of clinical guidelines, professional education, advocacy and research development to improve patient outcomes.

The Alliance for Physician Certification and Advancement™ (APCA™) 520
The Certification Board of Nuclear Cardiology (CBNC), the Certification Board of Cardiovascular Computed Tomography (CBCCT), and the Certification Board of Cardiovascular Magnetic Resonance (CBCMR) certification programs were established to develop and administer practice-related examinations in the field of Nuclear Cardiology, Cardiovascular Computed Tomography, and Cardiovascular Magnetic Resonance. In addition, the CBNC, CBCCT and CBCMR were established to award certification to those physicians who successfully complete the examination process. APCA has over 21,000 certified physicians throughout the world and is part of the non-profit Inteleos™ family of certification alliances.
The mission of the foundation is to raise awareness of systemic amyloidosis, support research and assist patients in understanding the disease and find informed medical facilities.

Astellas Pharma US, Inc.

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.

Bracco Diagnostics Inc.

Bracco Diagnostics Inc. (BDI), the U.S.-based subsidiary of Bracco Imaging SpA, and part of the Bracco Group, is a leader in innovative contrast imaging agents in the U.S. BDI, established in 1994, with headquarters and research offices in Monroe Township, NJ, 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 offer is completed by several medical devices and advanced administration systems for contrast imaging products in the fields of radiology.

CDL Nuclear Technologies

Cardiac PET Starts Here. CDL Nuclear Technologies is a nationwide nuclear cardiac imaging company that has delivered solutions to healthcare providers since 1992. As the nation’s largest turn-key cardiac PET provider, we are trusted by more groups to provide a first class PET program than any other. Our complete project management and low-risk model, with no upfront cost to you, removes the key barriers preventing you from expanding your cardiac imaging program. Just when you thought you couldn’t provide cardiac PET, we’ll give you every reason to think again.cdlnuclear.com

Cardiac Imaging, Inc.

Cardiac Imaging, Inc. has brought together advanced nuclear medicine technology with convenient care through our turnkey mobile medical clinics and mobile cardiac PET scanning exams. Learn more about our medical PET scans and exams. Our mobile cardiac PET scanning and imaging services allow physicians to treat their patients for cardiac disease with the most cutting edge tools in nuclear medicine, without leaving the comfort of their practice. We exclusively perform mobile cardiac positron emission tomography (PET) imaging exams, the recognized gold standard across the United States in detecting early coronary artery disease before it is evident on other imaging tests. By partnering with us, we perform every aspect of the cardiac PET scan and exam so that your main focus is treating your patient.

Cardiovascular Imaging Technologies (CVIT)

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, distribute and service the Imagen family of cardiac imaging products: ImagenPRO, ImagenMD, ImagenQ, Imagen3D, and ImagenSPECT.

Cedars-Sinai

The Artificial Intelligence in Medicine (AIM) Program at Cedars-Sinai provides state-of-the-art software solutions for cardiac SPECT and PET imaging. The quantitative software and algorithms developed by Cedars-Sinai, including QGS™ and QPS™, 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. Additional information can also be found at www.csaim.com.

Digirad

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.

European Association of Cardiovascular Imaging (EACVI)

The European Association of Cardiovascular Imaging (EACVI), a branch of the European Society of Cardiology (ESC), is a unified community gathering four imaging modalities under one entity (Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology and Cardiac Computed Tomography). The EACVI is the world’s leading network of cardiovascular imaging experts welcoming over 11,000 professionals including cardiologists, sonographers, nurses, basic scientists and allied professionals. Our mission: “To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging.” Visit www.escardio.org/EACVI to learn about our educational initiatives and more.

G&I Innovations

Skin cells undergo changes due to natural aging, sun and weather exposure or bad habits. The most effective rejuvenating methods involve treatments obtained by licensed dermatological specialists. However, having to keep appointments multiple times weekly becomes an inconvenience and costly. The advancements in technology now enable consumers to indulge in treatments in the privacy of their homes.
GE Healthcare

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

Hitachi Healthcare Americas

Hitachi Healthcare Americas delivers best in class medical imaging technologies for healthcare providers. Hitachi’s MRI, CT, US and X-Ray and VidiStar’s technologies provide speed, comfort and quality for both radiologists and patients playing an important role in the diagnosis and treatment of disease while driving social innovation into healthcare. Visit www.hitachihealthcare.com

IAC

For over 25 years IAC has its mission of Improving Health Care Through Accreditation, offering accreditation for vascular testing, echocardiography, nuclear/PET, MRI, CT, dental CT, carotid stenting, vein treatment and management, cardiac electrophysiology and cardiovascular catheterization. Learn about IAC’s tools QI Self-Assessment Tool, QI MOC Activity and QuickFill Reaccreditation at intersocietal.org.

