

Spring 2016

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2016 Mid-Winter Meeting: Recap of Pediatric CE Lectures

The Pediatric Imaging Council enjoyed a successful 2016 SNMMI Mid-Winter Meeting in Orlando, FL with a robust turnout for our CE session "Tumoral Response Assessment: Present and Future", co-sponsored by the PIC and the Correlative Imaging Council. The pediatric program was complemented by additional lectures delivered by both PIC and non-PIC members in other CE sessions. Below is a summary of the pediatric lectures presented at the Mid-Winter Meeting:

- I-123-MIBG in Neuroblastoma Therapeutic Response Monitoring – Susan E. Sharp, MD
- Non-FDG PET Radiotracers in Pediatric PET Imaging – Ruth Lim, MD
- Fluorescence Imaging Using Tracer Principles: Pediatric Applications – Eva. M. Sevick, PhD
- FDG PET in the Monitoring of Tumoral Response in Pediatrics – Ruth Lim, MD
- CT Case Review – Abdomen & Pelvis (Pediatric) – Mary-Louise Greer, MBBS, FRANZCR
- CT Case Review – Musculoskeletal System (Pediatric) – Ruth Lim, MD
- CT Case Review – CT Anatomy of the Chest (Pediatric) – Mary-Louise Greer, MBBS, FRANZCR
- Applications of PET/MR in Pediatric Imaging – Delphine L. Chen, MD

**The 2017 SNMMI Mid-Winter Meeting will take place at the Arizona Grand in Phoenix, Arizona
January 19-22, 2017. We hope to see you there!**

2016 Annual Meeting: Preview of Pediatric Program

We are pleased to announce the exciting pediatric program for the upcoming 2016 SNMMI Annual Meeting in San Diego, CA. The meeting will kick off with an all-day Categorical Course (Saturday, June 11, 8:00am-4:00pm,

Room 30DE), co-sponsored with the Therapy Center of Excellence and the Nuclear Oncology Council, entitled “**Theragnostics’ Beyond Neuroendocrine Tumors: Novel Applications of Targeted Radionuclide Therapy in Malignant and Nonmalignant Conditions**”. We are privileged to welcome the following PIC-sponsored speakers for this Categorical Course:

- 10:40am: **Radioiodine Therapy for Thyroid Cancer** – Douglas van Nostrand, MD
- 11:10am: **Using MIBG for Staging and Assessing Response to Therapy** – Susan E. Sharp, MD
- 11:40am: **I-131-MIBG Therapy of Neuroblastoma** – Suzanne Shusterman, MD

Other Pediatric-related CE sessions at the Annual Meeting are as follows:

- CE15: **Read with the Experts in Pediatrics** (Sunday, June 12, 2:45pm-4:15pm, Room 20A)
- CE30: **Radionuclide Therapy in Children and Young Adults** (Monday, June 13, 10:00am-11:30am, Room 20BC)
- CE42: **FDG-PET/CT Evaluation of Pediatric Malignancies** (Monday, June 13, 12:30pm-2:00pm, Room 32B)
- TS19: **A New Filter on Pediatric Medicine** (Monday, June 13, 3:00pm-4:30pm, Room 28C)
- CE63: **Evaluation of Common Pediatric Genitourinary Disorders** (Tuesday, June 14, 8:00am-9:30am, Room 32B)

The **PIC Business Meeting** will take place on **Tuesday, June 14, 11:45am-12:15pm in Room 23C**. Immediately following this meeting will be the **Pediatric Scientific Session** oral abstract presentations (**Tuesday, June 14, 12:30-2:00pm**). Please check room assignments at the meeting as these are subject to change. **Pediatric Poster Sessions** are to be announced. Please check the [2016 SNMMI Annual Meeting Program Overview](#) website for updates.

Pediatric Nuclear Medicine Dose Optimization

A Pediatric Nuclear Medicine Dose Reduction/Optimization Workshop will take place at the Annual Meeting in San Diego. Please contact Dr. S. Ted Treves, streves@partners.org, if you are interested in participating.

Since our last newsletter, there are new insights and research regarding pediatric nuclear imaging dose reduction and optimization. We congratulate and thank our PIC members who have contributed to the following publications:

Khamwan K et al. *Pharmacokinetic modeling of [(18)F]fluorodeoxyglucose (FDG) for premature infants, and newborns through 5-year-olds*. EJNMMI Res. 2016 Dec;6(1):28. Epub 2016 Mar 17.

