

RSNA 2019 - 105th Scientific Assembly and Annual Meeting Award Winners

Magna Cum Laude

BR214-ED-WEB10

Trials and Tribulations in the Early Implementation of an Abbreviated Screening Breast MR Program
S.P. Zuckerman, MD, Philadelphia, PA
S. Weinstein, MD
E.S. McDonald, MD
K. Korhonen, MD
E.F. Conant, MD

BR217-ED-THA8

Collecting Pearls: An Interactive Review of Breast Cancer Staging
B.G. Jiang, MD, Boston, MA
R. Mehta
V.M. Dialani, MD
E.J. Karimova, MD
V.J. Fein-Zachary, MD
P. Lotfi, MD

CA100-ED-X

Pre-and Post-Procedural Imaging of Left Atrial Appendage Closure Devices with Computed Tomography
P. Rajiah, MD, FRCR, Dallas, TX
P. Ranganath, MD
R. Wu
E.E. Williamson, MD

CH109-ED-X

Pitfalls in Interpreting CT Pulmonary Angiograms
A. Desimone, MD, MPH, Boston, MA
C.A. Raptis, MD
T.S. Henry, MD
S. Bhalla, MD
M.M. Hammer, MD

CH157-ED-X

Noninfectious Granulomatous Lung Diseases: Organizing the Pieces of the Puzzle
T.C. Franquet, MD, Barcelona Spain
T.J. Franks, MD
J.R. Galvin, MD
K. Lee
S. Martinez-Jimenez, MD
E. Marchiori, MD, PhD

ER111-ED-X

The Perilous Pancreas: A Multimodality Review of Pancreatic Trauma
A.R. Ayoob, MD, Lexington, KY
J.T. Lee, MD
D. Turner
M. Issa, MD
C.A. LeBedis, MD
A. Jain, MD

ER158-ED-SUA6

The Whole Spine Yards: A Review of Pediatric Spine Trauma
D.I. Mistry, MD, Rochester, NY
S.K. Ellika, MD
A. Chaturvedi, MD

GI141-ED-X

Dealing with the Epidemic: A Review of the Abdominal Imaging Findings of Recreational Drug Abuse
J. Mansour, MD, Saint Louis, MO
A. Umer, MD
K.S. Zurcher, MD
M. Zulfiqar, MD
A.P. Heeger, DO
C.O. Menias, MD

GI279-ED-SUB12

Pancreas in Hereditary Syndromes: Cross-Sectional Imaging Spectrum
S. Buddha, MD, DMRD, San Antonio, TX
J.N. Shah, MD
O. Yeganeh Rikhtehgar, MD
A.K. Dasyam, MD
A. Nazarullah
C.O. Menias, MD

GI283-ED-MOA13

Learning to Ride the Wave: An Interactive Review of the Pitfalls in MR Elastography
C. Zhan, MD, PhD, New York, NY
K. Shanbhogue, MD
M.T. Taffel, MD

GI311-ED-SUB13

Bariatric Surgery Reduced to Simple Terms
L.L. Faria, MD, Juiz de Fora Brazil
G.F. Darce
M.S. Filho
T.M. Baraviera, MD
A.B. Dantas
M. Santo

HP106-ED-X

Animated Encounters with Patients in Radiology: The Next Frontier of Patient Empowerment
R. Doda Khera, MD, Cambridge, MA
R. Singh, MBBS
K. Mengistu
R. Ralston
M. Halak
E. Chan, MD

IN120-ED-X

3D Printed Patient-Specific Surgical Cutting Guides Based on CT-Derived Anatomic Meshes
A.E. Alexander, MSc, Rochester, MN
N. Wake, PhD
H. Dickens, BSC
J.S. Matsumoto, MD
J.M. Morris, MD

MK109-ED-X

Anatomy, Biomechanics, Imaging and Pathologies of the Acromioclavicular Joint
D.V. Flores, MD, Quezon City Philippines
C. Mejia Gomez, MD
D.I. Fernandez, MD
P.C. Kuenzer Goes, MD
M.N. Pathria, MD

MK273-ED-X

Gamuts in Advanced MRI for Soft Tissue Lesions Assessment: The Added Value of Functional Imaging
T.M. Noguerol, MD, Jaen SPAIN
M. Gomez Cabrera, MD
P. Caro, MD
D. Dunlop, MD
A. Luna, MD, PhD

MK298-ED-SUB6

Musculoskeletal Manifestations of HIV Infection: A Pictorial Review of the Puzzle
H. Tomsan, MD, Darby, PA
M. Goralczyk, MD
O. Teytelboym, MD

MK309-ED-MOB9

Interventional Musculoskeletal Ultrasound Techniques: A Review
J. Shi, MD, Boston, MA
J.C. Mandell, MD
C.J. Burke, MBChB, FRCR
R.S. Adler, MD, PhD
L.S. Beltran, MD

MS105-ED-X

Multisystem and Multimodal Review of Sarcoid: The Master Mimicker
A.S. Jameson, DO, Cincinnati, OH
J. Revels, DO
D.T. Wang, MBBS
L.L. Wang, MBBS
S.S. Wang, MBBS

NM128-ED-MOA7

Finding the Target for Therapy by Imaging: A Comprehensive Review of the Theranostics (Re)Emerging in Nuclear Medicine

J.F. Marin, MD
F.d. Barbosa, MD, Sao Paulo Brazil
R.F. Nunes, MD
L.B. Costa, MD
M.A. Queiroz, MD
C.A. Buchpiguel, MD

NR175-ED-X

How to Identify Cervical Traumatic Neuromas in the Postoperative Neck Dissection: A Brief Review of the Cervical Plexus Ultrasound
V.N. Marcos, MD, Sao Paulo Brazil
F.L. Pereira, MD
M.V. Kulcsar, PhD, MD
R. Barros, MD
A.F. Hoff, PhD
M. Chammas, MD, PhD

NR220-ED-X

Brain Magnetic Resonance Elastography
S. Hoodeshenas, MD, Rochester, MN
M.C. Murphy, PhD
Z. Yin, PhD
A. Arani
J. Scott
R.L. Ehman, MD

NR327-ED-SUA10

Navigation Map for Head and Neck Cancer: Anatomical Routes of Tumor Spread at the Crossroads of the Neck
H. Kuno, MD, PhD, Kashiwa, Japan
T. Hiyama, MD
K. Sekiya, DDS, PhD
H. Tomita
S. Oda, MD
T. Kobayashi, MD

NR330-ED-SUA9

Cerebral Perfusion Imaging A to Z: Theory, Implementation, and Clinical Cases
A.B. Desai, MD, New York, NY

OB173-ED-SUB1

Opening Up the Ovary: A Multimodality Approach to Imaging Ovarian Neoplasms with Pathology Correlation
E. Taylor, MD, New Haven, CT
L. Irshaid, MD
M. Mathur, MD

PD170-ED-SUB6

Pediatric Systemic Vasculitis: Tips for Diagnosis
E. Inarejos Clemente, MD, Barcelona Spain
L. Riaza, MD
M. Navallas, MD
M. Rebollo, MD
E. Iglesias
E. Vazquez, MD

PH128-ED-SUB7

Contrast-Enhanced Spectral Mammography (CESM): How Does It Work?
W.F. Sensakovic, PhD, Scottsdale, AZ
Y. Zhou, PhD
S.J. Fahrenholtz, PhD
M. Carnahan, MD
B.K. Patel, MD
A. Panda, PhD

UR154-ED-X

There is No 3 Physiological Narrowings in the Upper Urinary Tract: A Cutting-Edge Concept of the Retroperitoneal Anatomy Around the Ureter
S. Horiuchi, MD, Tokyo Japan
M. Kamo, MD, PhD
T. Nozaki, MD
N. Muraishi, MD
M. Matsusako, MD, PhD
T. Hara, PhD

UR183-ED-MOB8

Imaging Findings in Genitourinary Tuberculosis
M. Naeem, MBBS, Saint Louis, MO
M. Zulfiqar, MD
A. Haq, MBBS
M. Siddiqui, MBBS, MD
A.S. Shetty, MD
O. Osorio, MD

Cum Laude

A1004-EC-X

A Radiologist's Guide to Deep Learning and Artificial Intelligence: What You Need to Know for the Road Ahead
S. Raminpour, BS
L. Kauffman, BA
H. Ahn
E.K. Fishman, MD, Owings Mills, MD

BR134-ED-X

Digital Breast Tomosynthesis: An Update on the State of the Technology, Evidence, and Clinical Practice
Y. Gao, MD, New York, NY
S.L. Heller, MD, PhD

BR151-ED-X

Get it Off Your Breast: Differential Diagnosis of Superficial Breast Lesions
V.R. Sacramento, MD
T.C. Tucunduva, MD, Sao Paulo Brazil
G.G. Mello, PhD
H.F. Castro, MD
C. Shimizu, MD
L.F. Chala, MD

BR178-ED-X

I've Got this Feeling: A Radiology-Pathology Review of Benign and Malignant Palpable Masses Following Mastectomy
M. Nellamattathil, DO, Washington, DC
A. Alzeer
E.P. Crane, MD
J.Y. Jeon, MD
J.H. Song, MD
E. Makarios, MD

BR189-ED-SUA6

Risk-y Business: ATMs to CHEKs: Understanding Risk of Breast Cancer in Patients with Genetic Mutations
Z. Wadood, MD, Providence, RI
L. Massingham, MD
Z. Liu, MD
B.M. Carpentier, MD

BR194-ED-SUB7

Radiological Findings After Breast Lipofilling: What Radiologists Need to Know
K. Pesce
M.P. Swieczicki, MD, Buenos Aires Argentina
M. Chico
M.B. Orruma, MD
R.A. Gerosa
H. Mayer

CA139-ED-X

Advances in Non-Invasive Imaging of Patients with Single Ventricles following Fontan Palliation
S. Balasubramanian, MD, MSc, Ann Arbor, MI
A. Joshi, MD
D.M. Biko, MD
J.C. Lu, MD
M. Ghadimi Mahani, MD
A.L. Dorfman, MD

CA144-ED-X

Complications of Coronary Interventions and Surgeries: Imaging and Management
H. Goerne, MD, Zapopan Mexico
M.A. Cabrera Sanchez, MD
S.S. Saboo, MD, FRCR
P. Rajiah, MD, FRCR

CA157-ED-SUB6

Utility of Computed Tomography in the Evaluation of Transcatheter Mitral Valve Replacement
P. Ranganath, MD
S. Hale, MD
E.E. Williamson, MD
P. Rajiah, MD, FRCR, Dallas, TX

CH127-ED-X

Lost but Not Forgotten! Misplaced and Retained Surgical and Procedural Devices: A Case-based Approach
G. Yun, MD, Ann Arbor, MI
E.A. Kazerooni, MD
E. Lee, MD
P.N. Shah, MD
M. Deeb, MD
P.P. Agarwal, MD

CH142-ED-X

Koch's - the Great Mimicker: Atypical Tomographic Features of Thoracic Manifestations of Tuberculosis!
D.V. Patel, MBBS, MD, Ahmedabad India
A. Shah, MD
P. Patel I, MD
D.A. Patel, MD
S.R. Khandelwal, MBBS, DMRD
M. Doctor

CH153-ED-X

"Etiology for Chest Pain is Not Identified on This Study" - PE MIMIC: A Structured Approach to Where to Look Next on the Acute Chest Pain CT
B. Hutchinson, MBBS, MRCS, New York, NY
S.J. Kim, MD
L. Azour, MD
L.A. Latson JR, MS, MD
J.P. Ko, MD
W.H. Moore, MD

CH181-ED-X

Pulmonary Arteriovenous Malformations in the Setting of Osler-Weber-Rendu: What the Diagnostic Radiologist Needs to Know
K.E. Lantz, MD, Lebanon, NH
A.O. Ferreira, DO
R. Hardman, MD
R. O'Hara
J.M. Czum, MD

CH227-ED-TUA6

Cardiopulmonary Physiology in the ICU: Understanding Commonly Monitored Parameters with Illustrative Cases and Radiographic Findings
J. Chan, MD, Salt Lake City, UT
H. Mann, MD

ER160-ED-SUB5

CT in Diagnosis of Post-Colonoscopy Complications: What the Radiologist Must Know
A.R. Keralaia, MD, Boston, MA
J.W. Uyeda, MD

ER168-ED-TUB5

The Temporal Rift: Making the Key Features of Temporal Bone Fractures Accessible to the Non-Neuroradiologist
S.C. Spence, MD, Houston, TX

GI175-ED-X

Rare Peritoneal Tumors, Tumor-Like Conditions, and Mimics: Clinical and Imaging Clues to Diagnosis
M. Elmohr, MD
K.M. Elsaves, MD
K.J. Blair, MD, Houston, TX
C.O. Menias, MD
S. Javadi, MD
A.M. Shaaban, MBBSCh

