

SNMMI House of Delegates Bi-Annual Report Pediatric Imaging Council Goals – 2017 Mid-Winter Meeting

Overview: SNMMI Councils and Centers provide professional networking and educational programs for nuclear medicine and molecular imaging professionals in respective areas, while simultaneously serving as a resource for development and implementation of the SNMMI Strategic Plan and other Society policies.

Reporting Instructions: *Twice a year, councils and centers are asked to submit a written report to the House of Delegates (councils) and Board of Directors (centers of excellence). These reports help the HOD and BOD to keep up-to-date on the activities of the special interest groups, while also providing an opportunity for these groups to note any challenges they are having with respect to meeting their goals.*

Goal 1: Expand and optimize utilization of the SNMMI PIC website.

SNMMI Strategic Plan Goals that relates to this goal:

- Goal B: Facilitate and support the availability and clinical utilization of nuclear medicine and molecular imaging technologies.
- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: Organization, planning, and update phases remain in progress. Ideas for increasing content include transferring the current pediatric nuclear medicine listserv to the website (see goal #2), providing a list of current pediatric nuclear medicine publications and guidelines, and increasing the number of links to relevant pediatric nuclear medicine websites. Since the 2016 MWM, we have provided a list of current pediatric NM publications related to dose-reduction, which are included in the PIC 2016 Spring Newsletter (available on the PIC Website). The PIC Newsletter also includes links on 1) how to apply for the annual PIC investigator awards, and 2) information on the PIC internship program.

Next Steps: Transfer the current pediatric nuclear medicine listserv to the website (see goal #2). Continue to update PIC website to include "bookmark list" to important pediatric NM publications and websites. Implementation of changes and updates will require assistance from SNMMI IT and administrative staff.

Goal 2: Transfer legacy Pediatric Nuclear Medicine list-serve from Yahoo to the SNMMI server.

SNMMI Strategic Plan Goals that relates to this goal:

- Goal B: Facilitate and support the availability and clinical utilization of nuclear medicine and molecular imaging technologies.
- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: Dr. Gelfand contacted the head of IT to coordinate the transfer, but this project has not moved forward since then.

Next Steps: Coordinate schedules of Society IT staff and Dr. Gelfand to work on the transfer of the current listserv to the SNMMI server.

Goal 3: Further refine the consensus guidelines for pediatric nuclear medicine as part of the Image Gently dose reduction initiative a. Expand the consensus guidelines to include recommendations for additional radiopharmaceuticals b. Assess effectiveness of initial dose recommendations and consider possible modifications of some existing dose recommendations c. Continue to encourage international participation with consensus development, especially with the EANM Paediatric Dose Card d. Produce pediatric-specific CT protocol recommendations for hybrid imaging

SNMMI Strategic Plan Goals that relates to this goal:

- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.

Current Progress: A Pediatric Nuclear Medicine Dose Reduction Working Group developed consensus guidelines for recommended pediatric administered activities for additional radiopharmaceuticals, including Tc-99m-ECD/HMPAO, Tc-99m-sestamibi/tetrofosmin, I-123, Tc-99mpertechnetate, Tc-99m-RBC, and Tc-99m-WBC). These guidelines were endorsed by the PIC BOD, and SNMMI BOD. In collaboration with the Image Gently campaign, a new wall poster providing recommended pediatric administered activities of radiopharmaceuticals, included these new guidelines, has been published. b. Investigators, including FH Fahey and others have published results on effectiveness of global dose recommendations. Promulgation of guidelines and associated PR program appear to have had a positive effect on dose optimization and procedure standardization in pediatric nuclear medicine. - Fahey FH et al. Standardization of Administered Activities in Pediatric Nuclear Medicine Part 2: A Report of the First Nuclear Medicine Global Initiative. J Nucl Med March 31, 2016. - Fahey FH et al. Standardization of administered activities in pediatric nuclear medicine: a report of the first nuclear medicine global initiative project, part 1-statement of the issue and a review of available resources. J Nucl Med. 2015 Apr;56(4):646-51. c. EANM and North American guidelines were “harmonized” prior to this summer. The new version of “harmonized” Consensus Guidelines were published (Lassmann M, Treves ST. Eur J Nucl Med Mol Imaging, 2014;41:1036-1041. and Treves ST, Lassmann, M. J Nucl Med 2014;55:869-870). Poster "Update to the North American Guidelines" appeared in the first page of the J Nucl Med issue in August 2014 and in Dec 2014 issue of JNM. FD Grant has published a comparison of the two guidelines (Grant FD et al. Radiation doses for pediatric nuclear medicine studies: comparing the North American consensus guidelines and the pediatric dosage card of the European Association of Nuclear Medicine. *Pediatr Radiol* (2015) 45:706–713)

Next Steps: Goals 3 and 4 will be merged to continue collaborative efforts with the Image Gently campaign of the Alliance for Radiation Safety and other organizations to optimize use of radiopharmaceuticals in children.