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.

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

Ayres KL et al. *Dose Optimization of the Administered Activity in Pediatric Bone Scintigraphy: Validation of the North American Consensus Guidelines*. J Nucl Med. 2015 Sep;56(9):1391-4.

Brady SL and Shulkin BL. *Ultralow dose computed tomography attenuation correction for pediatric PET CT using adaptive statistical iterative reconstruction*. Med Phys. 2015 Feb;42(2):558-66.

Fahey FH et al. *Beyond current guidelines: reduction in minimum administered radiopharmaceutical activity with preserved diagnostic image quality in pediatric hepatobiliary scintigraphy*. Eur J Nucl Med Mol Imaging. 2014 Dec;41(12):2346-53.

Useful resources for pediatric nuclear medicine dose optimization can be found on the [SNMMI website](#).

PIC Internship Update

We would like to extend our gratitude to Neha Kwatra, MD, for her outstanding work during her 2013-2015 term as PIC Intern. Since our last newsletter, Dr. Kwatra has become a staff radiologist at Boston Children's Hospital. She has presented invited lectures at the 2015 SPR and SNMMI Annual Meetings, speaking on the topics of "Nuclear Medicine Therapy in Pediatric Oncology" and "Esophageal Transit and Gastric Emptying Scintigraphy" respectively. We congratulate Dr. Kwatra and look forward to continued interaction with her as a valuable member of the pediatric nuclear medicine community.

Dr. Kwatra will speak at the Annual Meeting in San Diego on **"Evaluating Urinary Infection: Using a 'Top-Down' vs. 'Bottom-Up' Approach"** (CE63, Tuesday, June 14, 8:20am, Room 32B). This will be a great opportunity to meet Dr. Kwatra and congratulate her on her contributions to pediatric nuclear medicine.

Later in 2016, the SNMMI will begin accepting applications for the Pediatric Imaging Council Internship position. Please check the [SNMMI Internship Program website](#) for information updates. This is a two-year commitment (July 2017- June 2019). The SNMMI Internship Program was established in 2008 with the aim *"To identify and train future leaders of SNMMI in the structure, governance, and operations of the organization; to prepare individuals for progressive levels of responsibility; to ensure effective leadership that advances the mission and goals of the organization"*. Trainees and junior faculty with a strong interest in pediatric nuclear medicine will be encouraged to apply

2015 PIC Investigator Awards

The Pediatric Imaging Council recognizes individuals within the field who have made significant contributions to pediatric imaging with the following awards, presented at each Annual Meeting. Congratulations to our 2015 award winners!

Majd-Gilday Young Investigator Award - Given to young scientists for outstanding research contributions to the field of pediatric nuclear medicine. [Learn more](#) about the Majd-Gilday Young Investigator Award. The 2015 Majd-Gilday Young Investigator Award Winner was Kitiwat Khamwan, PhD for his abstract "A pharmacokinetic model of 18F-fluorodeoxyglucose (FDG) PET imaging for infant patients".

Conway-Treves Senior Investigator Award - Given to senior scientists and physician-scientists who have contributed greatly to our subspecialty of pediatric nuclear medicine as a scientist, teacher, mentor and leader, or who have contributed substantially to the work of the Society of Nuclear Medicine or the SNMMI Pediatric Imaging Council. [Learn more](#) about the Conway-Treves Senior Investigator Award. Michael Gelfand, MD, was presented with the 2015 Conway-Treves Senior Investigator Award.