GI203-ED-X

The Cecum Revisited: A Multimodality Imaging Case-based Review of Common and Uncommon Cecal Diseases
U.S. Torres, MD, PhD, Sao Paulo Brazil
M.S. Fong
L.L. Silva
A.C. Ottaitano, MD
D.A. Tjferes, MD
L.P. Chamie, MD, PhD

GI249-ED-X

Beyond Rectal Cancer: Spectrum of Imaging Features for Perirectal Tumors and Tumor-Like Masses with Pathologic Correlation
A.H. Gaballah, MD, FRCR
A.H. Abdelrahman, MD, Columbia, MO
A.S. Hamid, MD
A.S. Abdelaziz, MD
N. Thimmappa, MD
A.M. Shaaban, MBBSCh

GI275-ED-SUA11

MR Imaging of Anal Canal: A Primer for Radiologists
A. Basso Dias, MD, Sao Paulo Brazil
I.D. Alves, MD
C.S. Rizkallah Nahas
S.P. Sheedy, MD
S. Nahas, MD, PhD
M.J. Gollub, MD

GI276-ED-SUA12

Intestinal Failure and Small Bowel Transplantation: Spectrum of Imaging Features and Complications
A.H. Gaballah, MD, FRCR, Columbia, MO
A. Shabana
M. Al-Turayq
M.A. Neimatallah, MD
K.A. Kabeel, MD
A.H. Abdelrahman, MD

GI291-ED-MOB12

You Are at the Crossroads: Where Will You Go Next? - A Comprehensive Review of Currently Available Guidelines for Diagnosis and Management of Pancreatic Cystic Lesions
Y. Aswani, MBBS, San Antonio, TX
J. Kirsten, BS
A.K. Dasyam, MD
H. Sayana
S. Arora
D. Fritze

GI312-ED-WEA16

Extranodal Extension Grading Atlas to Decide the Multimodal Treatment Strategy for Esophageal Squamous Cell Carcinoma
N. Okada, MD, Sapporo Japan
M. Miyake, MD

GI321-ED-THA10

Associating Liver Partition and Portal Vein Ligation for Staged Hepatectomy in Hepatocellular Carcinoma Treatment: What Radiologists Need to Know
M. Huang, MD, Guangzhou China
S. Feng
C. Li, MD
Z. Li

HP112-ED-X

How to Read, Review, and Write the Imaging Literature
A. Sasson, New York, NY
O. Okojie
R. Verano
M. Moshiri, MD
M.N. Patlas, MD, FRCPC
J.C. Hoffmann, MD

IN122-ED-X

Several Shades of Gray: A Practical Approach to Workstation Monitor Selection
A. Efendizade, DO, Brooklyn, NY
D.I. Cohen-Addad, MD
K.M. Hewitt, MD
H.S. Brent, MD
A. Grigorian, MD
V. Velayudhan, DO

IN140-ED-SUB6

Artificial Intelligence-Driven Imaging for Ultra-Fast MRI: Cutting-Edge Technology and Clinical Application
K. Umehara, PhD, Chiba Japan
T. Nishii, MD, PhD
J. Ota, PhD
N. Ishimaru
W. Ueki, RT
H. Ohba, PhD, MBA

MK004-EB-X

The Subscapularis: All About the Footprint Anatomy Beyond Tendinous Attachment and Variable Mechanisms of Injury with MRI Correlation
H. Lee, Daegu Korea, Republic of
J. Seo
J. Lim
J.J. Lee, MD, PhD
J. Bae
S. Lee

MK113-ED-X

The Art of Radiology: Can You Diagnose Aunt Minnie in Skeletal Dysplasias?
A. Handa, MD, Iowa City, IA
G. Nishimura

MK188-ED-X

Glenoid Bony Morphology Prior to Shoulder Arthroplasty: What the Surgeon Wants to Know and Why
K.C. Wang, MD, PhD, Elliptical City, MD
M.N. Gilotra, MD
S.A. Hasan, MD
N. Leong
B. Shiu
S. Stuelke, MD, MFA

MK244-ED-X

Get the 411 on NF1: Musculoskeletal Findings in Patients with Neurofibromatosis Type I
M.P. Mam, MD, Augusta, GA
D.L. Smallwood, DO
A. Wang, MD
R.M. Decoons, MD
L. Stumpo, MD

MK274-ED-X

Tibial Plateau Fractures Beyond Schatzker: What the Surgeon Wants to Know
W.N. Bryson, MD
E.J. Fischer, MD
C.M. Koch, MD
T.J. Hillen, MD
J.C. Baker, MD
J.W. Jennings, MD

MK296-ED-X

Fast Musculoskeletal MRI: What the Radiologist Needs to Know
R.D. Boutin, MD, Davis, CA
K.J. Stevens, MD
A.J. Chaudhari, PhD
F. Kogan, PhD
B. Foster
V. Mazzoli, MSc

MK314-ED-SUB11

Nothing Wrecks Us Like the Plexus! Lumbosacral Plexus: Anatomic Review with Challenging Cases
J.V. Cortez, MD, Houston, TX
B. Amini, MD, PhD
A. Chhabra, MD

MK325-ED-TUB12

MR Imaging of Peripheral Neuropathy: From Infectious to Compressive Causes
M. Purger
M. Bayouth Padial, MD
A.C. Valim, MD, Sao Paulo Brazil
A.Y. Aihara, MD
F.N. Cardoso, MD

MK345-ED-THB11

Spaces and Interfaces: An Approach to Tendon Pathology in MR Imaging of the Hand and Wrist
T.E. Pendergrast, MD, Winston-Salem, NC
J. Ling, BS, MD
J. Powell, MD
S.D. Wuertzer, MD, MS

MS134-ED-X

Imaging Features of Atypical Infections in the Setting of Immunomodulation Therapy
M. Zulfiqar, MD, Saint Louis, MO
C.O. Menias, MD
D.R. Ludwig, MD
A.S. Shetty, MD
K. Visuth, MD
H.L. Orlowski, MD

RSNA 2019 Award Winners

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MS150-ED-X

Not Just Fat! Imaging in Abdominal Fat Pathology

A.R. Patil, MD, FRCR, Bangalore India
S. Nandikoor, MBBS

MS183-ED-X

Parangliomas Throughout the Body: Hereditary Syndromes and Imaging Features Including 3D Cinematic Rendering

K. Jhala, MD, MBA, Boston, MA
C.O. Menias, MD
M.M. Hammer, MD

MS194-ED-X

Artificial Intelligence Primer for Beginners: Definitions, Applications, and Simple Explanations in Radiology

A. Moawad, MBBS
D. Fuentes
M. Elbanan, MD
K.J. Blair, MD
L. Shere
K.A. Rao, Houston, TX

MS205-ED-X

Imaging of Transition: A Comprehensive Pictorial Review of Gender Affirmation Surgeries

K.K. Jensen, MD, Portland, OR
P. Jha, MBBS
D. Sun, MD
R. Sohaey, MD
K.Y. Oh, MD
N. Jafarian, MD

MS212-ED-X

Head-to-Toe Imaging Review of Cosmetic Procedures: Differentiating Expected Appearance from Complications and Emergencies

G. Joshi, MD, Columbia, MO
T.V. Sankhla, MD
F.A. Cavallieri, MD
K.D. Herr, MD
T.N. Hanna, MD

NM101-ED-X

Radionuclide Imaging of Cardiac Amyloidosis and Sarcoidosis: Demonstration of SPECT and PET Images Using Various Radiotracers

M. Hotta, Shinjuku Japan
R. Minamimoto, MD, PhD

NM123-ED-SUA7

Reassessing the Patterns of Response to Immunotherapy with PET Imaging: From Morphology to Metabolism

L.B. Costa, MD, Sao Paulo Brazil
M.A. Queiroz, MD
R.F. Nunes, MD
E.C. Zaniboni, MD
J.F. Marin, MD
F.d. Barbosa, MD

NR114-ED-X

Cranio cervical Junction Trauma: Significant Ligamentous Injuries and Detailed Anatomical Review

B.R. Larsen, MD, Phoenix, AZ
D.G. Gridley, MD

NR116-ED-X

Clinical 7-Tesla MRI for Neuroradiology: Strengths, Weaknesses, and Ongoing Challenges

B.J. Burkett, MD, Rochester, MN
A. Fagan
J.P. Felmler, PhD
D.F. Black, MD
J.D. Port, MD, PhD
C.H. Rydberg, MD

NR126-ED-X

Let's Go into Orbit! An MRI Approach of Main Intraocular Lesions

J.A. Marques Silva, MD, Rio de Janeiro Brazil
R. Costa, MD
H.S. de Souza, MD
M.D. Pinheiro II, MD
F. Miraldi, MD
C.C. Mattosinho

NR169-ED-X

Multiphase CTA - More than Just CTA: A Multiuse Tool in Acute Stroke Imaging and Decision Making

M. Joshi, MD, PhD, Calgary Canada
A. Brissom, MD
J.M. Ospel, MD
M. Goyal, MD, FRCPC
N. Razaghi Kashani, MD
M. Eesa, MBBS

NR183-ED-X

Usual and Unusual MR Imaging Findings of Wernicke's Encephalopathy

Y. Ota, MD, Kyoto Japan
A. Handa, MD
T. Moritani, MD, PhD
A. Srinivasan, MD
J. Kim, MD
K. Yamada, MD

NR194-ED-X

Salivary Gland Cancers: Radiological Features with Histological Correlation

Y. Kubo, MD, Tokyo Japan
M. Kusumoto, MD
T. Mori
G. Omura
S. Yoshimoto
Y. Honma

NR217-ED-X

The Eyes Have It: Congenital and Developmental/Acquired Anomalies of the Globe

S.P. Montoya, MD, Rochester, NY
E.P. Lin, MD
A. Chaturvedi, MD
S.K. Ellika, MD

NR229-ED-X

Meet the Outliers: Uncommon Lesions in Sella

B.B. Das, MD, MBBS, Bangalore India
P. Reddy, MBBS, MD
S.T. Prabhakar, MBBS, MD
P.K. K N, MD
J.V. Dodia, MBBS, MD
B. Nagabhushana Reddy, MBBS, MD

NR303-ED-X

In Matter of Fat, What Lesion is That? Reviewing Patterns and Differential Diagnosis of Lipomatous Lesions of the Head and Neck

A.A. Fonseca, MD
M.B. Cintra
L.G. Duarte, MD
S.A. Souza, MD, MS
M. Sarpi, MD
M.T. Garcia, MD, Sao Paulo Brazil

NR347-ED-TUB10

Interpretation of CT Perfusion in Acute Ischemic Stroke: A Practical Guide

C.Y. Chung, MD, PhD, Atlanta, GA
R. Hu, MD
R.B. Peterson, MD
J.W. Allen, MD, PhD

OB140-ED-X

Your Questions Answered: A Summary of the 2018 FIGO Staging Classification for Cervical Cancer

M. Salib, MBBS, London United Kingdom
V. Stewart
S.A. Sudderuddin, MRCP, FRCR
A.G. Rockall, FRCR, MRCP
N. Bharwani, FRCR, MBBS

OB171-ED-SUA1

Size Matters: What Radiologists Need to Know About Fetal Growth

A.M. Kennedy, MD, Salt Lake City, UT
S. Son, MD
M. Debink, MD
P.J. Woodward, MD

OB181-ED-TUB1

Nodules and Thickening of Uterosacral Ligament: An Underdiagnosed Feature of Deep Endometriosis (DE) on Endovaginal Sonography

S.W. Young, MD
N. Dahiya, MD, Phoenix, AZ

PD122-ED-X

Abdominal Imaging in Children with Fontan Circulation

G.B. Chavhan, MD, Toronto Canada
S. Yoo, MD
C.Z. Lam, MD
G. Khanna, MD, MS

PD131-ED-X

Ewing Sarcoma and Osteosarcoma in Children: Advanced Multiparametric MRI

E. Inarejos Clemente, MD, Barcelona Spain
M. Navallas, MD
O.M. Navarro, MD
M. Sunol Capella
F. Torner, MD
V.M. Ho-Fung, MD

PD169-ED-SUA8

Diffusion Weighted Imaging of Pediatric Spine: Technique and Clinical Applications

T. Chandra, MD, Orlando, FL
K. Gupta, MD
P. Watal, MD, MBBS
L.L. Hayes, MD

PH120-ED-X

An MDCT Tutorial: Scan Coverage, Speed, Dose Output and Field of View

T.P. Szczekutowicz, PhD, Madison, WI
M. Lipford, PHD

PH132-ED-MOB8

Pocket Guide for Understand (and Successfully Apply) US and MRI Elastography Techniques

T.M. Noguerol, MD, Jaen SPAIN
M. Volpacchio, MD
M. Potolicchio, MD
A.C. Silva, MD
A. Luna, MD, PhD

