THE SOCIETY FOR PEDIATRIC RADIOLOGY

2017 Annual Meeting and Categorical Course

May 16 - 20, 2017
The Westin Bayshore, Vancouver
Vancouver, British Columbia, Canada

“Children’s Imaging: Creating Change, Celebrating Success”

Jointly provided by the American College of Radiology

Program At A Glance
The SPR 2017 Annual Meeting and Categorical Course

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GENERAL INFORMATION

ACCREDITATION STATEMENT
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American College of Radiology and the Society for Pediatric Radiology. The American College of Radiology is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT
The American College of Radiology designates this activity for a maximum of 34.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

TECHNOLOGISTS
The American College of Radiology is approved by the American Registry of Radiologic Technologists (ARRT) as a Recognized Continuing Education Evaluation Mechanism (RCEEM) to sponsor and/or review Continuing Medical Educational programs for Radiologic Technologists and Radiation Therapists.

The American College of Radiology designates this educational activity as meeting the criteria for up to 38.25 Category A credit hours of the ARRT.

OBJECTIVES
1. Summarize the most current information on state-of-the-art pediatric imaging and the practice of pediatric radiology.
2. Describe and apply new technologies and imaging findings for pediatric imaging.
3. Discuss trends in research and education concerning the care and imaging of pediatric patients.
4. Identify common challenges facing pediatric radiologists, and possible solutions.
5. Describe and apply basic principles for implementing quality and safety programs in pediatric radiology.
6. Evaluate and apply means of minimizing radiation exposure during diagnostic imaging and image-guided therapy.

OBTAINING A CME CERTIFICATE
To obtain a CME certificate, you must access the online claiming website. The URL, along with your username and password were sent prior to the start of the Meeting. Once you have accessed the site, you should claim credit for the session(s) that you participated in, as well as complete the applicable evaluation forms. If you do not complete this online process, you will not receive a CME certificate. The online claiming website can also be used to obtain ARRT credit and certificates of participation. Please see the staff at the Registration Desk with questions.
EVALUATIONS
Evaluations of the 2017 SPR Annual Meeting must be completed online via the online claiming website. Please take a moment to respond to the applicable evaluations to assist us in planning future programs and to enable us to continue to provide CME for our educational activities.

SAM
Qualified on February 24, 2017, select sessions from this activity meet the American Board of Radiology criteria for a self-assessment (SAM) activity and is designated for up to 16.25 SAM credits toward the ABR Maintenance of Certification program.

OVERVIEW OF SESSIONS
Categorical Courses
There are two exciting Categorical Course offerings to delegates this year, so the choices are rich! The courses are offered in parallel, with the first session on Tuesday a combined session for all attendees. The General Course is “The Other 10%”, referring to the extra knowledge that is gained only from experience, which we hope to pass on as “secrets of the experts”; this course will emphasize radiographs, and how advanced imaging has reinforced our interpretation of the “plain” film, the most used but likely most easily misinterpreted imaging study. The Subspecialty Course is devoted to the subtleties of advanced musculoskeletal imaging, where the tips and tricks offered can benefit the skills of even seasoned radiologists. Ten of the sessions will offer Self-Assessment Modules (SAMs), with updated use of the always-engaging RSNA Diagnosis Live™ software that can be accessed easily on any smartphone, tablet or computer. Be sure to bring your charged device to be able to participate electronically; SAMs credits can still be earned through paper submissions, however, should you not have an accessible device available. And don’t miss out on the fun of watching two teams of celebrity pediatric radiologists vie to be champions in the all-new Ped Rad Jeopardy featuring your hosts, Drs. George Bisset and Lane Donnelly!

Sunrise Sessions
From Wednesday through Friday mornings from 7:00 to 8:20 am, there will be a series of concurrent sunrise sessions focusing on a wide variety of state-of-the-art imaging techniques including body MR, fetal MR, forensic imaging, ultrasound contrast, and ultrasound breast and thyroid imaging. Learn more about new methods of education in the teaching and learning through your own device session. Insights into the growing field of computer science will be discussed in the machine learning session. Issues with reconciling imaging, imagining and managing radiation dose will be highlighted in the Image Gently session. Learn more about diagnostic errors, peer review, and professionalism education in the quality and professionalism session.

Radiographer Program Track
The second radiographer program in conjunction with the SPR Annual Meeting will include a program track dedicated to radiographers. This program track will run Wednesday, May 17, 2017 through Friday, May 19, 2017. Sessions focused on topics in all radiology modalities, and also includes a scientific session with a variety of topics from your peers. Lectures will be delivered by radiographers and radiologists from North America and Canada. (limited space; advanced registration required)
SATURDAY TOPIC-FOCUSED SESSIONS

Interventional Radiology Session (SAM Session)
Led by experts in pediatric IR, this session gives insight into some of the more exciting developments in pediatric interventional radiology. It will begin with updates on Interventional Oncology and MRI Based Interventions followed by a discussion of IR management of Spinal pain and Trauma. The final segment will familiarize attendees with the medical aspects of managing vascular anomalies leaving time at the end for open discussion of cases with our panel of experts.

Neuroradiology Session (SAM Session)
The Pediatric neuroradiology session for 2017 will include a focus on the pediatric spine, followed by an update on pediatric brain tumors and a discussion of pediatric head and neck tumors and finally a talk on metabolic disease. The spine session will include talks covering the spectrum of congenital spine lesions and a discussion of pediatric spinal tumors. We will conclude the spine portion with a presentation on pediatric spine trauma. Recent advances in the epigenetics and molecular subtyping of pediatric brain tumors related to tumor behavior are being incorporated into stratification of treatment protocols. Awareness of these advances will be important in interpreting the imaging studies of these patients. The head and neck tumors portion will focus on the various lesions that affect children and the differential considerations which depend on the age of onset, location, and imaging characteristics. The gamut of pediatric head and neck masses will be reviewed with focus on distinctive imaging and clinical features in addition to highlighting certain genetic mutations and patient outcomes. Neurometabolic diseases represent a broad spectrum of rare entities, some of which can respond favorably to treatment, making recognition particularly important and otherwise potentially informative for family counseling. A neuro-radiologic pattern approach will be presented to help sort through this myriad of diagnoses. Time will be made for questions.

Practical and Possible Pediatric Nuclear Medicine (SAM Session)
A half-day session with strong focus on multidisciplinary evaluation of hot topics in pediatric oncology and nuclear medicine. This session is geared toward both pediatric radiologists and nuclear medicine physicians. This session highlights multidisciplinary approach to the management of patients with thyroid cancer including clinical and imaging focused discussions. SPECT/CT imaging indications, optimization and dose reduction techniques will be shared. Future trends in hybrid imaging to direct biopsy and response assessments. Novel topics to include oncogenomics and personalized approaches to treatment will also be a highlight. On the nuclear medicine side, epilepsy and the multimodality, multidisciplinary approach will be presented. The session includes speakers from national oncology groups.

PET/MR Session (SAM Session)
This year there will be a half-day session dedicated to PET/MR, an emerging cutting edge hybrid imaging technique for imaging pediatric patients. Led by experts in pediatric PET and MR imaging, this session will include discussion of how to setup a pediatric PET/MR imaging program including technical considerations and protocol development, oncologic and nononcologic applications of PET/MR in children, as well as comparison of the pros and cons of PET/MR compared with other pediatric imaging modalities. This session promises to be a wide-ranging introduction to this exciting technology.
WFPI Session “Outreach in Pediatric Radiology: Addressing Needs, Challenges and Ethical Issues” Delivering
Delivering imaging support to lower resource settings is always a challenge, and organizations can learn a great deal from one another on what works and what to avoid. To this end, WFPI has invited a rich panel of international partners, including Doctors Without Borders, Imaging the World, RAD AID, and Friends Without Borders’ Children’s Hospital Laos, to hold a frank exchange on lessons learned and how to secure real results in pediatric imaging aid. This half-day session will take place Saturday morning. Welcome!

Hands-On Ultrasound Session: How To Do It Right!
Ultrasound is the most versatile and valuable of the non-ionising radiation imaging modalities, and pediatric radiologists continue to be at the forefront of developing and adopting new and improved ultrasound techniques. This hands-on ultrasound session will focus both on advanced ultrasound imaging incorporating ultrasound elastography and contrast ultrasound as well as 2 challenging pediatric ultrasound applications, diaphragmatic and peripheral vascular ultrasound. The course will provide a mix of didactic lectures, demonstration of exams by expert sonologists, and hands-on scanning by participants with faculty guidance. It will also include in vitro demonstration of ultrasound contrast application. The Session begins with contrast US. This will be followed by applications and techniques of elastography in the pediatric abdomen. After this ultrasound of the diaphragm will be covered. The final part is devoted to ultrasound of the peripheral vascular structures for thrombosis. Throughout the session there will be an emphasis on practical techniques to improve sonographic diagnostic performance. (limited space; advance registration required)

OVERVIEW OF NON-CME SESSIONS

3D Read with the Experts Lunch Session
(Lunch provided for the first 100 participants)
We invite you to participate in the Eighth Annual 3D Read with the Experts lunch session on Wednesday, May 17th from 12:05-1:15 pm. The goals of this session are for Pediatric Radiologists to observe 3D, 4D, and other image post-processing techniques, to interact with presenting experts, and to learn how to incorporate 3D and other techniques, including 3D printing, into their Pediatric Radiology practices. A broad range of clinical and surgical issues will be addressed along with practical applications of image processing technology.

Protocol Sessions
(*Lunch provided for the first 60 participants per applicable session)
Protocol refinement and problem solving sessions will be offered again this year. The goal of these sessions is to develop, through discussion and interaction, manufacturer-specific CT*, MR* and US protocol improvements. Provided templates and audience suggestions, and discussions of challenges will help fashion protocol improvements. Participants should come prepared with specific questions and challenges. The discussion will be led by experts in the field who have hands-on experience with the equipment operation and protocol design. Vendors will also have representatives, who can respond to questions about trouble with specific exam types, sequencing, best sequencing processes, image optimization, dose reduction, etc.
**JUNIOR SPR PROGRAM**

If you are a trainee or younger than 40 years of age, please join us for the annual Junior SPR (jSPR) Night Out! The jSPR is an organization dedicated to meeting the needs of young pediatric radiologists as they embark on their careers. We will have an early evening happy hour at Yaletown Brewing Co.* on Thursday, May 18th from 6:30-8:00 p.m., so please come, connect, and have fun with your colleagues and friends! Also, be sure to attend the jSPR Luncheon early that day from 12:00-1:20 p.m. There will be a presentation on Transitioning from Fellowship to the Real World: The Academic and Private Settings. (*Advanced registration required)

**POSTER EXHIBITS**

The electronic poster exhibits are available for viewing from your own personal device. There will also be a bank of computers available for viewing in the Bayshore Grand Ballroom D-F beginning the morning of Wednesday, May 17th. From there on, the computers will be available during meeting hours. Potential award winning scientific posters will be presented in the foyer outside of the Ballroom during breaks beginning Tuesday afternoon. Stop by to meet with the authors and listen to their work.

**SPR 2017 ONLINE CASE OF THE DAY**

*Sponsored by World Federation of Pediatric Imaging*

*Tuesday, May 16 – Friday, May 19, 2017*

On each day of SPR 2017 except Saturday, a new web-based “Case of the Day” online system will show six new unknown cases to challenge your pediatric radiology knowledge. From 7:00 a.m. each day Vancouver time go to: http://sprcod.org from virtually any web connected device including common smartphones. After completing a simple one-time registration process, you will see a link to a new case every day in each of six categories and then submit your answer online. The six categories are: 1) Chest / Cardiac, 2) Neuro / Head and Neck, 3) Abdomen / Pelvis, 4) Musculoskeletal, 5) Interventional and 6) Fetal.

This SPR case based educational activity is open to any pediatric radiology person worldwide. An additional category “Fun and SPR History” is exactly that, and will show images of past SPR events, pediatric radiology personalities or other fun material, but these answers will not be counted for the leaderboard or overall winner.

Overnight, you will receive an email revealing the correct answer with a link to further images and an explanation for each of the previous day's cases. CME will not be provided for this activity. A cumulative leaderboard will show the top 20 participants and the overall winner will be announced at the SPR banquet.

Hit the books, brush up on your pediatric or paediatric radiology knowledge and get ready for a new online case based educational experience.
COMMERCIAL EXHIBITS
Many sponsoring companies and book vendors are hosting exhibits at this year’s meeting. Exhibits will open starting with breakfast on Wednesday, May 17th, and will then be open for all continental breakfasts and coffee breaks through Friday, May 19th. The exhibits will be in the Bayshore Grand Ballroom, Sections D-F. Please stop by to thank the representatives for their support and to learn about their latest products and services.

INTERNET ACCESS
Internet access will be available throughout the meeting space. The credentials to gain access are: Network Name: Westin Conference Password: Vancouver

Complimentary Internet access is also available in your guest room. If you have difficulty connecting, please contact the Hotel’s Front Desk personnel for assistance.

SPEAKER READY ROOM
All presenters should visit the Speaker Ready Room at least one (1) day prior to presentation in order to drop off or review a presentation. The Speaker Ready Room is located in the Fraser Room and will be open per the following schedule:

Monday, May 15th 2:00 p.m. – 5:00 p.m.
Tuesday, May 16th 6:30 a.m. – 5:00 p.m.
Wednesday, May 17th 6:00 a.m. – 5:00 p.m.
Thursday, May 18th 6:00 a.m. – 5:00 p.m.
Friday, May 19th 6:00 a.m. – 5:00 p.m.
Saturday, May 20th 7:00 a.m. – 10:00 a.m.