Pediatric Imaging Council Membership

As of the 2015 SNMMI Annual Meeting, membership in the PIC has increased for the second consecutive year! We encourage you to remind your SNMMI member colleagues and acquaintances that they can easily join the PIC during their annual renewal of SNMMI membership. For the bargain price of \$20/year, SNMMI provides you with the following PIC Member benefits:

- Full access to on-line discussions related to pediatric nuclear medicine using the Pediatric NM List Server. Members may submit questions and cases, review lectures and teaching files, and have on-line discussions related to pediatric nuclear medicine. [Learn more about the Pediatric NM List serve.](#)
- Pediatric Imaging Council newsletter is available to all members
- Annual Pediatric Imaging Council meeting with boxed lunch provided by the Council
- Annual Pediatric Imaging Council No-Host Dinner (no cost to the Council)
- Participation in SNMMI continuing medical education activities and categorical courses
- Access to SNMMI Pediatric Imaging Council web page: Updates related to on-going Council activities
- Updates on dose reduction efforts in pediatric nuclear medicine (including PET/CT and SPECT/CT)

Learn more about the specific benefits the PIC council has to offer [here](#)

2016 PIC Board of Directors Election

The ballot for the 2016 PIC Board of Directors Election is now open. This year the council will elect two Board Members.

Meet the Candidates

Board Member - Two Positions (Two-year term)

Adina Alazraki, M.D., FAAP



Adina Alazraki, M.D., FAAP is a pediatric radiologist, practicing for nearly 8 years with extensive training in body MRI and Nuclear medicine. Her early training and first years as faculty she focused on optimizing pediatric body MRI protocols and pathways. She has been invited to speak and publish on both pediatric body MRI and nuclear medicine including MIBG therapy for neuroblastoma on a national level. Since joining the faculty in radiology, she has assumed the task of further building the body MRI program in pediatrics as well as the PET/CT service and I-131-MIBG therapy programs at Children's Healthcare of Atlanta, Egleston. She has recently earned the title of associate program director for body MRI in the division of pediatric radiology at Emory University. More recently, she has been named as the primary overseer of Nuclear Medicine at Egleston.

Her past formal training includes general pediatrics. She practiced in a clinical outpatient setting for 5 years, and took on a leadership role at Children's Healthcare of Atlanta before returning for a second residency. Her current role at Emory University has led her to multidisciplinary collaboration within the hospital, building important relationships between radiology and gastroenterology/hepatology as well as oncology and pathology. She works closely with the referring pediatric faculty comprised of a stellar group of clinician-scientists representing some departments designated as centers of excellence at Emory. Working closely with physicist, she has developed new protocols and continue to test and update current protocols.

Neha Kwatra, M.B.B.S., M.D.



Dr. Kwatra is a staff radiologist at Boston Children's Hospital and an instructor in radiology at the Harvard Medical School. She is board certified in both diagnostic radiology and nuclear medicine and practices a mix of pediatric body imaging and pediatric nuclear medicine.

Dr. Kwatra was the intern of the pediatric imaging council of the SNMMI from 2013-2015 during which time she worked on updating and expanding the nuclear medicine section of the Image Gently website under the mentorship of Dr. Treves. She completed a radiology residency in India at the Postgraduate Institute of Medical Education and Research (2009), four fellowships in pediatric radiology at Children's National Medical Center in Washington DC (2013), followed by a one-year residency in nuclear medicine at the Joint Program in Nuclear Medicine in Boston (2014).

She has keen interest in nuclear medicine education and actively participates in training radiology and nuclear medicine residents and pediatric radiology fellows at Boston Children's Hospital. She has served as a representative on various ACR-SPR committees for updating guidelines related to nuclear medicine procedures. She has published manuscripts on topics involving skeletal, hepatobiliary and renal scintigraphy. Her current research interests include oncologic imaging and integration of advanced cross-sectional and nuclear imaging techniques.

Gelal Shalaby-Rena, MD



Eglal Shalaby-Rana M.D. went to medical school at Howard University, where she stayed to complete a Diagnostic Radiology residency. This was followed by a Pediatric Radiology fellowship at Johns Hopkins. She has been at Children's National Medical Center for the past 26 years, practicing general pediatric radiology and nuclear medicine. She has published in the fields of nuclear medicine and child abuse, her focused areas of interest. She has also given local and national invited talks on various topics in nuclear medicine, especially urinary tract imaging. On the administrative side, she chaired the Radiology Departmental Quality Improvement Committee for nearly 20 years. For the past 2.5 years, she has been Chair of the Hospital's Radiation Safety Committee. In her spare time, she enjoys reading, gardening and cooking.