UR112-ED-X

TEST the TESTIS: An Ultrasound Diagnostic Algorithm from SSS-Simple to Complex Pathology

R. Pintican, MD, Cluj-Napoca Romania
V. Bura, MD
C.A. Asavoai, MD
S.M. Dudea, MD, PhD

UR116-ED-X

Imaging of Urachal Anomalies Revisited: Cross-Sectional Imaging Spectrum

S. Buddha, MD, DMRD, San Antonio, TX
H. Aribandi
A. Prasad
H.D. Marji
C.O. Menias, MD
V.S. Katabathina, MD

UR178-ED-SUB8

Immunoglobulin G4-Related Disease of the Genitourinary Tract: The Great Imitator

J. Oh, Seoul Korea, Republic of
S. Rha, MD
S. Youn
D. Kim, MD
Y. Shin
S. Oh, MD

UR182-ED-MOB7

Penile Lumps: From Common to Rare and Unusual Diseases

S. van Nieuwenhove, MD, Brussels Belgium
J. Van Damme
A. Feyaerts
C. Sachs
E. Danse, MD, PhD
F.E. Lecouvret, MD

VI104-ED-X

Subtraction CT Angiography of Peripheral Artery with Orbital Synchronized Helical Scanning Using Characteristic of Organ-Based Tube Current Modulation

S. Inada
M. Takahashi, RT
T. Kagimoto
T. Murakami
E. Tamai, Hiroshima Japan
N. Yamagami

VI137-ED-TUB8

Pelvic Congestion Syndrome: Normal Anatomy and Multimodality Imaging Evaluation of an Underdiagnosed Disease

R.A. Pampati, MD, Ann Arbor, MI
M.S. Khaja, MD, MBA
D.M. Williams, MD

Certificate of Merit

AI020-EB-X

Generative Adversarial Networks Showcase: Their Mechanisms and Radiological Applications

M. Oda, PhD, Nagoya Japan
H. Oda, MENG
K.K. Kumamaru, MD, PhD
S. Aoki, MD, PhD
H. Natori, MD, PhD
K. Mori, PhD

AI111-ED-X

Convolutional Neural Networks: Fundamental Theory and Guided Implementation for the Radiologist Using Google Collaboratory

A. Chan, DO, Newark, DE
S.C. Behr, MD
J. Mongan, MD, PhD

AI118-ED-X

Development of Accuracy Guarantee System using Deep Learning in Radiography

A. Sakaguchi
H. Watanabe, PhD, Maebashi Japan
H. Mitsutake
K. Uchiyama
Y. Lee, PhD
N. Hayashi, PhD

AI129-ED-X

The Subtle Art of Accurate Natural Language Processing for Radiology Report Mining

K. Kaluva, BEng, MENG, Bangalore India
S. Vaidya, BEng, MENG
K. Vaidhya
A. Chunduru, MENG

AI139-ED-SUA4

A Practical Guide to Natural Language Processing for Radiology

S. Chheang, MD
J. Cornman-Homonoff, MD
J. Arango
I. Tocino, MD
M.N. Maneveese, MD, Houston, TX

AI141-ED-TUA1

Practical Guide to Natural Language Processing Research in Radiology

Y. Kang, BS, Berkeley, CA
T.H. Vu, MD, PhD
Y. Seo, PhD
J. Sohn, MD

AI145-ED-TUA2

Generative Adversarial Networks (GANs): A Primer for Radiologists

J.M. Wolterink, PhD, Utrecht Netherlands
A. Mukhopadhyay
T. Leiner, MD, PhD
T.J. Vogl, MD, PhD
A. Bucher, MD
I. Isgum, PhD

AI148-ED-TUA3

Computer-Aided Assessment of Catheters and Tubes on Radiographs: How Good is Artificial Intelligence for Assessment?

X. Yi, PhD
S.J. Adams, MD, Saskatoon Canada
R. Henderson, PhD, MBA
P.S. Babyn, MD

BR104-ED-X

Large Masses in Young Women: A Pictorial Review

R.M. Lorente-Ramos, MD, PhD, Madrid Spain
J. Azpeitia Arman, MD
T. Villarejo
C. Oliva Fonte
J. Lopez-Arcas Calleja
D.E. Salazar Chiriboga, MD

BR115-ED-X

Dynamic Duo: Imaging the Pregnant and Lactating Patient

A.J. Kieturakis, DO, Cincinnati, OH
R.A. Wahab, DO
C. Vijapura, MD
M. Mahoney, MD

BR117-ED-X

Catch Me Before I Go Invasive! The Role of Ultrasound in Depicting Calcified and Non-Calcified DCIS

A.R. Chiorean, MD, PhD
R. Pintican, MD, Cluj-Napoca Romania
D. Eniu
B. Fetica
L. Rogojan
M.B. Szep, MD

BR118-ED-X

Invasive Lobular Carcinoma, the Great Imitator of the Breast: A Practical Multimodality Diagnostic Guide for Residents

A.R. Chiorean, MD, PhD
R. Pintican, MD, Cluj-Napoca Romania
M. Chiorean
D. Eniu
B. Fetica
L. Rogojan

BR120-ED-X

Looking Beyond Your Limitations: Diagnosing Malignancy in the Augmented Breast

K. Sudanagunta, MD, Lexington, KY
W.A. Owen, MD
P.J. Spicer, MD
X.J. Wang, MD
M.M. Szabunio, MD
R.D. Gibbs, MD

BR132-ED-X

Contrast Enhanced Mammography versus Dynamic Contrast-Enhanced MRI: Which is Right for Who?

R.M. Kamal, MD, Cairo Egypt

M.M. Hanafy IV, MA

A. Alsharawy IV
H.M. Azzam
L. Bassam
M.E. Marey, BA

BR144-ED-X

A Primer on Machine Learning and Artificial Intelligence Applications in Breast Imaging

A. Gastouniotti, Philadelphia, PA
E.F. Conant, MD
D. Kontos, PhD
O. Haji Maghsoudi

BR146-ED-X

Not Another CESM Poster: Implementation in a Rapid Diagnostic Circuit and Radiopathological Correlation

R. Alcantara, MD, Barcelona SPAIN
E.N. Arenas Rivera, MD
M. Pitarch Diago
I. Vicente Zapata, MD
I.V. de las Heras
L.C. Blesa

BR163-ED-X

Breast Injectables: The Aunt Minnies and the Head-Scratchers

Y. Gao, Feeding Hills, MA
E.J. Karimova, MD
J. Phillips, MD
V.J. Fein-Zachary, MD
T.S. Mehta, MD, MPH
R. Mehta

BR180-ED-X

Breast MRI: Identification of Malignancy in the Lactating Patient

S.R. O'Brien, MD, Philadelphia, PA
S.P. Zuckerman, MD
K. Korhonen, MD
S. Domchek, MD
E.F. Conant, MD

BR182-ED-X

The Word Soup of Artificial Intelligence (AI): Basics of AI for the Breast Imager

S. Choudhery, MD, Boston, MA

BR185-ED-X

Breast Imaging in Women with Neurofibromatosis 1 (NF1): What is the Role for Enhanced Screening?

S.N. Histed, MD, NY, NY
Y. Gao, MD
L. Moy, MD
S.L. Heller, MD, PhD

BR190-ED-SUA7

The Picture is Clear: Acoustic Parameters in Breast Ultrasound (A Primer for Residents and Fellows)

M. Bigelow, MD, Vestal, NY
E. Gupta, MD

BR191-ED-SUA8

BI-RADS 5 – NOT!

K.A. Dao, MD, Boston, MA
R. Sarangi, MD
A. Rives, MD, PhD
M.D. Fishman, MD
P.J. Slanetz, MD, MPH

BR193-ED-SUB6

Beyond BI RADS: Non-Mass Lesions (NMLs) on Breast Ultrasonography –Concept and Clinical Relevance

H.F. Castro, MD
G.G. Mello, PhD, Sao Paulo Brazil
T.C. Tucunduva, MD
V.R. Sacramento, MD
C. Shimizu, MD
L.F. Chala, MD

BR196-ED-SUB9

Everything but BRCA: Imaging Hereditary Breast Cancer Genes

C. Vijapura, MD, Cincinnati, OH
R.A. Wahab, DO
M. Mahoney, MD

BR199-ED-MOA9

Malignant Papillary Tumors of the Breast: Radiologist's Role for a Complete Diagnostic Assessment

D. Lara Nunez, MD, Mexico City Mexico
S. Vazquez Manjarrez, MD
F. Candanedo Gonzalez
R.E. Fuentes Corona, MD
M. Licano, MD
N. Gutierrez Castaneda, MD

BR202-ED-MOB9

RECIST Applied to Breast MRI: The Real Life

A.C. De Ataide Goes, MD, Sao Paulo Brazil
P.C. Figueiredo SR, MD
Y.S. Ogata, MD
P. Hasimoto E Souza, MD
S.J. Hsieh, MD
H.D. Skaf, MD

BR208-ED-TUB10

Mixed and Purely Hyperechoic Breast Lesions: A Radiologic-Pathologic Review

A.L. Chesebro, MD, Boston, MA
M.G. Kuba
S. Lester, MD, PhD
C.S. Giess, MD

BR215-ED-THA6

Abbreviated and Ultrafast Breast Magnetic Resonance Imaging (MRI) in Clinical Practice: What the Radiologist Needs to Know

Y. Gao, MD, New York, NY
S.L. Heller, MD, PhD

BR220-ED-THB8

Make RHEUM for Breast Disease

C. Vijapura, MD, Cincinnati, OH
R.A. Shrit, MD
R.A. Wahab, DO
M. Mahoney, MD

CA101-ED-X

Optimizing CT Protocols for Adult Congenital Heart Disease: A Primer for Radiologists

P. Rajiah, MD, FRCR, Dallas, TX
D. de la Fuente Armendariz, MD
P.P. Agarwal, MD
S. Abbara, MD
S.P. Singh, MD
H. Goerne, MD

CA103-ED-X

Transposition of Great Arteries from A to Z: Hemodynamics, Imaging, and Management

A. Canan
R. Ashwath, MD
P.M. Masand, MD
P.P. Agarwal, MD
P. Rajiah, MD, FRCR, Dallas, TX

CA110-ED-X

The No Longer Ignored: Tricuspid Valve Imaging and Right Ventricular Function Analysis

Y. Ahn, MD, Seoul Korea, Republic of
H. Koo, MD
J. Kang, MD
D. Yang, MD

CA117-ED-X

Imaging Challenges in Cardio-Oncology: Pushing the Limits Beyond Rare Tumors

J.B. Araujo Filho, MD, PhD, Sao Paulo, NY
R.V. Torres, MD
M.D. Melo
A.N. Assuncao JR, MD
G. Liberato
C.S. Reiser, MD

CA125-ED-X

A Beginner's Guide to Understanding Echocardiography with CT/MRI Correlation, Case-based Examples, and Emphasis on Blind Spots

M. Grant, MD, Tacoma, WA
R. Mann, MD
E. Roberge, MD

CA

RSNA 2019 Award Winners

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CA161-ED-MOB8

The Puzzle of Describing Congenital Heart Disease: Recognizing the Individual Pieces and Connecting Them Together using Anderson's Sequential Segmental Analysis

*C.S. Reiser, MD, Porto Alegre Brazil
J.B. Araujo Filho, MD, PhD
J.R. Parga, MD
C.J. Feldman, MD
E.S. Horowitz
S. Casonato*

CA166-ED-X

Troponin-Positive Nonobstructive Coronary Arteries (TpNOCA) and Myocardial Infarction with Nonobstructive Coronary Arteries (MINOCA): Definition, Etiologies, and CT and MR Findings

*S. Jang, Seongnam-si Korea, Republic of
J. Kim, MD
S. Yoo
E. Chun, MD, PhD*

CA168-ED-TUB8

Multimodality Imaging of Right Atrium: Potential Entities and Radiological Findings

*M. Leturia Exeberria, MD, San Sebastian Spain
M. Gredilla Saenz
A. Serdio
A. Aguado Puente
F. Barba Tamargo, MD
J. Elejondo Oddo, MD*

CH006-EB-TUB

Primary Thoracic Lymphomas: Spectrum of Imaging and Histopathologic Manifestations

*S. Garrana, MD, Kansas City, MO
T.H. Kauffman, Do
J.R. Buckley, MD
M.L. Rosado de Christenson, MD
S. Martinez-Jimenez, MD
P. Munoz, MD*

CH100-ED-X

Incidental Bony and Articular Lesions on a Chest CT: An Algorithmic Approach for the Chest Radiologist

*B. Mansoori, MD
M. Chalian, MD
P. Khoshpouri, MD
H. Chalian, MD
P. Rajiah, MD, FRCR, Dallas, TX*

