PEDIATRIC RADIOLoGY

104th Scientific Assembly and Annual Meeting
Radiological Society of North America
McCormick Place, Chicago

November 25–30
Meeting.RSNA.org  #RSNA18
Accreditation and Designation Statements

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of **99.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of **AMA PRA Category 1 Credit™** to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium

Please refer to each course description in the online program to determine if CME credit is offered for the session. Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposia will be provided through a third party provider and not through RSNA.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit Meeting.RSNA.org.
Walk Through The Week

CME Learning Checkpoint
CME Learning Checkpoint Exhibit ED024 (Spectrum of Pineal Region Tumors in Pediatric Patients: A Pictorial Review)
Session ED024...CME Learning Checkpoint Community
CME Learning Checkpoint Exhibit ED025 (Comprehensive Review of Pediatric Liver MR Elastography (MRE): Techniques, Tips, and Common Indications)
Session ED025...CME Learning Checkpoint Community

SUNDAY, NOV 25, 2018

Case of the Day
Pediatric Sunday Case of the Day
Session ED012-SU...Case of Day, Learning Center

10:45 AM–12:15 PM
Educational Courses
Pediatric Series: Neuroradiology
Course VSPD01shivashakti Stainless steel . S406A

12:30–1:00 PM
Posters and Exhibits: Discussions
Pediatric Sunday Poster Discussions
Session PDS-SUA...PD Community, Learning Center

1:00–1:30 PM
Posters and Exhibits: Discussions
Pediatric Sunday Poster Discussion
Session PDS-SUB...PD Community, Learning Center

2:00–3:30 PM
Educational Courses
Pediatric Series: Fetal/Neonatal Imaging
Course RC113...E352

4:00–5:45 PM
Plenary Sessions
Sunday Afternoon Plenary Session
Session PS12...Arie Crown Theater

MONDAY, NOV 26, 2018

Case of the Day
Pediatric Monday Case of the Day
Session ED012-MO...Case of Day, Learning Center
8:30–10:00 AM
Educational Courses
CT Dose Monitoring: Nuts, Bolts, and Tools... and What We Need to Build
Course RC224. ........................................ N229

8:30 AM–12:00 PM
Educational Courses
Pediatric Series: Pediatric Chest/Cardiovascular Imaging
Course RC213 ........................................... E353B

12:15–12:45 PM
Posters and Exhibits: Discussions
Pediatric Monday Poster Discussions
Session PDS-MOA . . . PD Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Pediatric Monday Poster Discussions
Session PDS-MOB . . . PD Community, Learning Center

1:30–3:00 PM
Corporate Symposium
Samsung Innovations for Patient Care - Pediatric, CEUS, and Advanced DR: Presented by Samsung
Session CS24 ................................. S102AB

1:30–3:00 PM
Educational Courses
Case-based Review of the Abdomen (Interactive Session)
Course MSCA21 ................................. S100AB

3:00–4:00 PM
Scientific Papers Sessions
Pediatrics (Oncology and Nuclear Medicine)
Session SSE21 ................................. E353B

TUESDAY, NOV 27, 2018
Case of the Day
Pediatric Tuesday Case of the Day
Session ED012-TU . . . . . . Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Current Imaging of the Appendix
Course RC308. ........................................ E353C
8:30 AM–12:00 PM
Educational Courses
Pediatric Series: Musculoskeletal Imaging
Course RC313 ........................................ N228

12:15–12:45 PM
Posters and Exhibits: Discussions
Pediatric Tuesday Poster Discussions
Session PDS-TUA ........ PD Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Pediatric Tuesday Poster Discussions
Session PDS-TUB ........ PD Community, Learning Center

1:30–3:00 PM
Educational Courses
Case-based Review of Nuclear Medicine: PET/CT Workshop-
Abdomen/Pelvis & Pediatrics PET/CT (In Conjunction with
SNMMI) (Interactive Session)
Course MSCC33 .................. E450B

2:00–3:30 PM
Corporate Symposium
Ultrasound Enhancing Agent Use in the Clinical Setting: An
Up-to-date Overview for Your Clinical Practice: Presented by
Northwest Imaging Forums, educational grant provided by
Bracco Diagnostics, Inc.
Session CS36 ........................... S105D

3:00–6:00 PM
Educational Courses
Pediatric Series: Gastrointestinal/Genitourinary
Course RC413 .............................. N228