SPECIAL EVENTS
SPR Research and Education Foundation Fun Run
Underwritten by Texas Children’s Hospital
Wednesday, May 17, 2017
6:00 a.m.
Join us for a three-mile run through Stanley Park and get your day off to a great start! Runners and walkers are all welcome. Entrance fee is $25 and includes a T-shirt. Runners/walkers should meet in the Hotel lobby at 5:45 a.m.

Welcome Reception
Wednesday, May 17, 2017
6:30 – 7:45 p.m.
Westin Bayshore Vancouver Hotel
Hors d’oeuvres and Refreshments
Business Casual Attire

Reception and Banquet
Friday, May 19, 2017
7:30 – 11:00 p.m.
Westin Bayshore Vancouver Hotel
Reception, Dinner and Dancing
Business Casual Attire
The Society for Pediatric Radiology
2017 Annual Meeting and Categorical Course

ANNUAL MEETING PROGRAM

TUESDAY – MAY 16, 2017

7:00 AM 8:00 AM Continental Breakfast

7:00 AM 5:45 PM Registration

7:00 AM 7:45 AM AAWR Networking Breakfast (Non-CME Session; registration required) STANLEY PARK 3

7:00 AM 7:45 AM Siemens PET/MR Presentation (Non-CME Session; first-come, first-serve) STANLEY PARK 1 & 2
Clinical Use of PET/MR for Pediatric Patients at New York University
Presented by Roy A. Raad, MD
Nuclear Medicine Physician at New York University School of Medicine, Assistant Professor - Department of Radiology

7:45 AM 7:50 AM Welcome and Introduction BAYSHORE GRAND A-C
Diego Jaramillo, MD, MPH, SPR President

7:50 AM 8:00 AM Categorical Course Overview
MSK Imaging Categorical Course Directors
Nancy A. Chauvin, MD and Jerry R. Dwek, MD

General Pediatric Radiology Categorical Course Directors
Christopher I. Cassady, MD, FAAP and
Sarah S. Milla, MD, FAAP

8:00 AM 9:30 AM Practical MSK Radiography for All (SAM Session) BAYSHORE GRAND A-C
Christopher I. Cassady, MD, FAAP and
Sarah S. Milla, MD, FAAP, Moderators

8:00 - 8:25 a.m. Scoliosis: What and Why
John D. MacKenzie, MD

8:25 - 8:50 a.m. Disorders of Foot Alignment
Tal Laor, MD

COLOR KEY
Scientific Session (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*
General Session
Sunrise Session (concurrent)
Radiographer Program

*Held concurrently
8:50 - 9:15 a.m.  **Radiographic Expression of the Common Skeletal Dysplasias**  
Ralph S. Lachman, MD

9:15 - 9:30 a.m.  **Q&A with RSNA Diagnosis Live™**

9:30 AM - 10:30 AM  **Contrast Enhanced Ultrasound**  
*Bayshore Grand A-C*  
Peter N. Burns, PhD  
Professor and Chairman of Medical Biophysics  
Professor of Radiology  
University of Toronto  
Senior Scientist, Sunnybrook Research Institute, Toronto

10:30 AM - 10:50 AM  **Break**

10:55 AM - 12:05 PM  **Scientific Session I-A: Gastrointestinal Radiology – Inflammatory Bowel Disease**  
*Bayshore Grand A-C*  
Marie-Louis C. Greer, MBBS and Alex El Ali, MD, Moderators

<table>
<thead>
<tr>
<th>Paper</th>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA-001</td>
<td>10:55 AM</td>
<td>Hagerott, Heidi Assessment of Pediatric Radiologists on the utilization of Bowel Ultrasound in the diagnosis and management of children with inflammatory bowel disease</td>
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<tr>
<td>PA-002</td>
<td>11:05 AM</td>
<td>Wang, Gary A combined MR enterography-perianal MRI protocol is feasible and improves perianal disease evaluation over standard MRE in pediatric Crohn's disease patients</td>
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<tr>
<td>PA-003</td>
<td>11:15 AM</td>
<td>Orscheln, Emily Penetrating Crohn Disease: Does It Occur in the Absence of Stricturing Disease?</td>
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<td>PA-004</td>
<td>11:25 AM</td>
<td>Wu, Kaiming Magnetic resonance enterography (MRE) imaging biomarkers of long-term remission on surveillance imaging of asymptomatic pediatric Crohn's disease patients findings,</td>
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<tr>
<td>PA-005</td>
<td>11:35 AM</td>
<td>Tabari, Azadeh Texture analysis parameters of MRE post-contrast images can distinguish fibrotic from mixed inflammatory strictures in pediatric patients with Crohn's disease</td>
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<tr>
<td>PA-006</td>
<td>11:45 AM</td>
<td>Wu, Kaiming Cross Sectional Imaging of Jejunal Crohn's Disease (CD) in Pediatric Patients: Clinical Significance and Key Diagnostic Features</td>
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<td>PA-007</td>
<td>12:05 PM</td>
<td>Cruz Romero, Cinthia Exclusive small bowel CD: imaging genetic profile and clinical presentation</td>
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**NOTE:** For the scientific papers, PA is an abbreviation for Paper #

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<tr>
<td><strong>Scientific Session</strong> (held concurrently or tri-currently)</td>
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<tr>
<td><strong>General Pediatric Radiology Categorical Course</strong>*</td>
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<td><strong>Musculoskeletal Imaging Categorical Course</strong>*</td>
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<th>Time</th>
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<th>Speakers</th>
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<tr>
<td>10:55 AM</td>
<td>Scientific Session I-B: Cardiovascular – CTA</td>
<td><strong>Lorna P. Browne, MD and Ting Tao, MD, PhD, Moderators</strong></td>
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<td>PA-008 10:55 AM - 11:05 AM</td>
<td>Cervantes, Luisa</td>
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<td>PA-009 11:05 AM - 11:15 AM</td>
<td>Zucker, Evan</td>
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<td>PA-010 11:15 AM - 11:25 AM</td>
<td>Lewis, Heidi</td>
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<td>PA-011 11:25 AM - 11:35 AM</td>
<td>Jadhav, Siddharth</td>
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<td>PA-012 11:35 AM - 11:45 AM</td>
<td>Deaver, Pamela</td>
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<td>PA-013 11:45 AM - 11:55 AM</td>
<td>Artunduaga, Maddy</td>
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<td></td>
<td>PA-014 11:55 AM - 12:05 PM</td>
<td>Artunduaga, Maddy</td>
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**12:10 PM - 1:25 PM:** Lunch On Your Own

**12:10 PM - 1:25 PM:** BioMarin Pharmaceutical Inc. Lunch Session with Ralph S. Lachman, MD (STANLEY PARK 1 & 2) (Non-CME Session; first-come, first-serve)

**1:30 PM - 3:20 PM:** General Pediatric Radiology: Musculoskeletal (SAM Session) **(Baysphere Grand A-C)**
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<th>Time</th>
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<th>Speakers</th>
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<tr>
<td>1:30 - 1:45 p.m.</td>
<td>Elbow: Don’t be a FOOL</td>
<td>Kiery Braithwaite, MD</td>
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<td>1:45 - 2:00 p.m.</td>
<td>Mistakes by Pediatric Radiologists in MSK Interpretations</td>
<td>James E. Crowe, MD</td>
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<td>2:00 - 2:15 p.m.</td>
<td>Bone Age: Beyond G+P</td>
<td>David B. Larson, MD</td>
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- **Scientific Session** (held concurrently or tri-currently)
- **General Pediatric Radiology Categorical Course**
- **Musculoskeletal Imaging Categorical Course**
- **General Session**
- **Sunrise Session** (concurrent)
- **Radiographer Program**

*Held concurrently*
2:15 - 2:25 p.m. Bone Density: Is DR Adequate?  
Jeanette M. Perez-Rossello, MD

2:25 - 2:45 p.m. How to Read a Pediatric DEXA  
Adina L. Alazraki, MD, FAAP

2:45 - 3:05 p.m. If Only I Would Have Known (Or Listened!) A Twenty Year Reflection  
Kelley W. Marshall, MD

3:05 - 3:20 p.m. Q&A with RSNA Diagnosis Live™

1:30 PM 3:20 PM Musculoskeletal Imaging: Congenital Development Disorders STANLEY PARK 1 & 2  
Sarah D. Bixby, MD and Benjamin H. Taragin, MD, Moderators

1:30 - 1:45 p.m. Update on DDH: Imaging and Treatment  
J. Herman Kan, MD

1:45 - 2:05 p.m. Lower Extremity Alignment: Genu Varum/Genu Valgum  
Arthur B. Meyers, MD

2:05 - 2:25 p.m. Perplexing Perthes  
Yassine Kanaan, MD

2:25 - 2:45 p.m. SCFE  
Benjamin H. Taragin, MD

2:45 - 2:55 p.m. Brachial Plexus Birth Palsy  
Nancy A. Chauvin, MD

2:55 - 3:20 p.m. MSK Intervention  
Mark Hogan, MD, FSIR

3:20 PM 3:40 PM Break

3:45 PM 5:35 PM General Pediatric Radiology: Chest I (SAM Session) BAYSHORE GRAND A-C  
Christopher I. Cassady, MD, FAAP, Moderator

3:45 - 4:10 p.m. Plain Film Cardiac Dx I: Heart Size and Shape  
Laureen M. Sena, MD

4:10 - 4:30 p.m. PF Cardiac II: Pulmonary Vascularity  
Robert J. Fleck, MD

4:30 - 4:45 p.m. Lines/Devices: Weird, Wild and Wacky  
Paul Thacker, MD

4:45 - 5:00 p.m. Getting a Good Chest Radiographer: How To  
Shailee Lala, MD

COLOR KEY

Scientific Session (held concurrently or tri-currently)  
General Pediatric Radiology Categorical Course*  
Musculoskeletal Imaging Categorical Course*

General Session  
Sunrise Session (concurrent)  
Radiographer Program

*Held concurrently
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| 5:00 - 5:20 p.m. | **Secrets of the Experts: 5 Things I Learned the Hard Way in Chest Imaging**  
Beverley Newman, MD, FACR          |
| 5:20 - 5:35 p.m. | **Q&A with RSNA Diagnosis Live™**                                    |
| 3:45 PM - 5:35 PM | **Musculoskeletal Imaging: Marrow and Infectious Disorders (SAM Session)**  
**STANLEY PARK 1 & 2**  
Nancy A. Chauvin, MD and Jerry R. Dwek, MD, Moderators |
| 3:45 - 4:05 p.m. | **MRI of Bone Marrow**  
R. Paul Guillerman, MD                              |
| 4:05 - 4:30 p.m. | **Imaging of Bone Tumors**  
Kirsten Ecklund, MD                                      |
| 4:30 - 4:55 p.m. | **Imaging of Soft Tissue Tumors**  
Kathleen Emery, MD                                         |
| 4:55 - 5:20 p.m. | **Infection**  
Erica Schallert, MD                                          |
| 5:20 - 5:35 p.m. | **Q&A with RSNA Diagnosis Live™**                                    |
| 5:35 PM      | **Adjourn**                                                           |

**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
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- **Musculoskeletal Imaging Categorical Course***
- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently
6:00 AM  SPR REF Fun Run (pre-registration required)
6:30 AM  8:30 AM  Continental Breakfast & Exhibits
6:30 AM  8:00 AM  Radiographer Continental Breakfast & Mingle
           Cowichan Room
6:30 AM  5:30 PM  Registration
7:00 AM  8:20 AM  State-of-the-Art Body MR Imaging
           BAYSHORE GRAND A-C
           R. Paul Guillerman, MD, Moderator

           7:00 - 7:15 a.m. Secretin Enhanced MRCP
                           Andrew T. Trout, MD
           7:15 - 7:30 a.m. Clinical Application of Cine MRI Surgical Planning
                           in Persistent Obstructive Sleep Apnea
                           Robert J. Fleck, MD
           7:30 - 7:45 a.m. Gadolinium Deposition Disease
                           R. Paul Guillerman, MD
           7:45 - 8:00 a.m. Ferumoxytol
                           Shreyas S. Vasana\\nalwa, MD, PhD
           8:00 - 8:15 a.m. Pediatric PET/MRI: Current and Future Directions
                           Maria Rosana Ponisio, MD
           8:15 - 8:20 a.m. Questions and Answers
7:00 AM  8:20 AM  Practical Pediatric Sonography  STANLEY PARK 1 & 2
               Monica Epelman, MD, Moderator

           7:00 - 7:20 a.m. Enhancement of Cranial US: Utility of
                           Supplementary Acoustic Windows and Doppler
                           Harriet Pattiel, MDCM
           7:20 - 7:40 a.m. Chest US Review and Update
                           Monica Epelman, MD
           7:40 - 8:00 a.m. Tips for Ultrasound in Necrotizing Enterocolitis
                           Ricardo Faingold, MD
           8:00 - 8:20 a.m. Sonography of Soft-Tissue Vascular Lesions
                           Oscar M. Navarro, MD

COLOR KEY
Scientific Session (held concurrently or tri-currently)  General Session
General Pediatric Radiology Categorical Course*  Sunrise Session (concurrent)
Musculoskeletal Imaging Categorical Course*  Radiographer Program
*Held concurrently
7:00 AM  8:20 AM  Quality and Professionalism  OAK 1 & 2
Lane F. Donnelly, MD, Moderator

7:00 - 7:20 a.m.  The IOM Report on Diagnostic Error: How the Thinking of Human Error Has Evolved and What That Means for Radiology Peer Review
David B. Larson, MD, MBA

7:20 - 7:40 a.m.  Key Components to Converting from Peer Review to Peer Collaborative Learning
Lane F. Donnelly, MD

7:40 - 8:00 a.m.  Team Building in Radiology
George S. Bisset, MD, FACR

8:00 - 8:20 a.m.  Professionalism Education in Pediatric Radiology
Brandon P. Brown, MD, MA

