ALARA*-CT

* As Low as Reasonably Achievable

Presented by the Society for Pediatric Radiology

March 5-6, 2011

Grand Hyatt DFW International Airport
Dallas, Texas

Jointly sponsored by the American Roentgen Ray Society
Objectives

1. Describe the important changes, advances and educational efforts in CT dose reduction over the past decade.
2. Describe the fundamental concepts of CT physics, technologic advances in MDCT, as well as practical methods of CT dose reduction.
3. Discuss controversial dose-related issues in pediatric CT imaging practice.
4. Propose ideas and establish initiatives for cooperative planning for future educational, accreditation and research initiatives in pediatric CT imaging.

Continuing Medical Education

Accreditation Statement
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American Roentgen Ray Society and The Society for Pediatric Radiology. The American Roentgen Ray Society is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement
The American Roentgen Ray Society designates this educational activity for a maximum of 10.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American Roentgen Ray Society is a strategic partner of the American College of Radiology.

Course Directors

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Acknowledgements

GE Healthcare

Philips Healthcare

Siemens Healthcare

Toshiba America Medical Systems
**Program**

**Saturday, March 5, 2011**

7:00–8:00 AM    Continental Breakfast & Registration

8:00-9:45 AM    **SESSION I - PROGRESS IN THE PAST DECADE**

Thomas L. Slosis, MD, Moderator

8:00-8:20 AM    Where Were We Then, What Has Changed, What Has Not
Thomas L. Slosis, MD

8:20-8:40 AM    Image Gently in CT – Progress and Challenges in CT Education and Advocacy
Marilyn J. Goske, MD

8:40-9:00 AM    Educational Efforts for Technologists, Physicians and the Public
Kimberly E. Applegate, MD, MS, FCR

9:00-9:20 AM    Use/Overuse: Justification and Optimization of CT in Children:
How are We Performing?
Donald P. Frush, MD

9:20-9:45 AM    Discussion

9:45-10:15 AM   **BREAK**

10:15 AM-12:00 PM    **SESSION II - PHYSICS AND CONCEPTS**

Michael J. Callahan, MD, Moderator

10:15-10:35 AM    CT and Development of a Patient Radiation Dose Index
Keith J. Strauss, MSc

10:35-10:55 AM    Estimation of Dose and Risk – CT Dose and Risk Estimates in Children
Donald P. Frush, MD

10:55-11:15 AM    CT Dose Reduction in Practice: What You Need to Know
Michael J. Callahan, MD

11:15-11:35 AM    Advances in CT Technology and Application to Pediatric Imaging
Mahadevappa Mahesh, MS, PhD

11:35 AM-12:00 PM    Discussion

12:00-1:30 PM    **LUNCH & VENDOR PRESENTATIONS**

Philips Healthcare and Toshiba America Medical Systems

1:45-3:30 PM    **SESSION III - CLINICAL CONUNDRUMS**

Sue C. Kaste, DO, Moderator

1:45-2:05 PM    Appropriate CT Imaging in Children - The ER Physician’s Perspective
Charles G. Macias, MD, MPH

2:05-2:25 PM    Optimizing Neuroradiologic Imaging While Minimizing Radiation Exposure
Nancy K. Rollins, MD

2:25-2:45 PM    Oncologic Imaging: Tumor Surveillance in Children
Sue C. Kaste, DO

2:45-3:05 PM    PET CT in Children: Where is it Appropriate?
Sue C. Kaste, DO

3:05-3:30 PM    Discussion

3:30-4:00 PM    **BREAK**
4:00-5:50 PM  
**SESSION IV - POINT COUNTERPOINT (Concurrent Session)**

Beverley Newman, MD, FACR, Moderator

4:00-4:20 PM  
**Sedation/Anesthesia for CT**
Charles C. Macias, MD, MPH and Thomas L. Slovis, MD

4:20-4:40 PM  
**Recording CT Dose**
Kimberly E. Applegate, MD, MS, FCR, and Karen Thomas, BM BCh, FRCR, FRCPC

4:40-5:00 PM  
**Lowering Dose – How Low Can You Go?**
R. Paul Guillerman, MD and Nancy K. Rollins, MD

5:00-5:20 PM  
**Controversial Dose Related Issues in Cardiac CT**
Beverley Newman, MD, FACR, and Shreyas S. Vasanawala, MD, PhD

5:20-5:50 PM  
**Discussion**

4:00-5:50 PM  
**Breakout Session - Why Radiation Reduction is Important in Children (Residents and Fellows) (Concurrent Session)**
Michael J. Callahan, MD, Moderator

6:00 PM  
**Reception**

6:30 PM  
**DINNER & VENDOR PRESENTATIONS**
GE Healthcare and Siemens Healthcare

**Sunday, March 6, 2011**

7:00-8:00 AM  
**Continental Breakfast**

8:00-9:45 AM  
**SESSION V - ALTERNATIVE IMAGING**

Shreyas S. Vasanawala, MD, PhD, Moderator

8:00-8:20 AM  
**Newer CT Applications and Their Alternatives: What is Appropriate in Children**
R. Paul Guillerman, MD

8:20-8:40 AM  
**Advances in Pediatric Body MR and PET/MR**
Shreyas S. Vasanawala, MD, PhD

8:40-9:00 AM  
**Ultrasound First-Applications**
Beverley Newman, MD, FACR

9:00-9:20 AM  
**Beyond the United States’ Borders**
Karen Thomas, BM BCh, FRCR, FRCPC