CH103-ED-X

The End of the Chest X-Ray Era? Lung Ultrasound for the Diagnostic Radiologist

*T. Marini, MD, East Syracuse, NY
W. Novak
T. O'Connor
K.A. Kaproth-Joslin, MD, PhD*

CH114-ED-X

Iatrogenic and Treatment Related Esophageal Injuries

*R. Colvin, DO, Berkeley, MI
M. Dabajeh, MD
Z. Aqel
E. Sutherland, MD
S.A. Al-Katib, MD*

CH118-ED-X

Inflammatory Lesions Mimicking Chest Malignancy: CT, Bronchoscopy, and PET Evaluation from an Oncology Referral Centre

*A. Chatterjee, MBBS, MD, Kolkata India
T. Sen Dutt, MD
S. Mukhopadhyay, MD
A. Chandra
S. Sen, MBBS, MD*

CH122-ED-X

Airway Complications: The Achilles' Heel of Lung Transplantation

*M. Bin Saeedan, MD, Riyadh Saudi Arabia
A.G. Rizk, BS, MD
R. Yadav, MD
S. Ghosh, MBBS, MD*

CH140-ED-X

Mind the Gap! Accessory and Incomplete Lung Fissures: Clinical and Histopathologic Implications

*J. Stowell, MD, Boston, MA
M. Lanuti, MD
M.D. Gilman, MD
R.E. Greene, MD
C. Walker, MD*

CH143-ED-X

Thoracic Manifestations of Gastrointestinal Diseases, Interventions, and Syndromes

*S. Sridhar, MD, MS, Albuquerque, NM
M.L. Epstein, MS, MD
J. Revels, DO
K. Wang, MD, PhD
W.M. Thompson, MD
M. Shiehorteza, MD*

CH156-ED-X

ECMO: Everything We Need to Know

*R.S. Gaddikeri, MD, Chicago, IL
P.N. Shah, MD
J.A. Febbo
H. Yepuri, MBBS*

CH171-ED-X

Immunotherapy in the Treatment of Cancer: Assessment of the Response to Treatment and Immuno-Related Adverse Events

*M. Perez Costas, MD, Vigo Spain
P. Rodriguez-Fernandez, MD
M. Canibe Aliste, MD
A. Lopez-Castello, MD
A. Tilve, MD
E. Chavarri Ibanez, MD*

CH174-ED-X

The Radiologist's Ultimate Guide to Tumors, Tumor Mimics, and Non-traumatic Acquired Abnormalities of the Ribs

*G.S. Shroff, MD, Houston, TX
U.I. Salem, MBCh, MD
S.L. Betancourt Cuellar, MD
C.D. Strange, MD
J. Ahuja, MD, MBBS
W. Wang*

CH182-ED-X

Asbestos — The Latent Danger: Pictorial Review of Asbestos-Related Diseases

*L. Tamkeviciute, MD, Kaunas Lithuania
A. Tumenas, MD
J. Zaveckiene
M. Arzanauskaitė, MMedSc*

CH189-ED-X

Light as Air: Imaging Course of Lung Transplantation from Patient Selection to Postoperative Complications

*S.J. Kim, MD, New York, NY
L. Azour, MD
B. Hutchinson, MBBS, MRCS
H. Shirsat, MD
N. Narula, MD
F. Zhou, MD*

CH193-ED-X

Down the Hatch: A Systematic Approach in Cross-Sectional Evaluation of the Trachea

*S.J. Tang, MD, Madison, WI
J.P. Kanne, MD
T.A. Kennedy, MD*

CH198-ED-X

Transdiaphragmatic Pathways: Pathology into the Chest from the Abdomen

*R. Sharma, MD, Madison, WI
C.A. Meyer, MD
M.D. Martin, MD
J.E. Kusmirek, MD
J.P. Kanne, MD*

CH199-ED-X

Pulmonary Neuroendocrine Tumors: Where Are We? A Pictorial Review with Radiologic-Pathologic Correlation

*A. Basso Dias, MD, Sao Paulo Brazil
I.D. Alves, MD
M. Waitman, MD
T. Miranda Dias
L.d. Testagrossa
R.V. Torres, MD*

CH206-ED-X

“Red Flags” for Acute Thoracic Vascular Emergencies on Non-Enhanced Computed Tomography

*P.P. Santana, MD, Sao Paulo Brazil
C.T. Palhano, MD
A.K. Medeiros, MD
G.D. Fanstone
B.L. Moreira, MD
E.M. Araujo, MD*

CH209-ED-X

A Practical Approach to Pulmonary Calcifications

*M. Cumigad, North Chicago, IL
K. Subedi, MBBS
N.D. Parekh, MD
P.J. Lombardi, MD
E.M. Hart, MD
R. Agrawal, MD*

CH212-ED-SUA8

Essentials of Thoracic Neurogenic Tumors

*K. Patel, MD, Kansas City, MO
S. Garrana, MD
S. Martinez-Jimenez, MD
M.L. Rosado de Christenson, MD
S.L. Betancourt Cuellar, MD
O. Tawfik*

CH213-ED-SUA5

Finding Hemo: Imaging in Hemoptysis

*K. Marquis, MD, Saint Louis, MO
C.A. Raptis, MD
S.E. Rossi, MD
D.D. Picus, MD
S. Bhalla, MD*

CH214-ED-SUA6

The Role of Thoracic Imaging in Cystic Fibrosis: Correlation with Clinical and Physiological Findings

*K. Stefanidis, MD, PhD, London United Kingdom
H. Robbie, MD
M.D. Waller, MRCP, PhD
D.Y. Huang, FRCR
G. Yusuf, MBBS
I. Vlahos, MRCP, FRCR*

CH218-ED-SUB6

Radiomics and Radiogenomics in Thoracic Imaging: Techniques and Clinical Applications

*J.B. Araujo Filho, MD, PhD, Sao Paulo, NY
A.N. Assuncao JR, MD
N. Horvat, MD
R. Perez Johnston, MD
A.J. Plodkowski, MD
P. Gibbs, PhD*

CH232-ED-WEA9

Crossing and Filling the Pleural Space: Pitfalls in Post Thoracic Surgery CT Interpretation

*B. Gosangi, MBBS, MD, Boston, MA
F.L. Jacobson, MD, MPH*

CH240-ED-THB8

OnWARDS and UpWARDS TowARDS Understanding Acute Respiratory Distress Syndrome: A Comprehensive Imaging Review

*J. Hine, MBBS, London United Kingdom
R. Meshaka, MBBS
S. Zafar, MBChB, MRCP
A. Fagan, MBBS
S.R. Desai, MBBS*

ER001-EB-X

Foreign Body Within the Abdominal Cavity: Emphasis on Its Potential Complications

*Y. Kim, MD, PhD, Guri Korea, Republic of
O. Cho, MD, PhD
Y. Cho, MD*

ER106-ED-X

Ins and Outs of Plain Radiographs of the Abdomen: Looking for Abdominal Air Where It Should Not Be

*J. Azpeitia Arman, MD, Madrid Spain
R.M. Lorente-Ramos, MD, PhD
J. Lopez-Arcas Calleja
A. Casas Martin
A. Blazquez Saez
A. Munoz Hernandez, MD, PHD*

ER108-ED-X

About to Blow Up!: Cased-based Review of Impending Signs of Aortic Rupture, Treatment, and Endoleak Complications

*C.A. Cabrera, MD, Mexico City Mexico
S.A. Criaes Vera, MD
H. Torres Rodriguez, MD
M. Jimenez Camacho, MD
A.F. Herrera Jimenez, MD*

ER110-ED-X

The Family Jewels: Pearls for Imaging Patients with Acute Scrotal Pain

*J. Ross, MD, Ann Arbor, MI
E.B. Stein, MD
W. Masch, MD
J.D. Millet, MD*

ER118-ED-X

Don't Skip a Beat! Critical Imaging Findings in Adults with Congenital Heart Disease Presenting to the Emergency Department

*M.Z. Rajput, MD, Saint Louis, MO
D.A. Raptis, MD
S. Bhalla, MD*

ER119-ED-X

When Residents are On-Call: A Pictorial Review of Common and Unusual Findings of Intracranial Bleeding and Ischemic Infarcts in the ER

*A. Gomez, MD, Mexico City Mexico
C.A. Cabrera, MD
M. Jimenez Camacho, MD
F.E. Andrade Rodriguez, MD
A.F. Herrera Jimenez, MD*

ER125-ED-X

The Changing World of Contraband Smuggling

*B.D. Daly, MD, Baltimore, MD
F.H. Berger, MD
S. Lin, MD
S.D. Steenburg, MD
D.S. Katz, MD*

ER126-ED-X

On-call Primer of Aortic Emergencies

*A. Ankola, MD, Jacksonville, FL
T.E. Meyer, MD
J. Kee-Sampson, MD
H.P. Letter, MD
J.L. Kissane, MD
A.M. Litwin, MD*

ER129-ED-X

Utility of Single-Phase Contrast-Enhanced CT in the Evaluation of Abdominopelvic Trauma

*M. Naeem, MBBS, Saint Louis, MO
D.H. Ballard, MD
M.J. Hoegger, MD, PhD
F.W. Petraglia III, MD
M. Zulfiqar, MD
M.N. Pallas, MD, FRCPC*

ER130-ED-X

Checklist Approach as a Guide to the Interpretation of Chest CT Examinations Showing Diffuse Abnormalities in Acute Disease

*J. Arenas-Jimenez, MBBS, Alicante Spain
E. Garcia Garrigos, MD, PhD
M. Sivera Matilla, MD
I. Garcia Pastor, BDS*

ER131-ED-X

Headache: What to Look for on Emergency Neuroimaging in the Headache Patient

*M.H. Scheinfeld, MD, PhD, Suffern, NY
W. Feltus, MD
C. Schwartz, MD
M. Spektor, MD
A. Cunqueiro, MD*

ER152-ED-X

Exsanguinating Entrails: What the Radiologist Needs to Know About Acute Gastrointestinal Bleeding

*A. Aglan, MD, Ann Arbor, MI
J. Mahn, MD
W. Sherk, MD
M.R. Cline, MD
J.D. Millet, MD*

ER157-ED-SUA7

Pancreatic Injury: Comprehensive Imaging Review and Management Update

*T.N. Hanna, MD, Atlanta, GA
J. Lim, MD
G. Joshi, MD
C.N. Hoff, MD
S. Kosaraju, MD
J.A. Graves, MD*

ER159-ED-SUB6

Key Findings that Influence the Management of Head and Neck Infectious Emergencies: What the Radiologist Must Tell the ER

*J. Patel, MD, Jacksonville, FL
A. Patel, MD
S. Sharma, MD
P.J. Fiester, MD
P. Natter, MD
D.E. Haymes, MD*

ER169-ED-WEA6

Splenic Trauma: New 2018 AAST Injury Grading Scale for an Evolving Landscape towards Non-Operative Management

*C.Y. Chung, MD, PhD
G. Joshi, MD, Columbia, MO
S.A. Abidi, BS
K.D. Herr, MD
T.N. Hanna, MD*

GI100-ED-X

Imaging of Hepatocellular Carcinoma Treated by Proton Beam Therapy: What Radiologists Should Know

*H. Takahashi, MD, Tokyo Japan
T. Hiyama, MD
Y. Sekino
T. Okumura, MD
H. Kuno, MD, PhD
K. Nasu, MD, PhD*

GI109-ED-X

Spectrum of CT Findings in Amebic Colitis

*E. Tanaka, MD, Yokohama Japan
N. Takeyama, MD
Y. Tashiro
A. Kotake, MD
K. Nagai, MD
Y. Hori*

GI122-ED-X

Colonic Interposition after Esophagectomy in Barium Studies: A Series of Awe-inspiring Esophagograms

*M. Munoz-Lopez, MD, Mexico City Mexico
R. Martinez Martinez, MD
G. Munoz, MD
Y. Kimura Sandoval, MBBS
H. Choi, BMedSc*

GI123-ED-X

Crohn's Disease: Pictorial Review of the CT and MR Findings, Standardized Terminology, and Management Guidelines from the 2018 Consensus Recommendations

*A.M. Romesberg, DO, Lexington, KY
J.W. Owen, MD
A.R. Ayoub, MD
R.T. Nair, MD
H.S. Ganesh, MD
A.A. Dawkins, MD*

GI132-ED-X

Pancreatic Cancer Imaging: A New Look at an Old Problem

*L.C. Chu, MD, Lutherville, MD
S. Park
S. Kawamoto, MD
A. Blanco
S. Shayesteh, MD
S. Ghandili, MD*

GI133-ED-X

Hepatic Hydatid Disease: What's in a Name? A Review of the Radiological Differences Between Alveolar (Echinococcus Multilocularis) and Cystic (Echinococcus Granulosus) Hydatid Disease for the Radiologist in Non-Endemic Areas