ImageGuide® Registry

The ImageGuide® Registry is the nation’s first registry for non-invasive cardiac imaging aimed at tracking and improving quality for the benefit of patient care. As a Qualified Clinical Data Registry (QCDR) since 2015, the ImageGuide® Registry allows physicians to meet requirements under the new Merit-Based Incentive Payment System (MIPS) using measures developed specifically for nuclear cardiology and echocardiography. Please visit the ImageGuide Registry booth to learn more about how the registry can transform your lab in the areas of patient safety, quality improvement, and how to successfully participate in regulatory programs on Medicare Part B services.

INVIA Medical Imaging Solutions

INVIA is dedicated to developing advanced non-invasive cardiac imaging software for medical professionals to optimize patient care. Physicians use our software, 4DM, to accurately quantify, review, and report cardiac perfusion, function, and anatomy. 4DM is available integrated with more than 25 camera, workstation, EMR and PACS manufacturers, or as a software-only solution for Windows laptops and workstations. Originating at the University of Michigan twenty years ago, we developed 4DM with the patient in mind – enabling physicians around the world to make accurate interpretations. Our software is always advancing; visit us at booth 215 to explore 4DM.

Ionetix

Ionetix Corporation is the first national supplier of N-13 ammonia for use with cardiac Positron Emission Tomography (PET) imaging. N-13 Ammonia is a highly accurate myocardial perfusion imaging agent used for the detection of coronary artery disease (CAD) and is considered a gold standard for quantification of absolute coronary flow reserve (CFR). Ionetix has developed an ultra-compact, automated, unit dose N-13 ammonia production system. Ionetix will install this system directly at the hospital or clinic for on-demand dose availability; offering unprecedented access to N-13 Ammonia tracer supply.

Japanese Society of Nuclear Cardiology

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.

Jubilant DraxImage Inc.

Jubilant DraxImage Inc. develops, manufactures and markets radiopharmaceuticals and state-of-the-art technologies used for the diagnosis, treatment and/or monitoring of various diseases. They provide high quality and reliable specialty products to hospital-based customers and radiopharmacies worldwide and ultimately through them patients. Their areas of specialization include cardiology, pulmonology, skeletal, and endocrine therapies. They are passionately dedicated to the field and committed to Improving Life through Nuclear Medicine.

Lantheus Medical Imaging, Inc.

Lantheus Medical Imaging, Inc. is a global leader in the development, manufacture and commercialization of innovative diagnostic imaging agents and products. The Company provides a broad portfolio of products serving Echocardiography and Nuclear Medicine specialties. Lantheus’ key products used in Nuclear Cardiology include Technetium® (Technetium Tc 99m Generator), a technetium-based generator that provides the essential medical isotope used in nuclear medicine procedures and Cardiolite® (Kit for the Preparation of Technetium Tc 99m Sestamibi for Injection). In addition, Lantheus’ development pipeline includes two cardiac positron emission tomography (PET) agents. Lantheus is headquartered in North Billerica, Massachusetts with offices in Puerto Rico and Canada. For more information, visit www.lantheus.com.
**EXHIBITOR LISTING**

**McGraw-Hill Education**

With a strong editorial team, respected authors, and commitment to quality publications in all media, McGraw-Hill Education is a leading publisher of print and digital content in Cardiology. Visit our booth to browse our products including the landmark texts Nuclear Cardiology: Practical Applications, Hurst’s the Heart and Harrison's Principles of Internal Medicine. www.mcgrawhillmedical.com

**MedAxiom**

MedAxiom is a community of health care providers and innovators dedicated to advancing cardiovascular care. We offer valuable membership services, expert consulting and industry connections for hundreds of cardiovascular organizations across the country. MedAxiom members benefit from access to exclusive data and analytics, program optimization tools, premium educational events, vetted industry solutions and peer-to-peer learning.