4:30–6:00 PM
Educational Courses
Neuroradiology: Small Tricks to Avoid Big Misses (Interactive
Session)
Course RC405 ........................... E451A
The Role of Molecular and Functional Imaging in Radiation
Oncology
Course RC420 ........................... S403B

WEDNESDAY, NOV 28, 2018
Case of the Day
Pediatric Wednesday Case of the Day
Session ED012-WE ........ Case of Day, Learning Center
8:30–10:00 AM  
Educational Courses  
Case-based Review of Pediatric Radiology (Interactive Session)  
Course MSCP41 ................................................. E450B  
BOOST: Pediatrics-Oncology Anatomy and Case-based Multidisciplinary Review (Interactive Session)  
Course MSRO41 ................................................. S103CD  

8:30 AM–12:00 PM  
Educational Courses  
Pediatric Series: Pediatric Radiology  
Course RC513 ................................................. S405AB  

10:30 AM–12:00 PM  
Educational Courses  
Case-based Review of Pediatric Radiology (Interactive Session)  
Course MSCP42 ................................................. E450B  

12:15–12:45 PM  
Posters and Exhibits: Discussions  
Pediatric Wednesday Poster Discussions  
Session PDS-WEA .... PD Community, Learning Center  

12:45–1:15 PM  
Posters and Exhibits: Discussions  
Pediatric Wednesday Poster Discussions  
Session PDS-WEB .... PD Community, Learning Center  

1:30–2:30 PM  
Educational Courses  
BOOST: Pediatric CNS Tumors and Diagnostic Dilemmas after Radiation Therapy (Interactive Session)  
Course MSRO43 ................................................. S103CD  

1:30–3:00 PM  
Educational Courses  
Essentials of Pediatric Imaging  
Course MSES43 ................................................. S100AB  

3:00–4:00 PM  
Scientific Papers Sessions  
Pediatrics (Interventional Radiology)  
Session SSM20 ................................................. E260  

4:30–6:00 PM  
Educational Courses  
Controversy Session: CT or MRI after Equivocal Appendix Visualization on Pediatric Ultrasound?  
Session SPSC43 ................................................. N226
THURSDAY, NOV 29, 2018
Case of the Day
Pediatric Thursday Case of the Day
Session ED012-TH .......... Case of the Day, Learning Center

8:30 AM–12:00 PM
Educational Courses
Pediatric Series: Pediatric Safety and Quality
Course RC613 .................................. S502AB

10:30 AM–12:00 PM
Educational Courses
Case-based Review of Neuroradiology (Interactive Session)
Course MSCN52 .......................... S406A

10:30 AM–12:00 PM
Scientific Papers Sessions
Pediatrics (Neuroradiology)
Session SSQ19 .......................... S402AB

12:15–12:45 PM
Posters and Exhibits: Discussions
Pediatric Thursday Poster Discussions
Session PDS-THA ........ PD Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Pediatric Thursday Poster Discussions
Session PDS-THB ........ PD Community, Learning Center

3:00–4:00 PM
Educational Courses
Peds, IR, Potpourri (Case-based Competition)
Session SPDL51 ............................. E451B

3:30–5:00 PM
Educational Courses
Case-based Review of Ultrasound (Interactive Session)
Course MSCU52 .......................... E450B

4:30–6:00 PM
Educational Courses
Pediatric Neuroimaging Emergencies
Course RC713 ............................. S404AB
FRIDAY, NOV 30, 2018

8:30–10:00 AM
Educational Courses
Review of Pediatric Nuclear Medicine
Course RC811 ........................................ E263
Pediatric Sonography (Interactive Session)
Course RC813 ........................................ E353B

10:30 AM–12:00 PM
Scientific Papers Sessions
Pediatrics (Neuroradiology)
Session SST08 ............................. E263

Posters and Exhibits Discussions
(CME is available when the author is present for discussion during the lunch period)

SUNDAY, NOV 25, 2018

12:30–1:00 PM
Scientific Posters
Age Prediction Using Resting-State Functional Connectivity Characteristics in Typically Developing Infants
PD202-SD-SUA3 .......................... Station #3
Contrast-enhanced MRI Facilitates Monitoring of Feto-placental Unit Development in a Pregnant Mouse Model
PD203-SD-SUA4 .......................... Station #4
Diagnostic Performance of Computed Tomography to Differentiate Kawasaki Disease from Other Causes of Febrile Cervical Lymphadenopathy
PD200-SD-SUA1 .......................... Station #1
Initial Experience with Hyperpolarized Carbon-13 Metabolic MRI of Pediatric Patients with Brain Tumors
PD204-SD-SUA5 .......................... Station #5
The Developmental Change of Glutamate Concentration in Postnatal Normal Rat Brain Using in Vivo Glucost Technique
PD201-SD-SUA2 .......................... Station #2

