

RSNA 2014 - 100th Scientific Assembly and Annual Meeting Award Winners

MAGNA CUM LAUDE

BRE124 Can You Detect It? Missed Breast Cancers in Breast Imaging

A. Wadhwa, MD, Milwaukee, WI; M. Gonyo, MD

BRE144 Breast MRI for Equivocal Mammographic Findings: A Help or Hindrance?

C. S. Giess, MD, Wellesley, MA; S. A. Chikarmane, MD; D. A. Sippo, MD; R. L. Birdwell, MD

CHE107 Radiological and Histopathological Correlation of Thymic Epithelial Tumors

T. Nakazono, MD, PhD, Saga Japan; K. Yamaguchi, MD; R. Egashira, MD; M. Mizuguchi, MD; H. Irie, MD, PhD

CHE151 Progression and Recurrence of Lung Cancer: Established Patterns and New Concepts

C. Sayer, MBBS, FRCR, London United Kingdom; T. Benepal; A. Nair, MBBS, FRCR; M. C. Godoy, MD, PhD; I. Vlahos, MRCP, FRCR

ERE156 Imaging of Craniocervical Junction Traumatic Injuries: What the Clinician Needs to Know

R. Riascos, MD, Galveston, TX; E. E. Bonfante, MD; C. Cotes, MD; R. Hakimelahi, MD

ERE190 Imaging of Traumatic Peripheral Nerve Injuries

Y. Endo, MD, New York, NY

GIE198 Liver Infections: Multimodality Imaging to Narrow Differential Diagnosis and Avoid Pitfalls in Interpretation

P. Bachler, MD; M. J. Baladron, MD, Santiago, Chile; C. O. Menias, MD; I. Beddings, MD; R. F. Loch Jr, MD; E. Zalaquett, MD

GIE221 It's all Relative! Vascular Invasion in Hepatocellular Carcinoma: Current Recommendations and Future Directions

G. M. Dunham, MD, Seattle, WA; B. Carlson, MD; C. R. Ingraham, MD; M. Moshiri, MD; D. S. Katz, MD; P. Bhargava, MD

INE025-B 3D Printed Liver Models for Diagnostic and Surgical Assistance: How to Prepare Data, Print and Utilize?

K. Mori, PhD, Nagoya, Japan; Y. Nakamura, PhD; Y. Hayashi, PhD; M. Oda, PhD; T. Igami, PhD, MD; T. Hirose, MD

INE104 Quality Improvement with Discrete Event Simulation (DES): A Primer for Radiologists

M. Booker, MD, MBA, Los Angeles, CA; R. O'Connell; B. Desai, MBBS, MS; V. A. Duddalwar, MD, FRCR

MKE237 MRI of Hip Arthroplasty

O. Casado Verdugo, Galdacano Spain; E. Prieto, PhD; M. Ereno Ealo, MD; P. Ruiz; T. Salinas

MKE273 The Sternal-rib Complex Is the Fourth Column of the Thoracic Spine: 3D Modeling of Its Role in the Mechanism of Injury to the Chest Wall and Spine

B. J. Carra, MD, Lackland, TX; L. T. Mansfield, MD; M. J. Reiter, DO

NRE338 Dynamic MR Imaging of the Temporomandibular Joint: Understanding the Joint Biomechanics

M. Tafur, MD, San Diego, CA; R. Biswas; K. Kwack, MD, PhD; W. C. Bae, PhD; R. Healey; S. Statum

NRE372 Ultrasound of the Spine in Newborns: A Great Screening Tool for Assessment of Anatomy, Normal Variants and Congenital Spinal Anomalies

C. H. Torres, MD, Ottawa Canada; R. Riascos, MD; J. Hurteau, MD; C. Cotes, MD

OBE134 First Trimester Pregnancy Ultrasound: Normal and Abnormal Findings

P. Ziai, MD; M. Hayeri, MD, Philadelphia, PA; O. Teytelboym, MD

OBE160 Female Perineal Masses: Spectrum of Imaging Finding

G. Ssi-Yan-Kai, Clamart France; T. Thubert; A. Rivain; S. Prevot; X. Deffieux; J. De Laveaucoupet, MD

PDE125 Fetal Imaging of Congenital Lung Malformations, with Pathologic Correlation

