PET Center of Excellence
Business Plan FY 2016-2017

1) Executive Summary
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.

2) 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) and PET/CT in the detection and management of disease. Two primary areas of focus of the Center are educational programs and practical issues directly related to PET and PET/CT, 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 imaging and clinical practice
(c) Fosters research and education in PET imaging and clinical practice
(d) Provides outreach to other professionals and organizations
(e) Nurtures new membership in SNMMI

3) PET CoE Leadership

Officers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Term</th>
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<tbody>
<tr>
<td>President:</td>
<td>Ryan Niederkohr, MD</td>
<td>June 2015 – June 2017</td>
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<tr>
<td>Vice President:</td>
<td>Katherine Zukotynski, BASc, MD, FRCPC</td>
<td>June 2015 – June 2017</td>
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<tr>
<td>Secretary/Treasurer:</td>
<td>Rathan M. Subramaniam, MD, FACP, FRCPC</td>
<td>June 2015 – June 2017</td>
</tr>
<tr>
<td>Immediate Past President</td>
<td>Hossein Jadvar, MD, PhD, MBA, FACNM</td>
<td>June 2015 – June 2017</td>
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Directors

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<tr>
<th>Name</th>
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<tr>
<td>Samuel Almodovar, MD</td>
<td>June 2015 – June 2017</td>
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<tr>
<td>Marques L. Bradshaw, MD</td>
<td>June 2014 – June 2017</td>
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<tr>
<td>Delphine L. Chen, MD</td>
<td>June 2014 - June 2017</td>
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<tr>
<td>James Crowley, BS, CNMT</td>
<td>June 2015 – June 2017</td>
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<tr>
<td>David Wayne Dick, PhD</td>
<td>June 2015 – June 2018</td>
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<tr>
<td>Thomas Hope, MD</td>
<td>June 2016 – June 2019</td>
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<tr>
<td>Michael Knopp, MD, PhD</td>
<td>June 2015 – June 2018</td>
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<td>Erik Mittra, MD, PhD</td>
<td>June 2014 – June 2017</td>
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<tr>
<td>Helen Nadel, MD</td>
<td>June 2014 – June 2017</td>
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<tr>
<td>Jian Qin (Michael) Yu, MD</td>
<td>June 2016 – June 2019</td>
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Intern (non-voting)

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<tr>
<th>Name</th>
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<tr>
<td>Chadwick Wright, MD</td>
<td>June 2015 – June 2017</td>
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4) Current Status

A. Financial
As of May 31, 2016, the PET COE has a total revenue of $36,621. This includes $16,621 in member dues. Expenses total $15,487. Revenue is generated through membership dues, which are $15/annual per member.
B. Membership
As of July 1, 2016, there are 1,127 members in the PET CoE which include 703 physicians and scientists and 424 technologists. The annual membership counts for the past few years are shown below:

<table>
<thead>
<tr>
<th>Year</th>
<th>Membership Count</th>
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<tr>
<td>2015</td>
<td>1,223</td>
</tr>
<tr>
<td>2014</td>
<td>1,102</td>
</tr>
<tr>
<td>2013</td>
<td>1,180</td>
</tr>
<tr>
<td>2012</td>
<td>1,523</td>
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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
- A $20.00 discount for PET COE sponsored categorical session.

5) Accomplishments for 2015-2016
The PET Center of Excellence (COE) Board of Directors had a very productive strategic planning retreat on Saturday, November 7, 2015 in San Francisco, CA. During the retreat, the Board reviewed the status of the Center Task Forces. The Board identified that through the work of these task force groups, the Center will be contributing effectively to the five goals of the SNMMI strategic plan.

1) PET/MRI Task Force
2) Radiotracer Encyclopedia Task Force
3) PET/MR Credentialing Task Force
4) Treatment Response Task Force

a. PET COE PET/MRI Task Force
The PET/MRI Task Force, chaired by Thomas Hope, MD and provides timely educational opportunities focused on PET/MR in specific areas of interest including, online education modules, self assessment modules (SAMs) and continuing education articles for the JNM. The task force forged a new collaborative relationship with the International Society for Magnetic Resonance in Medicine (ISMRM) and together, co-sponsored a categorical session entitled, “PET/MRI Has Arrived...But Where Do We Go From Here?” at the 2015 SNMMI Annual Meeting in Baltimore, MD, followed by co-sponsorship of a categorical session at the 2016 ISMRM annual meeting in Singapore. The PET/MR task force would like to continue collaborative work with ISMRM on a PET/MR Study Group to support research, development, evaluation, application, clinical integration, and new research opportunities of simultaneous MR and PET imaging. The study group will provide formal representation of PET/MRI within the ISMRM, with a focus on the role of MRI in the combined modality. There is a co-agreement between the ISMRM and SNMMI to plan a workshop on PET/MRI for fall 2017. The task force will continue work to establish PET/MRI procedure and reimbursement guidelines with intent to develop content which may be posted on the PET CoE website. [This TF contributes to Goal E of the SNMMI Strategic Plan].

b. The PET COE Radiotracer Encyclopedia Task Force
An ongoing project of the PET COE is the creation of a tracer encyclopedia. In this collection, detailed information regarding various PET tracers and their properties are displayed in easy-to-read charts. The Radiotracer Encyclopedia Task Force was chaired by Bennett Greenspan, MD for several years and created a total of twelve (12) tracer guides which are available on the PET CoE website. Work is in progress for four more tracers (Rubidium-82, F-18 Florbetaben, Ga-68
DOTATATE, and F-18 FAZA). Marques Bradshaw, MD is the new chair of the task force. [This TF contributes to Goals A and B of the SNMMI Strategic Plan].