12:30–1:00 PM
Education Exhibits
Pediatric Vasculitis: Multimodality Imaging Review
PD171-ED-SUA6 .......................... Station #6
Use of Intravenous Gadolinium Based Hepatocyte Specific Contrast Agents (HSCA) for Contrast Enhanced Liver MRI in Pediatric Patients - What the Radiologist Needs to Know
PD173-ED-SUA8 .......................... Station #8

1:00–1:30 PM
Scientific Posters
Forward Projected Model-Based Iterative Reconstruction Solution for 320-Row CT Angiography Improves Image Quality and Reduces Radiation Exposure in Infants with Complex Congenital Heart Disease
PD206-SD-SUB2 ........................ Station #2

MRI Assessment of Fetuses Referred with Ultrasonographically Suspected Pelvi-Abdominal Cystic Lesions: Is There an Added Value?
PD209-SD-SUB5 ........................ Station #5

Radiology of Pulmonary Infections in HIV Infected Children
PD207-SD-SUB3 ........................ Station #3

Stereoscopic Benefits for the Identification of Pulmonary Vein Stenoses with CT Angiograms
PD205-SD-SUB1 ........................ Station #1

The Value of Whole Tumors Volume-based T2WI Histogram Analysis of Differential Diagnosis in Pediatric Posterior Fossa Tumors
PD208-SD-SUB4 ........................ Station #4

1:00–1:30 PM
Education Exhibits
Cerebral Development and Malformations: Pathways, Genes, and Imaging Correlates
PD176-ED-SUB8 ........................ Station #8

Stridor in Children - What the Radiologist Should Know
PD175-ED-SUB7 ........................ Station #7

Unravelling the Troublesome Puzzle: A Comprehensive Imaging Review of Pediatric Intracranial Neurovascular Diseases
PD174-ED-SUB6 ........................ Station #6

MONDAY, NOV 26, 2018
12:15–12:45 PM
Scientific Posters
A Comparative Study of Free-Breathing StarVIBE with Conventional VIBE in Fetal Brain T1WI Imaging
PD211-SD-MOA2 ....................... Station #2

Feasibility of Free-Breathing T1-Weighted 3D Radial VIBE for Fetal MRI
PD212-SD-MOA3 ....................... Station #3
Image Quality and Incidental Findings of Chest MRI in a Large Pediatric Population-Based Study
PD213-SD-MA4 .......................... Station #4

Non-Breath Hold Dynamic Contrast Enhanced Abdominal and Thoracic MRI in Pediatric Oncologic Patients Using a GRASP-Sequence at 3T
PD214-SD-MA5 .......................... Station #5

Thoracic Air-Leak Syndrome and Bronchiolitis Obliterans in Pediatric Patients Following Hematopetic Stem Cell Transplantation
PD210-SD-MA1 .......................... Station #1

12:15–12:45 PM
Education Exhibits
Adolescent Overhead Athlete: Anatomy, Physiology, and Pathophysiology
PD177-ED-MA6 .......................... Station #6

Dentate Nuclei Involvement in Pediatric CNS Conditions: Imaging and Clinicolaboratory Insights
PD179-ED-MA8 .......................... Station #8

Fetal Cardiac MRI for Structural Congenital Heart Disease
PD178-ED-MA7 .......................... Station #7

12:45–1:15 PM
Scientific Posters
Automatic Computation of Iso-perimetric Ratio as Quantitative Index for Degree of Left Ventricular Trabeculation in Adolescents and Young Adults: Potential Indicator for Left Ventricular Non-Compaction
PD219-SD-MOB5 .......................... Station #5

Disease-Specific Dose Estimate (DSDE): Optimization of Radiation Dose for Children with Hepatomegaly
PD217-SD-MOB3 .......................... Station #3

Does 18F-FDG Dose Reduction for PET/MRI Affect Treatment Response Assessment of Lymphomas and Sarcomas?
PD218-SD-MOB4 .......................... Station #4

Early Prediction of Progression to Severe Post Hemorrhagic Hydrocephalus on Cranial Ultrasound of Premature Newborns
PD216-SD-MOB2 .......................... Station #2

Imaging Findings of Abdominal Compartment Syndrome: Unique Features in Children
PD215-SD-MOB1 .......................... Station #1

