



**RSNA 2007**  
CONNECTING RADIOLOGY

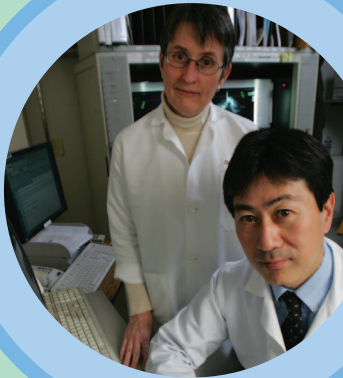
# Pediatric Radiology

SUBSPECIALTY CONTENT BROCHURE

**Radiological Society of North America**  
93rd Scientific Assembly and  
Annual Meeting

November 25–30, 2007  
McCormick Place, Chicago

*[RSNA2007.RSNA.org](http://RSNA2007.RSNA.org)*



Subspecialty content brochures organize the components of the annual meeting by subjects that correspond to radiologic subspecialties. We hope this brochure, along with the meeting program, helps to enrich and ease your experience at RSNA 2007.

## **RSNA Annual Meeting CME Information**

RSNA® is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

RSNA designates this educational activity for a maximum of 85.75 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## **Syllabus**

**SYLLABUS** = Syllabus available for purchase at the Education Store in RSNA Services, Lakeside Center, Level 3 or at Booth 1200, South Building, Hall A.

### **Sunday, November 25, 2007**

#### **10:30-12:00 Multisession Course**

Pediatric Series: Pediatric 3T MR Imaging I  
(Course VP11) (N229)

#### **2:00-3:30 Multisession Course**

Pediatric Series: Pediatric 3T MR Imaging II  
(Course VP12) (N229)

### **Monday, November 26, 2007**

#### **8:30-10:00 Multisession Course**

Case-based Review of Neuroradiology: Brain (In  
Conjunction with the American Society of  
Neuroradiology) (Course CN21) (S100AB)

#### **8:30-12:00 Multisession Course**

Pediatric Series: Pediatric Chest (Course VP21)  
(N229)

#### **10:30-12:00 Multisession Course**

Case-based Review of Neuroradiology: Spine  
(In Conjunction with the American Society of  
Neuroradiology) (Course CN22) (S100AB)

**1:30-3:00**      **Multisession Course**  
Case-based Review of Neuroradiology: Head and Neck (In Conjunction with the American Society of Neuroradiology) (Course CN23) (S100AB)

**3:00-4:00**      **Scientific Paper Sessions**  
Pediatric (Fetal MRI) (Session SSE14) (N229)  
  
Radiation Oncology and Radiobiology (Pediatrics and Outcomes) (Session SSE25) (S403B)

**4:30-6:00**      **Focus Session**  
Imaging Children in the ER: Coming to Terms (Session SFF01) (S502AB)

## Tuesday, November 27, 2007

**8:30-10:00**      **Refresher Course**  
Update Course in Diagnostic Radiology Physics: From Invisible to Visible—The Science and Practice of X-Ray Imaging and Radiation Dose Optimization (Course RC325) (S401AB)

### **SYLLABUS**

**8:30-12:00**      **Multisession Course**  
Pediatric Series: Trauma/Emergency Imaging I (Course VP31) (N229)

**1:30-3:00**      **Multisession Course**  
Essentials of Pediatric Radiology (Course ES33) (S100AB)

**3:00-4:00**      **Scientific Paper Session**  
Genitourinary (Fetal MR Imaging) (Session SSJ05) (E352)

**3:00-6:00**      **Multisession Course**  
Pediatric Series: Trauma/Emergency Imaging II (Course VP32) (N229)

**4:30-6:00**      **Refresher Course**  
Modern Pediatric Neuroimaging (Course RC405) (E451A)

## Wednesday, November 28, 2007

**8:30-10:00**      **Multisession Course**  
Case-based Review of Pediatric Radiology: Abdomen and Pelvis (In Conjunction with the Society for Pediatric Radiology) (Course CP41) (S406A)