Goal 4: Continue collaboration with the Image Gently program of the Alliance for Radiation Safety in Pediatric Imaging to promote methods of dose reduction.

SNMMI Strategic Plan Goals that relates to this goal:

- Goal B: Facilitate and support the availability and clinical utilization of nuclear medicine and molecular imaging technologies.
- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: In collaboration with the Image Gently campaign, a new updated wall poster providing recommended pediatric administered activities of radiopharmaceuticals has been published.

Members of the PIC continue to actively collaborate with the Image Gently campaign.

Next Steps: Goals 3 and 4 will be merged to continue collaborative efforts with the Image Gently campaign of the Alliance for Radiation Safety and other organizations to optimize use of radiopharmaceuticals in children

Goal 5: Make recommendations for post-therapy care and home precautions for pediatric therapy patients and children of adult therapy patients

SNMMI Strategic Plan Goals that relates to this goal:

- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.

Current Progress: The PIC co-sponsored a number of educational sessions at the 2016 annual meeting. These include a Categorical Course “‘Theragnostics’ Beyond Neuroendocrine Tumors: Novel Applications of Targeted Radionuclide Therapy in Malignant and Nonmalignant Conditions”, with three pediatric-specific speakers. The PIC also sponsored a CE session entitled Radionuclide Therapy in Children and Young Adults. At the 2017 Mid-Winter Meeting, the PIC and CaIC will co-sponsor a CE session on “Optimizing Radiation Dose in Children”. At the 2017 annual meeting, the CaIC and PIC will co-sponsor an expanded Categorical Session on “Optimizing Radiation Dose in Pediatric Nuclear Medicine”. The PIC also will sponsor a CE session focused on the practical aspects of implementing dose reduction strategies in pediatric nuclear medicine.

Next Steps: At the 2017 Annual Meeting, an informal planning meeting of PIC members with a particular interest in radioiodine therapy will do preliminary planning to achieve this aim.

Goal 6: Participate in American College of Radiology Practice Parameter review

SNMMI Strategic Plan Goals that relates to this goal:

- Goal B: Facilitate and support the availability and clinical utilization of nuclear medicine and molecular imaging technologies.
- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: Members of the PIC continue to participate in development/revision of ACR Practice Parameters to contribute content reflecting best practices in pediatric nuclear medicine. Most

recently, members of the PIC have participated in updating the 2016 Practice Parameter for renal imaging and provided substantial input regarding renal imaging in children and young adults.

Next Steps: Encourage continued participation by members of the PIC.

Goal 7: Begin presentation of the recently approved Conway-Treves Senior Investigator Award

SNMMI Strategic Plan Goals that relates to this goal:

- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: At the 2015 Annual Meeting, the first Conway-Treves Award was presented to Dr. Michael Gelfand and the PIC awards committee has selected the second recipient of the award which will be presented at the 2017 annual meeting

Next Steps: An awards committee chaired by the PIC immediate past president will choose the next recipient of this award. This award will be awarded every other year.

Goal 8: Continue presentation of the recently approved Majd-Gilday Young Investigator Award

SNMMI Strategic Plan Goals that relates to this goal:

- Goal D: Advance and promote quality, value and safety of Molecular Imaging and Nuclear Medicine.
- Goal E: Support and enhance the professional workforce and environment.

Current Progress: The Majd-Gilday Young Investigator Award has been presented at the last two annual meetings.

Next Steps: Under the auspices of an award committee chaired by the Immediate Past President of the PIC, the Majd-Gilday Young Investigator Award is awarded to a recipient chosen from among young investigators submitting an abstract for presentation at the annual meeting.

Open Comment Section

CHALLENGES – Please provide information on any challenges you are having within your council/center that you would like assistance from the SNMMI to help overcome.

OPPORTUNITIES – Please provide information on opportunities that you believe exist within your council/center OR other related special interest groups (or outside stakeholders) that the SNMMI can help facilitate or should be aware of.