c. **PET/MR Credentialing Task Force**
The PET Center collaborated with the American College of Radiology (ACR) in a joint working group, co-chaired by Hossein Jadvar, MD, PhD, MPH, MBA, FACNM, as a representative of SNMMI and Rathan Subramaniam, MD, PhD, MPH, as an ACR representative. This task force wrote the first PET/MRI credentialing statement for Brain indications. The final document was approved by both the ACR and SNMMI leadership and publicized in the JNM and JACR. Since then, the task force has initiated work on the next document- the second in a series of three – focused on full body PET/MR (excluding the heart), and the third document will focus on cardiac PET/MR. The task force has two working groups to draft the papers (Applications and Qualifications). In addition, the task force has also added a pediatric representative from both the SNMMI and ACR to provide guidance in this specific area. The task force will meet after the SNMMI 2016 annual meeting to review the various components of the credentialing statement on full body PET/MR. The first complete draft will be circulated to the SNMMI and ACR boards by September with the goal of the final document being approved by RSNA. [This TF contributes to Goals A, D and E of the SNMMI Strategic Plan].

d. **PET COE Treatment Response Using PET Task Force**
The Treatment Response Using PET Task Force is co-chaired by Katherine Zukotynski, BASc, MD, FRCPC and Erik Mittra, MD, PhD, with Delphine Chen, MD and Helen Nadel, MD serving as members as well. The goal of the task force is to provide information on tumor type data that is already available and provide that information in a summary document on treatment response for certain cancers. The first topic for the task force was on lymphoma: a two-part JNM CE article summarizing currently available response criteria has been drafted. Part 1 of this document has been accepted and was published in the June 2016 issue of JNM. Part 2 of this document is still in editing for submission in the next 3-6 months. Future topics to be addressed in similar format include: Novel FDG uptake metrics: Planned submission late 2016 Response metrics for head/neck cancer: Planned submission early 2017 Pediatric Cancer Response Criteria: Planned submission for mid-2017. [This TF contributes to Goal D of the SNMMI Strategic Plan].

e. **PET COE Education**
The PET COE develops educational activities concerning PET/CT, and is leading efforts within SNMMI to educate physicians on how to perform and interpret PET/CT, through continuing education at the SNMMI Midwinter and Annual meetings. [contributes to Goal E of the SNMMI Strategic Plan]

The PET COE sponsored the following sessions at the SNMMI 2016 Mid-Winter Meeting in Orlando, FL:

- **Tumoral Response Assessment: Present and Future**
- **MRI Case Review: Brain and Body**
- **Advances in Prostate Cancer Imaging**
- **PET/MRI: A Clinical Reality in Need of a Place**

The PET COE sponsored the following sessions at the SNMMI 2016 Annual Meeting in San Diego, CA:

- **Response Assessment for Lymphoma**
- **[F-18] FDG PET-CT in Lung Cancer**
- **An Overview of Imaging-Based Response Assessment**
- **Peter E. Valk, MD, Memorial Lectureship and Award**
- **PET/MRI I: Technical Advances**
- **PET/MRI II: Clinical Advances**
f. **PET COE Awards**
The PET CoE presented the Peter E. Valk, MD, Award to Richard L. Wahl, MD during the SNMMI 2016 Annual Meeting in San Diego, CA. Dr. Wahl gave his presentation entitled, “From Genome to Phenome using PET..."PERCISTence" Pays.” Dr. Ryan Niederkohr, PET CoE President, moderated the session and presented Dr. Wahl with the award plaque and check for $1,000.

g. **SNMMI Councils and Centers Internship Program**
Chadwick Wright, MD, is the PET COE Intern for 2015-2017. Dr. Wright will be working with Michael Knopp, MD, PhD, to revise and update the PET PROS website content and develop a strategic plan for creation of new material and investigate potential routes for citation/authorship to earn academic credit for submissions.

h. **Published quarterly PET COE Newsletter**
The quarterly PET COE newsletters continue and are posted on the PET CoE website.

6) **Goals and Programs for 2016-2017**
The PET Center of Excellence remains very strong and productive and contributes to Goals A, B, D and E of the SNMMI Strategic Plan.

a. **Fall Board of Directors Retreat**
The Center will hold a face-to-face Board of Directors planning retreat in January 2017 to discuss ongoing and future projects of the Center.

b. **PET COE Task Forces**
The PET CoE Task Forces will continue work on their various projects outlined in this business plan.

c. **PET/COE Education**
The PET COE has submitted session proposals for the 2017 SNMMI Mid-Winter Meeting in Phoenix, AZ and the following sessions have been approved:

- Monitoring Tumoral Response (co-sponsored with CIC and PIC)
- PET Protocols: Nuts and Bolts
- PET/MRI from the Technologists Perspective

The PET COE is planning to sponsor various educational sessions at the 2017 SNMMI Annual Meeting in Denver, CA and will submit proposals during the call for proposals. [contributes to Goal E of the SNMMI Strategic Plan].

d. **Goals and Programs (continued)**
- Increase Center membership
- Identify ways to increase readership of the quarterly PET COE newsletter
- Create new Maintenance of Certification (MOC) Part IV projects
- Maintain and Update content on PET COE website
- Develop outreach resources targeting referring physicians, patients, radiology benefits managers, administrators, payers, etc.

7) **Budget and Resource Requirements**

a. **Summary of Financial Needs**
The PET COE FY2017 budget summarizes the total resources needed to accomplish all of the goals set forth in the business plan.

b. **Resource Requirements**
No additional staff, materials, technology, or marketing support is required beyond the usual support provided by SNMMI headquarters.