### **Refresher Course**

Current Perspectives in Pediatric Oncology (Course RC513) (E353A)

**10:30-12:00 Multisession Course**

Case-based Review of Pediatric Radiology: Abdomen and Pelvis (In Conjunction with the Society for Pediatric Radiology) (Course CP42) (S406A)

**Scientific Paper Session**

Pediatric (Neuroradiology) (Session SSK13) (N229)

**1:30-3:00 Multisession Course**

Case-based Review of Pediatric Radiology: Thorax (In Conjunction with the Society for Pediatric Radiology) (Course CP43) (S406A)

**3:00-4:00 Scientific Paper Sessions**

Neuroradiology/Head and Neck (Brain: Hydrocephalus and Congenital Anomalies) (Session SSM13) (N226)

Pediatric (Cardiac) (Session SSM16) (N229)

**3:30-5:00 Multisession Course**

Case-based Review of Pediatric Radiology: Musculoskeletal (In Conjunction with the Society for Pediatric Radiology) (Course CP44) (S406A)

**4:30-6:00 Focus Session**

Sedation for Pediatric Imaging: Who and How—What Is the Current Standard of Care? (Session SFN02) (S502AB)

**Thursday, November 29, 2007**

**8:30-10:00 Refresher Course**

Fetal Imaging (An Interactive Session) (Course RC613) (S405AB)

**10:30-12:00 Scientific Paper Sessions**

Pediatric (CT Dose) (Session SSQ13) (N229)

Pediatric (Obesity/Miscellaneous) (Session SSQ14) (N230)

**4:30-6:00 Refresher Course**

Ask the Expert Panel (Course RC713) (E353A)

**Friday, November 30, 2007**

**8:30-10:00 Refresher Courses**

Categorical Course in Diagnostic Radiology: Clinical PET and PET/CT Imaging—Emerging PET Applications (Course RC811) (N228)

**SYLLABUS**

Common Dilemmas in Pediatric Emergency Imaging (Course RC808) (N230)

Pediatric Neuroradiology (Course RC813) (N227)

Pediatric Vascular Imaging with CT and MR (Course RC812) (S503AB)

Update Course in Diagnostic Radiology Physics: From Invisible to Visible—The Science and Practice of X-Ray Imaging and Radiation Dose Optimization (Course RC825) (S401AB)

## **SYLLABUS**

### **10:30-12:00 Scientific Paper Session**

Pediatric (Abdomen) (Session SST12) (N229)

### **Education Exhibits**

<b>Space No.</b>	<b>Exhibit Title</b>
LL-CH3347	MDCT Evaluation of Congenital Airway Abnormalities Presenting in Children and Adults
LL-CH4780	What's That? Reviewing the Spectrum of Congenital Lung Disease in the Adult Detected on MDCT
LL-CH4806-H13	Congenital Bronchial Atresia: Pathophysiology, Imaging Features, and Differential Diagnosis
LL-ED1011	Pediatric Case of the Day Exhibit
LL-MK3283	Review of the Pediatric Soft Tissue Masses Referred to the London Bone and Soft Tissue Tumor Service over an 8 Year Period: Diagnoses and Imaging Appearances
LL-MK4702	How to Estimate Age Using CT of the Pubic Symphysis, and the Sternal Surface of the 4th Rib
LL-MS6716	Preliminary Experience of Sentinel Node Biopsy in Children with Cutaneous Malignant Melanoma
LL-NM2734	Brown Adipose Tissue in Pediatric FDG PET/CT Imaging
LL-NM2740	The Decline of the V/Q Empire in the Young: Myth, Reality, or Missed Opportunity?
LL-PD2579	Interventional Radiology Procedures in Pediatric Patients Who Underwent Liver Transplantation
LL-PD2580	Sonographic Findings in Bacterial Meningitis
LL-PD2581	Oh Baby! Congenital Abnormalities on Prenatal MRI
LL-PD2582	Superficial Lumps in Children: Not Always a Benign Entity
LL-PD2583	Hemophagocytic Lymphohistiocytosis (HLH): Common and Uncommon Imaging Findings of a Rare Disease Affecting Children
LL-PD2584-L12	What Is the Most Appropriate First Imaging Study in This Pediatric Patient? Test Your Knowledge of the American College of Radiology Appropriateness Criteria® for Pediatric Imaging