12:45–1:15 PM
Education Exhibits
Clinical and CT findings of Tracheal Agenesis: Single Center Experience and Literature Review
PD180-ED-MOB6 .......................... Station #6
Prenatal Imaging Findings in Anorectal Malformations
PD181-ED-MOB7 .......................... Station #7

Supratentorial Glioblastoma Multiforme in Children: Conventional and Advanced MRI Features
PD182-ED-MOB8 .......................... Station #8

TUeSDAY, NOV 27, 2018
12:15–12:45 PM
Scientific Posters
Infants Limb Fractures in Household Accidents: Beyond the Shaken-Baby Syndrome
PD221-SD-TUA2 .......................... Station #2

Rickets in Vienna Revisited
PD223-SD-TUA4 .......................... Station #4

Specific CT Imaging Characteristics of Congenital Mesoblastic Nephroma and Correlation with Ultrasound and Pathology
PD224-SD-TUA5 .......................... Station #5

The Comparison Between Improved T2 SPACE and Other Traditional MRU Sequences in Children with Congenital Urinary Tract Malformation
PD220-SD-TUA1 .......................... Station #1

Value of Functional T2 Mapping in the Assessment of Early Cartilage Degeneration of Pediatric Hemophilic Patients
PD222-SD-TUA3 .......................... Station #3

12:15–12:45 PM
Education Exhibits
Case Based Approach to Hindbrain Malformations
PD184-ED-TUA7 .......................... Station #7

To Improve is to Change, to Be Perfect is to Change Often: A Review of the Many Pediatric Urinary Tract Dilation Classifications Through Ultrasound History
PD183-ED-TUA6 .......................... Station #6

When Animals Attack! What the Radiologist Needs to Know About Pediatric Animal Related Injuries
PD185-ED-TUA8 .......................... Station #8

12:45–1:15 PM
Scientific Posters
Clinical Implication of Hepatic Subcapsular and Capsular Flow in Doppler Ultrasound and Microvascular Imaging after Receiving Kasai Operation
PD229-SD-TUB5 .......................... Station #5

Frequency Selective Non-Linear Blending Technique Can Improve Detection of Acute Infarcts on Pre-enhanced Brain CT in Children
PD227-SD-TUB3 .......................... Station #3
Imaging of the Temporomandibular Joint in Juvenile Idiopathic Arthritis: A Comparison of Quantitative and Semi-Quantitative MRI Scoring
PD228-SD-TUB4  Station #4

Improved Method for Estimating Brain Structural Location for Mapping of Magnetoencephalography in Young Children
PD226-SD-TUB2  Station #2

Microstructural Changes of Brain White Matter for the Children Patients with Obstructive Sleep Apnea Syndrome Based on Diffusional Kurtosis Imaging Study
PD225-SD-TUB1  Station #1

12:45–1:15 PM
Education Exhibits
Diffusion-Weighted Magnetic Resonance Imaging (DW-MRI) and Hybrid PET-MR for the Growing Skeleton: Normal Appearances, Pitfalls, Current Applications, and Limitations
PD187-ED-TUB7  Station #7

Rethinking ADEM: The Changing Landscape of Neuroinflammatory Disorders
PD186-ED-TUB6  Station #6

WEDNESDAY, NOV 28, 2018
12:15–12:45 PM
Scientific Posters
Artificial Intelligence in Bone Age Assessment: Evaluation of Diagnostic Accuracy and Efficiency of a Novel Fully Automated Algorithm in Comparison to the Greulich Pyle Atlas Method
PD234-SD-WEA5  Station #5

Comparison on Image Quality of Two Type Low-Dose CT Iterative Algorithm Reconstruction and Filtered Back Projection Reconstruction in Children’s Temporal Bone
PD230-SD-WEA1  Station #1

Indigo Mechanical Thrombectomy in Children: An Initial Experience
PD233-SD-WEA4  Station #4

Longitudinal Prediction of Pediatric Diffusion MRI Data using Graph-Based Deep Learning
PD231-SD-WEA2  Station #2

Pulmonary Metastases of Neuroblastoma - CT Differential Features at the Initial Diagnosis
PD232-SD-WEA3  Station #3
12:15–12:45 PM
Education Exhibits
Characterizing Pediatric Liver Masses and Mimics by MR: A Radiologist’s Primer
PD188-ED-WEA6 .................................. Station #6
MRI of the 1st Trimester Pregnancy Fetus and Placenta
PD189-ED-WEA7 ............................. Station #7