7:00 AM  8:20 AM  CT Imaging in Congenital Heart Disease
STANLEY PARK 3
Prakash M. Masand, MD and Lorna P. Browne, MD, Moderators

7:00 - 7:14 a.m.  Cardiac CTA Techniques & Indications in Pediatric CHD
Pamela Deaver Ketwaroo, MD

7:15 - 7:28 a.m.  CT Angiography in Neonates and Infants
Karen Lyons, MB BCH BAO, FFRCSI

7:29 - 7:42 a.m.  CT Angiography in the Evaluation of the Fontan Conduit in Pediatric Patients
Andrada R. Popescu, MD

7:43 - 7:56 a.m.  CT Angiography of the Post-Operative Cardiovascular Shunts in Pediatric Patients
Prakash M. Masand, MD

7:57 - 8:10 a.m.  CT Angiography for Pediatric Coronary Anomalies
Lorna P. Browne, MD

8:10 - 8:20 a.m.  Questions and Answers
8:30 AM 9:50 AM General Pediatric Radiology: Chest II & IR (SAM Session*) BAYSHORE GRAND A-C
Christopher I. Cassady, MD, FAAP, Moderator

8:30 - 8:50 a.m. Lateral Chest: Underused and Overlooked
Alan S. Brody, MD

8:50 - 9:10 a.m. Neo Chest: Dots + Bubbles
Meryle Eklund, MD

9:10 - 9:30 a.m. Infant Lung Disease: When What You Know Isn’t So
R. Paul Guillerman, MD

9:30 - 9:50 a.m. 5 Things Every Ped Rad Should Know About IR
Manraj K. S. Heran, MD, FRCPC

8:30 AM 9:50 AM Musculoskeletal Imaging: Sports Imaging – Lower Extremity Part I STANLEY PARK 1 & 2
Kirsten Ecklund, MD and Arthur B. Meyers, MD, Moderators

8:30 - 8:40 a.m. Lower Extremity Sports Injuries – Case Examples
Jeffrey L. Koning, MD

8:40 - 9:10 a.m. The Pediatric Hip: Evolution to Degeneration
Kieran Frawley, MBBS, FRANZCR

9:10 - 9:50 a.m. Hip Imaging: Injuries and FAI
Sarah D. Bixby, MD

8:30 AM 9:50 AM Radiographer Refresher Course OAK 1 & 2
Christine Harris, RT (R) (MR), Moderator

8:30 - 9:00 a.m. Ice Breaker and Introductions
Laura Gruber, MBA, RT(R), RDMS, RVT and Christine Harris, RT (R) (MR)

9:00 - 9:30 a.m. Radiology Trivia
Laura Gruber, MBA, RT(R), RDMS, RVT

9:30 - 9:50 a.m. Simulation Education in Imaging
Michelle L. Garza, RT(R)

9:50 AM 10:10 AM Break & Exhibits

* Q&A with RSNA Diagnosis Live™ at the end of each presentation

COLOR KEY

Scientific Session (held concurrently or tri-currently) General Session
General Pediatric Radiology Categorical Course* Sunrise Session (concurrent)
Musculoskeletal Imaging Categorical Course* Radiographer Program

*Held concurrently
10:15 AM  10:45 AM  Radiographer Back to Basics Session  OAK 1 & 2
Stephen F. Simoneaux, MD, Moderator

10:15 - 10:45 a.m.  Image Quality and Artifacts
Laura Gruber, MBA, RT(R), RDMS, RVT and Christine Harris, RT (R) (MR)

10:15 AM  12:05 PM  General Pediatric Radiology: Ultrasound (SAM Session)  BAYSHORE GRAND A-C
Sarah S. Milla, MD, FAAP, Moderator

10:15 - 10:30 a.m.  Neonatal Head US: Useful Techniques to Improve Diagnosis
Harriet Paltiel, MDCM

10:30 - 10:45 a.m.  Practical Thyroid Ultrasound: When to Worry
Adina L. Alazraki, MD, FAAP

10:45 - 10:55 a.m.  Peritonsillar US
Anjum Bandarkar, MD

10:55 - 11:15 a.m.  Skin sonography: What can I say?
Cristian J. Garcia, MD

11:15 - 11:30 a.m.  Appendicitis Debate – US, CT and MR
Andrew T. Trout, MD (US), Michael J. Callahan, MD (CT) and Ethan A. Smith, MD (MR)

11:30 - 11:50 a.m.  Secrets of the Experts: 5 Things I Learned the Hard Way in US
Henrietta K. Rosenberg, MD, FACR

11:50 a.m. - 12:05 p.m.  Q&A with RSNA Diagnosis Live™

10:15 AM  12:05 PM  Musculoskeletal Imaging: Sports Imaging – Lower Extremity Part II  STANLEY PARK 1 & 2
Kieran Frawley, MBBS, FRANZCR and Mahesh M. Thapa, MD, Moderators

10:15 - 10:50 a.m.  Fracture Descriptors & ICD-10
Tal Laor, MD

10:50 - 11:25 a.m.  The Pediatric Knee: Imaging of Sports Injuries
Delma Y. Jarrett, MD

11:25 a.m. - 12:05 p.m.  Ankle and Foot Injuries
John D. MacKenzie, MD
10:45 AM  12:05 PM  Radiographer General Session  OAK 1 & 2
Johan G. Blickman, MD, PhD, Moderator

10:45 - 11:05 a.m.  The Role of the Child Life Specialist
Jacqueline Warneling, CCLS

11:05 - 11:25 a.m.  Nursing in a New Pediatric Imaging Area with a
Sedation/Procedural Suite
Ginny Giambrone, BSN, RN

11:25 -11:45 a.m.  The Importance of Preceptor Program for New
Hires in the Field of Radiography
Merima Karastanovic, MS, R.T. (R) (MR)

11:45 a.m.-12:05 p.m.  Strategies of Professional Career Enrichment
Laura Gruber, MBA, RT(R), RDMS, RVT

12:05 PM  1:15 PM  Lunch On Your Own

12:05 PM  1:15 PM  3D Read with the Experts Session
(Non-CME Session)  STANLEY PARK 3
Dianna M.E. Bardo, MD, FSCCT, FNASCI, Moderator and
Mark R. Ferguson, MD, Co-Moderator
Speaker: William C. Barta, MA
Experts: Prakash M. Masand, MD, Michael Murati, MD and
Richard N. Southard, MD

12:05 PM  1:15 PM  MR Protocol Session (Non-CME Session)
STANLEY PARK 1 & 2
Shreyas S. Vasanawala, MD, PhD, Taylor Chung, MD and
Michael S. Gee, MD, PhD, Moderators and Speakers
Topics of Discussion: Contrast agents (pros/cons of different
GBCA, indications for contrast, ferumoxytol), Faster
(Radial/CS/SMS) techniques for abdominal lesion
characterization, Liver metabolic imaging (fat/iron) inc
PDFF, R2*, elastography and  Issues related to minimizing
anesthesia/sedation

1:20 PM  1:30 PM  Welcome and Edward B. Neuhauser Lecture
Introduction  BAYSHORE GRAND A-C
Diego Jaramillo, MD, MPH, SPR President

COLOR KEY
Scientific Session  (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*

General Session
Sunrise Session  (concurrent)
Radiographer Program

*Held concurrently
1:30 PM 2:30 PM  
**Edward B. Neuhauser Lecture**
*Roles for Imaging in the Age of Precision Medicine*
James H. Thrall, MD, FACR  
Chairman Emeritus, Department of Radiology  
Massachusetts General Hospital  
Distinguished Taveras Professor of Radiology  
Harvard Medical School

2:30 PM 3:45 PM  
**Ped Rad Jeopardy**  
*BAYSHORE GRAND A-C*
*George S. Bisset, MD, FACR and Lane F. Donnelly, MD, Hosts*

**Team T:**
Donald P. Frush, MD, FACR (Captain),  
James S. Donaldson, MD, Thierry A. G. M. Huisman, MD  
and Alexander J. Towbin, MD

**Team E:**
Anne Marie Cahill, MD (Captain), Monica Epelman, MD,  
Teresa Chapman, MD, MA and Susan Palasis, MD

3:45 PM 4:05 PM  
**Breaks & Exhibits**

4:10 PM 5:10 PM  
**Scientific Session II-A: Gastrointestinal Radiology – Appendicitis**  
*BAYSHORE GRAND A-C*
*Jonathan R. Dillman, MD, MSc and Misun Hwang, MD, Moderators*

- **PA-015** 4:10 PM 4:20 PM  
  Rosenbaum, Daniel  
  *Differentiating perforated from non-perforated appendicitis on contrast-enhanced MRI*

- **PA-016** 4:20 PM 4:30 PM  
  Nocera, Nicole  
  *Visualization of the normal appendix in children on MRI using radial VIBE – a contrast enhanced, free-breathing, radially sampled, 3D T1-weighted, gradient-echo sequence*

- **PA-017** 4:30 PM 4:40 PM  
  Shamir, Stephanie  
  *Are Diagnostic Imaging Studies for Appendicitis Overdone in Sickle Cell Disease Patients?*

- **PA-018** 4:40 PM 4:50 PM  
  Mahmood, Nadia  
  *Impact of an educational intervention on the diagnostic performance of ultrasound for differentiating perforated and non-perforated pediatric appendicitis*

**COLOR KEY**

*Scientific Session* (held concurrently or tri-currently)  
*General Pediatric Radiology Categorical Course*  
*Musculoskeletal Imaging Categorical Course*  
*General Session*  
*Sunrise Session* (concurrent)  
*Radiographer Program*

*Held concurrently*
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>PA-019</td>
<td>4:50 PM - 5:00 PM</td>
<td>Efficacy and Feasibility of MRI in the Diagnosis of Pediatric Appendicitis: A Pilot Program in the Community Hospital Setting</td>
<td>Aronberg, Ryan</td>
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<td>PA-020</td>
<td>5:00 PM - 5:10 PM</td>
<td>Minimizing Extraneous Z-axis Coverage During CT Evaluation for Appendicitis - A Continuing Quality Improvement Project</td>
<td>Bacon, Patrick</td>
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<tr>
<td>4:10 PM</td>
<td>Scientific Session II-B: Informatics &amp; Education</td>
<td>Business Process Evaluation of Pediatric Radiology Workflow, Disruptions, and Turn Around Times</td>
<td>Shah, Summit</td>
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<td>Absence of Evidence is Not Evidence of Absence: A Pervasive Fallacy of Inference in Pediatric Radiology Scientific Abstracts</td>
<td>Guillerman, R.</td>
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<td>Citation analysis of pediatric radiology articles: The PAWS Program - first Lassie, now Lucy! A quality improvement program to reduce GA in pediatric MRI.</td>
<td>Perchik, Jordan</td>
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<td>Virtual Radiology Rounds in the PICU: Assessing the Impact</td>
<td>Zember, Jonathan</td>
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<td>Resident Led Undergraduate Pediatric Radiology Education: A Radiopedia based approach</td>
<td>El-Ali, Alexander</td>
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<tr>
<td>4:10 PM</td>
<td>Scientific Session II-C: Interventional Radiology – Vascular Access and Intervention</td>
<td>HHT-related pulmonary AVMs (PAVMs) in children: efficacy of endovascular therapy</td>
<td>Fernandopulle, Nigel</td>
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<td>Port-catheters in infants: interventional radiology experience in a tertiary pediatric center</td>
<td>Acord, Michael</td>
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<td>Balloon Occlusion as an Adjunctive Technique for Percutaneous Sclerotherapy of Venous Malformations</td>
<td>Sundararajan, Sri Hari</td>
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**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
- **General Pediatric Radiology Categorical Course** *
- **Muscloskeletal Imaging Categorical Course** *

*Held concurrently
Monday, May 16

Scientific Session

9:00 AM - 5:00 PM

9:00 AM - 9:10 AM

PA-030  9:00 AM  9:10 AM  Moturu, Anoosha  Infection Rates for PICCs in Oncology Patients

9:10 AM - 9:20 AM

PA-031  9:10 AM  9:20 AM  Bedoya, Maria  Implantable Venous Access Devices in Boys with Severe Hemophilia: at a tertiary pediatric institution

9:20 AM - 9:30 AM

PA-028  9:20 AM  9:30 AM  Teplisky, Dario  Radiological spectrum of Klippel-Trenaunay syndrome in a third level pediatric hospital in Argentine.