C. I. Cassidy, MD, Houston, TX; A. R. Mehollin-Ray, MD

PDE170 "Children's Twelve": Cranial Nerves on Pediatric Brain MRI

J. Hwang, MD, Yangsan-si Republic of Korea; H. Yoon, MD; J. Lee, MD, PhD; H. Yoon, MD; A. Jung; Y. Cho

PDE192 Different Faces of Langerhans Cell Histiocytosis (LCH): What the Radiologist Needs To Know

M. L. Shehata, MD, King Of Prussia, PA; O. Teytelboym, MD; L. W. Averill, MD; V. V. Kandula, MBBS

URE167 Renal Manifestations of Hematologic Disorders: A Pictorial Review

A. S. Puryoko, MD, Cleveland, OH; H. M. Leao Filho, MD; A. C. Westphalen, MD; C. P. Coppa, MD; E. M. Remer, MD

VIE136 Vascular Complications of Pancreaticoduodenectomy (The Whipple Procedure): Diagnosis and Treatment

S. L. Hsu, MD; A. K. Pillai, MD; S. P. Reis, MD; C. K. Trimmer, DO; S. P. Kalva, MD; P. D. Sutphin, MD, PhD, Dallas, TX

VIE196 Imaging the Swollen Arm with Dialysis Access: It's Not Just DVT

S. N. Reddy, MD, Chicago, IL; M. Boros, MD; M. M. Horrow, MD

CUM LAUDE

BRE101 Breast Imaging Findings Related to Interventions: Complications, Recurrences, and Rare Findings

E. D. Yeh, MD, Boston, MA; E. P. Frost, MD; C. S. Giess, MD; S. Raza, MD; R. L. Birdwell, MD

BRE133 Mammographic BIRADS 3 Lesions Upgraded During Imaging Surveillance: Common Errors in Initial/ Subsequent Assessment and How to Avoid Them

A. Michaels, MD, Boston, MA; C. S. Giess, MD; C. S. Chung, MD; E. P. Frost, MD; R. L. Birdwell, MD

BRE148 Interpretation of Breast MRI Utilizing the BI-RADS 5th Edition Lexicon: How Are We Doing and Where Are We Headed?

K. Shin, MD, Houston, TX; K. Phalak, MD; A. S. Hamame, MD; M. Parizi, MD

BRE157 You Will See it When you Know it: Clustered Ring Enhancement, a New Breast MRI BI-RADS Descriptor for Internal Enhancement Pattern of Non-mass Enhancement

Y. Machida, MD, PhD, Chuo-City Japan; M. Tozaki, MD, PhD; A. Shimauchi, MD; T. Yoshida; Y. Kanemaki

BRE159 Blind Spots and Pitfalls in Breast Imaging

R. Rakow-Penner, MD, PhD; J. De Guzman, MD, La Jolla, CA; Y. Kim, MD; I. C. Onyecholem, MD; H. Ojeda-Fournier, MD

BRE162 Current Concepts in Evaluation of Response to Neoadjuvant Chemotherapy in Breast Cancer

S. Carkaci, MD, Columbus, OH; B. E. Adrada, MD; A. B. Del Rosario, DO; G. J. Whitman, MD

BRE169 Tilting the Atlas: A Discussion of the Changes between the 4th and 5th Editions of BI-RADS

S. Choudhery, MD, Dallas, TX; S. J. Seiler, MD

CAE102 CT-based Myocardial Ischemia Evaluation: Quantitative Angiography, Myocardial Perfusion, and CT-FFR

H. Koo, MD, Seoul Republic of Korea; D. Yang, MD; J. Kang, MD; T. Lim, MD, PhD

CAE121 Surgical Management of Anomalous Origin of Coronary Artery from the Opposite Sinus: What Every Surgeon Should Know before Operating on a Coronary Anomaly—The Role of Cardiac Radiologist

