The SNMMI PET Center of Excellence (PET CoE) has many moving parts; its many task forces and working groups aim to advance the quality and utilization of PET/CT and PET/MR as well as the clinical implementation of novel PET radiopharmaceuticals by addressing education needs, reimbursement issues, credentialing and more.

SNMMI Value Initiative 2.0 – Engagement of Councils and Centers of Excellence

In 2018, SNMMI launched its Value Initiative – a comprehensive strategic plan to advance the crucial role of nuclear medicine and molecular imaging in patient care and science and discovery. The next step will become SNMMI’s Value Initiative 2.0. As part of Value Initiative 2.0 SNMMI will continue to adjust our organization to the changing health care environment. Value Initiative 2.0 will also engage as many SNMMI members as possible through the work of various committees, working groups, SNMMI councils and centers of excellences and the SNMMI chapters.

As part of this inward focusing effort, councils and centers of excellence will be participating in Domain conference calls and working directly with the chairs from the six (6) domains to address the opportunities and develop strategies to meet them.

As a center of excellence, the PET CoE will be involved in every domain; Quality of Practice, Research and Discovery, Workforce Pipeline, Outreach, Advocacy and Organizational Strength and Stability.

Goals and Programs for FY2020

Improvements in PET/CT equipment are happening at a staggering pace. Time-of-flight imaging has given us the ability to image smaller lesions with less radioactivity. New technologies such as PET/MR are becoming far more ubiquitous in the medical community. Several tracers have gone from research into routine clinical practice, and are enabling better imaging for prostate cancer, neuroendocrine tumors and dementia. Diagnostic and treatment algorithms for patients are being revolutionized, and PET is being linked with the ability to image and then treat sites of disease detected, expanding our capacity for theranostics. To achieve this, the PET Center of Excellence is planning several continuing education programs at the Annual and Midwinter meetings. We are partnering with other groups, both within the SNMMI and in other Societies. Further, we are preparing Symposia dedicated to specific topics of interest, continuing education articles, and information sessions for patients and members of the healthcare team. Specific goals and objectives include:

a. **Board of Directors Retreat**
   The Center will hold a face-to-face Board of Directors planning retreat in the first quarter for 2020 to discuss ongoing and future projects of the Center.

b. **PET/MR Working Group**
   This co-provided workshop, presented by the Society of Nuclear Medicine and Molecular Imaging’s (SNMMI) PET Center of Excellence and the International Society for Magnetic Resonance in Medicine (ISMRM), will focus on both the technical aspects of PET/MRI as well as the clinical utility of PET/MRI. The workshop will feature a mixture of invited scientific presentations, proffered papers, a poster session, small group discussion, and a keynote lecture. A young investigator award will be presented to students and early stage post-doctoral or physicians that will be selected from the oral paper presentations. Educational objectives include:
   - Explain why attenuation correction is a challenge in PET/MRI and the various approaches being developed to solve this problem
   - Explain how MR can be used to aid in PET motion correction
• Discuss prior and ongoing efforts to quantify the arterial input function from PET/MR images
• Discuss how PET/MRI is currently used clinically and the near-term clinical applications.

c. **PET Pros**
   PET CoE board members will review the PET Pros information and determine how it could be updated to reflect a living document while providing academic credit for authors. An editorial board will be created.

d. **PET/COE Education**
   PET COE plans to submit proposals for a categorical session and CE sessions at the 2020 SNMMI Mid-Winter and Annual Meetings. A categorical on PET/MR will be proposed.

e. **Webinar Program**
   The PET CoE will kick off a webinar series with a talk by Dr. Shana Elman on cardiovascular PET in September. Additional webinars will be held throughout the year.

f. **Speakers Bureau**
   In 2018 the PET CoE created a chapter speakers bureau. E-mails went out to all chapters announcing the PET Speakers Bureau. There are several chapters who have already expressed their interest, with the Southwest Chapter having already taken advantage of the opportunity. There are three additional individuals slated to present later this year; Shana Elman; Tom Hope; and Gary Dillehay. Moving forward, preference will be given to chapters that have not already participated in the speaker's bureau.

g. **Additional Goals and Programs**
   1. Launch the speaker program for Chapters
   2. Continue to enhance the PET CoE Newsletter, both content and distribution
   3. Support the PET CoE interns, with mentorship and projects.

1. **Budget and Resource Requirements**

   a. **Summary of Financial Needs**
      The PET CoE FY20 budget summarizes the total resources needed to accomplish all of the goals set forth in the business plan including the budget for the PET/MRI Workshop which was included in the SNMMI budget.

   b. **Resource Requirements**
      Additional staff, materials, technology, and marketing support will be required for the PET/MRI Workshop, however, this was previously approved by the SNMMI Board of Directors.
PET Center of Excellence
Background Overview

1. Mission
The Society of Nuclear Medicine Molecular Imaging’s (SNMMI) PET Center of Excellence is an organizational component within the SNMMI dedicated to all aspects of the development and utilization of Positron Emission Tomography (PET), PET/CT and PET/MR in the detection and management of disease. The Center focuses on educational programs and practical issues directly related to PET, PET/CT, and PET/MR, including clinical practice, regulator issues and reimbursement.