- LL-PD2585-B11 Liver Diseases in Pediatrics: Spectrum of Findings at State of Art MR Imaging
- LL-PD2586 The Normal Thymus Mimicking Pathology in Children
- LL-PD2587 Cystic Extraurinary Abdominal Masses in Childhood
- LL-PD2588 Imaging Findings of CT and MR in the Patients with SCC Aplasia
- LL-PD2589 Angiomyolipomas, Aneurysms, and Abnormal Ribs: Common and Unusual Manifestations of Tuberous Sclerosis
- LL-PD2590 Retinoblastoma in a Developing Country: USG, Doppler, and CT Imaging
- LL-PD2591 Spectrum of Intracranial Arteriopathies in Children
- LL-PD2592 Distinctive MR Findings in Neonatal Acute Metabolic Encephalopathy
- LL-PD2593-H12 Sixty Four Slice CT Angiography in the Infant with Congenital Heart Disease
- LL-PD2594 MRI for Evaluation of Non-accidental Head Trauma: A Review
- LL-PD2595 Brain Magnetic Resonance Imaging Findings in Extremely Preterm Infants: A Pictorial Essay
- LL-PD2596 Pediatric Pneumoperitoneum: Piecing the Puzzle
- LL-PD2597-D11 Cystic Masses of the Fetal Abdomen and Pelvis
- LL-PD2598 Neonatal Renal Venous Thrombosis: Early Diagnosis with Color Doppler Ultrasound and Long Term Sequelae
- LL-PD2599 Urinary Cystic Lesions in Pediatric Patients
- LL-PD2600 MR Urography in Children: Technique, Applications, and Pitfalls
- LL-PD2601 The Imaging Features of Fetal Adrenal Diseases: Pre- and Postnatal Correlations
- LL-PD2602 Fetal Nephropathies: Sonographic-Pathologic Correlations
- LL-PD2603 Fibropolycystic Liver Disease in Children
- LL-PD2604 Pulsed Fluoroscopy: Understanding the Fact and the Fiction—What Is the Relationship between Image Quality, Fluoro Pulse Rate, and Radiation Dose?
- LL-PD2605 Pericerebral Fluid Collections in Children: Differential Diagnosis Using Ultrasonography, Computed Tomography, and Magnetic Resonance Imaging
- LL-PD2606 MR Angiography in Congenital Heart Diseases: A Pictorial Review
- LL-PD2607-D12 What the Radiologist Needs to Know about Staging of Hepatoblastoma