4:10 PM - 5:10 PM  Radiographer Back to Basics Session  OAK 1 & 2

Stephen F. Simoneaux, MD, Moderator

4:10 - 5:10 p.m.  CR to DR – Optimizing Image Quality and Dose

Bruce Apgar, BS

5:15 PM  Adjourn

5:20 PM - 6:20 PM  Awards Ceremony

• Gold Medals
• Presidential Award
• Honorary Member Award
• Pioneer Award
• Singleton-Taybi Award
• SPR REF Jack Haller Award
• SPR REF Heidi Patriquin Awards

6:30 PM - 7:45 PM  Welcome Reception  (additional fee applies for guests)  SEAWALL RESTAURANT

COLOR KEY

Scientific Session (held concurrently or tri-currently)

General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*

General Session
Sunrise Session (concurrent)
Radiographer Program

*Held concurrently
Thursday

6:30 AM 8:30 AM Continental Breakfast & Exhibits
6:30 AM 5:45 PM Registration

7:00 AM 8:20 AM Update on Body MR Techniques  BAYSHORE GRAND A-C
   Michael S. Gee, MD, PhD, Moderator

   7:00 - 7:15 a.m.  mDixon for MSK Imaging
      Taylor Chung, MD
   7:15 - 7:30 a.m.  Emerging MRI Techniques for Liver Fibrosis
      Suraj Serai, PhD
   7:30 - 7:45 a.m.  Non-sedated Pediatric MRI with Fast Imaging Techniques
      Michael S. Gee, MD, PhD
   7:45 - 8:00 a.m.  Abdominal Flow Quantifications
      Shi-Joon Yoo, MD, PhD
   8:00 - 8:15 a.m.  Liver Fat Quantification
      Jie Deng, PhD
   8:15 - 8:20 a.m.  Questions and Answers

7:00 AM 8:20 AM Contrast Enhanced Ultrasound  STANLEY PARK 3
   Kassa Darge, MD, PhD, Moderator

   7:00 - 7:15 a.m.  Starting a Pediatric US Contrast Program
      Kassa Darge, MD, PhD
   7:15 - 7:30 a.m.  Contrast Enhanced Ultrasound of Parenchymal Masses in Children
      Sue C. Kaste, DO
   7:30 - 7:45 a.m.  Blunt Abdominal Trauma: Assessment with Contrast-Enhanced Ultrasound
      Carol E. Barnewolt, MD
   7:45 - 8:00 a.m.  Inflammatory Bowel Disease
      Jonathan R. Dillman, MD, MSc
   8:00 - 8:15 a.m.  Vesicoureteric Reflux
      Susan J. Back, MD, FAAP
   8:15 - 8:20 a.m.  Questions and Answers

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Scientific Session (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*

General Session
Sunrise Session (concurrent)
Radiographer Program

*Held concurrently
7:00 AM  8:20 AM  Teaching and Learning Through Your Own Device  
_OAK 1 & 2_  
(Bring Your Own Charged Device; Limited Space)  
Janet R. Reid, MD, FRCPC and  
Richard Markowitz, MD, FACR, Moderators

7:00 - 7:20 a.m.  Borrowing from Millennials to Overcome  
Teaching Obstacles  
Janet R. Reid, MD, FRCPC and  
Richard Markowitz, MD, FACR

7:20 - 7:40 a.m.  Creating and Delivering a Great Lecture  
Through BYOD (Bring Your Own Device)  
Teresa Chapman, MD, MA

7:40 - 8:00 a.m.  Optimal Navigation: Beyond Dr. Google  
Michael L. Francavilla, MD

8:00 - 8:20 a.m.  The Power and Ease of Video  
Mahesh M. Thapa, MD

7:00 AM  8:20 AM  Fetal Imaging Pearls  _STANLEY PARK 1 & 2_  
Rama Ayyala, MD and Teresa Victoria, MD, PhD, Moderators

7:00 - 7:15 a.m.  Twin-twin Complications  
Beth M. Kline-Fath, MD

7:15 - 7:30 a.m.  Looking Outside the Fetus  
Rama Ayyala, MD

7:30 - 7:45 a.m.  Sedation for Fetal Imaging: What is the Current  
Thinking?  
Erika Rubesova, MD

7:45 - 8:00 a.m.  Case Base Venral Wall Defects, 3T Tricks of  
the Trade  
Teresa Victoria, MD, PhD

8:00 - 8:15 a.m.  Findings Suggestive of Imminent Fetal Demise  
You Should Not Miss  
Judy A. Estroff, MD

8:15 - 8:20 a.m.  Questions and Answers
8:30 AM  9:30 AM  Radiographer Scientific Session  **OAK 1 & 2**

Stephen F. Simoneaux, MD, Moderator

PA-001(R)  8:30 AM  8:40 AM  Gandor, Patricia  Ultrasound Shear Wave Elastography Of The Neurogenic Bladder

PA-002(R)  8:40 AM  8:50 AM  O’Connor, Michelle  Optimal CT protocols for abdominal scanning of obese paediatric patients: a phantom study

PA-003(R)  8:50 AM  9:00 AM  Curran, David  1123 MIBG scintigraphy: Whole body and Static Imaging in Paediatric Patients

PA-004(R)  9:00 AM  9:10 AM  Payne, Michael  The Utilization of Cone Beam CT and Live 3D Image Guidance in the Treatment of Pediatric Osteoid Osteoma

8:30 AM  10:00 AM  General Pediatric Radiology: Abdomen  **BAYSHORE GRAND A-C**

Christopher I. Cassady, MD, FAAP, Moderator

8:30 - 8:45 a.m.  Constipation is Not Black and White  Vishal Avinashi, MD, MPH

8:45 - 9:05 a.m.  Pitfalls in Chest and Abdomen  Richard Markowitz, MD, FACR

9:05 - 9:25 a.m.  Pediatric Fluoroscopy: Tips and Tricks  Steven J. Kraus, MD

9:25 - 9:45 a.m.  Secrets of the Experts: 5 Things I Learned the Hard Way in GI Imaging  Michael J. Callahan, MD

9:45 - 10:00 a.m.  Q&A with RSNA Diagnosis Live™

8:30 AM  10:00 AM  Musculoskeletal Imaging: Sports Imaging – Upper Extremity  **STANLEY PARK 1 & 2**

John D. MacKenzie, MD and Erica Schallert, MD, Moderators

8:30 - 9:00 a.m.  Imaging of the Pediatric Shoulder: Pearls and Pitfalls  Matthew Winfeld, MD

9:00 - 9:30 a.m.  Imaging of Pediatric Elbow Injuries  Victor Ho-Fung, MD

9:30 - 10:00 a.m.  Wrist and Hand Injuries  Mahesh M. Thapa, MD

**COLOR KEY**

Scientific Session  (held concurrently or tri-currently)  General Session  Sunrise Session (concurrent)  Radiographer Program

General Pediatric Radiology Categorical Course*  **General Session**  Sunrise Session (concurrent)  Radiographer Program

Musculoskeletal Imaging Categorical Course*  **General Session**  Sunrise Session (concurrent)  Radiographer Program

*Held concurrently
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30 AM</td>
<td>Radiographer Nuclear Medicine Therapy Session</td>
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<tr>
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<td><em>OAK 1 &amp; 2</em></td>
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<td>Stephen F. Simoneaux, MD, Moderator</td>
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<td>9:30 - 9:45 a.m.</td>
<td>1131 MIBG Therapy</td>
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<td>9:45 - 10:00 a.m.</td>
<td>Thyroid Therapy</td>
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<td>10:00 AM</td>
<td>Break &amp; Exhibits</td>
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<td><em>BAYSHORE GRAND A-C</em></td>
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<td>Kassa Darge, MD, PhD and Hansel J. Otero, MD, Moderators</td>
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<tr>
<td>10:25 - 10:40 a.m.</td>
<td>Contrast US for the Genitourinary Tract in Children</td>
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<tr>
<td>PA-033</td>
<td>10:40 AM 10:50 AM Smith, Ethan Ultrasound elastography of the bladder wall: Does bladder wall stiffness measured by ultrasound correlate with urodynamic evidenc of bladder dysfunction?</td>
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<tr>
<td>PA-034</td>
<td>10:50 AM 11:00 AM Hwang, Misun Ultrasound Estimated Bladder Weight Correlates with Videourodynamic Studies in Neurogenic Bladder Dysfunction</td>
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<tr>
<td>PA-035</td>
<td>11:00 AM 11:10 AM Back, Susan Rater Reliability of Postnatal Urinary Tract Dilation Consensus Classification</td>
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<tr>
<td>PA-036</td>
<td>11:10 AM 11:20 AM Cruz Romero, Cinthia Imaging risk factors associated with clinical outcomes in infants with UTD seen on postnatal US</td>
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<tr>
<td>PA-037</td>
<td>11:20 AM 11:30 AM Lehnert, Stephen The prevalence of malignant testicular tumors is age dependent</td>
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<tr>
<td>PA-038</td>
<td>11:30 AM 11:40 AM Yoon, Haesung Shear wave elastography of testis with varicocele Characterization of the ovaries using shear wave elastography</td>
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<td>PA-039</td>
<td>11:40 AM 11:50 AM Hagedorn, Kelly</td>
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- **General Pediatric Radiology Categorical Course**
- **Musculoskeletal Imaging Categorical Course**

*Held concurrently*
10:25 AM - 11:50 AM  
**Scientific Session III-B: Fetal/Neonatal Imaging – Fetal Pathology**  
*STANLEY PARK 1 & 2*  
*Dorothy I. Bulas, MD, FACP, FAAP and Ryne Didier, MD, Moderators*

10:25-10:40 a.m.  
**MRI Imaging of Twin Pregnancy**  
*Mariana L. Meyers, MD*

**Panelists:**
- **Kim, Helen HR**  
  - **PA-040 10:40 AM 10:50 AM**  
  - **Absent Ductus Venosus in the Fetus: Associated Anomalies and Clinical Outcome.**
- **Radhakrishnan, Rupa**  
  - **PA-041 10:50 AM 11:00 AM**  
  - **Fetal MRI assessment of prenatal brain injury in congenital diaphragmatic hernia.**
- **Hirsig, Leslie**  
  - **PA-042 11:00 AM 11:10 AM**  
  - **Is MRI necessary for evaluation of candidates for fetal NTD repair?**
- **Krishnasarma, Rekha**  
  - **PA-043 11:10 AM 11:20 AM**  
  - **Predicting Difficult Airway at Birth in Micrognathia: A Retrospective Review of Fetal MRI and Postnatal Outcomes.**
- **Oliver, Edward**  
  - **PA-044 11:20 AM 11:30 AM**  
  - **Fetal Thoracic Teratomas: Can Prenatal Imaging Differentiate Types?**
- **Maya, Carolina**  
  - **PA-045 11:30 AM 11:40 AM**  
  - **Fetal MRI findings of bronchopulmonary sequestration; correlation with postnatal imaging and surgical/pathologic findings.**
- **Guimaraes, Carolina**  
  - **PA-046 11:40 AM 11:50 AM**  
  - **Does the severity of hindbrain herniation in fetuses with Chiari II malformation predict the need for postnatal hydrocephalus treatment after in utero intervention?**

10:25 AM - 11:50 AM  
**Scientific Session III-C: Quality Improvement**  
*STANLEY PARK 3*  
*Janet R. Reid, MD, FRCPC and Gregory A. Vorona, MD, Moderators*

10:25 - 10:40 a.m.  
**Starting a Pediatric Radiology Quality Improvement Project: Some Tips!**  
*Kimberly E. Applegate, MD, MS, FACP*

**Panelists:**
- **Guimaraes, Carolina**  
  - **PA-047 10:40 AM 10:50 AM**  
  - **Implementing a Systematic Approach to Improve Governance and Deployment of Imaging (IMG) Codes in Pediatric Radiology.**
- **Mirza, Sobia**  
  - **PA-048 10:50 AM 11:00 AM**  
  - **Can I say it? Radiologists’ and providers’ attitudes towards mentioning “obesity” in the radiology report.**
- **Guimaraes, Carolina**  
  - **PA-049 11:00 AM 11:10 AM**  
  - **Comparison between Manual Auditing and an Automated Auditing Software Program to Evaluate Faculty Use of Standardized Reports in Radiology.**

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*Held concurrently*
### Thursday, May 18

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<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:25 AM - 11:50 AM</td>
<td><strong>Radiographer MR Session</strong> <strong>Oak 1 &amp; 2</strong></td>
<td>Nancy Rollins, MD, Moderator</td>
<td><strong>MR Safety</strong>&lt;br&gt;10:25 - 10:40 a.m. Daniel R. Smock, BHS RT(R)(MR)(CT), MRSO (MRSC)</td>
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<td><strong>Cardiac MR Optimization for the Pediatric Patient</strong>&lt;br&gt;10:45 - 11:00 a.m. George J. Englehardt, A.S. (ARRT)(RT)(R)(MR)</td>
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<td><strong>Routine Fetal Imaging at 3T</strong>&lt;br&gt;11:05 - 11:20 a.m. Nancy Rollins, MD</td>
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<td><strong>MR Urogram</strong>&lt;br&gt;11:35 - 11:50 a.m. Scott Weisel, RT(R)(CT)(MR)</td>
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<td>12:00 PM - 1:20 PM</td>
<td><strong>Lunch On Your Own</strong></td>
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<td>12:00 PM - 1:20 PM</td>
<td>**jSPR Lunch ** <strong>Marine Room</strong></td>
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<td><strong>Transitioning from Fellowship to the Real World:</strong> The Academic and Private Settings</td>
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<td>12:00 PM - 1:20 PM</td>
<td><strong>SPR CT Protocol Session – DECT and Beyond</strong></td>
<td>Michael J. Callahan, MD and John D. MacKenzie, MD, Moderators</td>
<td><strong>Introduction &amp; Welcome</strong>&lt;br&gt;12:00 - 12:05 p.m. Michael J. Callahan, MD and John D. MacKenzie, MD</td>
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<td><strong>Physics of Dual Energy CT</strong>&lt;br&gt;12:05 - 12:15 p.m. Robert D. MacDougall, MSc</td>
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<td><strong>Body Applications for Dual Energy CT</strong>&lt;br&gt;12:15 - 12:25 p.m. Sjirk J. Westra, MD</td>
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**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
- **General Pediatric Radiology Categorical Course** *
- **Musculoskeletal Imaging Categorical Course** *
- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently

The Society for Pediatric Radiology 2017 Annual Meeting and Categorical Course
12:25 - 12:35 p.m. Dual Energy CT of the Head to Maintain Image Quality While Reducing Dose
Jason P. Weinman, MD

12:35 - 12:45 p.m. Practical Yet Powerful Tricks for Low-Dose Pediatric CT
Kara G. Gill, MD

12:45 - 12:55 p.m. Pediatric Coronary CT
Prakash M. Masand, MD

12:55 - 1:05 p.m. Image Quality, IR and 3D
Richard N. Southard, MD

1:05 - 1:20 p.m. Questions & Answers with Presenters and Vendors

1:30 PM - 3:40 PM Scientific Session IV-A: Gastrointestinal Radiology – Liver Imaging BAYSHORE GRAND A-C
Jonathan R. Dillman, MD, MSc and David Dinan, MD, Moderators

1:30 - 1:45 p.m.
Detection of Bile Leak with Liver-Specific MR Contrast Agent
Hansel J. Otero, MD

1:45 PM - 1:55 PM

1:55 PM - 2:05 PM

2:05 PM - 2:15 PM

2:15 PM - 2:25 PM

2:25 PM - 2:35 PM

2:35 PM - 2:45 PM

2:45 PM - 2:55 PM

2:55 PM - 3:05 PM

1:30 -1:45 p.m.