The PET Center of Excellence:
(a) Provides a forum for members with similar interests
(b) Provides expertise in PET and clinical practice
(c) Fosters research and education in PET and clinical practice
(d) Provides outreach to other professionals and organizations
(e) Nurseries new membership in SNMMI

2. PET CoE Leadership

Officers
President: Michael Knopp, MD, PhD
Vice President: Rathan Subramaniam, MD, PhD, MPH, FACNM, FSNMMI
Secretary/Treasurer: Gary Ulaner, MD, PhD
Immediate Past President: Katherine Zukotynski, BASc, MD, FRCPC

Term
June 2019 – June 2021

Board of Directors
Thomas Hope, MD
Twyla B. Bartel, DO, MBA, FACNM
Delphine L. Chen, MD
Maria Liza Lindenberg, MD
Erik Mittra, MD, PhD
*Todd E. Peterson, PhD
Gary Ulaner, MD, PhD
Chadwick Wright, MD
Medhat M. Osman, MD, PhD, MS
Sonya Youngju Park, MD
James Tyler Middlebrooks, BS, CNMT, RT(N)(CT)(ARRT)

Term
June 2019 – June 2021

Intern (non-voting)
Ashwin Parihar, MBBS

Term
June 2019 – June 2021

3. Current Status

A. Financial
As of May 31, 2019, the PET CoE has a projected revenue of $34,989 for FY2019. This includes $16,382 in member dues; $830 from ad revenue in the newsletter and $17,789 carryover from FY2019. The total projected expenses for FY2019 are $34989.

B. Membership
As of May 31, 2019, there are 1,090 members in the PET CoE which include 665 physicians and scientists and 425 technologists. The annual membership counts for the past few years are shown below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Membership Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>1,109</td>
</tr>
</tbody>
</table>
2017 | 1,156
2016 | 1,232

C. Member Benefits
Member benefits include:
- A forum for discussion and dissemination of basic science and clinical practice information regarding PET/CT, PET/MR, and clinical implementation of novel PET radiopharmaceuticals
- Eligibility to vote in the PET COE Board of Directors elections
- Quarterly newsletter
- PET COE Website Resources
- Sponsored educational symposia related to members’ interests
- PET COE E-Community
- PET COE Webinars
- A $20.00 discount for PET COE sponsored categorical session.

4. Accomplishments for FY2019
The PET Center of Excellence (COE) Board of Directors held a retreat on Sunday, June 2. During the retreat, the Board established priorities for the coming year, while reviewing progress of the Center's task forces. The PET CoE’s achievements, based on its objectives for the year were:

a. **PET CoE Support for PET Presentations at SNMMI Chapter Meetings**
The PET CoE board agreed to launch a program to support speakers on PET topics at SNMMI Chapter meetings, with up to $500 for travel expenses. The Southwest Chapter hosted the first PET speaker. There are two additional talks planned for 2019. The program will be presented to the Committee on Chapters at the 2019 Annual Meeting. In addition, letters will be sent to Chapter Executive Directors, inviting them to submit requests for PET speakers.

b. **PET COE PET/MRI Development Task Force**
The PET/MRI Task Force, chaired by Thomas Hope, MD, provides timely educational opportunities focused on PET/MR. The second ISMRM-SNMMI Co-Provided Workshop on PET/MRI is scheduled for October 26-28, 2019 at NYU.

c. **PET COE Treatment Response Using PET Task Force**
The Treatment Response Using PET Task Force, co-chaired by Katherine Zukotynski, MD, FRCPC and Rathan Subramaniam, MD, PhD, MPH, FACNM, FSNMMI, provides information on the role of PET in treatment response including criteria of response for specific cancers and clinical settings. The task force published a paper on Head and Neck PET/CT in CNM and a paper on novel metrics is pending publication.

d. **PET COE Education**
The PET COE is leading efforts within SNMMI to educate physicians on how to perform and interpret PET/CT and PET/MR through continuing education at the SNMMI Midwinter and Annual meetings.

Sponsored CE Sessions at the 2019 Mid-Winter Meeting
- Cardiac PET/CT Cases Workshop-with CVC and CIC
- Theranostic Agendas: Whats New and Whats on the Horizon-with Therapy COE and CTN
- Nuts and Bolts of Using PRRT-with Therapy COE and CTN

PET CoE Sponsored Sessions at the 2019 Annual Meeting
- Categorical
- Image Guided Decision Making & Therapy for Optimal Cardiovascular Patient Care-with CVC
- Molecular Imaging of Autoimmunity & Immune Checkpoint Inhibition-with CMIIT, RPSC, PIC
- Thyroid Cancer Theranostics-with PIC and Therapy COE
CE Sessions
- Initial Clinical Experiences with Digital PET/CT
- New PET Radiopharmaceuticals-Read with the Experts
- PET/CT Assessment Response-with PIC
- Advanced Pediatric PET-with PIC
- Pediatric PET/MR-with PIC
- Valk Award Lecture-PET in Prostate Cancer: Frontierland and Tomorrowland
- Cardiac PET/CT Workshop-with CVC and CIC
- Endocrinology/Neuroendocrinology Scientific Tracks

e. **PET COE Awards**
The PET COE presented the Peter E. Valk, MD, Award to Hossein Jadvar, MD, PhD, FACNM, FSNMMI during the SNMMI 2020 Annual Meeting. Dr. Jadvar's presentation was entitled, “PET in Prostate Cancer: Frontierland and Tomorrowland.”

f. **SNMMI Councils and Centers Internship Program**
Shelley Nicole Acuff, CNMT, RT(R) (CT) and Sonya Youngju Park, MD are the PET CoE interns for 2017-2019. Ms. Acuff, in consultation with her mentor Dr. Subramaniam, wrote a paper on PET in radiation treatment which was accepted for publication by JNMT. She is planning a subsequent paper on technologist education regarding brain amyloid PET.

g. **Published quarterly PET COE Newsletter**
The Board voted to make changes to the distribution of the PET CoE Newsletter, by having the newsletter be open access and distributed via SmartBrief. Also, it is adding a lead article which will provide CE credit, which will be complimentary to PET CoE members.