M. Tomas Mallebrera, MD, Madrid Spain; A. Franco Lopez; G. Aldamiz-Echevarria; M. Orejas Orejas

CAE150 Magnetic Resonance Imaging of the Papillary Muscles: Normal Anatomy, Variants and Abnormalities

N. L. Fulton, MD; P. Rajiah, MD, FRCR, Cleveland, OH

CAE153 Step-by-step Guide to Myocardial Extracellular Volume Measurement Using CT

Y. Kwitza, MD, Tsu Japan; K. Kitagawa, MD, PhD; M. Uno, MD; Y. Goto, MD; N. Nagasawa, RT, PhD; S. Nakamori, MD

CHE008-B Long Term CT Follow Up of Ground Glass Opacities Progressing to Invasive Adenocarcinoma: A Review and Case Series

D. Manos, MD, FRCPC, Halifax Canada; J. N. Borgeonkar, MD, FRCPC

CHE106 Pathology of the Trachea and Central Bronchi with Radiologic-pathologic Correlation

G. S. Shroff, MD, Houston, TX; D. Oczi-enez, MD; P. Gupta, MBBS; A. C. Nachippan, MD; R. M. Estrada-Y-Martin; C. C. Richards, MD

CHE113 Imaging of Thoracic Infections in the Oncologic Setting

M. C. Godoy, MD, PhD, Houston, TX; P. M. de Groot, MD; M. K. Benveniste, MD; B. W. Carter, MD; E. M. Marom, MD; M. T. Truong, MD

CHE120 Regional Theater: Avoiding Pitfalls in Thoracic Radiology by Understanding Regional Mycoses

C. E. Jakerst, MD, Tucson, AZ; S. K. Hansen, MD; G. Kicska, MD, PhD; D. A. Raptis, MD; D. Vargas, MD; V. A. Arteaga, MD

CHE163 An Overview of Uncommon Primary Pulmonary Tumors: An Imaging Spectrum Beyond Lung Cancer with Histopathological Correlation

A. J. Baxi, MBBS, DMRD, San Antonio, TX; C. S. Restrepo, MD; M. J. McCarthy, MD; A. L. Mumbower, MD; R. S. Katze; S. L. Betancourt Cuellar, MD

CHE174 Evil Humors: Thoracic Manifestations of Immunoglobulin Related Disease in Adults

M. H. Lee, MD, Madison, WI; J. P. Kanne, MD; C. A. Meyer, MD

CHE205 Radiologic Review of Primary Mediastinal Nonseminomatous Germ Cell Tumors: Three Decades of Experience from a Large Referral Center with Emphasis on Surgical Management

D. E. Heitkamp, MD, Indianapolis, IN; W. T. Rahman, MD; S. D. Teague, MD; K. M. Rieger, MD; K. A. Kesler, MD

ERE129 Emergency Thoracic Sonography: The Essentials

S. Wongwatsayawan, MD; R. Kaewlai, MD, Bangkok Thailand; R. Suwannanon, MD; S. Sawatmongkornkul

ERE152 Dual Energy CT to Detect Active Extravasation in the Emergency Room Setting: Advantages over Conventional Contrast-Enhanced CT

G. A. Bonci, MD, Boston, MA; J. R. Wortman, MD; U. P. Fulwadhva, MD; A. D. Sodickson, MD, PhD

ERE176 Intimal Problems: A Pictorial Review of Non-Traumatic Aortic Disease

A. V. Berniker, MD, Darby, PA; O. Teytelboym, MD; J. E. Mackey, MD

ERE191 Imaging of Traumatic Preganglionic and Postganglionic Brachial Plexus Injuries

Y. Endo, MD, New York, NY

ERE199 Out of Radiologist's Sight: Sacral Fractures and Lumbosacral Dislocation

Y. Epelboym, MD, MPH, Boston, MA; S. Sheehan, MD; M. Weaver, MD; A. D. Sodickson, MD, PhD; B. Khurana, MD

GIE032-B Postoperative CT Findings after Pancreatic Head Resection: Normal CT Anatomy and Complications