*A. Bhagwanani, MA, MBBS, London United Kingdom
M. Chouhan, FRCR, PhD
P. Chiodini
Z. Amin, FRCR*

GI142-ED-X

Imaging of the Hepatic Arterial Chemotherapy Infusion Pump and Its Complications: What the Radiologist Needs to Know

*B.S. Strnad, MD, Saint Louis, MO
B.M. Gilcrease-Garcia, MD
D.R. Ludwig, MD
V.M. Mellnick, MD*

GI147-ED-X

Multifaceted Pancreatic Serous Cystadenoma and Its Differential Diagnosis at MRI

*P.K. Mittal, MD, Augusta, GA
N. Kinger, MD
C.L. Vendrami, MD
B. Hausauer, MD
T.L. Estes JR, MD
C.C. Moreno, MD*

GI155-ED-X

How to Interpret Magnetic Resonance Imaging for Acute Gastrointestinal Lesions: Correlation with Pathophysiology

*A. Inoue, MD, PhD, Higashiomu Japan
S. Ota, MD, PhD
K. Takaki, MD
N. Nitta, MD
Y. Imai, MBBS
T. Oki, MD*

GI156-ED-X

Imaging Spectrum of Ischemic Colitis: A Case-based Review

*S. Shin, MD, Gwangju Korea, Republic of
C. Moon
S. Heo, MD
Y. Jeong, MD*

GI158-ED-X

Microbiota-Induced Gastrointestinal Malignancies: A Comprehensive Review

*S. Daly, San Antonio, TX
J. Kirsten, BS
A.A. Bonde, MBBS, MD
S. Kondapaneni
V.M. Mellnick, MD
C.O. Menias, MD*

GI160-ED-X

Morphometric Changes and Imaging Findings of Diffuse Liver Disease in Relation to Intrahepatic Hemodynamics

*K. Ozaki, Fukui Japan
K. Kozaka, MD
H. Kimura, MD, PhD
T. Gabata, MD, PhD
O. Matsui, MD*

GI161-ED-X

Pearls and Pitfalls of Imaging Features of Pancreatic Cystic Lesions: A Case-Based Approach

*K. Ozaki, Fukui Japan
K. Maeda
Y. Kaizaki
H. Kimura, MD, PhD
T. Gabata, MD, PhD*

GI162-ED-X

The Closed-Loop Conundrum: Imaging Features of Closed-Loop Small Bowel Obstruction on CT

*R. Ramzi, MD, Brooklyn, NY
A. Napolitano, MD
A. Dubey, MD
E. Mingsomataj, MD*

GI172-ED-X

The Many Faces of Bowel Ischemia

*O.N. Kallas, MD, Atlanta, GA
A. Radnard, MD
M. Saneitaheri
S. Nandwana, MD
P.A. Harri, MD
A.H. Davarpanahfakhr, MD*

GI181-ED-X

Multimodality Imaging of Abdominal Neoplasms with Tumor Thrombus: What Radiologists Should Know

*K. Minamiguchi, Kashihara Japan
N. Marugami
H. Kunichika
K. Ishida
T. Tachiiri
J. Takahama, MD*

GI194-ED-X

Cleaning Up Leak Studies: Reviewing Fluoroscopy Techniques to Optimize Detection of Leaks and Tears in the Esophagus and Stomach

*S.L. Ross, MD
E.V. Craig, MD
F.H. Miller, MD
J.M. Horowitz, MD
L.C. Kelahan, MD, Chicago, IL*

GI199-ED-X

Choosing the Best Test for Biliary Imaging: Re-Examining the Role of MRCP

*A.V. Nair, MBBS, Ottawa Canada
B. MacDonald*

GI202-ED-X

The Potential Role of Cinematic Rendering of the Stomach in Lesion Detection and Classification: Early Observations in Clinical Practice

*E.K. Fishman, MD, Owings Mills, MD
S.P. Rowe, MD, PhD
L.C. Chu, MD*

GI207-ED-X

Don't Get Washed Out: Atypical Manifestations of Hepatocellular Carcinoma

*H.R. Bello Velez, MD, Atlanta, GA
Z. Mahdi, MBChB, PhD
S. Nandwana, MD
P.A. Harri, MD
A.H. Davarpanahfakhr, MD*

GI211-ED-X

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**GI220-ED-X
Complications of Inflammatory Bowel Disease: Be Aware to Look Beyond the Intestine**

G. Itxaso, MBBCh, Madrid Spain
L. del Campo, PhD
P. Rodriguez Carnero, MD
J.M. Munoz, MD
C. Idoate, MD
C. de Benavides

**GI243-ED-X
Many Faces of Lymphoma: Abdominal Manifestations of Extranodal Lymphoma**

M. Kobi, MD, Bronx, NY
Z.J. Ricci, MD
D. Kanmaniraja, MD
V. Chernyak, MD,MS

**GI246-ED-X
Challenges in Diagnosis and Management of Hemobilia**

A. Parvianin, MD, Rochester, MN
J.G. Fletcher, MD
A. Storm, MD
S.K. Venkatesh, MD, FRCR
J.L. Fidler, MD
A.R. Khandehwal, MD

**GI252-ED-X
Ultrasonographic Atlas of Splenic Lesions**

K. Kim, MD, Seoul Korea, Republic of
Y. Park, MD
J. Lee
T. Choi, MD
M. Song
C. Lee, MD

**GI254-ED-X
Computed Tomography Opportunistic Use: What are We Missing?**

L.M. Coura, MD, Sao Paulo Brazil
C.H. Nascif, MD
N.K. Fujiwara, MD
L.T. Gomes, MD
R.H. do Vale, MD
I.S. Oliveira, MD

**GI265-ED-X
Autoimmune Pancreatitis: Review of Imaging Findings and Subtypes and Differentiation from Pancreatic Neoplasms**

J. Shin, MD, Chicago, IL
N.A. Hammond, MD
C.L. Vendrami, MD
P.K. Mittal, MD
E.V. Craig, MD
L.C. Kelahan, MD

**GI290-ED-MOB15
Peritoneal Metastasis, Cytoreductive Surgery (CRS), and Hyperthermic Intraperitoneal Chemotherapy (HIPEC): What the Radiologist Should Know**

P. Zhang, MD
J.J. Perumpillichira, MD
B.L. Holbert, MD
L. Duy, MD
R.B. Dyer, MD
S.C. Carter, MD

**GI296-ED-TUA13
Morison’s Pouch: Anatomical Background, Pathologies, and Spread of Disease on Cross Sectional Imaging**

S. Nassar, MBBCh, Houston, TX
K.J. Blair, MD
C.O. Menias, MD
A.M. Shaaban, MBBCh
A. Nada, MD, PhD
M.G. Lubner, MD

**GI302-ED-TUB14
The New 2017 World Health Organization (WHO) Classification of Pancreatic Neuroendocrine Tumors: A Primer for Radiologists**

L. Khanna, MD, San Antonio, TX
M. Milam
S. Kondapaneni
A.K. Dasyam, MD
V. Tammiseti, MD
A. Nazarullah

**GI308-ED-WEA15
Pancreatic Transplantation: A Multimodality Pictorial Review**

M. Hameed, MA,BMBCh
S. Hameed, MBBS,FRCR
S.S. Moser
A. Muthusamy
C.J. Harvey, MBBS, London UNITED KINGDOM

**GI317-ED-WEB12
Pancreatic Injury: Multimodality Imaging and Updated Review of Management**

K.G. Sharbidre, MD, Birmingham, AL
A.M. Amer, MD
D.E. Morgan, MD

**GI320-ED-THA9
Cholangiocarcinoma in 2019: Current Update in Pathology, Classification, and Imaging Findings**

Y. Aswani, MBBS, San Antonio, TX
A. Hunt
A.A. Bonde, MBBS, MD
A. Nazarullah
A.S. Somwaru, MD
A.K. Dasyam, MD

**GI323-ED-THA12
Step by Step: A Guide to Barium Swallow for the Study of Anatomy and Function of the Gastroesophageal Junction**

V.J. Lara Ameca, MD, Mexico City Mexico
Y. Kimura-Fujikami, MD
M.P. Solano, MD

**GI326-ED-THB10
Dual-Energy CT of Acute Bowel Ischemia**

M.M. Obmann, MD, Basel Switzerland
G.V. Punjabi, MD
D.J. Winkel, MD
D. Boll
T. Heye, MD
B.M. Yeh, MD

**GI328-ED-THB12
Imaging of Extrahepatic Biliary Obstruction: Causes, Clinical Aspects, and Imaging Features**

A.M. Shaaban, MBBCh, Salt Lake City, UT
M. Rezvani, MD
A.H. Gaballah, MD, FRCR
K.M. Elsayes, MD
C.O. Menias, MD

**HP103-ED-X
Should We Use Oral Contrast in CT Imaging?**

M.K. Warfa, MD
A. Goyal, MBBS
H. Arif
L.M. Burke, MD
A.Z. Kielar, MD
N. Lalwani, MD, Winston Salem, NC

**HP114-ED-X
Flip It! Techniques for Interactive, Learner-Directed Educational Conferences to Increase Trainee Engagement and Diagnostic Confidence**

M.P. Hartung, MD, Madison, WI
T.A. Kennedy, MD

**HP127-ED-WEB6
2019 MRI Safety Updates for Radiologists: Are We Too Careful or Careless?**

K. Lebel, Montreal Canada
S. Tan, MD
D. Terrone, MD, MSc
M. Pham, MD
J. Robillard, MD, MSc

**IN001-EB-X
Cachexia Beyond Dexa**

E. Salinas SR, MD, Toronto Canada
Y. Zhang
F. Khalvati, PhD, MSc
D.A. Deniffel, MD
M.A. Haider, MD

**IN017-EC-SUA
National Cancer Institute Imaging Data Commons**

A. Fedorov, PhD, Cambridge, MA
W.J. Longabaugh, MS
D. Pot, PhD
S.D. Pieper, PhD
E. Ziegler, MSc, PhD
M.D. Herrmann, MD, PhD

**IN024-EC-X
Interactive Web-Based Imaging Response Assessment Training Application for Cancer Clinical Trials**

T. Urban, Boston, MA
E. Ziegler, MSc, PhD
B. Somarouthu, MD
D. Rukas
M. Leary, BS
B. Beardmore, BS

**IN125-ED-X
Real-time Skull Radiographic Simulator Based on Optical Tracking System for the Education and Training of Less-Experienced Radiology Personnel**

Y. Yoon, PhD, Fukuoka Japan
B. Cho
M. Eto
J. Morishita, PhD

**IN131-ED-X
Use of CT-RMI Fusion for Printing 3D Models to Plan Complex Traumatological Surgeries: Our Experience**

F. Paulano-Godino, PhD, Jaen Spain
J. Broncano, MD
L. Alcalá, MD
T.M. Noguero, MD
A. Luna, MD, PhD

**IN134-ED-X
How to Train Your 3D U-Net for Organ Segmentation**

K. Vaidhya
S. Vaidya, BEng, MENG, Bengaluru India
K. Kaluva, BEng, MENG
A. Chundururu, MENG

**IN143-ED-MOB5
How to Create a Great Radiology Report**

M.P. Hartung, MD, Madison, WI
I.C. Bickle, MBBCh
J.P. Kanne, MD
F. Gaillard, MBBS

**IN144-ED-TUA7
Platform for Development and Deployment of Computer-Assisted Reporting & Decision Support at the Radiologist Point-of-Care: What Radiologists Should Know**

B.C. Bizzo, MD, MSc
R.R. Almeida, MD, Boston, MA
K.P. Andriole, PhD
T.K. Alkasab, MD, PhD

**IN149-ED-THA4
How to Build a Reliable and Reproducible Radiomics Application**

W. Cai, PhD, Boston, MA
Y. Li, MD
J. Hall
G. Tan
J. Lu

**MI107-ED-X
Nuclear Medicine and Molecular Imaging in the Era of Theranostics**

K. Ellis, Lexington, KY
H. Kapoor, MD
A.H. Ragab, MBBCh
M. Oates, MD
R.H. El Khoul, MD, PhD

**MK123-ED-X
Chip on Your Shoulder? A Resident’s Primer for Understanding Positioning and Relevant Anatomy in Shoulder Radiography**

R.P. Frederick, MD
J. Verhey, BS
J.R. Long, MD, Phoenix, AZ
J.D. Stensby, MD
T.J. Hillen, MD

**MK129-ED-X
Musculoskeletal System Involvement by Opportunistic Infections: More Common than Recognized**

R.H. Choplin, MD, Indianapolis, IN
L.M. Ladd, MD
N.A. Maertz, MD
T.D. Roth, MD
L.A. Cooper, PhD, MPH
K.J. Nagaro, DO