**MedTrace**

MedTrace is a development stage company innovating PET diagnostic imaging by making [O-15]-H2O practically available. The MT-100 is a Point-of-care GMP compliant chemistry lab combining the production of [O-15]-H2O with the injection of the tracer into the patient - all in one automated process. With the aQuant analysis software, MedTrace is developing the world’s first scanner independent, regulatory approved software offering absolute quantification with [O-15]-H2O. Compared to the early days of [O-15]-H2O scan images, aQuant offers clear visual interpretation along with absolute data.

**MIE America Inc.**

MIE America leads the way in the re-manufacturing and manufacturing of nuclear medicine imaging equipment. Our SPECT and PET scanners are FDA and CE approved and controlled by SCINTRON. This new computer system provides the most current acquisition and processing protocols not only to allow Nuclear Medicine, Cardiology providers or researchers deliver high quality diagnostic scans to their patients, but also purchase and/ or upgrade to today’s technology economically: 3D imaging, dose reduction, faster and state-of-the art processing, longevity, more efficient use of your RB-82 generator and cost reduction.

**MIM Software Inc.**

MIM Software Inc. provides vendor-neutral solutions for multimodality 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.

**Modern Nuclear Inc.**

Modern Nuclear Inc. is a Nuclear Medicine Diagnostic company specializing in Nuclear Cardiology since 1992. We offer mobile Rubidium Cardiac PET and portable Cardiac SPECT MPI as well as consulting or complete set-up of in-house PET and SPECT labs. Our turnkey operation includes accreditation, billing, staff, equipment, isotopes, and all supplies. Our scanners utilize Cedars-Sinai software and interpretation can be performed by our physicians or your own. All reports and studies are stored on our cloud server, to which our clients have 24/7 access. Founded in May 1988 by Patrick J. Laverty, BS, CNMT, CEO, RSO, Modern Nuclear is accredited by IAC and has been a certified Medicare provider since 2004. www.modernnuclear.com

**Molecular Imaging Services, Inc.**

Molecular Imaging Services, Inc. provides a comprehensive, cost effective solution that simplifies adding Cardiac PET to your practice in today’s challenging atmosphere. Our Comprehensive Support approach has redefined the turnkey model with unparalleled Clinical, Operational and Reimbursement resources and solutions. With the support of our Medical Advisor Gary Heller, MD, we have solidified the physician education and Quality Assurance to support your transition to a 1st Class PET Program. Let the MIS Team do the Heavy Lifting! Come visit us at Booth # 416.

**Nuclear Imaging Services, LLC**

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 (NMTCB)**

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 six 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. The sixth certification program which began in 2017, the NMTCB(RS), is a radiation safety credential specifically for nuclear medicine technologists.
Prescient Imaging, LLC  421

A group of scientist and engineers, with private investment, founded Prescient Imaging, LLC in California with the mission of developing novel configurations of medical imaging scanners. Our PET scanners are protected by issued and pending patents. Prescient Imaging is actively soliciting potential clinical investigators for innovative uses of these devices.

Royal Philips  100

Royal Philips (NYSE: PHG, AEX: PHIA) is a leading health technology company focused on improving people’s health and enabling better outcomes across the health continuum from healthy living and prevention, to diagnosis, treatment and home care. Philips leverages advanced technology and deep clinical and consumer insights to deliver integrated solutions. Headquartered in the Netherlands, the company is a leader in diagnostic imaging, image-guided therapy, patient monitoring and health informatics, as well as in consumer health and home care. Philips’ health technology portfolio generated 2017 sales of EUR 17.8 billion and employs approximately 74,000 employees with sales and services in more than 100 countries.

ScImage  107

"Secure. Flexible. Accessible. ScImage’s PICOM365 Enterprise PACS delivers secure on-demand access to all patient images when and where you need them. 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  206

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 (SWISS)  309

SWISS provides fully refurbished medical imaging equipment in addition to a broad range of related services for a dependable and economically smart alternative to OEM programs.

Spectrum Dynamics Medical  101

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 Please visit us at Booth 101.