- LL-PD2608 Immediate and Delayed Biliary and Vascular Complications Post Segmental Liver Transplant in the Pediatric Population: Imaging Spectrum and the Role of Image-guided Minimal Invasive Percutaneous/Endovascular Interventions
- LL-PD2609 Assessment of Congenital Abnormalities of Pulmonary Artery with CT and MR Imaging
- LL-PD2610-H11 Learn How to Do and Interpret Hip Ultrasound in Children Using an Interactive Computer Program
- LL-PD2611 The Whole Spectrum of Sonographic Patterns of Normal and Abnormal Spleen in Infancy and Childhood
- LL-PD2612 Pictorial Essay: Vascular Rings in Children
- LL-PD2613 Neuroimaging of Tuberous Sclerosis: Spectrum of Pathology and Frontiers in Imaging
- LL-PD2614 The Cholangiopathies of Infancy and Childhood: A Pictorial Review of the Cholangiographic Features
- LL-PD2615 Improved Anatomical Accuracy of Brain Ultrasound by Reconstructed 3D SPGR Image Correlation
- LL-PD2616-B12 Central Nervous System Complications of Bone Marrow Transplantation in Children: CT and MR Findings
- LL-PD2617 MR Perfusion in Pediatric Brain Tumors
- LL-PD2618 Magnetic Resonance Imaging in the Evaluation of Primary Bone Tumor in Children: Findings and Pitfalls
- LL-PD2619-L11 Spectrum of Articular Cartilage Lesions in the Pediatric Knee: Clinical, MRI, and Arthroscopic Correlation
- LL-PD2620 Magnetic Resonance Imaging of Pediatric Knee Pain
- LL-PD2621 From Valgus to Varus, Equinus to Calcaneus: A 360 Degree Review of Congenital Foot Abnormalities
- LL-PD2622 Community Acquired Methicillin-resistant Staphylococcus Aureus Infections (CA-MRSA) in South Texas: Spectrum of MRI Findings—A Pictorial Essay
- LL-PD2623 Follow-up Imaging of Pediatric Central Nervous System Tumors: A Pictorial Review of Potential Pathology in This Population
- LL-PD3030 Usual and Unusual Focal Liver Lesions in Children: The Impact of a Rational Diagnostic Approach
- LL-PD3031 Imaging of Complications of Isolated Small Bowel Transplants in Children
- LL-PD3032 Imaging Ambiguous Genitalia: A Compendium on Classification and Diagnostic Approach
- LL-PD3033 Congenital Intrahepatic Portosystemic Shunts: Neonatal Experience

LL-PD3034-H	Pediatric MR Cholangiopancreatography: Principles, Technique, and Current Applications
LL-PD3035-R	A Visit to the NICU: A Review of the Correct Positioning of Neonatal Lines and Tubes and What Can Go Wrong
LL-PD3036	The Ins and Outs of Malrotation: Embryology, Imaging, with Surgical Correlation
LL-PD3037	Imaging of Complications Following Liver Transplantation in Children
LL-PD3038	Bronchial Atresia Spectrum: MDCT Imaging Findings—Correlation with Pathology and Fetal Imaging
LL-PD3039	Imaging of Treatment Related Complications of Cancer Therapy in Children
LL-PD3040	Pain in the Butt: The Spectrum of Gluteal Region Abnormalities in Children
LL-PD3041	Mechanical Extracorporeal Life Support in Children: Basic Principles and Radiographic Considerations
LL-PD3042	Extensor Mechanism Injuries of the Pediatric Knee
LL-PD3043	A Review of the Clinical and Imaging features of Childhood Osteochondroses
LL-PD3044	Pediatric Nasal Cavity and Paranasal Sinuses: An Online Digital Interactive CT/MR Teaching File of Normal Anatomy, Variants, and Disease
LL-PD3045	Subacute and Chronic Osteomyelitis: A Diagnostic Enigma
LL-PD3046	Sixty Four MDCT with MPR/3D Imaging in Pediatric Skeletal Trauma: Current Clinical Applications in the Emergency Room
LL-PD3047	Imaging Findings in Children with Obstetric Brachial Plexus Palsy
LL-PD3048	What We Should Know about Kawasaki Disease: Clinical and Radiological Features in Typical and Atypical Age Groups
LL-PD3049	Interstitial Lung Disease in Children: Imaging and Pathologic Findings
LL-PD3050	Fetal Brain and Body Diffusion Magnetic Resonance Imaging: A Review
LL-PD3051	MRI Lullaby: Effects of Anesthesia and Spontaneous Sleep on Functional, Perfusion, and Spectroscopic Pediatric MR Examinations
LL-PD3052	Cystic Lung Disease in Children: Spectrum of Multidetector CT Findings
LL-PD3053	Vascular Lesions in Children: What Are They, How to Diagnosis Them, How to Treat Them
LL-PD3054	Usefulness of Cardiovascular MR Angiography in the Pediatric Population