**MK135-ED-XCT
Imaging of the Tendon with Model-based Iterative Reconstruction: Can it be Completely Visualized?**

T. Maruno, Kumamoto Japan
T. Okigawa, RT
A. Arakawa, MD
D. Noto

**MK138-ED-X
Imaging Findings of Septic Arthritis: Update on Diagnosis**

J. Acosta Batlle SR, MD, Madrid Spain
M. Lopez Parra
C. Suevos, MD
B. Alba Perez, MD
P. Marazueta Garcia, MD
J. Blazquez Sanchez

**MK141-ED-X
Fats are All Around: Liposarcomas in Usual and Unusual Locations**

B. Kim, Jeon-Ju Korea, Republic of
M. Lee, MD
J.J. Choi, MD
I. Song
D. Jeon
E. Park, MD

**MK145-ED-X
Interpreting Expected Perioperative Imaging Findings, Complications, and Failure Mimics**

M.R. Cretcher, DO, Portland, OR
T. Bogan, BS, ARRT
B.R. Beckett, MD
B.G. Hansford, MD
S. Schmahmann, MD
B.M. Wolf, MD

**MK159-ED-XMR
Imaging of the Hip: How to Avoid Common Interpretive Pitfalls**

J. Ling, BS, MD, Winston Salem, NC
T.E. Pendergrast, MD
B. Kiani, MD
S.D. Wuertzer, MD, MS

**MK162-ED-XD
emystifying the Lateral Radiographs of the Adult Hip**

C. Mourad, MD, Beyrouth Lebanon
F. Dermesropian, MD
M. Halut, MD
J. Malghem, MD
B.C. Vande Berg, MD, PhD

**MK168-ED-X
Ultrasound Evaluation of the Hand and Wrist in the Acute Setting**

D.C. Gimarc, MD, Denver, CO
L. Strachko, DO

**MK174-ED-X
Keep Track of the Moving Parts: Dynamic Ultrasound of Musculoskeletal Pathology**

D. Lee, MD, Philadelphia, PA
N. Shabshin, MD, MBA
N.S. Berko, MD

**MK177-ED-X
It’s All in the Wrist: The Classification, Repair, and Postoperative Appearance of Intrinsic Wrist Ligament Tears**

D.Y. Kim, MD, Manhasset, NY
M. Farooq, MD
E.M. Goodman, MD

**MK183-ED-X
The Role of Image in Bone Tumors with Chondroid Matrix: A Pictorial Review with Pathological Correlation**

G. Itxaso, MBBCh, Madrid Spain
C. de Benavides
J. Garcia-Gil Garcia, MBBCh
P. Munoz Hernandez
M. Moreno Gomez
N. Gomez Leon, MD

**MK193-ED-X
The Spinopelvic Relationship Made Simple: What The Hip Arthroplasty Surgeon Wants to Know to Prevent Instability in High-Risk Patients**

P.H. Yi, MD, Baltimore, MD
J. Vigdorichik, MD
C.J. Della Valle
M. Abdel
J. Fritz, MD

**MK204-ED-X
Is Metallosis and Trunnionosis Around Hip Arthroplasty Implants the Same?**

A.V. Jagadale, MD, Little Rock, AR
G. Bajaj, MD
R. Ram, MD
K. Jambhekar, MD
T. Pandey, MD, FRCR
V. Jagadale, MD

**MK219-ED-X
Imaging Pitfalls Unique to the Developing Pediatric Ankle**

W. Walter, MD, New York, NY
Z.S. Rosenberg, MD
L.H. Goldman, MD

**MK224-ED-X
Difficult Water Imaging? An Easy and Practical Guide of Diffusion-Weighted Imaging for Radiologists**

J.V. Cortez, MD, Houston, TX
B. Amini, MD, PhD
A. Chhabra, MD

**MK231-ED-X
Affections of the Hip Joint Capsule**

U.S. Dias Jr, MD, Sao Paulo Brazil
R.V. Leao
D.T. Amaral
P.P. Helito, MD
C.D. Leite, MD, PhD
N. Horvat, MD

**MK235-ED-X
Chronic Nonbacterial Osteomyelitis: The Role of Whole-Body MRI**

F.F. Araujo, MD, Sao Paulo Brazil
B.C. Carneiro
A. Ormond Filho, MD
J.B. Guimaraes, MD
I.A. da Cruz, MD
E.D. Silva, MD

**MK236-ED-X
“Why Is It Hot?”: Recognizing Benign Osseous Findings that Can Have Uptake on Nuclear Medicine Exams**

K. Grunseich, MD, San Francisco, CA
D.T. Crebs, MD
R. Patel, MD

**MK240-ED-X
Unstable Shoulders: Radiologic Review of Shoulder Labral Tears**

F. Chen, MD, Harrison, NJ
M. McBride, MD
N. Dayal, MD
L. Wang, DO

**MK247-ED-X
Imaging Evaluation of Inferior Extremities Fractures: Correlation between Dual Energy Computed Tomography and Magnetic Resonance in Bone Marrow Edema Detection**

G.R. Camerin, MD, Sao Paulo Brazil
P.P. Helito, MD
J.A. Miranda, MD
R.F. Batista Pereira, MD
M.D. Correa, MD
M. Bordalo-Rodrigues, MD, PhD

**MK249-ED-X
Iliotibial Tract Anatomy: Functions and Its Pathologies**

N.E. Bernard, MD, Buenos Aires Argentina
T.A. Pascual, MMed
A.M. Marrero Sr, MD
L.A. Mazza, MD
J.J. Bernasconi
D.A. Couto, MD

**MK260-ED-X
Image of Musculoskeletal Fungal Infections: Educational Review Based on Cases**

P.A. da Silveira, MD, Sao Paulo Brazil
M. Bianchi
R.V. Leao
M. Bordalo-Rodrigues, MD, PhD
V.R. Netto, MD
A.P. Bambilra, MD

**MK261-ED-X
Anatomical Variation in the Ankle and Foot: Potential Inductors of Pathology**

M. Aparisi Gomez, FRANZCR, MBChB, Auckland New Zealand
F. Aparisi Rodriguez, MD, PhD
G. Guglielmi, MD
A. Bazzocchi, MD

**MK265-ED-X
Ultrasound of the Post-Operative Rotator Cuff: A Minefield of Artifacts with Nuggets of Gold**

N. Dahiya, MD, Phoenix, AZ
J.A. Flug, MD, MBA
C. Czapliski
J.R. Long, MD

**MK266-ED-X
Unexpected Imaging Findings on Bone Densitometry: Why the Radiologist Needs to Be Ever Observant**

M. Manganaro, MD, Ann Arbor, MI
D.J. Wale, DO
B.L. Vigilanti, MD, PhD
D.A. Jamadar, MBBS
N.K. Tran, MD
B.M. Arnkoff, MD

**MK283-ED-X
Snap to It: Imaging Review of Snapping Tendons**

P. Sathiadoss, MBBS
Z. Jibri, MBChB
K.S. Rakhra, MD
A.M. Sheikh, MD
R.C. Foster, MD, Ottawa CANADA

**MK284-ED-X
Spinal Procedures: Standardization of the Approach Way**

P. Auloge, MBBS, Reims France
R. Cazzato
G. Koch, MD, MSc
J. Garnon, MD
A. Gangi, MD, PhD

**MK285-ED-X
Value-Added “Opportunistic” CT: State-of-the-Art Insights into Bone, Muscle, and Fat**

R.D. Boutin, MD, Davis, CA
L. Lenchik, MD

**MK287-ED-X
The Ulnar Styloid: Cornerstone of the Wrist**

A.L. Arnaud, MD, Temple, TX
R.D. Garza-Gongora, MD
C.C. So, MD

MK293-ED-SUA8

An Educational Approach to Dynamic Contrast-Enhanced MRI Techniques for Arthritis Assessment

T.M. Noguero, MD, Jaen SPAIN
G.H. Aguilar, MD
M. Gomez Cabrera, MD
R. Barousse, MD
A. Luna, MD, PhD

**MK305-ED-MOA11
Don’t Forget the Patella: CT and MRI Imaging Spectrum of Patellar Injuries**

A.B. Villamizar, MD, Bogota Colombia
J.L. Torres Castiblanco SR, MD
M.A. Lopez, MD
H.D. Burbano Burbano

**MK306-ED-MOA12
Fascia Disorders Around the Body**

A. Vaso, BDS, Sao Paulo Brazil
A. da Rocha Correa Fernandes, MD, PhD
B.d. Tamura, MD
R. Masson
A.Y. Aihara, MD
M.d. Petriili

**MK308-ED-SUA11
Osteochondral Lesions of the Talar Dome: An Up-To-Date Approach on Multimodality Imaging and Surgical Techniques**

I.A. da Cruz, MD, Sao Paulo Brazil
J.B. Guimaraes, MD
A. Ormond Filho, MD
C. Nery
F.D. Silva, MD
F.B. Ferreira, MD

**MK321-ED-TUB8
Walking on Pebbles: Beyond Morton’s Neuroma**

S.R. Chaudhary, MBBS, Liverpool United Kingdom
A. Ganguly, MBBS, FRCR
J. Warner, MBChB, MRCS
H. Aniq, MBBS

**MK327-ED-WEA10
Put Your Shoulder Into It (and Elbow And Wrist For That Matter): Ultrasound-Guided Procedures of the Upper Extremity**

C.L. Pomeranz, MD, Philadelphia, PA
J.A. Belair, MD
L.N. Nazarian, MD
J.B. Roedel, MD, PhD

**MK329-ED-WEA12
Common and Uncommon Complications of Reverse Total Shoulder Arthroplasty: Pictorial Review and Review of the Literature**

M.A. Davis, MD, San Antonio, TX
A. Ejazi, MD
R.O. Cone III, MD
M.A. Tall, MD
G.W. Bean, MD
R.A. Loreda, MD

**MK330-ED-WEA7
Demystifying Sacral Masses: Imaging Findings, Rad-Path Correlation, and Biopsy Techniques**

J. Senne, DO, Columbia, MO
P. Buttar
J.D. Stensby, MD
R. Davis, MD
A. Bhat, MD

**MK334-ED-WEB8
Carpal Injury from a Fall on the Outstretched Hand**

P. Kim, Seoul Korea, Republic of
M. Lee, MD
J. Park
M. Yoon, MD
C. Chee, MD
S. Lee

**MK343-ED-THB10
Piriformis Muscle Variants: Not Always the Culprit!**

A.C. Ozawa Rodrigues, MD, Santos Brazil
A.d. Augusto, MD
C.E. Sakamoto, MD
A.Y. Aihara, MD
F.N. Cardoso, MD

**MK347-ED-THB8
Left Foot, Right Foot, Feet, Feet, Feet: Imaging Evaluation of Ankle and Foot Instrumentation and Reconstruction**

M.H. Lanier, MD, PhD
J.A. Liu, MD
A.J. Cail, MD
T.J. Hillen, MD
J.C. Baker, MD
J.W. Jennings, MD

RSNA 2019 Award Winners

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High Resolution Ultrasound of the Face in the Assessment of Cosmetic Fillers: The Role of the Radiologist

M. Brun, MD, Bogota Colombia
G. Palazuelos, MD
H.A. Rivera Gonzalez, MD

MS106-ED-X

Spectrum of Imaging Findings in Transgender Patients Status Post Vaginoplasty/Phalloplasty: Distinguishing Normal from Abnormal - An Interactive Exhibit

M.N. Nazarian, MD, New York, NY
R. Bluebond-Langner, MD
L. Zhao, MD
J.M. Ream, MD
P. Smereka, MD
N.M. Hindman, MD

MS119-ED-X

Establishing Quality and Safety within a 3D Printing Program: A Patient-First Approach

S. Bastavrou, DO, Seattle, WA
L. Wu, MD
B.A. Ripley, MD, PhD

MS133-ED-X

Can Superior Visualization CT-Angiography Replace and Overwhelm Conventional Angiography? The Pre-Operative Assessment of Endovascular Treatment with Quarter Millimeter Isotropic Data Sets

F. Washizuka, Tokyo Japan
H. Nakao
M. Kobayashi, MD
K. Tamura, MD
M. Hori, MD
N. Shiraga, MD

MS148-ED-X

Imaging Transgender Patients: A New Normal - Manifestations of Gender-Affirming Hormone Therapy

J. Stowell, MD, Boston, MA
F.W. Grimstad, MD
D.L. Kirkpatrick, MD
L.R. Brown, MD
V.A. Zavaletta, MD, PhD
J.B. Robbins, MD

MS155-ED-X

Li Fraumeni Syndrome: Genomics, Oncogenesis and Where to Look on Whole-Body Surveillance Imaging

N. Consul, MD, Houston, TX
K.J. Blair, MD
B. Amiri, MD, PhD
D.M. Ganeshan, FRCP, MBBS
K.B. Shah, MD
T.W. Moseley, MD

MS158-ED-X

Dual-Energy CT: Iodine Behavior, Quantification, and Spectral Curves Explained

D. Shin, MD, Boston, MA
H. Rahimi, MD
A. Gupta, MD

MS161-ED-X

Diagnosis of Fevers of Unknown Origin (FUO) Based on Guidelines: What Radiologists Should Know

