

# 2021 Pediatric Imaging Essentials: Techniques, Pearls and Pitfalls

**Release Date: March 15, 2021** | 14.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>

## About This CME Teaching Activity

This continuing education activity provides a practical, clinically relevant review of common pediatric imaging protocols and techniques. Expert faculty share pearls and pitfalls in abdominal, vascular, musculoskeletal, and neuroradiology. Discussions include the advantages of using advanced imaging technology, multimodality imaging techniques, image characteristics and quality improvements aimed at improving patient outcomes.

## Target Audience

This course should benefit pediatric radiologists, physicians who supervise and interpret pediatric imaging studies. This course should also prove valuable for physicians who order pediatric imaging studies.

## Scientific Sponsor

Educational Symposia

## Accreditation

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this enduring material for a maximum of 14.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**SA-CME:** Credits awarded for this enduring activity are designated "SA-CME" by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.

All activity participants are required to take a written or online test in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

**AMA PRA Category 1 Credit(s)<sup>TM</sup>  
for this activity may be claimed until March 14, 2024.**

This program is planned and organized by Educational Symposia, a leader in accredited continuing education since 1975.

This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

## Educational Objectives

At the completion of this CME teaching activity, you should be able to:

- Discuss the challenges radiologists face when caring for a pediatric patient.
- Minimize the risks of ionizing radiation exposure to the pediatric patient.
- Utilize technical advances to maximize image quality yet minimize radiation exposure dose.
- Recognize key image features associated with pediatric chest, GI, GU, neuro, vascular and musculoskeletal disorders.
- Incorporate quality improvement processes to increase the standard of pediatric care in radiology.
- Effectively communicate with pediatric patients, their parents and referring physicians.
- Apply protocols to efficiently evaluate the non-accidental trauma patient.

*No special educational preparation is required for this CME activity.*

## Faculty

### Patricia T. Acharya, M.D., FAAP

Director of Musculoskeletal Radiology  
Associate Program Director - Pediatric Radiology Fellowship  
Assistant Professor of Radiology  
Keck School of Medicine of the University of Southern California  
Clinical Adjunct Assistant Professor of Radiology  
Loma Linda University School of Medicine  
Children's Hospital Los Angeles  
Los Angeles, CA

### Sudha A. Anupindi, M.D., FSAR

Associate Professor of Radiology  
Chief of Body Imaging, Department of Radiology  
The Children's Hospital of Philadelphia [CHOP]  
University of Pennsylvania Perelman School of Medicine  
Philadelphia, PA

### Shailee Lala, M.D.

Assistant Professor of Radiology  
NYU Grossman School of Medicine  
New York, NY

### Rupa Radhakrishnan, MBBS, MS

Assistant Professor of Radiology and Imaging Sciences  
Indiana University School of Medicine  
Pediatric Neuroradiologist  
Riley Hospital for Children at Indiana University Health  
Indianapolis, IN

### Erica L. Riedesel, M.D., FAAP

Assistant Professor Radiology and Pediatrics  
Director of Pediatric Radiology Research  
Division of Pediatric Radiology  
Children's Healthcare of Atlanta  
Emory Children's Hospital  
Atlanta, GA

### Gary Schooler, M.D.

Assistant Professor  
Pediatric Radiology Division  
University of Texas Southwestern  
Department of Radiology  
Dallas, TX

### Randheer Shailam, M.D.

Instructor in Radiology  
Harvard Medical School  
Pediatric Radiologist  
Massachusetts General Hospital  
Boston, MA

## Program

**CT:** 12.75 Hours • **MRI:** 12.5 Hours • **Ultrasound (US):** 9.5 Hours • **Fluoro (FL):** 1.5 Hours

**Nuclear Medicine (NM):** 0.75 Hours • **Safety (SF):** 0.5 Hours

### Session 1

CT, MRI, US	Imaging Pediatric Liver Tumors <i>Gary R. Schooler, M.D.</i>
CT, MRI, US, FL	Pancreatic and Bowel Masses in Children <i>Sudha A. Anupindi, M.D., FSAR</i>
MRI, US, FL	Congenital Genitourinary Anomalies <i>Patricia T. Acharya, MD, FAAP</i>

### Session 2

CT, MRI	Imaging Pediatric Biliary Disease <i>Sudha A. Anupindi, M.D., FSAR</i>
CT, MRI, US	Pediatric Renal and Adrenal Masses <i>Patricia T. Acharya, MD, FAAP</i>
CT, MRI, US	Incidentalomas in Children: What to do? <i>Gary R. Schooler, M.D.</i>

### Session 3

CT, MRI, US, FL	Neonatal Bowel Obstruction <i>Sudha A. Anupindi, M.D., FSAR</i>
CT, MRI, US	Tips and Tricks for Imaging the Pediatric Abdomen and Pelvis <i>Gary R. Schooler, M.D.</i>
CT, MRI, US	Imaging the Scrotum in a Child: Pearls and Pitfalls <i>Patricia T. Acharya, MD, FAAP</i>

### Session 4

CT, US	Imaging Abdominal Infections and Inflammatory Bowel Diseases <i>Sudha A. Anupindi, M.D., FSAR</i>
CT, MRI, US	A Look at Pediatric Ovarian Masses: A Case Based Approach <i>Patricia T. Acharya, MD, FAAP</i>
CT, SF	Pediatric Dose Reduction: Past, Present and Future <i>Gary R. Schooler, M.D.</i>

### Session 5

CT, US	Imaging the Neonatal Chest <i>Shailee V. Lala, M.D.</i>
MRI	Upper Extremity Injuries <i>Randheer Shailam, M.D.</i>
CT, MRI, US	Vascular Malformations: What the Radiologist Needs to Know <i>Erica Riedesel, M.D., FAAP</i>

### Session 6

CT, MRI, US	Normal Pediatric Chest: Variants and Pitfalls <i>Shailee V. Lala, M.D.</i>
CT, MRI	Pediatric Trauma: Not Just "Little Adults" <i>Erica Riedesel, M.D., FAAP</i>
CT, MRI	Pediatric Spine Emergencies <i>Rupa Radhakrishnan, MBBS, MS</i>

# Program

## Session 7

- MRI Lower Extremity Injuries  
*Randheer Shailam, M.D.*
- CT, MRI Update on Non-Accidental CNS Trauma  
*Rupa Radhakrishnan, MBBS, MS*
- CT, MRI, US, NM Imaging of Pediatric Bone Tumors  
*Randheer Shailam, M.D.*

## Session 8

- MRI Common Congenital Malformations of the Brain and Spine  
*Rupa Radhakrishnan, MBBS, MS*
- CT, MRI Pediatric Chest Masses: What the General Radiologist Needs to Know  
*Shailee V. Lala, M.D.*
- CT, MRI, US Abdominal Pain in a Child: Case Based Approach  
*Erica Riedesel, M.D., FAAP*

## Session 9

- CT, US Imaging Features of Infections and Inflammatory Diseases  
*Shailee V. Lala, M.D.*
- CT, MRI Imaging of Pediatric Brain Tumors  
*Rupa Radhakrishnan, MBBS, MS*
- CT, MRI, US Interesting Vascular Cases: Learn from the Experts  
*Erica Riedesel, M.D., FAAP*

A CME Teaching Activity

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