LL-PD3055	Are We Doing Enough to Minimize Fluoroscopic Radiation Dose for Children?
LL-PD3056	Fetal Thoracic MRI: Spectrum of Congenital Abnormalities with Pathological Correlation
LL-PD3057	The Dentate Nucleus in Children: Normal Development and Patterns of Disease
LL-PD3058	Coronary Artery Anomalies and Surgically Important Coronary Artery Anatomy in Patients with Congenital Heart Disease: Multi-detector row CT Findings
LL-PD3059	MDCT in Imaging Surgical Causes of Neonatal Respiratory Distress
LL-UR2664	Variable Imaging Features of Renal Cystic Diseases: From Fetus to Adult
LL-VI5133	Avoiding the TRAP: Diagnostic Imaging of Twin Reversed Arterial Perfusion and Image-guided Ablation

## Scientific Posters

Space No.	Poster Title
LL-PD2051-B01	Time Efficiency of 3-Dimensional Ultrasound Acquisition Compared to the Conventional 2D Acquisition Protocol for Neonatal Brains
LL-PD2052-B02	Assessment of Brain Parenchyma Damage in Neonates with Hypoxic Ischemic Injury Using Quantitative Diffusion Tensor MR Imaging
LL-PD2053-B03	Quantitative Assessment of Children with Neurofibromatosis Type 1 Using Apparent Diffusion Coefficient in Brain
LL-PD2054-B04	Deformities of the Inner Ear and the Internal Auditory Canal
LL-PD2055-B05	The Utility of Coronary Magnetic Resonance Angiography in Children under Six Years of Age with Kawasaki Disease
LL-PD2056-B06	Application of Gadobenate Dimeglumine in Contrast-enhanced MR Imaging of CNS Lesions in Children
LL-PD2057-B07	Head and Neck Pilomatricoma in Pediatric Patients: The Role of Sonography
LL-PD2058-B08	Arterial Spin Labeling Perfusion MRI in Pediatric Patients with absent ICA
LL-PD2059-B09	Brain Magnetic Resonance Imaging in the Compound Diphenoxylate Poisoning in Children
LL-PD2060-B10	Ultrasonography In Congenital Hypothyroidism
LL-PD2061-D01	Practical Ultrasonographic Approach in Differential Diagnosis of Biliary Atresia and Neonatal Hepatitis
LL-PD2062-D02	An Evaluation of the Predictive Value of Immediate Post-treatment PET/CT Scans in Pediatrics Lymphomas