1:45 PM - 1:55 PM

1:55 PM - 2:05 PM

2:05 PM - 2:15 PM

2:15 PM - 2:25 PM

2:25 PM - 2:35 PM

2:35 PM - 2:45 PM

2:45 PM - 2:55 PM

2:55 PM - 3:05 PM

PA-054 1:45 PM 1:55 PM Farmakis, Shannon Shear wave sonoelastography correlates with liver biopsy fibrosis scores in pediatric patients with liver disease

PA-055 1:55 PM 2:05 PM Smith, Ethan Comparison of T2 relaxometry and multi-echo Dixon method for measuring liver iron content by MRI

PA-056 2:05 PM 2:15 PM Trout, Andrew Real-time 3D printed pathologic sectioning boxes to facilitate radiologic-pathologic correlation in hepatectomy cases

PA-057 2:15 PM 2:25 PM Roberts, Preston Central Macroliver Macrotumors in Obstructive Cholangiopathies and Biliary Cirrhosis: Not Limited to Alagille Syndrome

PA-058 2:25 PM 2:35 PM Thumar, Vishal Can Ultrasound be Used to Risk Stratify SOS Patient Outcomes?

PA-059 2:35 PM 2:45 PM Isaacson, Jared Normal Liver ARFI Sono Elastography Despite Significant Fibrosis in Children with Cystic Fibrosis Liver Disease

PA-060 2:45 PM 2:55 PM Lee, Mi-Jung Relationship between shear wave elastography and transient elastography for the interpretation of liver stiffness measurements by various transducers: A phantom study and the application to children with biliary atresia

PA-061 2:55 PM 3:05 PM Yoon, Haesung Hepatic stiffness assessment in biliary atresia patients after Kasai operation: Correlation between MR elastography and transient elastography

COLOR KEY
Scientific Session (held concurrently or tri-currently)
General Session
General Pediatric Radiology Categorical Course*
Sunrise Session (concurrent)
Musculoskeletal Imaging Categorical Course*
Radiographer Program

*Held concurrently


PA-064 3:25 PM 3:35 PM Erdem Toslak, Iclal PACS-based quantitative gray-scale ultrasound analysis in pediatric patients with diffuse liver diseases

1:30 PM 3:40 PM Scientific Session IV-B: Musculoskeletal Imaging – Oncology, Inflammation, Infection STANLEY PARK 1 & 2

1:30-1:45 p.m. Whole Body MRI and Fever of Unknown Origin - Where Do We Stand? Nancy A. Chauvin, MD

PA-065 1:45PM 1:55PM Waelti, Stephan Beware of venous ectasia in Rapidly Involuting Congenital Hemangiomas (RICH)

PA-066 1:55PM 2:05PM LeMoine, Benjamin A Retrospective Review of Ultrasound Characteristics of Newfound Soft Tissue Masses at a Tertiary Pediatric Medical Center

PA-067 2:05PM 2:15PM Schallert, Erica Update in pediatric giant cell tumors of bone: transphyseal extension and proportion of cystic versus solid maging components.

PA-068 2:15PM 2:25PM Matzinger, Mary Ann Bone Morbidity and Recovery in Children with Leukemia: Results of a Six-Year Prospective Longitudinal Study

PA-069 2:25PM 2:35PM Kaplan, Summer Ultrasound features of sonographically occult soft tissue abscess

PA-070 2:35PM 2:45PM MacKenzie, John PET-MRI detection and SUV characterization of inflammation in patients with juvenile idiopathic arthritis

PA-071 2:45PM 2:55PM Hameed, Shema Chronic Recurrent Multifocal Osteomyelitis of the Clavicle: Can imaging differentiate between other entities

PA-072 2:55PM 3:05PM Chauvin, Nancy Feasibility of the Spondyloarthritis Research Consortium of Canada Sacroiliac Joint Structural Score and Inflammation Score for Children with Spondyloarthritis

COLOR KEY

Scientific Session (held concurrently or tri-currently) General Session
General Pediatric Radiology Categorical Course* Sunrise Session (concurrent)
Musculoskeletal Imaging Categorical Course* Radiographer Program

*Held concurrently

The Society for Pediatric Radiology 2017 Annual Meeting and Categorical Course
**The Society for Pediatric Radiology 2017 Annual Meeting and Categorical Course**

**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
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- **Musculoskeletal Imaging Categorical Course*•

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<tr>
<th>TIME</th>
<th>SESSION</th>
<th>PRESENTER</th>
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<tbody>
<tr>
<td><strong>Wednesday</strong> May 18</td>
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<tr>
<td><strong>General Session</strong></td>
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<tr>
<td>3:05 PM - 3:15 PM</td>
<td>MacKenzie, John</td>
<td>Value of dedicated high-resolution versus lower-resolution screening MRI for evaluation of pediatric sacroiliitis.</td>
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<td>3:15 PM - 3:25 PM</td>
<td>Junhasavasdikul, Thitiporn</td>
<td>Developing a Reference Database for Temporomandibular Joints in Healthy Subjects</td>
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<td>3:25 PM - 3:35 PM</td>
<td>Baker, Scott</td>
<td>Contrast enhanced MRI compared to direct joint visualization at arthroscopy in pediatric patients with suspected temporomandibular joint synovitis</td>
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<tr>
<td><strong>1:30 PM - 3:40 PM</strong></td>
<td>Scientific Session IV-C: Neuroradiology</td>
<td><strong>STANLEY PARK 3</strong> Dennis W. Shaw, MD and Vinay Kandula, MD, Moderators</td>
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<td>1:30 - 1:45 p.m.</td>
<td>Fullner, Jonathan</td>
<td>Neuroimaging Findings in Congenital Zika Syndrome</td>
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<td>1:45 PM - 1:55 PM</td>
<td>Maloney, Ezekiel</td>
<td>Infant Subdural Hemorrhage: Imaging Characteristics that Differentiate Abusive Head Trauma from Other Etiologies</td>
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<tr>
<td>1:55 PM - 2:05 PM</td>
<td>Rollins, Nancy</td>
<td>Follow-up MRI Examinations for Optic Pathway Gliomas: is Gadolinium Necessary?</td>
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<td>2:05 PM - 2:15 PM</td>
<td>Andronikou, Savvas</td>
<td>Dynamic Arterial Compression in Pediatric Vertebral Arterial Dissection: Diagnosis and Management</td>
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<td>2:15 PM - 2:25 PM</td>
<td>Trinh, Austin</td>
<td>Distribution of the watershed zone in term hypoxia demonstrated in multiple media</td>
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<td>2:25 PM - 2:35 PM</td>
<td>Zhang, Wei</td>
<td>Cerebral Deoxyhemoglobin Imaging: A biomarker for poor neurological outcomes in neonates who received hypothermia therapy for hypoxic ischemic encephalopathy</td>
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<td>2:35 PM - 2:45 PM</td>
<td>Starosolski, Zbigniew</td>
<td>Prediction of Cognitive Benefit after Successful Epilepsy Surgery</td>
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<td>2:45 PM - 2:55 PM</td>
<td>Towbin, Alexander</td>
<td>Gender dependent cerebrovascular changes in mouse model of Moyamoya Disease correlated with observation in pediatric patients’ population</td>
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<tr>
<td>2:55 PM - 3:05 PM</td>
<td>Chu, Zili</td>
<td>Relationship of multiple administrations of gadopentetate dimeglumine and T1-weighted signal intensity in the brain of children</td>
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<tr>
<td>3:05 PM - 3:15 PM</td>
<td>Alsabban, Zehour</td>
<td>Architecture of the Language Network is Associated with Language Function in Children with Epilepsy</td>
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<tr>
<td>3:15 PM - 3:25 PM</td>
<td>Kilborn, Tracy</td>
<td>Utility of Skull Views in Skeletal Surveys of Children with Suspected Non-accidental Injury Who Are Also Undergoing Head CT</td>
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<tr>
<td>3:25 PM - 3:35 PM</td>
<td>Kilborn, Tracy</td>
<td>Screening T2 of the neck, chest and abdomen assists in the diagnosis of TB in paediatric patients with tuberculous spondylitis.</td>
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</tbody>
</table>
1:30 PM  3:40 PM  Radiographer Ultrasound Session  OAK 1 & 2
Laura Gruber, MBA, RT(R), RDMS, RVT, Moderator

1:30 - 2:00 p.m.  Ultrasound Contrast
Laura Poznick, AAS, RDMS

2:00 - 2:30 p.m.  Intussusception
Patricia Lacy Gandor

2:30 - 3:00 p.m.  Bowel Imaging
Patricia Lacy Gandor

3:00 - 3:30 p.m.  Inteleos/ARDMS Certifications
Lorraine Chisari, RDMS, RVT

3:30 - 3:40 p.m.  Open Discussion

3:40 PM  4:10 PM  Breaks & Exhibits

4:15 PM  5:45 PM  Scientific Session V-A: Gastrointestinal Radiology - Fluoroscopic and Radiographic Abdominal Imaging
BAYSHORE GRAND A-C
Ethan A. Smith, MD and Shankar Rajeswaran, MD, Moderators

4:15 - 4:30 p.m.  Vascular Anomalies: An Update
Gulraiz A. Chaudry, MBChB, MRCP, FRCR

PA-087  4:30 PM  4:40 PM  Thompson, Benjamin
Standardization of the Radiologic Procedures for Pediatric Videofluoroscopic Swallow Studies using a Quality Improvement Protocol

PA-088  4:40 PM  4:50 PM  Jamieson, Douglas
Human "in vivo" Continuous Pressure and Flow Rate measurement in Pneumatic Reduction of Intussusception

PA-089  4:50 PM  5:00 PM  Pritchett, Meredith
Diagnostic yield of upper gastrointestinal series (UGI) in pediatric patients

PA-090  5:00 PM  5:10 PM  Hemmingsen, Lauren
Diagnostic yield of fluoroscopic contrast enema studies in pediatric patients

PA-091  5:10 PM  5:20 PM  Baad, Michael
Contrast Enema in Neonates Revisited: Experience at a Large Pediatric Hospital

PA-092  5:20 PM  5:30 PM  Barnewolt, Carol
Rotation Esophagoplasty: What is it and why do I need to know?

PA-093  5:30 PM  5:40 PM  Bingham, Kendall
Computer Aided Detection of Feeding Tubes in Radiographs
### Scientific Session V-B: Cardiovascular MRI, Miscellaneous

**STANLEY PARK 1 & 2**

**Prakash M. Masand, MD and S. Bruce Greenberg, MD,**
Moderators

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<tr>
<th>Time</th>
<th>Session Name</th>
<th>Speaker(s)</th>
<th>Summary</th>
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</table>
| 4:15 PM| Scientific Session V-B: Cardiovascular MRI, Miscellaneous | Prakash M. Masand, MD and S. Bruce Greenberg, MD | 4:15 – 4:30 p.m. **Cardiac MRI or Cardiac CT - Making the Right Choice**  
Cynthia K. Rigsby, MD, FACP |
| 095 4:40 PM| PA-095| Vasanawala, Shreyas | Ultra-High Spatiotemporal Resolution 4D Flow for Valve and Coronary Arterial Delineation |
| 096 5:00 PM| PA-096| Deng, Jie | Whole-Heart Magnetic Resonance Angiography at 1.5 Tesla with Extracelular Contrast |
| 097 5:10 PM| PA-097| Gee, Michael | Factors associated with frequent chest radiograph imaging in young children |
| 098 5:20 PM| PA-098| Munden, Martha | Ultrasound Shear Wave Elastography for Evaluating Liver Stiffness in Fontan Patients |
| 099 5:30 PM| PA-099| Starosolski, Zbigniew | 3D printed flexible cardiac model for virtual implantation of HeartWare ventricular assist device in a pediatric patient |
| 100 5:40 PM| PA-100| Greenberg, S Bruce | Determining the Normal Pulmonary Artery and Branch Pulmonary Sizes in Children |