12:45–1:15 PM
Scientific Posters
A Realistic Pediatric Abdominal Phantom with Contrast Enhancement Using 3D Printing Technology: Comparison with Patient Computed Tomography Images
PD237-SD-WEB3 ................................ Station #3
A Review of Paediatric Interventional Radiology Transfers Away from a Tertiary Paediatric Centre
PD238-SD-WEB4 ................................ Station #4
Normalized Organ Doses for Pediatric Chest CT Examinations Calculated Using a Patient-Specific Monte Carlo Method
PD235-SD-WEB1 ................................ Station #1
Usefulness of Abdominal Aortography for Evaluation of Renal Artery Stenosis in Children with Moyamoya Disease
PD239-SD-WEB5 ................................ Station #5
Wide Awake and Satisfied
PD236-SD-WEB2 ................................ Station #2

12:45–1:15 PM
Education Exhibits
Pediatric Whole Body PET/MR: How to Acquire Excellent Images with a Streamlined Protocol
PD191-ED-WEB7 ................................ Station #7
The Term Hemangioma in 2018: Disentangling the Web
PD190-ED-WEB6 ................................ Station #6

THURSDAY, NOV 29, 2018
12:15–12:45 PM
Scientific Posters
Avoiding Sedation in Brain Examinations for Neonates and Children by Using Silent MR Sequence: A Comparative Study
PD243-SD-THA4 ................................ Station #4
Comparison of 320-Row Detector CT Angiography versus Transthoracic Echocardiography for Imaging of Coronary Artery Lesion in Children with Kawasaki Disease
PD241-SD-THA2 ................................ Station #2
Evaluation of MRI in the Prenatal Diagnosis of Cleft Lip and Palate
PD242-SD-THA3 .............................. Station #3
Isolated Periventricular Pseudocysts Do Not Affect White Matter Development in Neonatal Stage: A TBSS Study
PD244-SD-THA5 .......................... Station #5

Study of Probabilistic Versus Deterministic Tractography in Pediatric Spinal Cord Imaging
PD245-SD-THA6 .......................... Station #6

The Feasibility Study of Reducing 20% Contrast Agent Dose in Abdominal CT by Using 80kV Tube Voltage: An Intra-Patient Study for Children of 28kg or Less
PD240-SD-THA1 .......................... Station #1

12:15–12:45 PM

Education Exhibits
Growing a Backbone: Essentials of Neonatal Spine Ultrasound
PD192-ED-THA7 .......................... Station #7

New MR Techniques to Decrease MR Scan Times in Children
PD193-ED-THA8 .......................... Station #8

12:45–1:15 PM

Scientific Posters
CT Imaging Findings of Colonic Polyps in Children
PD247-SD-THB2 .......................... Station #2

High-pitch Scan Mode in Urinary Examinations in Children without Medical Sedations Using the Third-Generation Dual-Source Computed Tomography: Image Quality and Radiation Dose Performance
PD248-SD-THB3 .......................... Station #3

Microcirculatory Perfusion and Diffusion Assessment of Neonates with Punctate White Matter Lesions Using intravoxel Incoherent Motion (IVIM)
PD251-SD-THB6 .......................... Station #6

Pediatric Diagnostic Reference Ranges for Dual-energy Dual-source Abdominopelvic CT
PD249-SD-THB4 .......................... Station #4

The “Thoracic Meconium Sign” as a Diagnostic Feature in the Diagnosis of Diaphragmatic Hernia on Fetal MRI
PD246-SD-THB1 .......................... Station #1

The Utility of Texture Analysis in Differential Diagnosis of Pediatricposterior Fossa Tumors
PD250-SD-THB5 .......................... Station #5

12:45–1:15 PM

Education Exhibits
Spectral Multi-Energy Computed Tomography: Preliminary Experience in Pediatric Neuroradiology
PD195-ED-THB8 .......................... Station #8

Stroke in Pediatric Age Group: How MRI Can Help?
PD194-ED-THB7 .......................... Station #7
## Education Exhibits

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<td>Put Your Best Foot Forward: Mastering Radiographic Evaluation of Congenital Foot Deformities</td>
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<td>Musculoskeletal Lesions in the Pediatric Population: A Radiographic Review</td>
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<td>Pearls and Pitfalls on the Imaging Evaluation of CNS Tumors in Children</td>
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<td>Benefit of 3D Printed Tracheas as Aids for Management of Deformed Airway in Complex Surgery for Children</td>
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