J. Seo, MD, Seoul Republic of Korea; M. Lee, MD; K. Kim, MD; Y. Chung, MD, PhD; M. Kim, MD, PhD; H. Lee, MD

GIE123 Spectrum of Visceral Artery Pseudoaneurysms due to Various Etiologies Diagnosed on MDCT Abdominal Angiography

J. V. Zota, MBBS; S. S. Ghuman, MBBS, MD, Noida India; T. B. Buxi, MD; K. S. Rawat, MBBS, MD; A. Yadav, MBBS

GIE169 Beyond Recurrence: Recognizing the Pathologies of the Post-operative Groin

J. M. Miller, MD, MS, Los Angeles, CA; S. Towfigh, MD; R. Saouaf, MD

GIE275 The Wheel of the Mesentery: Imaging Spectrum of Primary and Secondary Mesenteric Neoplasms—How the Radiologist Can Help Plan the Treatment

S. Nougaret, MD, New York, NY; Y. Lakhman, MD; C. Reinhold, MD, MSc; H. C. Adley, MRCP, FRCR; E. Delhom; B. Guin, MD

GIE288 Pancreas Transplants: From Surgical Basics to Imaging Pearls

M. D. Kohli, MD, Indianapolis, IN; A. K. Shah, RT; P. Haste, MD; K. Sandrasegaran, MD; R. Mangus, MD; J. A. Fridell, MD

GIE301 Dual Energy CT of the Intestines: Pearls and Pitfalls

L. Zhao, MD, Beijing China; Z. J. Wang, MD; S. Kim, MD; E. Wu, MD; W. Chang, MD; J. Lambert, PhD

GIE310 Inflammatory Fibroid Polyps of the Gastrointestinal Tract: Imaging Spectrum with Pathologic Correlations and Mimickers

G. Han, Seoul Republic of Korea; J. Kim, MD; S. Lee, MD; S. Park, MD; J. Lee; H. Ha, MD

HPE005-B Practical and Interactive Approach to ACGME Health Economics Requirements: A Resident Primer

N. O. Koney, MD, MBA, New York, NY; M. Syed, DO; M. Ghesani, MD; N. J. Kagetsu, MD

HPE120 Abdominal Incidentaloma Quiz: A Review of the ACR Incidental Findings Committee Recommendations

M. Flusberg, MD; F. S. Mazzariol, MD; S. K. Oh, MD; Z. J. Ricci, MD; A. M. Rozenblit, MD; V. Chernyak, MD, Bronx, NY

INE114 CT Guided Puncture Navigated by Gyroscope Equipped Smartphone

M. Hirata, MD, Toon Japan; H. Tanaka, MD; N. Fukuyama; G. Koivahara; N. Kawaguchi, MD; T. Tsuda, MD, PhD

MKE115 Imaging of Chronic Wrist Pain

F. Poh, MBBS, FRCR, Singapore Singapore; M. Chow, MD

MKE123 The TFCC - An Illustrated Review of Its Anatomy and Injury Patterns Based on the Palmer Classification

M. R. Skalski, DC, Whittier, CA; E. A. White, MD; D. B. Patel, MD; G. R. Mateuk Jr, MD; A. Schein, MD; D. M. Forrester, MD

MKE172 Imaging of Muscle Injuries: The Prognosis Impact of Connective Tissue Involvement

A. Massein, Paris France; J. Renoux, MD; G. Mercy; L. Moya; S. Benabadi, MD; M. Wagner

MKE182 Radiographic Measurements and Angles of the Ankle and Foot: What Every Radiologist Should Know

J. O. Gaiotti, MD, Belo Horizonte Brazil; F. D. Castro, MD; L. Belusso, MD; F. N. Cardoso, MD; C. L. Jesus; M. C. Leite, MD