C. Yoneima, Kashihara Japan
N. Marugami
J. Takahama, MD
T. Tachiiri
S. Yamauchi
T. Hirai, MD

MS171-ED-X

Diagnostic and Procedural Intraoperative Ultrasound: Technique, Tips, and Tricks for Optimizing Results

M.G. Lubner, MD, Madison, WI
L. Mankowski Gettle, MD
D.H. Kim, MD
T.J. Ziemlewicz, MD
N. Dahiya, MD
P.J. Pickhardt, MD

MS179-ED-X

Revisiting Hydatid: A Pictorial Essay of Hydatid Disease in Common and Uncommon Locations

S. Sharma, MBBS, Dehradun India
V.A. Subbaih, MD
S. Saxena
P. Sharma JR, MBBS, DMRD
R. Dev
U. Chauhan, MBBS, MD

MS180-ED-X

IgG4-Related Disease: The Great Pretender

S. Hesni, MBBS, London United Kingdom
M. Naik, MBBS, BSC
A. Tamimi
C.J. Harvey, MBBS
T.D. Barwick, MBChB
N.H. Strickland, MD

MS182-ED-X

Dual Energy CT: Technical Background and Applications from Head to Toe

E. Santos Armentia, MD, Vigo SPAIN
N. Silva, MD
T.M. Nogueuel, MD
C. Delgado, MD
R. Prada, MD
G. Tardaguila de la Fuente, MD

MS186-ED-X

Spectral Computed Tomography: A Guide for the Novice

M.Z. Naveed, MD, Philadelphia, PA
E. Xia, MD
P.D. Kim, MD
H. Son, MD
P.S. Wang, MD

MS189-ED-X

Multimodality Imaging of the Human Papillomavirus: What the Radiologist Needs to Know

S. Thomas
M.A. Morgan, MD
P.A. Hill, MD, MS
R. Kurtz
S.A. Simpson, DO
L. Mankowski Gettle, MD

MS199-ED-X

Recognizing Artifacts and Pitfalls of Multi-Energy CT

A. Parakh, MBBS, MD, Boston, MA
C. An, MD
B.M. Yeh, MD
F. Simeone, MD
D. Sahani, MD
A.R. Kambadakone, MD

MS204-ED-X

Oral Contraceptives-Related Complications: What Every Radiologist Need to Know

R.C. Raju, MD, New Haven, CT
M.V. Revzin, MD
D.S. Katz, MD
L. Mankowski Gettle, MD
J.S. Pellerito, MD
M. Moshiri, MD

MS207-ED-X

A Resurging Old Problem: Extrapulmonary Tuberculosis

A.H. Baykan, MD
I. Inan, MD
H.S. Sayiner
S. Erturk, Adiyaman Turkey

MS209-ED-X

Secondary Syphilis, “The Great Impostor”: Multiorganic Radiological Findings

G.I. Olive, Barcelona Spain
M. Pages, MD
J.R. Ayuso, MD
E. Belmonte Castan, MD
E. Ripoll, MD
I. Vollmer Torrubiano, MD

MS220-ED-SUA1

Side Effects of Molecular Target Drugs and Immune Checkpoint Inhibitors in the Era of Precision Medicine: What Should Radiologists Know?

K. Mariko, Tokyo Japan
R. Kurokawa
M.G. Lubner, MD, Madison, WI
L. Mankowski Gettle, MD
D.H. Kim, MD
T.J. Ziemlewicz, MD
N. Dahiya, MD
P.J. Pickhardt, MD
D.H. Kim, MD
P.J. Pickhardt, MD
C.O. Menias, MD

NM108-ED-X

Lutetium Lu-177 Dotatate Challenges: Side Effects, Complications, and Disease Progression

A. Dundar, MD, Rochester, MN
B.J. Burkett, MD
A. Packard, MD
G.B. Johnson, MD, PhD
J. Young, MD
T. Halfdanarson

NM111-ED-X

Lutetium (Lu-177) Radiolabeled Somatostatin Receptor Agonist Therapy in Neuroendocrine Tumors

M.A. Arshad, MBBS, BSC, Luton United Kingdom
S. Khan, FRCP
C. Bowen
Z. Win, MRCP, FRCP
A. Al-Nahhas

NM113-ED-X

State-of-the-Art of PET/MR for Rectal Cancer: The Added Value to Conventional Imaging Work-Up

M.A. Queiroz, MD, Sao Paulo Brazil
F.d. Barbosa, MD
J.F. Marin, MD
G.G. Cerri, MD, PhD
C.A. Buchpiguel, MD

NM116-ED-X

PET/MRI Neck Imaging: Applications, Protocols and Institutional Experience

S. Chen, MD, Los Angeles, CA
A. D'Agno

NM117-ED-X

Therapy Assessment of Metastatic Prostate Cancer on PSMA PET Imaging: How to Recognize the Patterns of Disease Response

F.d. Barbosa, MD, Sao Paulo Brazil
R.F. Nunes, MD
J.F. Marin, MD
L.B. Costa, MD
E.C. Zaniboni, MD
P.R. Dreyer, MD

NM119-ED-XPSMA

PET Imaging for Detection and Primary Staging of Prostate Cancer: Incremental Value Over Conventional Imaging Work-Up

M.A. Queiroz, MD
R.F. Nunes, MD
J.F. Marin, MD
L.B. Costa, MD
E.C. Zaniboni, MD
M. Waitman, MD

NM120-ED-XFDG

PET/CT Findings of Hepatic Tumor and Tumor-like Lesions Based on Molecule Background

K. Ozaki, Fukui Japan
K. Harada
N. Yoneda
H. Kimura, MD, PhD
T. Gabata, MD, PhD
O. Matsui, MD

NM131-ED-TUAG

Histiocytoses and Neoplasms of the Macrophage-Dendritic Cell Lineages: Multimodality Imaging with PET/CT Emphasis

K.N. Huynh, BS
B.D. Nguyen, MD, Scottsdale, AZ

NM135-ED-WEA6

“Virtual Planar Image” Reconstructed from SPECT Data: How to Process and Its Clinical Feasibility

A. Imoto, Suita Japan
K. Kiso, MD
E. Tateishi
Y. Nouno
Y. Terakawa
M. Fukumoto

NR103-ED-X

Central Nervous System Iatrogenesis: What the Radiologist Must Know

A.C. Anderson, MD, Ann Arbor, MI
J. Kim, MD
J. Patel, MD
A.A. Capizzano, MD
T. Moritani, MD, PhD

NR111-ED-X

The In’s and Out’s of Oculomotor Nerve Palsy

A.M. Condos, MD, San Diego, CA
S.G. Story, MD
E.P. Bahorik, MD
E.J. Prokopovich, DO
D.B. Hawley, MD
A.A. Cho, MD

NR112-ED-X

The Forgotten Phakomatoses: A Neuroimaging Review

M. Gusman, MD, Clayton, MO
M.S. Parsons, MD
A.Y. Mian, MD
R. Eldaya, MD

NR128-ED-X

Imaging Evaluation of the Spinal Hardware: What Residents and Fellows Need to Know

M. Guryildirim, MD, Chicago, IL
S.G. Dua, MD

A.M. Hamid, MD, MBBS

M. Kocak, MD
K. Lovblad, MD
R. Fontes, MD

NR136-ED-X

Temporal Bone Imaging: Great Advantages of Ultra-HRCT

T. Yamashiro, MD, Okinawa Japan
H. Tomita
M. Suzuki
S. Murayama, MD, PhD

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Brain on Fire: An Imaging-based Review of Autoimmune Encephalitis

L.C. Morris III, MD
R. Fisicaro, MD
A.K. Agarwal, MD, MBBS
K.M. Raj, MD
B.R. Shah, MD
F. Yu, MD, Dallas, TX

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Head and Neck Imaging Manifestations of Granulomatosis with Polyangiitis

T. Kikuchi, Shimotsuke Japan
H. Fujii, MD
A. Fujita, MD
N. Kunitomo
N. Fujii
H. Sugimoto, MD

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Radiologic Findings of Adrenoleukodystrophy and Their Clinical Importance

N. Sosa, San Francisco, CA
Y. Li, MD

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Nothing to Sneez At: Imaging Findings in Non-Neoplastic Sinonasal Pathologies

T. Li, MD, Detroit, MI
S.C. Patel, MD
J. Craig
H.L. Marin, MD
M.C. Rheinboldt, MD
B.D. Griffith, MD

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Sellar and Suprasellar Region in Kids: Breaking Down the Differential

C. Herazo, MD, Bogota Colombia
M.W. Wagner, MD
J.C. Marquez, MD

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Doctor, I Am Losing My Mind! An Update in Cortical Degenerative Syndromes: Patterns to Review and Remember

I.G. Padilha, MD, Sao Paulo Brazil
A.M. Pettengill, MD
A.A. Fonseca, MD
F.T. Pacheco, MD
R.H. Nunes
A.M. Maia Jr

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Beyond Tympanomastoidectomy: A Pictorial Essay of Unusual Post-Operative Temporal Bone CT Findings

A. Panda, MD, MBBS, Rochester, MN
J.I. Lane, MD
F.E. Diehn, MD
M. Carlson, MD

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Diffuse Thyroid Disease: Radiopathological Correlation

F.J. Castro Consiglio, MD, Barcelona Spain
V. Perez
M. Prenzeta, MD
J. Cabero Moyano, MD
M. Bella Cueto
E. Granell

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Cerebral Venous Thrombosis: What Radiologists Need to Know About Diagnosis and Treatment

S. Kim
S. Heo, MD, Jeollanam-Do Korea, Republic of
Y. Lee
B. Baek
H. Lee
W. Yoon, MD

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Gadolinium Deposition in the Brain and Glymphatic System

T. Taoka, MD, PhD, Nagoya Japan
R. Ito
R. Nakamichi
T. Nakane
H. Kawai
S. Naganawa, MD

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Beware the Trunk Abnormalities Associated with the Characteristic Head and Neck Lesions

Y.Y. Kurihara, MD, Tokyo Japan
A. Fujikawa, MD, PhD
H. Tomita
N. Tachizawa, MD
T. Fukuda, MD

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MR Permeability Applications in the Head and Neck

J.H. Huang, MD, New York, NY
G.M. Fatterpekar, MBBS
J. Ranjoli, MD
G. Nayak, MD
S.H. Patel, MD
A. Pires, MD

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Lesion Localization in Neuroradiology: Classic Neurologic Exam and Neuroimaging Correlates

J.A. Coburn, MD
S.I. Frost, DO
J.J. Yu, PhD
T.A. Kennedy, MD, Saint Louis, MO

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Third Ventricular Colloid Cysts: Simple Yet Complex Imaging Entity

S. Khanpara, MBBS, Houston, TX
K.D. Westmark, MD
P. Rabiei, MD
R.P. Patel, MD
R. Riascos, MD

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4D CT for Parathyroid Evaluation

A.M. Ruiz Mojica, MS, San Juan, PR
A.N. Saldana, BA
L.C. Figueroa Diaz, MD
F.G. Rodriguez-Ruiz, MD
L.E. Garcia-Irizarry, MD
E.J. Labat, MD

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Key Imaging Features of Newly Defined CNS High Grade Neuroepithelial Tumor with BCOR Alteration

A.S. Taliaferro, MD, San Francisco, CA
S. Cha, MD

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Fractional Anisotropy Value May Predict the Long-term Treatment Effectiveness After Thalamotomy for Essential Tremor: How We Measure

H. Hori, Kanagawa Japan
T. Yamaguchi, MD, PhD
K. Abe
T. Taira

NR239-ED-X

Imaging of Teeth Abnormalities: How Radiologists Can Contribute

K. Ito, PhD, DDS, Matsudo Japan
C. Andreu Arasa, MD, PhD
H. Muraoka, PhD, DDS
A. Mecham, DMD, BS
T. Kaneda, DDS, PhD
H.S. Bedi, MD

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Atypical Bacterial Infections of the Central Nervous System: An Unknown Threat

J. Azcona Saenz, Santander Spain
E. Marco de Lucas
M. Drake Perez, MD
E. Yllera Contreras, MD
E. Marin-Diez, MD
A. Barba Arce, MD

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Pain, Vertigo, Tinnitus, Spasm: Have You Thought About Neurovascular Compression?

