The past 3 years have been challenging due to COVID-19. We had a glimpse of returning to normal, a new normal, at the Annual Meeting in Vancouver. I’d like to thank everyone who was able to make it to this meeting. It was a great success. The room was packed for our Pediatric PET Imaging session which exceeded expectations due to the remarkable talent in our council. The scientific session was also impressive with young talent presenting research to advance our specialty. Likewise, our therapy session provided experience and information useful for those who treat children with neuroblastoma and thyroid cancer.

Another highlight was our Interesting Case Competition, created by our PIC intern, Dr. Jen Gillman. A variety of interesting cases were submitted with each having a unique teaching point. The chosen case list is available on the PIC website. Kudos to Jen for making this a success. We will continue the case competition at the 2023 Annual Meeting, so flag those interesting cases. Our goal is to create an enduring education repository.

I read with interest the short article in the ACR Bulletin titled “The Power of Listening”. Listening by leadership is essential for creating unity and growth. The Mentoring program, piloted last year, has opened channels for dialogue. Each of the 4 groups had a different experience and raised ideas to build academic success for our members. The group I participated in was fulfilling on many levels, especially peer mentoring and friendship building. For the coming year, the PIC will explore opportunities for increasing networking and providing access to our leaders who continue to be involved and have a wealth of experience to share.

I look forward to the induction of Dr. Helen Nadel as the incoming President for the SNMMI at the Annual Meeting in Chicago. Congratulations Helen!! The PIC can take this opportunity to support our President, showcase our unique subspecialty and increase our global presence and participation. I would also like to congratulate another dear friend, colleague and mentor, Dr. Barry Shulkin, who is the recipient of the Conway-Treves Senior Investigator Award. Dr. Shulkin will be recognized during the PIC Board Meeting in Chicago. I hope to see you there.
Pediatric Renal Scintigraphy for Evaluation of Urinary Tract Obstruction – Why, When and How to do it

Sponsored by the SNMMI Pediatric Imaging Council
Organizers: Lisa J. States MD, Reza Vali MD
Moderators: Lisa J. States MD

Session Description
This course is designed to give a multi-disciplinary overview of the current practices used for the evaluation of children with concern for urinary tract obstruction. The lectures will provide a broad overview of urinary tract dilatation and include basic and complex cases. The educational focus is to provide an organized approach for evaluation of urinary tract dilatation in a variety of scenarios and to provide the urologist with the necessary information to optimize care for these children.

Session Objectives:
- Discuss how to optimize current procedures and protocols for performing renal scintigraphy with Lasix in children.
- Generate a report that will provide the urologist with information needed to determine if surgery is necessary.
- Provide guidance regarding follow-up imaging for evaluation of children with urinary tract dilatation.

**Presentations**

Urinary Tract Obstruction in the Pediatric Patient: A Urologist's Perspective  
Yi Li, MD, University of California, San Francisco

Diuretic Renography in Children: Harmonization of the SNMMI and EANM Guidelines  
Zvi Bar-Sever, MD, Tel Aviv University

Multimodality Imaging for Urinary Tract Obstruction- Are Renal Scintigraphy and MR Urography Complementary  
J. Christopher Davis, MD, Children’s Hospital of Philadelphia

Urinary Tract Obstruction: Interesting Cases from Simple to Complex  
Reza Vali, MD, MSc, Sick Kids Children’s Hospital

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**Pediatric Imaging and Therapy**

Sponsored by the ACNM

Organizer: Katherine Zukotynski, MD, PhD, PEng, FSNMMI

Moderator: Ruth Lim, MD

**Session Description**

This course will provide an update on molecular imaging and targeted therapy for the pediatric population. We will include clinical pearls and pitfalls as well as illustrative case examples. The intended audience includes all members of the healthcare team who help pediatric patients (lectures will be primarily geared to residents, fellows, and practicing clinicians).

**Session Objectives**
Discuss advances in pediatric imaging
Discuss advances in pediatric therapy
Review advances through the setting of illustrative case examples

Presentations

Pediatric GI Imaging: Will a Drink Help?
Helen R. Nadel, MD, FRCPC, FSNMMI, Lucile Packard Children’s Hospital

Pediatric GU Imaging: What you were Afraid to Ask
Ruth Lim, MD, Massachusetts General Hospital/Harvard Medical School

Nuts and Bolts of Starting a Pediatric Therapy Program
Hollie Lai, MD, CHOC Children’s Hospital

MIBG Therapy: All you Need to Know!
Frederick D. Grant, MD, Children’s Hospital of Philadelphia

Please Join Us for our Session
Saturday, January 28, 8:00–10:00 am PT

Molecular Imaging of Fever of Unknown Origin in Adults and Children

Sponsored by the SNMMMI General Clinical Nuclear Medicine Council and Pediatric Imaging Council

Organizers: Christopher J. Palestro, MD

Moderators: Reza Vali, MD

Session Description

Molecular imaging studies are often performed as part of the diagnostic workup of these patients. Although in-vitro labeled leukocytes and gallium-67 citrate were, for many years, the mainstay of molecular imaging for FUO, fluorine-18-fluorodeoxyglucose positron emission tomography has assumed an increasingly vital role in the diagnostic workup of this entity and in most circumstances is the
molecular imaging test of choice in the patient with FUO. This clinically focused session, designed for imaging specialists, technologists, and clinicians, will provide a comprehensive review of clinical aspects of FUO in adults and children, provided by adult and pediatric infectious disease specialists, as well as a guide to the most useful, cost-effective approaches to molecular imaging of FUO, based on the SNMMI’s AUC for FUO. It will conclude with a panel discussion about the SNMMI’s AUC for FUO.