MKE188 Ultrasoundography of the Deltoid Ligament of the Ankle

G. Mercy, Paris France; A. Massein; J. Brasseur; P. A. Grenier, MD

MKE193 Bones on Drugs: Imaging of Drug-Related Changes in Bone

T. S. Chadaz, MD; B. S. Talbot, MD, Rochester, NY; J. U. Monu, MD

MKE198 "Oh!! Snap It" Dynamic Ultrasound of Snapping Syndromes

S. Boppana, MD, Hyderabad India; E. C. Nandury, MD; K. Subrahmanyam, MS; J. Reddy, MD; A. Srirambhalla, MD; B. Mallula, MD

MKE230 What's In a Name? Review of Specialized Radiographic Views and Stress Radiography for Musculoskeletal Trauma

C. R. Smith, MD, Saint Louis, MO; R. J. Talbert, MD; S. Bhalla, MD; M. V. Friedman, MD; T. J. Hillen, MD; J. C. Baker, MD

MKE233 Evaluation and Management of Ischiofemoral Impingement: A Radiologic and Therapeutic Approach to a Complex Diagnosis

M. Hernando, MD, Santander Spain; L. Cereza, MD; L. P. Carro; L. Guillen Vargas, MD; R. Dominguez-Orozco, MD; A. Canga, MD



ERE195 Traumatic Finger Injuries: What the Orthopedic Surgeon Wants to Know

G. G. Wieschhoff, MD; S. Sheehan, MD; J. R. Wortman, MD, Boston, MA; G. Dyer; A. D. Sodickson, MD, PhD; K. I. Patel, MBBS

GIE124 "Biliary Diseases with Pancreatic Counterparts": Evolving Concepts in Pathogenesis and Cross-sectional Imaging Findings

V. S. Katabathina, MD, San Antonio, TX; E. Flaherty, MD; N. Riddle, MD; A. K. Dasayam, MD; N. Lath; S. R. Prasad, MD

GIE148 Beyond TME—Determining Surgical Planes for Locally Advanced Rectal Cancer Using MRI

V. Hedayati, MRCP, FRCR, London United Kingdom; S. Balyasnikova; P. Tekkis; G. Brown, MD, MBBS

GIE189 Functional MRI of Diffuse Liver Disease

A. C. Silva, MD, Scottsdale, AZ; A. Luna, MD; L. Alcalá, MD; A. Panda, PhD

MSE142 It's Alive!!! How to Use a Simple Tissue Phantom to Teach Liver Biopsy, Abscess Drainage and Percutaneous Cholecystostomy Procedures

M. R. Sun, MD, Boston, MA; B. Siewert, MD; H. Perry

NRE128 Sensori-motor Functional Brain Anatomy Quiz: Test Your Knowledge

J. L. Ulmer Jr; A. P. Klein, MD, Waunawata, WI; L. P. Mark, MD; M. Franczak, MD

NRE175 Imaging Findings in Patients with Natalizumab-related Progressive Multifocal Leukoencephalopathy

J. Hodel, Paris France; O. Outteryck; A. Bocher toledano, MD; H. Zephir; C. Dubron; M. Zins, MD

NRE292 CT of the Postoperative Orbital Wall Following Trauma: Review of Normal Appearances and Common Complications

M. J. Reiter, DO, San Antonio, TX; R. B. Schwoppe, MD; J. Kini; J. Theler

RSNA 2014 Award Winners

CONTINUED FROM PREVIOUS PAGE

MSE144

MR Neurographic Findings of Lumbar Sacral Plexopathy Compared with Clinical and EMG Results

D. Pineda Ordonez Sr, MD, Buenos Aires Argentina; I. Escobar; R. Goni, MD; F. Barroso Sr; H. Chaves, MD; M. M. Serra, MD

NME111

18FDG-PET/MRI: Tutorial on Performance and Interpretation in Oncologic Patients

A. N. Melsaether, MD, New York, NY; A. C. Pujara, MD; R. A. Raad, MD; J. Roberts; L. Moy, MD

NME118

FDG PET/CT Imaging in Paraneoplastic Syndromes Involving the Central Nervous System