I.D. Alves, MD, Sao Paulo Brazil
U. Passos, MD
A.F. Vieira SR, MD
B.P. Rocha
C.D. Leite, MD, PhD
E.M. Gebrim, MD

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Lesions That Bloom: An Artifact Turned into Neuroradiologist Advantage

H.A. Aboughalia, MBBS, Seattle, WA
L.E. Abandeh, MD
M.E. Abdelhady, MBBS, MBBS
S. Vatooth, MD, FRCP

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CNS Involvement in Hemophagocytic Lymphohistiocytosis (HLH): How to Lighten the Hypothesis

T.A. Miranda, MD, Sao Paulo Brazil
A.M. Oliveira, MD
L.L. Resende, MD
L. Fajardo, MD
S.F. Ferracioli, MD
C.P. Alves SR, MD

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Non-Primary Head and Neck Lesions: Imaging Feature of Metastasis to Head and Neck and Differential Diagnosis

K. Takumi, MD, PhD, Kagoshima Japan
C. Andreu Arasa, MD, PhD
A. Rai, MBBS
K. Ito, PhD, DDS
N. Fujima, MD
H.S. Bedi, MD

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Arbovirosis: Summer is Coming

C.G. Chaves, MD, Rio de Janeiro Brazil
L. Hygino, MD
B.S. Alves, MD
D. Galheigo de Oliveira E Silva, MD
F.C. Rueda-Lopes, MS
D.G. Correa, MD

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Conventional and Advanced MRI Evaluation of Hypophysis: Is it Possible to Minimize the Use of Gadolinium with DWI and t2-Mapping Techniques?

T.M. Nogueuel, MD, Jaen SPAIN
C. Dietz
E. Aumente, MD
J. Broncano, MD
A. Luna, MD, PhD

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Understanding Pediatric Neuro-immune Disorders Conflicts: A Neuroimaging Approach in the Molecular Era

A. Server Alonso, MD, PhD, Oslo Norway
P.B. Marthinsen, MD
T. Sakinis

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Cerebral Venous Thrombosis: Beyond Diagnosis—Follow-up, Pearls, and Pitfalls

E. Penailillo, MD
N. Plaza, MD, Santiago Chile
S. Bravo-Grau, MD, MSc
C. Quiroga SR
M.R. Zerega
J. Cruz, MD

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The Plethora of Pineal Region Tumors: Neuroimaging Findings of Both Common and Rare Entities

F. Torres, MD, Los Angeles, CA
J.H. Kang, MD
R.M. Ourfalian, DO
E.T. Nguyen, MD

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Posterior Third Ventricle Pathologies: Look Through Surgeons' Eyes

B.B. Das, MD, MBBS, Bangalore India
S. Kumaran, MD
P. Reddy, MBBS, MD
S.T. Prabhakar, MBBS, MD
P.K. K N, MD
J.V. Dodia, MBBS, MD

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There is Something in Your Eye: Imaging of Ocular Pathology

R. Giovanetti Gonzalez, MD, Toledo Spain
P.A. Baron Rodiz, MD
C.G. Roch, MD
R. Morcillo Carratala, MD
J.A. Luchsinger Heitmann
C. Astor Rodriguez, MD

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Under Construction: Understanding the Post-Operative Temporal Bone

M. Padula, MD, Sao Paulo Brazil
H. Tames, MD
M. Sarpi, MD
L

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N. Soni, MBBS, MD
A.K. Agarwal, MD, MBBS
D.J. Oliveira, MD
T. Moritani, MD, PhD

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Unperplexing the Brachial Plexus

B.M. Gilcrease-Garcia, MD, Saint Louis, MO

M.S. Parsons, MD

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The Good, the Bad, and the Ugly: A Case-based Review of the Ultrasonographic Evaluation of Thyroid Nodules According to the 2017 ACR-TIRADS Consensus

R.D. Escarria Panesso, MD, Mexico City Mexico

J. Viridiana Galicia, MD

A.M. Hormiga Pena, MD

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Open Your Mouth and Your Eyes! Don't Lose Teeth Affections

R.M. Reali, MD, Sao Paulo Brazil

P.P. Rocha, MBBS

C.T. Amancio

M. Sarpi, MD

S.A. Souza, MD, MS

M.T. Garcia, MD

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The Role of MRI in the Diagnosis of Neurodegeneration and Dementia: Patterns of Brain Atrophy by Visual Rating Scales

M. Calvo-Imirizaldu, MD, Pamplona Spain

A. Ezponda, MD

P. Malmierca

P.D. Dominguez, MD

J. Zubieta

R.M. Garcia-Eulate

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Refreshing Middle Cerebral Artery Anatomy in Stroke thrombectomy Era: A CT-Angiography and Perfusion-CT Radiologic Tool

S. Medrano, MD

M. Pumar, MBBS, Barcelona Spain

L.P. Desmeules, MBBS

S. Gonzalez-Ortiz

J. Maiques Llacer, MD

J. Capellades, MD

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Teratoma: Various Manifestations and Complications

T. Saida, MD, Tsukuba Japan

H. Ochi

T. Ishiguro

M. Sakai, MD

S. Hoshiai, MD

T. Hara

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Uterine Waves: What Does it Mean and Where Can it Take Us?

D.M. Soares, MD

B.S. Oliveira, MD, Rio de Janeiro Brazil

H. Werner, MD

L.K. Bittencourt, MD, PhD

M.P. Oliveira, MD, PhD

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If, How, What, When?: The Head and Tail of a Monochorionic Tale!

P.U. Vyas, MBBS, Mumbai India

R.N. Chahal, MBBS, MD

N.G. Chahal, MD, MBBS

S.S. Prasla, MBBS, MD

M.S. Joshi, MD

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Ten Tips for Successful Interpretation of Transvaginal Ultrasound

B.G. Collins, MD, PhD, Elizabethtown, PA

M. Patel, MD

K.L. McGillen, MD

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Not So Epithelial: Review of Imaging and Clinical Features of Less Common, but Not Forgotten, Ovarian Neoplasms

A. Chang, MD, San Diego, CA

H. Choi, MD

L.M. Strachowski, MD

D.J. Shum, MD

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Hysterosalpingography (HSG) in the Diagnosis and Management of Fallopian Tube Disease: SIN, Sacrifice and Salvation - Not Simply a Test of Tubal Patency!

A.P. Hemingway, FRCR, MBBS, London United Kingdom

E. Kashef, FRCR

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Endometriosis Without Mysteries: Unravelling Ultrasound Exam Techniques and Imaging Findings Spectrum

A.D. Hummel

A. Dubinco, MD, Sao Paulo Brazil

L. Bisolo, MD

L.C. Pasquini Raiza, MD

P. Savoia, MD

A.R. Junior

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MR Imaging Evaluation of Pelvic Visceral Nerves: Correlation with Surgical Findings

L.C. Belem, MD, Rio de Janeiro Brazil

A.C. Brandao Salomao, MD

C.P. Crispi, MD

F.A. Francisco, RT, MD

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TRICKS and TWISTS of the Trade: Time-Resolved MRA for Evaluation of the Female Pelvis

S.J. Patel, MD, Atlanta, GA

K.L. Cox, DO

A. Gupta, MD

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Morphological and Biometric Analysis of Posterior Fossa Structures by Fetal MRI: Step-by-Step

P. Oliveira-Szejnfeld, MD, Sao Paulo Brazil

R. Ximenes

B.M. Trindade, MD

A. Malho, MD

S. Monteiro

K.K. Haratz, MD, MSc

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Go with the Flow: Understanding Pathways of Disease Spread in Ovarian Cancer and How to Apply RECIST 1.1

S.A. Wahab, MD, Mason, OH

T.G. McCurdy, DO

M.S. Newberry, MD

J.J. Tobler, MD

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Adenomyosis in Pregnancy: Diagnostic Pearls and Pitfalls

C. Pyle, MD

K.K. Jensen, MD, Portland, OR

B.R. Foster, MD

E.J. Schneble, DO

R. Sohaey, MD

K.Y. Oh, MD

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7 Tips to Tell It's Twisted: Pearls and Pitfalls in the Diagnosis of Pelvic Adnexal Torsion

L.M. Strachowski, MD, San Francisco, CA

M.M. Horrow, MD

H. Choi, MD

D.J. Shum, MD

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Fetal Facial Mass and Mass-like Lesions

R. Sohaey, MD, Portland, OR

K.Y. Oh, MD

N. Patel, MD

E. Edwards, MD

P. Vajtai, MD

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Imaging for Fetal Interventions: Criteria, Considerations, and Complications

P. Jha, MBBS, San Francisco, CA

V.A. Feldstein, MD

M.V. Revzin, MD

D.S. Katz, MD

M. Moshiri, MD

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Stop the Recurrence! Predisposing Conditions of Bacterial Meningitis in Pediatric Population: What Radiologists Need to Know

S. Masuoka, MD, Setagaya-ku, Tokyo JAPAN

O. Miyazaki, MD

S. Nosaka, MD

Y. Tsutsumi, MD

M. Miyasaka, MD

R. Okamoto

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Baby Bowel: Optimized Ultrasound Evaluation of Neonatal Bowel Obstruction with Review of Both Congenital and Acquired Causes

E.M. Lawrence, MD, PhD, Madison, WI

K.A. Wetley, MD

E. Riedesel, MD

K. Gill, MD

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Imaging, Diagnosis, and Classification of Pulmonary Hypertension in Infants and Children

A.B. Wallace, MD, Saint Louis, MO

D.A. Raptis, MD

S. Ballala, MD

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Unusual Tumors of the Interventricular Foramen in Children

T. Jawabreh, Nazareth Israel

L. Schaefer Abu Hana, MD

S. Albrecht, MD

C. Saint-Martin, MD

C. Lacroix, MD

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Point-of-Care Lung Ultrasonography in the Neonatal Intensive Care Unit: A Promising and Controversial Tool

R.S. De Paula, MD

Y.T. Sameshima, MD

A.I. Gomes, MD, Sao Paulo Brazil

M. Ieiri Yamanari, MD

M.J. Neto

M.B. Funari, MD

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Oncologic Treatment Complications in Pediatric Population

M. Naeem, MBBS, Saint Louis, MO

D.H. Ballard, MD

G. Khanna, MD, MS

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3D EOS: A New Way to Image Pediatric Scoliosis

M. Hanna, Melbourne Australia

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Approach to the Diagnosis of Sellar and Juxtasellar Conditions in Pediatric Population

J. Escudero-Fernandez, MD, Barcelona Spain

I. Delgado Alvarez

A. Sanchez-Montanez, MD

M. Conangla-Planes, MD

M. Gonzalo Carballes, BMBCh

M.A. Rios-Vives, MD

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Contrast-Enhanced Ultrasound (CEUS) in the Diagnosis and Management of Pediatric and Adolescent Disease

F.J. Bertino, MD, Atlanta, GA

S.N. Gilyard, MD

P. Balthazar, MD

S.S. Milla, MD

L.E. Linam, MD

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Challenges and New Perspectives in Pediatric Cardiomyopathies Characterization by Cardiac Magnetic Resonance: What to Know and What to Look For

M. Gonzalo Carballes, BMBCh, Barcelona SPAIN

L. Riaza Martin, MD

A. Castellote, MD

M. Conangla-Planes, MD

A. Coma, MD

L. Riera Soler, MD

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Ultrasound Imaging Parameters: What the Pediatric Radiologist Needs to Know

M.L. Meyers, MD, Cleveland, OH

E. Lenzen

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Spotlight on the Pediatric Eye: A Review of Orbital Anatomy and Congenital Orbital Pathologies

R. Bhat, MD, Columbia, MO

M. Al-Samarraie, MD

M. Whitehead, MD

C. Leiva-Salinas, MD, PhD

D.G. Mazuru, MD

J.P. Cousins, MD, PhD

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Subpial Hemorrhage in Neonates: What Radiologists Need to Know

A.R. Barreto, MD, Ellitcott City, MD

M. Carrasco, MD, PhD

A. Dabrowski, MD, PhD

L. Sun

A. Tekes-Brady, MD

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A Case-based Review of Pancreatic Lesions in Children

F. Razjouyan, MD, MSc, Atlanta, GA

A.L. Alazraki, MD

S.S. Milla, MD

E. Riedesel, MD

E.J. Richer, MD

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Chest Wall Neoplasms in Children

A. Weinstock, MD

S. Gola, MD, Hershey, PA

A.B. Khwaja, MD

N.A. Chauvin, MD

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Photon Counting Technique: How to Analyze a Novel Quantitative Image?

N. Kimoto, Kanazawa Japan

H. Hayashi, PhD

T. Asakawa

T. Asahara

T. Maeda

A. Katsumata, DDS, PhD

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Perfusion CT: Concepts and Applications in Abdominal Imaging

J. Shi, Palos Verdes Estates, CA

E. Allgood, MD

V.M. Rivera

E. Stackpole, BS

S.S. Raman, MD

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MR Alphabet Soup: Understanding the Principles of Common Magnetic Resonance Abbreviations

C. Hoffman, Madison, WI

G. Roberts, BSC

E. Meram, MD

R. Medero

L