### Scientific Session V-C: Interventional Radiology – Abdominal and Musculoskeletal Intervention

**STANLEY PARK 3**

**Manish N. Patel, DO and Mesha Martinez, MD,** Moderators

<table>
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<tr>
<th>Time</th>
<th>Session Name</th>
<th>Speaker(s)</th>
<th>Summary</th>
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</table>
| 4:15 PM| Scientific Session V-C: Interventional Radiology – Abdominal and Musculoskeletal Intervention | Manish N. Patel, DO and Mesha Martinez, MD | 4:15 – 4:30 p.m. **Pediatric Transjugular Intrahepatic Portosystemic Shunt Placement: TIPS and Tricks**  
Matthew P. Lungren, MD, MPH |
<p>| 102 4:40 PM| PA-102| Pohlman, Joshua | Biliary Hypoplasia: An informative finding on percutaneous cholecystocholangiography in infants with persistent jaundice. |
| 103 5:00 PM| PA-103| Hayatghaibi, Shireen | Percutaneous Ultrasound Guided Liver Biopsy in Infants: Is it safe? |</p>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>5:00 PM</td>
<td>PA-104</td>
<td>Shellikeri, Sphoorti Collimation, Radiation Dose and Image Quality of Collimated C-arm Computed Tomography images in Pediatric patients</td>
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<td>5:10 PM</td>
<td>PA-105</td>
<td>Akhter, Talal Percutaneous biopsy and radiofrequency ablation for diagnosis and treatment of non-conventional osteoid osteomas at a single pediatric institution.</td>
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<td>5:20 PM</td>
<td>PA-106</td>
<td>Waelti, Stephan Aneurysmal bone cysts: comparison of percutaneous sclerosing treatment and surgical treatment in pediatric patients</td>
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<tr>
<td>5:30 PM</td>
<td>PA-107</td>
<td>Amaral, Joao Ultrasound Guided Percutaneous Muscle Biopsy in Children</td>
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<td>4:15 PM</td>
<td>Radiographer CT Session</td>
<td>OAK 1 &amp; 2</td>
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<td>Lynne Hamer, M.ED., RT(R), Moderator</td>
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<td>4:15 - 4:30 p.m.</td>
<td>Joint Commission Standards</td>
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<td>Laura Gruber, MBA, RT(R), RDMS, RVT</td>
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<td>4:30 - 4:45 p.m.</td>
<td>CT Dose Monitoring/Protocol Management</td>
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<td>Christina L. Sammet, PhD, DABR</td>
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<td>4:45 - 5:00 p.m.</td>
<td>Portable CT in a Pediatric ICU Setting</td>
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<td>Renee Mansour, BA, RT (R) (CT) (ARRT)</td>
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<td>5:00 - 5:15 p.m.</td>
<td>Tiny Hearts, Bigger Challenges? Trends, Technology and the Future of Pediatric Cardiac Imaging</td>
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<td>Christine Ziemba-Landon, RT (ARRT) M CT</td>
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<td>5:15 - 5:30 p.m.</td>
<td>PET/CT</td>
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<td>Kevin Edwards, BSRT (N),(R), CNMT PET</td>
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<td>5:30 - 5:45 p.m.</td>
<td>Discussion</td>
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<td>5:45 PM</td>
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Friday

**6:30 AM - 8:30 AM** Continental Breakfast & Exhibits

**6:30 AM - 6:00 PM** Registration

**7:00 AM - 8:20 AM** Machine Learning  
*STANLEY PARK 3*  
Safwan S. Halabi, MD, Moderator

7:00 - 7:20 a.m.  
**Introduction to Machine Learning in Radiology**  
Safwan S. Halabi, MD

7:20 - 7:40 a.m.  
**Applications of Machine Learning in Clinical Radiology and Research**  
Matthew P. Lungren, MD, MPH

7:40 - 8:00 a.m.  
**Applications of Machine Learning in Quality/Performance Improvement**  
David B. Larson, MD, MBA

8:00 - 8:20 a.m.  
Questions and Answers

**7:00 AM - 8:20 AM** Forensic Imaging  
*STANLEY PARK 1 & 2*  
Willemijn Klein, MD, PhD, Moderator

7:00 - 7:15 a.m.  
**Normal Postmortem Changes**  
Willemijn Klein, MD, PhD

7:15 - 7:35 a.m.  
**Fetal Postmortem Imaging: Congenital Malformations**  
Owen J. Arthurs, MB Bchir, FRCR, PhD

7:35 - 7:55 a.m.  
**Postmortem Neuro Imaging**  
Maarten Lequin, MD, PhD

7:55 - 8:15 a.m.  
**Pediatric Forensic Imaging**  
Owen J. Arthurs, MB Bchir, FRCR, PhD

8:15 - 8:20 a.m.  
Questions and Answers

**7:00 AM - 8:20 AM** Image Gently Session - The Radiation Dose Conundrum: Reconciling Imaging, Imagining and Managing  
*BAYSHORE GRAND A-C*  
Donald P. Frush, MD, FACR, Moderator

7:00 - 7:20 a.m.  
**Talking the Talk**  
Donald P. Frush, MD, FACR

7:20 - 7:40 a.m.  
**Dose Monitoring Opportunities and Challenges**  
Keith J. Strauss, MSc, FAAPM, FACR

7:40 - 8:00 a.m.  
**Update on Digital Radiology – Image Gently**  
Steven Don, MD

8:00 - 8:20 a.m.  
**Current Controversies in CT Dose Reduction**  
John D. MacKenzie, MD

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**COLOR KEY**

Scientific Session *(held concurrently or tri-currently)*  
General Pediatric Radiology Categorical Course*  
Musculoskeletal Imaging Categorical Course*  
General Session  
Sunrise Session *(concurrent)*  
Radiographer Program  

*Held concurrently*
7:00 AM 8:20 AM **Sonography Refresher** *OAK 1 & 2*
Amit S. Sura, MD, MBA, Moderator

7:00 - 7:15 a.m. **Pre-pubescent Breast Ultrasound**
Amit S. Sura, MD, MBA

7:15 - 7:30 a.m. **Post-pubescent Breast Ultrasound**
Jessica Langer, MD

7:30 - 7:45 a.m. **Improving Pediatric Breast Ultrasound Reporting and Recommendations**
Aarti Luhar, MD

7:45 - 8:00 a.m. **Sonography and Pediatric Thyroid Nodules**
Monica Epelman, MD

8:00 - 8:15 a.m. **US Guided FNA of Pediatric Thyroid Nodules: Practical Tips for Success**
Jennifer Lim-Dunham, MD, FACR

8:15 - 8:20 a.m. **Questions and Answers**

8:30 AM 9:00 AM **Radiographer Challenge Session** *OAK 1 & 2*
Lynne Hamer, M.Ed., RT(R), Moderator

8:30 - 9:00 a.m. **Panel Discussion: Staffing Strategies for Hybrid Technologies (MR/PET, PET/CT, IR/MR)**
Panelists: Christine Harris, RT (R) (MR), Kevin Edwards, BSRT (N),(R), CNMT PET and Elad Nevo, MS, RT(MR)(N)(CT), CNMT

8:30 AM 10:00 AM **General Pediatric Radiology: Neuro/Head + Neck (SAM Session)** *BAYSHORE GRAND A-C*
Sarah S. Milla, MD, FAAP, Moderator

8:30 - 8:40 a.m. **Lateral Neck Projection Radiography**
Laura Hayes, MD

8:40 - 9:00 a.m. **Neuro/Head + Neck: Sinus + Skull: PR or CT?**
Thierry A. G. M. Huisman, MD

9:00 - 9:15 a.m. **Things Not to Miss on Head CT**
Diana P. Rodriguez, MD

9:15 - 9:35 a.m. **Imaging Shunt Malfunction: DR, CT, MR**
Susan Palasis, MD

9:35 - 9:45 a.m. **How to Read Shunt Settings**
Navneet Singh, MBChB, PhD

9:45 - 10:00 a.m. **Q&A with RSNA Diagnosis Live™**

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- **Musculoskeletal Imaging Categorical Course** *

- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently
Thursday, May 19, 2016

**Musculoskeletal Imaging: Normal Growth & Cartilage (SAM Session)**  
**STANLEY PARK 1 & 2**  
Nancy A. Chauvin, MD and Jerry R. Dwek, MD, Moderators

**Musculoskeletal Imaging: Normal Growth & Cartilage**  
*8:30-9:00 a.m.*  
Diego Jaramillo, MD, MPH

**Pediatric Musculoskeletal Ultrasound: Cases Reviewed and Lessons Learned**  
*9:00-9:25 a.m.*  
Jessica R. Leschied, MD

**Sacroiliitis**  
*9:25-9:45 a.m.*  
Jacob L. Jaremko, MD, PhD, FRCPC

**Q&A with RSNA Diagnosis Live™**  
*9:45-10:00 a.m.*

**Radiographer Interventional Radiology Session**  
**OAK 1 & 2**  
Anne Gill, MD, Moderator

**Glue Embolization Surgery for Venous Malformations: Filling in all the Details**  
*9:00-9:20 a.m.*  
Ray Ramoso RT (R) (VI)

**IR/MR**  
*9:20-9:40 a.m.*  
Christine Harris, RT (R) (MR)

**Intra-Arterial Chemotherapy Administration for Retinoblastoma: Keeping an Eye On Therapeutic Advancements in IR**  
*9:40-10:00 a.m.*  
Ray Ramoso RT (R) (VI)

**Scientific Session VI-A: Contrast Materials**  
**BAYSHORE GRAND A-C**  
Shreyas S. Vasanawala, MD, PhD and Daniel Podberesky, MD, Moderators

**Koob, Mériam**  
*PA-108 10:10 AM 10:20 AM*  
Gadoterate meglumine pharmacokinetics, safety and efficacy in pediatric subjects aged <2 years

**Forbes-Amrhein, Monica**  
*PA-109 10:20 AM 10:30 AM*  
Frequency and Severity of Acute Allergic-Like Reactions to IV Gadolinium-Based Contrast Media in Children

**Stanescu, A. Luana**  
*PA-110 10:30 AM 10:40 AM*  
Gadolinium tissue retention in pediatric patients after contrast-enhanced MR exams: pathologic confirmation.

**COLOR KEY**

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- **General Pediatric Radiology Categorical Course*  
- **Musculoskeletal Imaging Categorical Course***
- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently*
### Scientific Session VI-B: ALARA

**STANLEY PARK 1 & 2**

- **PA-111 10:40 AM 10:50 AM**
  - **Towbin, Alexander**
  - **Comparison of brain T1-weighted signal intensity after administration of multiple doses of gadopentetate dimeglumine and gadoterate meglumine.**

- **PA-112 10:50 AM 11:00 AM**
  - **Back, Susan**
  - **Don’t burst your bubbles! How contrast administration can affect pediatric contrast enhanced ultrasound.**

### 10:10 AM - 11:00 AM

**Scientific Session VI-C: Thoracic Imaging – Lung Diseases**

**STANLEY PARK 3**

- **PA-118 10:10 AM 10:20 AM**
  - **Nguyen, Hai Thuy**
  - **Clinico-Radiologic Diagnosis of Pleuroparenchymal Fibroelastosis in Children**

- **PA-119 10:20 AM 10:30 AM**
  - **Ledbetter, Karyn**
  - **Optimizing CT imaging of congenital lung lesions to maximize diagnostic accuracy and minimize patient dose.**

- **PA-120 10:30 AM 10:40 AM**
  - **LeMoine, Benjamin**
  - **The High Resolution Computed Tomography Characteristics of Thyroid Transcription Factor 1 Deficiency**

- **PA-121 10:40 AM 10:50 AM**
  - **Jana Manisha**
  - **Pattern recognition in Pediatric Diffuse lung diseases (DLD): a tertiary care centre experience**

- **PA-122 10:50 AM 11:00 AM**
  - **Olson, Emilia**
  - **Toward Quantitative Measurement of Premature Lung Disease in the Unsedated Neonate: Pulmonary Arterial Flow via Phase Contrast MRI**

### 11:00 AM - 11:30 AM

**Breaks & Exhibits**
11:35 AM  1:00 PM  **Scientific Session VII-A: Gastrointestinal Radiology – Abdominal MRI, Miscellaneous**  
**BAYSHORE GRAND A-C**  
Sudha A. Anupindi, MD and Judy H. Squires, MD, Moderators

11:35 -11:50 a.m.  **DWI in Crohn’s Disease: An Update**  
Ethan A. Smith, MD

PA-123  11:50 AM  12:00 PM  Hayes, Roisin  
Bleeding Meckel’s Diverticulum: A Study of the Accuracy of Pertechnetate Scintigraphy as a Diagnostic Tool in children

PA-124  12:00 PM  12:10 PM  Singh, Kamalpreet  
Toward quantitative assessment of pancreatic atrophy: Defining normal pancreatic thickness on CT and MRI

PA-125  12:10 PM  12:20 PM  Lee, Mi-Jung  
MR cholangiography based decision making tree model for diagnosis of biliary atresia

PA-126  12:20 PM  12:30 PM  Graeber, Brendon  
Gadoxetate Disodium-Enhanced MR Cholangiography Improves Detection and Characterization of Biliary Complications Following Pediatric Liver Transplant

PA-127  12:30 PM  12:40 PM  Zucker, Evan  
Free-Breathing Abdomen MR with Self-Navigated Golden-Angle Ordered Conical Ultrashort Echo Time (UTE) Imaging: Feasibility, Image Quality, and Effects of Data Subsampling and Motion Correction

PA-128  12:40 PM  12:50 PM  Anupindi, Sudha  
MR Enterography Second Reader Model for Subspecialty Focus within a Generalized Practice

PA-129  12:50 PM  1:00 PM  Lee, Jacob  
Sensitivity and Specificity of Abdominal Ultrasound in Diagnosing Necrotizing Enterocolitis in Preterm Infants: A Meta-Analysis

11:35 AM  1:00 PM  **Scientific Session VII-B: Fetal/Neonatal Imaging – Neonatal and Placental Disorders, Fetal Imaging Techniques**  
**STANLEY PARK 1 & 2**  
Ricardo Faingold, MD and Camilo Jaimes, MD, Moderators

11:35 -11:50 a.m.  **To 3T or Not 3T**  
Teresa Victoria, MD, PhD

PA-130  11:50 AM  12:00 PM  Bulas, Dorothy  
CXR reduction protocol in the Neonatal Intensive Care Unit (NICU) – Lessons Learned

PA-131  12:00 PM  12:10 PM  Nasralla, James  
Bilious Emesis in the Neonate: Can Radiographs Distinguish a Distal Obstruction?