Matthew Robertson, MD



I am well suited for a board member position on the Board of Directors for the Pediatric Imaging Council because of my previous training as well as my current experience in academic clinical practice. In addition to a diagnostic radiology residency, I have also completed a pediatric radiology fellowship and a nuclear medicine residency. My current position is as a pediatric radiologist specializing in nuclear medicine in a large free standing pediatric hospital. In my current position, I have been active in departmental imaging protocol revision with an emphasis on dose reduction and image optimization. As part of this process, I created an interactive tool to compare our current departmental weight based protocols with the 2014 harmonization guidelines across a range of patient weights. This allowed for rapid identification of protocols to

target for dose optimization.

Our hospital includes very active epilepsy and oncology services which has allowed for extensive interdepartmental collaboration and participation in clinical conferences. In addition, our infrastructure has allowed us to perform high dose MIBG administration in both pediatric and more recently adult patients, in collaboration with the oncologists at Nationwide Children's Hospital and The Ohio State University Wexner Medical Center. I believe that education of trainees is an integral part of being a physician and essential for the advancement of nuclear medicine.

I have been active in lecturing to rotating radiology and nuclear medicine residents, as well as pediatric radiology fellows, about proper technique and interpretation of pediatric nuclear medicine studies. In summary, I feel that given my prior training in both pediatric radiology and nuclear medicine, my current position as an academic pediatric radiologist specializing in nuclear medicine, and my desire to advance the field of pediatric nuclear medicine would make me an ideal candidate for a board member position on the Board of Directors for the Pediatric Imaging Council.

Zvi Bar-Sever, MD



Dr. Zvi Bar-Sever is the director of nuclear medicine at Schneider Children's Medical Center of Israel.

He is chairman of the Pediatric Committee of the European Association of Nuclear Medicine (EANM) and President of the Israeli Society of Nuclear Medicine. He is a member of the SNMMI AUC team on cholescintigraphy in abdominal pain and a member of the nuclear medicine committee within the SIOPEX study on neuroblastoma. Periodically he serves as an IAEA expert in pediatric nuclear medicine workshops organized by the IAEA in different Asian countries

Dr Bar-Sever received his medical degree at Tel-Aviv University. He completed a residency in pediatrics at Beilinson Medical Center, near Tel-Aviv and is a board certified pediatrician. He entered the field of Nuclear Medicine in 1993 and completed a residency at the Joint Program in Nuclear Medicine of Harvard Medical School. He also completed a fellowship in pediatric nuclear medicine at Boston Children's hospital in 1995-1996.

Dr Bar-Sever is a SNMMI member and a member of the pediatric imaging council since 1994 and gave several presentations at various CME activities during the SNM annual meetings.

His main research interests are DMSA renal scintigraphy, Resolution recovery techniques, MIBG scintigraphy, gastrointestinal scintigraphy and dose reduction in children. As chairman of the EANM Pediatric Committee he promotes collaboration on common projects (e.g. Guidelines on diuretic renography in children, radiopharmaceutical dose reduction), with the Pediatric Imaging Council

Please remember to cast your [VOTE!](#)

Ballots will close on **April 30, 2016 at midnight (EST)**.



See you in San Diego!

Make plans to attend the SNMMI Annual Meeting, June 11-15, 2016 in San Diego, CA

Please visit the [Pediatric Imaging Council website](#) for more information and to join!

2015 - 2016 PIC Board of Directors

Frederick D. Grant, MD	Council President
Ruth Lim, MD	Council Vice President
Andrew T. Trout, MD	Council Secretary/Treasurer
Susan E. Sharp, MD	Council Immediate Past President
Kevin W. Edwards, RT(R)(N),CNMT PET	Council Board of Directors
Neeta Pandit-Taskar, MD	Council Board of Directors
Victor Seghers, MD, PhD	Council Board of Directors
Hongming Zhuang, MD, PhD	Council Board of Directors
Larry A. Binkovitz, MD, MA	Non-Voting Member
Martin Charron, MD	Non-Voting Member
Michael J. Gelfand, MD	Non-Voting Member
Massoud Majd, MD	Non-Voting Member
Helen R. Nadel, MD	Non-Voting Member
Marguerite T. Parisi, MD, MS Ed	Non-Voting Member
Barry L. Shulkin, MD, MBA	Non-Voting Member
Stephanie Spottswood, MD, MSPH	Non-Voting Member
Lisa J. States, MD	Non-Voting Member
S. Ted Treves, MD	Non-Voting Member