9:20-9:45 AM  
**Discussion**

9:45-10:15 AM  
**BREAK**

10:15 AM-12:00 PM  
**SESSION VI – Wrap-Up**

Marilyn J. Goske, MD, Moderator

10:15-10:35 AM  
**Getting it Right: Are Regulation and Registries for CT Radiation in Children the Answer?**
Marilyn J. Goske, MD

10:35-10:55 AM  
**Educating ALARA for the Future: Patients, Parents and Medical Personnel**
Kimberly E. Applegate, MD, MS, FACR

10:55-11:15 AM  
**The Role of CT in Professionalism: Accreditation, Certification and the Welfare of Our Children**
Donald P. Frush, MD

11:15-11:35 AM  
**Research Collaboration in Pediatric CT**
Michael J. Callahan, MD and Beverley Newman, MD, FACR

11:35 AM-12:00 PM  
**Discussion**

**ADJOURN**
Registration Information

Checks should be made payable to The Society for Pediatric Radiology in U.S. dollars only. American Express, VISA, and MasterCard are accepted for payment. All fees must be received at the time of registration.

Written verification of Radiologist-In-Training, Technologist, Resident or Fellow status must accompany registration form.

Fees include tuition, teaching materials, continental breakfast and coffee breaks, Saturday luncheon, reception and dinner. A $75 administrative fee will be retained if you cancel your meeting registration. In order to receive a full refund of the balance, written notice must be received on or before February 18, 2011; thereafter, no refunds will be made.

Registration may be completed on-line through the SPR website at www.pedrad.org.

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<tr>
<th>Registration Fees</th>
<th>On or Before Feb. 5, 2011</th>
<th>After Feb. 5, 2011</th>
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<tr>
<td>SPR Member Physicians</td>
<td>$350</td>
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<td>Non-Member Physicians</td>
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<tr>
<td>Active Military Personnel</td>
<td>$350</td>
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Hotel Information

Grand Hyatt DFW International Airport
2337 S. International Parkway
DFW Airport, TX 75261-9045
1-402-592-6464 Telephone
1-888-421-1442 Toll-Free

Group Room Rate: $159 + tax

Reservations may be booked on-line by visiting the SPR website at www.pedrad.org and selecting Meetings from the menu. The ALARA conference is listed on this page and includes a link to the hotel reservation site.

Alternatively, reservations may be made by contacting the hotel by phone as indicated above. To obtain the group rates, you must identify yourself as being with the SPR group.

Meeting Contact

The Society for Pediatric Radiology
1891 Preston White Drive
Reston, VA 20191
Facsimile: (703) 648-1863
SPRmeetings@acr.org

For assistance with registration issues, please contact (800) 373-2204. For all other inquiries, please dial (703) 648-0680 ext. 4691.

If you have any special needs, please contact The Society for Pediatric Radiology at the above address or E-mail address at least two weeks before the meeting to ensure that your needs are met.

Reservations must be received by February 1, 2011. It is possible that hotel rooms may sell out prior to February 1, 2011. As we booked a limited number of rooms, we strongly recommend that you make your reservations as early as possible to ensure your receive a room at the group rate. Rooms booked after the cut-off date will be offered at the going rate.

Room rates listed do not include applicable taxes which are currently 12%. Taxes are subject to change.

Please note that a credit card will be taken as a guarantee only and no charges will be applied until your arrival. The card will be charged one night room/tax only if your reservation is not canceled by 3:00 PM the day prior to arrival.

If you are interested in sharing a hotel room with another registrant, please contact Karen Schmitt at kschmitt@acr-arrs.org or 1-703-648-0691.

Check-in time: 4:00 p.m. • Check-out time: 12:00 p.m.
REGISTRATION FORM

ALARA-CT 2011 • March 5-6, 2011 • Dallas, Texas

(Please print)

LAST NAME ___________________________ FIRST NAME ___________ MI ___________

MAILING ADDRESS __________________________________________________________

☐ HOME
☐ BUSINESS

CITY ___________________________ STATE ___________ ZIP ___________

COUNTRY __________________________________ TELEPHONE _______________________

FACSIMILE ___________________________ E-MAIL _______________________________

☐ HOME
☐ BUSINESS

BADGE NAME ___________________________ DEGREE FOR BADGE ______________________

PLEASE CHECK IF YOU ARE A: ☐ RESIDENT    ☐ FELLOW    ☐ TECHNOLOGIST    ☐ IN-TRAINING

☐ ACTIVE MILITARY (Letter of verification required)

Check here if you plan to attend the Reception and Dinner Saturday night: ☐

TOTAL ENCLOSED: __________________

Credit Card Company: ☐ Visa ☐ MasterCard ☐ American Express

Credit Card # ___________________________ Exp. Date ___________________________

Authorized Signature ______________________________________________________

Registration Disclaimer: The Society for Pediatric Radiology and the American Roentgen Ray Society, as planners of this function, claim no liability for the acts of any suppliers to this meeting or the safety of any attendee while in transit to or from this event. The total amount of any liability during the precise hours of the meeting will be limited to a refund of the attendance fee. Your signature below acknowledges acceptance of this provision of registration.

Signature ___________________________________________ Date __________

Checks should be made payable to The Society for Pediatric Radiology. Please return this form with your check or credit card information to:

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Reston, VA 20191
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