Subtle Medical Inc.  114

Subtle Medical provides AI infrastructure for hospitals and imaging centers, enabling faster & low-dose imaging protocols, enhanced imaging quality, and better imaging workflow. Subtle Medical is also the winner of 2018 NVIDIA Inception Award as top-1 Healthcare+AI startup.

Syntermed, Inc.  120

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, PETtools™, 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 Dyssynchrony tools to guide CRT, plus QC tools specific for measuring blood flow. For more information email info@syntermed.com, visit www.syntermedcom, or call 888.263.4446.

TS Medical USA  422

We distribute FDA approved Low Level Light Therapy medical devices for physicians featuring light emitting diode technology with the strongest wavelength in the market. LLLT increases blood flow in the tissues, enabling higher levels of oxygen and other nutrients to reach the tissues. The treatments cause analgesic (pain killing), anti-inflammatory and other metabolic and hormonal effects in the tissues that can speed up the body’s natural healing mechanisms.
Thinking Systems

Thinking Systems, the recognized industry leader for providing comprehensive cloud-based enterprise PACS solutions for all modalities, especially for molecular imaging, will exhibits its revolutionary cloud-based PACS – TSXtreme™, which utilizes the latest cloud technology and Windows 64-bit platform. It provides comprehensive PACS functionalities for all modalities with specialized clinical tools and hanging protocols. It enables physicians to perform diagnostic interpretation/reporting securely from anywhere with consumer grade internet connections. The comprehensive features include: PET-CT fusion, SPECT-CT fusion; nuclear cardiology processing; general nuclear medicine processing and review; cardiac PET processing; SPECT and PET brain processing; echocardiogram image review and measurements; cardiac cath image review; radiology image review with advanced tools. It supports all common client platforms, including: 64-bit and 32-bit of Windows (10, 8, 7, Vista, and XP), Mac OS and iOS, Android, etc. It supports multi-monitor configurations for client computers. Please or email sales@thinkingsystems.com for additional information.

Wolfers Kluwer

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.

EXHIBITOR FLOORPLAN

ASNC2018

Expo Hall Passport

Included in your ASNC2018 bag is the Expo Hall Passport. Use your passport to learn about exciting products and services from several ASNC2018 exhibitors participating in the program. Bring this Passport with you to the Expo Hall and visit each of the booths listed to get a sticker. Bring your completed passport to the ASNC booth located in the Expo Hall Foyer no later than 2 p.m. Sept. 8. You’ll be entered into a drawing for a chance to win one of three Apple Gift Cards — $500, $250, and $100! Have fun!

Winners need not be present to win. Any prize not claimed at the ASNC booth by 3pm September 8 will be mailed after the conference.
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/Location</th>
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<tbody>
<tr>
<td>Ahmed A. Aaty, MD</td>
<td>Alexandria, Egypt</td>
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<tr>
<td>Brian G. Abbott, MD, MASNC</td>
<td>Cardiovascular Inst. Rl and Miriam Hosp East Greenwich, Ri</td>
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<tr>
<td>Alia Abdel Fattah, MD, FASNC</td>
<td>Cairo University Hospital Al Qahira, Egypt</td>
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<td>Vikram Aggarwal, MD</td>
<td>Ottawa, ON Canada</td>
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<td>Niti R. Aggarwal, MD, FASNC</td>
<td>UW Health Madison, WI</td>
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<td>Mouaz H. Al-Mallah, MD, MSc, FASNC</td>
<td>King AbdelAziz Cardiac Center Riyadh, Saudi Arabia</td>
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<td>Kevin M. Alexander, MD</td>
<td>Stanford University Stanford, CA</td>
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<td>Erick Alexanderson, MD</td>
<td>Instituto Nacional de Cardiología Mexico City, Mexico</td>
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**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
   - 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](http://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 the next 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.

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MEET ROSE

Art has been Rose’s therapeutic escape ever since her mother died of heart disease. Now that she’s retired, she spends most days painting at her easel. She was recently diagnosed with stage 4 chronic kidney disease and is hoping to get a kidney transplant soon. Because of her risk factors and family history, Rose’s doctor refers her for a cardiac test to assess her heart health first.

See what happens next at Astellas Booth 201.