PA-132  12:10 PM  12:20 PM  Smithimedhin, Anilawan  
MRI Determination of Normal Volumes for the Upper Airway and Pharyngeal Lymphoid Tissue in Preterm and Term Infants

**COLOR KEY**

- **Scientific Session** (held concurrently or tri-currently)  
- **General Pediatric Radiology Categorical Course**  
- **Musculoskeletal Imaging Categorical Course**  
- **General Session**  
- **Sunrise Session** (concurrent)  
- **Radiographer Program**

*Held concurrently
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:20 PM</td>
<td>PA-133</td>
<td>BOLD MR Imaging of Placenta in Congenital Heart Disease: Initial Experience</td>
<td>El-Ali, Alexander Ghaqhada, Ketan</td>
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<tr>
<td>12:30 PM</td>
<td>PA-134</td>
<td>Contrast-enhanced MRI Evaluation of Placental Margins Using a Nanoparticle Blood Pool Contrast Agent: Pre-clinical Testing in a Pregnant Rat Model</td>
<td>Didier, Ryne</td>
</tr>
<tr>
<td>12:40 PM</td>
<td>PA-135</td>
<td>Evaluation of fetal abnormalities by cho-planar magnetic resonance imaging at 3 Tesla with decreased artifact when compared to single shot fast spin echo sequences</td>
<td>Jaime, Camilo</td>
</tr>
<tr>
<td>12:50 PM</td>
<td>PA-136</td>
<td>Does 3T fetal MRI induce adverse acoustic effects in the neonate? A preliminary study comparing postnatal auditory test performance of fetuses scanned at 1.5 and 3T MRI.</td>
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<tr>
<td>11:35 AM</td>
<td>PA-137</td>
<td>PA-134</td>
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<tr>
<td>12:00 PM</td>
<td>PA-138</td>
<td>Performance of a Deep Neural Network Learning Model in Assessing Skeletal Maturity on Pediatric Hand Radiographs</td>
<td></td>
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<tr>
<td>12:10 PM</td>
<td>PA-139</td>
<td>Small cross-sectional vertebral area and its relationship to lumbar lordosis and spondylolysis.</td>
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<tr>
<td>12:20 PM</td>
<td>PA-140</td>
<td>Clinical update on the prevalence of spondylolisthesis in 1,502 pediatric patients using computed tomography</td>
<td></td>
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<tr>
<td>12:40 PM</td>
<td>PA-142</td>
<td>Multi-reader reliability of 3D Lester acetabular surface model generation and of hip dysplasia index calculation from 3D ultrasound.</td>
<td></td>
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<tr>
<td>12:50 PM</td>
<td>PA-143</td>
<td>Prediction of contact pressure in infant hips treated by Pavlik harness: a patient-specific finite element simulation.</td>
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- **Scientific Session** *(held concurrently or tri-currently)*
- **General Pediatric Radiology Categorical Course** *
- **Musculoskeletal Imaging Categorical Course** *

*Held concurrently
Friday

11:35 AM  1:05 PM  Radiographer Emerging Technologies Session

* OAK 1 & 2  
* Charles R. Fritz, RT, MBA, Moderator

11:35 - 11:55 a.m.  Visualase  
Christine Harris, RT (R) (MR)

11:55 a.m.-12:15 p.m.  EOS: Low Dose Imaging  
Colleen A. Flowers, RT (R) (MR) (ARRT)

12:15 - 12:35 p.m.  MEG  
John Dell

12:35 - 1:05 p.m.  PET/MR  
Elad Nevo, M.S., RT(MR)(N)(CT), CNMT

1:00 PM  2:10 PM  SPR Members’ Business Meeting Lunch  
(SPR Members Only)

1:00 PM  2:10 PM  Lunch On Your Own

2:15 PM  3:45 PM  General Pediatric Radiology: The Practice of Radiology  
* BAYSHORE GRAND A-C  
* Sarah S. Milla, MD, FAAP, Moderator

2:15 - 2:30 p.m.  MR Protocol Minimization  
Shreyas S. Vasanawala, MD, PhD

2:30 - 2:45 p.m.  ABR MOCs: What to Do  
Lane F. Donnelly, MD

2:45 - 2:55 p.m.  Sample PQI Projects  
Ramesh S. Iyer, MD

2:55 - 3:25 p.m.  Need to Know CR/DR Physics + PACS Artifacts  
Charles E. Willis, MD

3:25 - 3:45 p.m.  Field Strength: How the Power of Your Dictations Will Improve Patient Care and Change the Impact of Radiology  
Brent Adler, MD

COLOR KEY

Scientific Session  (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*  
Musculoskeletal Imaging Categorical Course*

*Held concurrently

40  The Society for Pediatric Radiology 2017 Annual Meeting and Categorical Course
2:15 PM  3:45 PM  Musculoskeletal Imaging: Inflammation/Vascular (SAM Session)  
**STANLEY PARK 1 & 2**  
Nancy A. Chauvin, MD and Jerry R. Dwek, MD, Moderators

2:15 - 2:45 p.m.  Imaging of Arthritis  
Andrea Doria, MD, PhD, MSc

2:45 - 3:00 p.m.  The Ins and Outs of the Temporomandibiulat Joint  
Jerry R. Dwek, MD

3:00 - 3:30 p.m.  Vascular Malformations  
Arnold Carl Merrow, MD

3:30 - 3:45 p.m.  Q&A with RSNA Diagnosis Live™

3:45 PM  4:15 PM  Breaks & Exhibits

4:15 PM  5:50 PM  Scientific Session VIII-A: Thoracic/Genitourinary Imaging - Miscellaneous Thoracic and Urinary Tract Imaging  
**BAYSHERE GRAND A-C**  
Gloria Soto, MD and Teresa Chapman, MD, MA, Moderators

4:15 - 4:30 p.m.  US Imaging of the Diaphragm  
Monica Epelman, MD

PA-144  4:30 PM  4:40 PM  Emerson, Miriam  
Contrast Enhanced Voiding/Urosonography: The bumpy road to the perfect protocol

PA-145  4:40 PM  4:50 PM  Balza, Rene  
Impact of a fast free-breathing 3T abdominal MRI protocol in improving scan time and image quality for pediatric patients with tuberous sclerosis complex.

PA-146  4:50 PM  5:00 PM  May, Lauren  
Evaluation of Imaging Criteria for Localized Cystic Disease of the Kidney in the Pediatric Setting

PA-147  5:00 PM  5:10 PM  Kapur, Jeevesh  
Contrast Enhanced Ultrasound of Kidneys in Children with Renal Failure

PA-148  5:10 PM  5:20 PM  Siegel, Marilyn  
Single Energy CT with Tin filtration for Pulmonary Nodule Detection: Phantom Study Using Exposures as low as 10 microGray

PA-149  5:20 PM  5:30 PM  Otrakji, Alexi  
Can dose-neutral dual energy CT pulmonary angiogram replace single energy CT in children? Self-Navigated Golden-Angle Ordered Conical Ultrashort Echo Time (UTE) Chest MR: Comparison with 4D Flow and Effects of Data Subsampling and Motion Correction

PA-150  5:30 PM  5:40 PM  Zucker, Evan  
MRI Assessment of Regional Differences in Pulmonary Perfusion in Infants and Toddlers with Cystic Fibrosis

PA-151  5:40 PM  5:50 PM  Rowe, Erin  
MRI Assessment of Regional Differences in Pulmonary Perfusion in Infants and Toddlers with Cystic Fibrosis

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**General Session**  
**General Pediatric Radiology Categorical Course**  
**Musculoskeletal Imaging Categorical Course**  
**Sunrise Session** (concurrent)  
**Radiographer Program**  

*Held concurrently*
Thursday, May 19, 2016

**Scientific Session VIII-B: Musculoskeletal Imaging – Skeletal Trauma**

**STANLEY PARK 1 & 2**

**Erika Rubešová, MD and Pooja Renjen, MD, Moderators**

4:15 - 4:30 p.m.

**Skeletal Weakness and Vulnerability to Trauma**

Diego Jaramillo, MD, MPH

- **PA-152** 4:30 PM 4:40 PM
  - Marine, Megan
  - Ultrasound Findings in Classic Metaphyseal Lesions: Emphasis on the Subperiosteal Bone Collar Changes

- **PA-153** 4:40 PM 4:50 PM
  - Tsai, Andy
  - The Distal Tibial Classic Metaphyseal Lesion: Radiographic Spatial Distribution and Biomechanical Implications

- **PA-154** 4:50 PM 5:00 PM
  - Kan, J.
  - Two-view versus three-view radiographs for the evaluation of distal tibial toddler fractures

- **PA-155** 5:00 PM 5:10 PM
  - O’Dell, Matthew
  - MR Imaging Features of Cuboid Fractures in Children

- **PA-156** 5:10 PM 5:20 PM
  - Kaplan, Summer
  - Buckle fracture of the proximal tibia: Association with trampoline and inflatable bouncer use

- **PA-157** 5:20 PM 5:30 PM
  - Jadhav, Siddharth
  - Comparison of 3T and 1.5 T MRI for evaluation of meniscal and ACL injuries in the pediatric population

- **PA-158** 5:30 PM 5:40 PM
  - Jadhav, Siddharth
  - Diagnostic Performance of State-of-the-Art Knee I for Meniscal and Anterior Cruciate Ligament Injuries in the Pediatric Population

- **PA-159** 5:40 PM 5:50 PM
  - Garcia, Kathryn
  - Stress Injuries and Physiological Adaptations in the Fingers of Adolescent Competitive Rock Climbers: Evaluation by Ultrasound and MRI

Friday, May 20, 2016

4:15 PM 5:50 PM

**Scientific Session VIII-C: Oncology**

**STANLEY PARK 3**

**Stephan D. Voss, MD, PhD and Rama S. Ayyala, MD, Moderators**

4:15 - 4:30 p.m.

**Contrast Enhanced Ultrasound in Pediatric Oncology**

Kassa Darge, MD, PhD

- **PA-160** 4:30 PM 4:40 PM
  - Cruz Romero, Cinthia
  - Pediatric Alveolar Rhabdomyosarcoma: genetic influence on imaging features

- **PA-161** 4:40 PM 4:50 PM
  - Ghaghada, Ketan
  - Quantitative 3D Imaging of Heterogeneous Nanoparticle Uptake in Orthotopic Mouse Models of High-risk Neuroblastoma

- **PA-162** 4:50 PM 5:00 PM
  - Eksioglu, Secil
  - Our experience with co-registered diagnostic CT scan for 123 mIBG SPECT/CT in children with neuroblastoma

**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
- **General Pediatric Radiology Categorical Course** *
- **Musculoskeletal Imaging Categorical Course** *
- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently
Friday

May 19

**Scientific Session** *(held concurrently or tri-currently)*

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<tr>
<th>Session</th>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>PA-163</td>
<td>5:00 PM</td>
<td>Sandberg, Jesse</td>
<td>Pediatric renal medullary carcinoma - distinctive imaging findings: a report from the Children’s Oncology Group</td>
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<tr>
<td>PA-164</td>
<td>5:10 PM</td>
<td>MacKenzie, John</td>
<td>Sub-mSv Whole Body PET/MRI in Pediatric Patients</td>
</tr>
<tr>
<td>PA-165</td>
<td>5:20 PM</td>
<td>Navarro, Oscar</td>
<td>The use of early interim positron emission tomography/ computed tomography (PET–CT) in the assessment and prognostication of pediatric Hodgkin lymphoma</td>
</tr>
<tr>
<td>PA-166</td>
<td>5:30 PM</td>
<td>Schooler, Gary</td>
<td>Utilization and Procedural Trends in Pediatric Whole Body MRI: Survey of the SPR Membership</td>
</tr>
<tr>
<td>PA-167</td>
<td>5:40 PM</td>
<td>Bardo, Dianna</td>
<td>Subjective Differences in Solid Tumor Measurements by Pediatric Radiologists Results in Inconsistent Reporting of Tumor Burden Which Could Adversely Affect Treatment Decisions</td>
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</table>

**General Session**

**Sunrise Session** *(concurrent)*

**Radiographer Program**

**COLOR KEY**

- **General Pediatric Radiology Categorical Course**
- **Musculoskeletal Imaging Categorical Course**

*Held concurrently

**5:50 PM** Adjourn

**7:30 PM** Reception & Annual Banquet *(additional fee applies for registrants and guests)*

**BAYSHORE GRAND FOYER AND BALLROOM**
Saturday

6:45 AM  8:30 AM  Continental Breakfast
6:30 AM  12:30 PM  Registration
7:00 AM  7:45 AM  US Protocol Session (Non-CME Session)

**STANLEY PARK**
Monica Epelman, MD and Neil Vachhani, MD, Moderators

7:00 - 7:02 a.m.  **Introduction & Welcome**
Monica Epelman, MD and Neil Vachhani, MD

7:02 - 7:20 a.m.  **Renal Doppler US: In Pursuit of an Optimized Examination**
7:02-7:10 a.m.  Ethan A. Smith, MD
7:10-7:20 a.m.  Vendor Comments & Audience Discussion

7:20 - 7:45 a.m.  **Musculoskeletal Sonography**
7:20-7:25 a.m.  Elbow US in Baseball Pitchers
Lauren Averill, MD
7:25-7:30 a.m.  Important Points in Rheumatologic Sonography
Andrea Doria, MD, PhD, MSc
7:30-7:35 a.m.  Usefulness of Therapeutic US Guided Joint Injects
Ellen Park, MD
7:35-7:45 a.m.  Vendor Comments & Audience Discussion

All Saturday Topic-Focused Sessions are Concurrent

8:00 AM  12:00 PM  Interventional Radiology (SAM Session)

**SEYMOUR**
Manish N. Patel, DO and Roger Harned, MD, FACR, Moderators

8:00- 8:30 a.m.  **Update on Interventional Oncology**
Matthew P. Lungren, MD, MPH

8:30- 9:00 a.m.  **Update on MR Interventions in Children**
Joao Amaral, MD

9:00 - 9:30 a.m.  **Spinal Pain Procedures: Role of Nerve Root Blocks, Medial Branch Blocks, Epidural Steroid Injections, Cementoplasty, etc.**
Manraj K. S. Heran, MD, FRCPC