A. Packard, MD, Rochester, MN; C. H. Hunt, MD; G. B. Johnson, MD, PhD; P. J. Peller, MD

NME144

MIBG and Neuroblastoma: Everything You Need to Know

S. E. Sharp, MD; A. T. Trout, MD, Cincinnati, OH; M. J. Gelfand, MD

NRE115

Neuroradiology Applications of Dual Energy CT (DECT)

N. G. Campeau, MD, Rochester, MN; C. J. Stevens, MD; A. C. Patton, MD; A. L. Kotsenas, MD; D. R. De Lone, MD; E. Lindell, MD

NRE192

Bevacizumab in Recurrent Glioma: Patterns of Treatment Failure and Complications

Y. Li, MD, San Francisco, CA; S. S. Ali, MD; J. Clarke, MD, MPH; S. Cha, MD

NRE208

Post Therapy Evaluation of Brain Tumors

J. Ware, MD, Philadelphia, PA; R. L. Wolf, MD, PhD; H. Poptani, PhD; D. M. O'Rourke, MD; S. Mohan, MD

NRE226

Cerebral Microbleeds: Causes, Clinical Relevance and Imaging Approach

S. G. Kanekar, MD, Hummelstown, PA; D. Ermak

NRE310

Elastography of Thyroid Nodules: Which Elastography Index Can Predict Malignancy?

O. C. Saito, MD, PhD, Sao Paulo Brazil; M. C. Chammas, PhD; F. B. Franco, MD; S. M. Tochetto, MD; G. G. Cerri, MD, PhD

NRE320

Imaging Parapharyngeal Tumors: A Holistic Approach and Imaging Checklist to Assist the Clinician

S. Arya, MD, Mumbai India; A. Rastogi, MBBS, MD; N. Sable; R. Hermans, MD, PhD; S. K. Mukherji, MD

NRE329

Where Are You Going?: Geographic Approach for the Evaluation of Perineural Tumor Spread in the Head and Neck

V. Kunam, MD, Brooklyn, NY; D. L. Reede, MD; R. A. Holliday, MD; W. R. Smoker, MD

NRE330

Why Thyroid Surgeons Are Frustrated with Radiologists: Lessons Learned from Pre- and Postoperative Ultrasound

S. S. Kumbhar, MBBS, Seattle, WA; S. Maximin, MD; C. L. Wang, MD; R. O'Malley, MD; N. Lalwani, MD

NRE336

Brachial Plexus Imaging: Everything That a Radiologist Needs to Know for Reporting!

D. V. Patel, MBBS, MD, Ahmedabad India; H. T. Patel Sr, MD; A. Shah, MD; S. R. Khandelwal, MBBS, DMRD; L. V. Bhoje, DMRD; M. Doctor

NRE353

Charcot Spine: What Radiologists Need to Know to Make a Difficult Diagnosis

L. N. Ledbetter, MD, Salt Lake City, UT; R. K. Sanders, MD; K. L. Salzman, MD; L. M. Shah, MD

NRE367

Spinal Meningeal Cysts: What Are They and Why Should I Care? An Interactive, Case-based Tutorial

N. R. Turman, MD, Iowa City, IA; W. R. Smoker, MD; L. R. Gentry, MD

OBE001-B

Subtypes, Imaging, and Morphology in Ovarian Carcinoma: Radiologic-pathologic Correlation

K. E. Maturen, MD, Ann Arbor, MI; A. P. Wasnik, MD; A. Sciallis, MD; A. Kamaya, MD

OBE103

Comprehensive Review of T2-Star Weighted Imaging of the Female Pelvis

E. Maeda, MD, Tokyo Japan; N. Takahashi; O. Yoshino; M. Nakamura; K. Ohtomo, MD; M. Osuga

OBE111

The Imaging Findings of Typical and Atypical Gynecologic and Genital Infections

H. L. Purdy, MD, Saint Louis, MO; V. M. Mellnick, MD; N. Dahiya, MD; D. S. Katz, MD; S. T. Chang, MD; C. O. Menias, MD

OBE135

High Yield Tutorial: Ultrasound Diagnosis of Placenta Accreta

A. Matich, BA, San Diego, CA; D. H. Pretorius, MD; B. Matich Jr

PDE013-B

Sacroccoccygeal Teratomas in Newborns: Let's Talk Details

H. Yoon, MD, Seoul Republic of Korea; H. Yoon, MD; Y. Cho; J. Lee, MD; A. Jung; C. Yoon

PDE105

Dynamic Volumetric Computed Tomography for Pediatric Airway Assessment: How to Get Adequate Images with Reduced Radiation Dose