Session Objectives
- Discuss the clinical aspects of FUO in both adults and children.
- List the strengths and limitations of molecular imaging in patients with FUO.
- Select the most appropriate molecular imaging test for a specific patient with FUO, based on the SNMMI’s AUC for FUO.

Presentations

FUO in Adults
Sheetal Kandiah, MD, Emory University

Molecular Imaging of FUO in Adults
Christopher J. Palestro, MD, Zucker School of Medicine at Hofstra/Northwell

FUO in Children
Sanjay Jain, MD, Johns Hopkins University
Knowlton

Molecular Imaging of FUO in Children
Barry Shulkin, MD, St. Jude Children’s Research Hospital

Panel Discussion

SNMMI Pediatric Imaging Council (PIC) Imaging Case Competition
The SNMMI Pediatric Imaging Council will continue Imaging Case Competition at this year’s SNMMI Annual Meeting, which takes place on June 24 – 27 in Chicago.

Please refer to the website for an example of a case entry.

**Deadline:** May 30, 2023

**Case Criteria:**

- Case competition submissions should include nuclear medicine studies in the pediatric population but can also include additional relevant diagnostic/interventional images.
- Types of cases to consider submitting range from classic cases, unusual/uncommon cases, interesting artifacts, or medication-effects, etc.
- There is no limit to the number of cases you can submit. You do not need to be an SNMMI member to submit cases.

**Top 3 winning cases:**

- Showcased at the 2023 SNMMI Annual Meeting
- Cash Prize: $100 per case for top 3
- Chance to be published in either *Clinical Nuclear Medicine* Journal or the SNMMI PIC Newsletter
- free registration to SNMMI annual meeting for the topmost one.
- Chance for Free membership to the SNMMI Pediatric Imaging Council

*Mentorship is a key component of professional development in our field. PIC initiated a mentor and mentorship program to help members for their career development, leadership guide, and collaboration. If you are interested to join as a mentor, mentee, or both, please contact Dr. Lisa States (STATES@chop.edu) or Dr. Reza Vali (reza.vali@sickkids.ca).

There are currently four (4) mentorship groups. All have a heterogenous mix. There is clearly a need for mentorship amongst non-physicians. SNMMI members from outside the PIC are also welcomed to join the PIC mentorship program.*
Barry L. Shulkin MD MBA is section chief of nuclear medicine, Department of Diagnostic Imaging, St. Jude Children’s Research Hospital, Memphis, Tennessee. Barry is a graduate of the University of Texas Austin, University of Texas Southwestern Medical School, and was an internal medicine resident at the University of Texas Southwestern Affiliated Hospitals (Parkland Memorial Hospital and the Dallas Veterans Administration Hospital). He completed a fellowship in endocrinology at the University of North Carolina and followed by a 2-year residency in nuclear medicine at the University of Michigan. After completion of nuclear medicine, Barry had the opportunity to remain at UM to lead the new nuclear medicine satellite unit at the adjacent Mott Children’s Hospital. An expected one-year appointment lasted 18 years where he rose through the academic ranks to Professor of Internal Medicine/Nuclear Medicine, then Professor of Radiology. He served as interim chief of nuclear medicine for 1.5 years. Within pediatric nuclear medicine, he developed expertise in imaging and treatment of endocrinologic disorders and tumors. He was one of the first investigators to report the use of FDG for the characterization of tumors in pediatric patients as well as PET tracers – carbon-11 hydroxyephedrine, and carbon-11 epinephrine for pheochromocytoma and neuroblastoma.

In 2004 Barry joined the faculty of St. Jude Children’s Research Hospital to lead an initiative in biomedical imaging using PET tracers. His group has conducted over 450 carbon-11 methionine scans, principally in patients with CNS tumors. He continues to direct investigations using fluorine-18 fluorodopamine in patients with neuroblastoma and has plans to incorporate nitrogen-13 ammonia in the evaluation of selected patients with hematologic disorders. In our last meeting, Barry mentioned that “he is a great fan of Dr. Treves and Conway, quickly becoming aware of their huge contributions early in his career. Barry served on the American Board of Nuclear Medicine, representing the pediatric interests and concerns that Drs Conway and Treves previously served. He is particularly humbled by the enclosed photo of himself with Drs Treves and Conway, as well as the upcoming president of the SNMMI, Helen Nadel. He expresses deep gratitude for this high honor and is humbled to be among the recipients. He has many people to thank for this recognition.”
Participation Opportunity

The PIC has been invited to collaborate on the EANM led document “Guidelines for pediatric bone hybrid imaging with 99m Tc-labelled radiopharmaceuticals and [18F] fluoride. Please contact Dr. Lisa States (STATES@chop.edu) or Dr. Reza Vali (reza.vali@sickkids.ca).

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