9:30 - 9:45 a.m.  Discussion

**COLOR KEY**

*Held concurrently

**Scientific Session** (held concurrently or tri-currently)
**General Pediatric Radiology Categorical Course***
**Musculoskeletal Imaging Categorical Course***

**General Session**
Sunrise Session (concurrent)
Radiographer Program

The Society for Pediatric Radiology 2017 Annual Meeting and Categorical Course
9:45-10:00 a.m. Break

10:00 -10:30 a.m. Role of IR Trauma/Emergency IR Procedures
Jared Green, MD and Stanley T. Kim, MD

10:30 -11:00 a.m. Hematologist Aspect of Vascular Malformation: What We Need to Know from a Medical Aspect
Kiersten W. Ricci, MD, FAAP

11:00 -11:30 a.m. Sirolimus for the Management of Vascular Anomalies
Adrienne M. Hammill, MD, PhD

11:30 a.m. - 12:00 p.m. Discussion

8:00 AM 12:05 PM Neuroradiology (SAM Session) BAYSHORE GRAND A-B
Tina Young Poussaint, MD, FACR and Dennis W. Shaw, MD, Moderators

8:00 - 8:35 a.m. Congenital Spine Anomalies
Hedieh Khalatbari, MD

8:35 - 9:10 a.m. Pediatric Spinal Tumors
Francisco A. Perez, MD, PhD

9:10 - 9:45 a.m. Imaging of Pediatric Spinal Injury
Wendy A. Cohen, MD

9:45 - 9:55 a.m. Discussion

9:55 - 10:10 a.m. Break

10:10 - 10:45 a.m. Pediatric Brain Tumors: Update
Tina Young Poussaint, MD, FACR

10:45 - 11:20 a.m. Pediatric Head and Neck Tumors
Hisham Dahmoush, MBBCh, FRCR

11:20 -11:55 a.m. Metabolic Disease
Thierry A. G. M. Huisman, MD

11:55 a.m. -12:05 p.m. Discussion

COLOR KEY

Scientific Session (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*

General Session
Sunrise Session (concurrent)
Radiographer Program

*Held concurrently
Saturday

8:00 AM  12:00 PM  Practical and Possible Pediatric Nuclear Medicine  
(SAM Session)  
_Adina L. Alazraki, MD, FAAP and Helen R. Nadel, MD, FRCP, Moderators_

_A Multidisciplinary Approach to Managing the Child with Pediatric Thyroid Cancer_

8:00 - 8:25 a.m.  Thyroid Malignancy in Children: Role of the Pediatric Endocrinologist  
Jean-Pierre Chanoine, MD, FRCP

8:25 - 8:45 a.m.  Surgery for Pediatric Thyroid Cancer  
Geoffrey K. Blair, MD, FRCS

8:45 - 9:10 a.m.  A Team Approach to Nuclear Medicine Imaging  
Helen R. Nadel, MD, FRCP

9:10 - 9:20 a.m.  Discussion

_Imaging the Child with Seizures_

9:20 - 9:40 a.m.  Pediatric Epilepsy: A Clinician’s Perspective  
Mary B. Connolly, MB, BCh FRCP

9:40 - 10:05 a.m.  Multimodality Imaging of Pediatric Epilepsy  
Adina L. Alazraki, MD, FAAP

10:05 - 10:20 a.m.  Discussion

10:20-10:35 a.m.  Break

_SPECT/CT - Who, When, How and Dose Reduction in Pediatric Nuclear Medicine_

10:35 - 10:55 a.m.  Dose Reduction and Image Optimization in Pediatric Nuclear Medicine  
Ted Treves, MD

10:55 - 11:15 a.m.  Protocols for Pediatric SPECT/CT  
Marguerite T. Parisi, MD, MS

11:15 - 11:25 a.m.  Discussion
### Personalized Oncogenomics and Response Assessment

**11:25 - 11:45 a.m.**

**Personalized Oncogenomics in Pediatrics: BC Program**  
Rebecca Deyell, MD

**11:45 a.m. - 12:00 p.m.**

**Discussion**

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### PET/MR (SAM Session)  
**OAK 1 & 2**

**8:00 AM - 12:00 PM**

- **8:00 - 8:30 a.m.**  
  **Introduction: So You Bought a PET/MR Scanner: Now What?**  
  Shreyas S. Vasanawala, MD, PhD

- **8:30 - 9:00 a.m.**  
  **Physics and Instrumentation Considerations for PET/MR**  
  Georges El Fakhri, PhD, DABR

- **9:00 - 9:30 a.m.**  
  **PET/MR in Pediatric Oncology**  
  Maria Rosana Ponisio, MD

- **9:30 - 9:45 a.m.**  
  **Making PET-MRI More Accessible for Children**  
  Michael S. Gee, MD, PhD

- **9:45 - 10:00 a.m.**  
  **Break**

- **10:00 - 10:30 a.m.**  
  **PET/MR and the Role of Contrast Agents**  
  Heike E. Daldrup-Link, MD, PhD

- **10:30 - 10:50 a.m.**  
  **Novel Radiotracers for PET-MRI and Applications Beyond FDG**  
  Lisa J. States, MD

- **10:50 - 11:20 a.m.**  
  **Cancer Predisposition Syndromes and Cancer Screening: PET-MR vs. WBMRI**  
  Sudha A. Anupindi, MD

- **11:20 - 11:40 a.m.**  
  **Non-Oncologic Applications for PET/MR: Neuro, Cardiac, and Orthopedic Indication**  
  Stephan D. Voss, MD, PhD

- **11:40 a.m. - 12:00 p.m.**  
  **Pros and Cons Discussion on Merits of PET/MRI**  
  All Speakers

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- **Musculoskeletal Imaging Categorical Course**
- **General Session**
- **Sunrise Session** (concurrent)
- **Radiographer Program**

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*Held concurrently*
**Saturday May 20**

8:00 AM - 12:00 PM  | **WFPI Session: “Outreach in Pediatric Radiology: Addressing Needs, Challenges and Ethical Issues”**  

8:00 - 8:25 a.m.  | **Mapping of Pediatric Radiologists Around the World (Availability, Training, Gaps and Needs) to Guide Us Moving Forward**  
Gloria Soto, MD  
**Outreach: What Works, What Doesn’t The Keys to Success**

8:25 - 9:05 a.m.  | **Digital Outreach**  
Moderator & Panelist: Brian D. Coley, MD, FACR  
Panelists: Bhavya Rehani, MD, Gladys Mwango, MBChB, MMed and Sanjay Prabhu, MBBS, FRCR

9:05 - 9:15 a.m.  | **Q&A with the Digital Outreach Panelist**

9:15 - 10:05 a.m.  | **Onsite Outreach**  
Moderator & Panelist: Cicero Silva, MD  
Panelists: Cheri Nijssen-Jordan, MD, Jarred Halton, Kristin DeStigter, MD and Hansel J. Otero, MD

10:05 - 10:15 a.m.  | **Q&A with the Onsite Outreach Panelists**

10:15 - 10:30 a.m.  | **Break**

10:30 - 11:10 a.m.  | **Catching Up with Clinicians on Point of Care Ultrasound – Our Role in Diagnosis of Non-Radiologists in Lower Resource Settings**  
Moderator & Speaker: Savvas Andronikou, MBBCh, FRCR, PhD  
Speaker: Andrew T. Trout, MD

An Exploration in Ultrasound Training in Austere Clinical Environments: The MSF Experience  
John Lawrence, MD, FAAP, FACS

11:10 - 11:20 a.m.  | **Q&A with the Speakers**

11:20 a.m. - 12:00 p.m.  | **Eat, Pray, Ultrasound: The Ethical Challenges of Radiology Mission Work**  
Larry A. Binkovitz, MD

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**COLOR KEY**

- **Scientific Session** (held concurrently or tri-currently)
- **General Pediatric Radiology Categorical Course**
- **Musculoskeletal Imaging Categorical Course**
- **General Session**
- **Sunrise Session** (concurrent)
- **Radiographer Program**

*Held concurrently*
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<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tr>
<td>8:00 AM</td>
<td><strong>Hands-On Ultrasound Session: How to Do It Right!</strong></td>
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<td><strong>STANLEY PARK</strong></td>
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<tr>
<td></td>
<td>Kassa Darge, MD, PhD and Monica Epelman, MD, Moderators</td>
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<td>(advanced registration required; limited space)</td>
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<tr>
<td>8:00 - 9:15 a.m.</td>
<td><strong>Session 1: Ultrasound with Contrast Agent</strong></td>
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<tr>
<td>8:00 - 8:15 a.m.</td>
<td><strong>Intravenous Contrast Enhanced US</strong></td>
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<td>Harriet Paltiel, MDCM</td>
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<td>8:15 - 8:30 a.m.</td>
<td><strong>Intravesical Contrast Enhanced U</strong></td>
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<td>Susan J. Back, MD, FAAP</td>
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<tr>
<td>8:30 - 9:15 a.m.</td>
<td><strong>Hands-On US Contrast Session</strong></td>
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<td><strong>Station 1:</strong> Preparation of Ultrasound Contrast Agents Laura Poznick, AAS, RDMS</td>
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<td><strong>Station 2:</strong> Imaging of Microbubbles: A Teach Yourself Session</td>
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<td>Kassa Darge, MD, PhD and Trudy Morgan, BS, RDMS</td>
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<td><strong>Station 3:</strong> Imaging of Microbubbles: A Teach Yourself Session</td>
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<td>Harriet Paltiel, MDCM</td>
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<td><strong>Station 4:</strong> Simulation of Contrast Enhanced Voiding Urosonography</td>
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<td>Susan J. Back, MD, FAAP</td>
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<td>9:15 - 9:20 a.m.</td>
<td><strong>Transition – Intro to Session 2</strong></td>
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<td>9:20 - 10:05 a.m.</td>
<td><strong>Session 2: Ultrasound of the Diaphragm</strong></td>
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<td><strong>M-mode US of Diaphragmatic Motion – Technique</strong></td>
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<td>Monica Epelman, MD</td>
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<td>9:30 - 9:40 a.m.</td>
<td><strong>M-mode US of Diaphragmatic Motion – Clinical Cases</strong></td>
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<td>Oscar M. Navarro, MD</td>
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<td>9:40 - 10:05 a.m.</td>
<td><strong>Hands-On M-mode US of Diaphragm Session</strong></td>
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<td><strong>Station 1:</strong> Monica Epelman, MD</td>
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<td><strong>Station 2:</strong> Oscar M. Navarro, MD</td>
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<td><strong>Station 3:</strong> Eva Chan, CRGS, RDMS</td>
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<td><strong>Station 4:</strong> Ricardo Faingold, MD</td>
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<td><strong>Station 5:</strong> Maria Smith, BS, ARDMS</td>
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<td><strong>Station 6:</strong> Kassa Darge, MD, PhD</td>
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**COLOR KEY**

- **Scientific Session** *(held concurrently or tri-currently)*
- **General Pediatric Radiology Categorical Course** *
- **Musculoskeletal Imaging Categorical Course** *
- **General Session**
- **Sunrise Session** *(concurrent)*
- **Radiographer Program**

*Held concurrently
Saturday

10:05 -10:20 a.m. Break

10:20 - 11:05 a.m. Session 3: Ultrasound Elastography

10:20 - 10:30 a.m. Introduction to Liver Elastography
Daniel Podberesky, MD

10:30 - 10:40 a.m. US Elastography: Reproducibility Challenges
Jonathan R. Dillman, MD, MSc

10:40 - 11:05 a.m. Hands-On Elastography
Station 1: Daniel Podberesky, MD and Kara Dougherty, RDMS, AB, OB/GYN, PS
Station 2: Oscar M. Navarro, MD
Station 3: Eva Chan, CRGS, RDMS
Station 4: Susan J. Back, MD, FAAP
Station 5: Jonathan R. Dillman, MD, MSc
Station 6: Monica Epelman, MD and Maria Smith, BS, ARDMS

11:05 - 11:10 a.m. Transition – Intro to Session 4

11:10 a.m. - 12:00 p.m. Session 4: Doppler Ultrasound for Deep Venous Thrombosis (DVT)

11:10 - 11:20 a.m. US for DVT of Upper Extremity
Heather Bray, MD, FRCPC

11:20 - 11:30 a.m. US for DVT of Lower Extremity
Lydia Bajno, MD, FRCP

11:30 a.m. - 12:00 p.m. Hands-On US Doppler for DVT
Station 1: Heather Bray, MD, FRCPC
Station 2: Lydia Bajno, MD, FRCP
Station 3: Carolyn Beaton, CRGS
Station 4: Penny Thiessen, ARDMS, CRGS
Station 5: Ricardo Faingold, MD
Station 6: Maria Smith, BS, ARDMS and Kara Dougherty, RDMS, AB, OB/GYN, PS

12:00 PM 2017 SPR Annual Meeting and Categorical Course Adjourned

COLOR KEY

Scientific Session (held concurrently or tri-currently)
General Pediatric Radiology Categorical Course*
Musculoskeletal Imaging Categorical Course*

General Session
Sunrise Session (concurrent)
Radiographer Program

*Held concurrently
2018 SPR Annual Meeting and Postgraduate Course

May 15-19, 2018
Omni Nashville Hotel
Nashville, Tennessee

For more information about the 2018 SPR Meeting, visit www.pedrad.org.
2017 Courses of the SPR

2nd Pediatric Body MRI Course
September 15-17, 2017
Cincinnati Children’s Hospital Medical Center
Cincinnati, Ohio

For more information about these activities as well as other educational offerings of the Society, visit www.pedrad.org.
15th SPR Hands-On Course on Pediatric Cardiovascular Resonance

October 10-12, 2017
The Hospital for Sick Children
Toronto, Ontario, Canada

13th SPR Advanced Course on Pediatric Cardiovascular Imaging

October 13-15, 2017
The Hospital for Sick Children
Toronto, Ontario, Canada