- LL-PD2063-D03 Imaging of the Urethra with Contrast-enhanced Cystosonography
- LL-PD2064-D04 The Use of Dynamic MR Renography for the Evaluation of Congenital Urinary Tract Dilatation
- LL-PD2065-D05 Intermittent Inguinal Swelling in Childhood: The Role of Sonography
- LL-PD2066-D06 Vanishing Liver Lesions in Infants and Children: Imaging Diagnosis and Follow-up
- LL-PD2067-D07 Understanding the Fluoroscopic Unit Part I: The Effects of Dose Mode and Pulse Mode
- LL-PD2068-D08 Evaluation by Spiral CT on Traumatic Renal Injury in Children
- LL-PD2069-D09 Texture Analysis of DMSA Renal Scintigraphy in Diagnosis of Pyelonephritis
- LL-PD2070-D10 MR Imaging in Mullerian Duct Abnormalities
- LL-PD2071-H01 Radiation Dose Reduction Potential for Recurrent Abdominal MDCT Examination in Young Leukemia Patients: Simulation Study
- LL-PD2072-H02 Up to What Extent Doses Can Be Lowered in Pediatric CT?
- LL-PD2073-H03 Dose Reduction Potentials for Children with Suspected Severe Respiratory Infection with Automatic Tube Current Modulation on 64-slice MDCT
- LL-PD2074-H05 Experience with Radiologist Supervised Ketamine Administration for Solid Organ Biopsies in Children
- LL-PD2075-H06 Development of Noise Reduction Filter Algorithm for the Pediatric Abdominal CT Images
- LL-PD2076-H07 Alagille Syndrome in Children: Radiological and Ultrasonographic Features
- LL-PD2077-H08 Understanding Fluoroscopic Unit Part II: The Effects of Collimation and Source to Image Intensifier Distance (SID)
- LL-PD2078-H09 Understanding Fluoroscopic Unit Part III: The Effects of Magnification
- LL-PD2079-H10 The Value of Low-dose Multidetector CT Findings in Pediatric Patients with Suspected Foreign Body Aspiration
- LL-PD2080-L01 Physical and CT Index Changes after Bar Removal in Patients Who Had Undergone the Nuss Procedure for Pectus Excavatum
- LL-PD2081-L02 Idiopathic Pneumonia Syndrome in Pediatric Patients: A Review of CT Findings
- LL-PD2082-L03 Pulmonary Infections Following Bone Marrow Transplantation: High-Resolution CT Findings in 35 Pediatric Patients
- LL-PD2083-L04 Multidetector Row CT Evaluation of Congenital Esophageal Atresia and Distal Tracheoesophageal Fistula in Neonates

- LL-PD2084-L05 Evaluation of Total Anomalous Pulmonary Venous Connection with Multidetector Computed Tomography
- LL-PD2085-L06 Pediatric Head and Neck Masses: Assessment with Diffusion-weighted Echo Planar MR Imaging
- LL-PD2086-L07 Pulmonary Atresia: Assessment of Pulmonary Artery and Vasculature with Contrast-enhanced MR Angiography
- LL-PD2087-L08 Coarctation of the Aorta before and after Treatment: Role of Contrast-enhanced MR Angiography and Phase Contrast MR Imaging
- LL-PD2088-L09 Three-dimensional Dual Source Cardiac Multidetector CT (DSCT) of Percutaneous Pulmonary Valve and Arterial and Venous Stent Placement: Data Acquisition, Reconstruction, and Image Interpretation with Angiographic Correlation
- LL-PD2089-L10 Low Field Lung-MRI in Children: Impact on Clinical Therapy
- LL-PD2090-R01 Measurement Properties of the Compatible MRI Scoring System for Evaluation of Hemophilic Elbows in Children
- LL-PD2091-R02 The Effect of Targeted Ultrasound Screening on the Management of Infants at Risk of Developmental Dysplasia of the Hip: A Prospective Study
- LL-PD2092-R03 The Correlation between the Treatment Outcome of Developmental Dysplasia of the Hip (DDH) with Pavlik Harness and the Age When Treatment Started
- LL-PD2093-R04 Magnetic Resonance-(MR)-Guided Percutaneous Steroid Injection of the Temporomandibular Joint for the Management of Inflammatory Arthropathy in Children: Technical and Clinical Outcome
- LL-PD2094-R05 Diagnostic Accuracy of F-18 FDG PET-CT in Staging of Pediatric Sarcomas
- LL-PD2095-R06 Value of 2-[F-18] 2-fluoro-deoxy-D-glucose Positron Emission Tomography (FDG PET) in the Assessment of Pediatric Patients with Musculoskeletal Sarcomas
- LL-PD2096-R07 Does MRI Have a Role in Predicting the Need for Future Osteotomy in Children with Developmental Dysplasia of the Hip (DDH)?
- LL-PD2097-R08 Retrospective Five Year Review of the Outcome of Children Presenting with an Irritable Hip for Ultrasound and Arthrocentesis
- LL-PD2098-R09 Fuzzy System Design for Bone Age Assessment of Children in Multiple Regions of the Hand
- LL-PD2099-R10 CT-Scanner Approach in the Assessment of Fetal Skeletal Diseases