J. Mori, Kawasaki Japan; Y. Ogawa, RT; K. Tateishi; A. Fujikawa, MD; B. D. Lohman; J. Matsumoto, MD

PDE128

Post-mortem Magnetic Resonance Imaging (MRI) of the Central Nervous System (CNS) Foetuses

L. Oleaga, Barcelona Spain; C. Sebastia Querqued, MD; A. Sagasta; A. Nadal; O. Gomez; N. Bargallo, PhD

PDE134

Contrast Enhanced Voiding Urosonography with Intravesical Administration of US Contrast Agent in Children: How to Do!

A. Ntoulia, MD, PhD, Philadelphia, PA; F. Papadopolou, MD; S. J. Back, MD; M. Stenzel, MD; K. Darge, MD, PhD

PDE153

US Approach of Testicular Torsion in Children and Teenagers

C. Baud, MD, Montpellier France; M. Saguintaah, MD; N. Becharad-Sevette, MD; J. Bolivar-Perrin; S. David, MD; A. Couture, MD

PDE193

Fibroblastic and Myofibroblastic Tumors of Childhood and Adolescence

K. M. Sargar, MBBS, MD, Saint Louis, MO; G. Khanna, MD, MS; E. F. Sheybani, MD

PHE106

CT Dose Reduction Techniques: An Interactive Team-Based Approach

A. C. Nachiappan, MD; M. S. Rayhatha, MD, Houston, TX; X. Shi, MD; H. I. Litt, MD, PhD; E. Soloff, MD; J. M. Boone, PhD

PHE108

CT Imaging of Pregnant Patients: Fetal Dose and Beyond

N. Tirada, MD, Washington, DC; A. Chukus, MD; M. H. Secrist, MD; D. Dreizin, MD; R. K. Zeman, MD

PHE117

Understanding the Differences in Radiation Dose Distribution between Multi Detector CT and C-arm CT for High Contrast Imaging

T. P. Szczykutowicz, PhD, Madison, WI; S. Schafer; K. Royalty, MS, MBA; S. R. Nace, MD; T. A. Kennedy, MD

URE006-B

Don't Take Out That Testes — It's Not a Tumor!

A. Gupta, MD, Rochester, NY; M. Barrett; S. Cheris; B. Ren, MD; S. Bhatt, MD, MBBS; D. J. Rubens, MD

URE108

All about Renal Involvement of IgG4-Related Sclerosing Disease

N. Seo, MD, Seoul Republic of Korea; J. Kim, MD; J. Byun, MD; S. Lee, MD; H. Kim, MD; M. Kim

URE137

MR Imaging before and after Transcatheter Embolization in Benign Prostatic Hyperplasia: What the Radiologist Needs to Know

J. A. Ocantos, MD, Capital Federal Argentina; N. H. Kisilevsky; J. R. Coronil, MD; A. Kohan, MD; I. Ardanaz; P. F. Martinez

URE157

Go with the Flow: A Pictorial Review of Non-traumatic Male Genitourinary Emergencies

A. V. Berniker, MD, Darby, PA; O. Teytelboym, MD; S. U. Chan, MD; J. E. Mackey, MD

VEI129

Segmental Arterial Mediolytic (SAM): A Pictorial Review

J. Patel, MD, Morristown, NJ; J. Kee-Sampson, MD; N. Patel, MD; T. M. Yablonsky, MD; S. K. Calhoun, DO

VEI133

Technical Recommendations for Intra-arterial Therapy in Rat Liver Tumor Model

H. Nishiofuku, Kashihara Japan; T. Tanaka, MD; Y. Fukuoka; T. Sato; H. Anai, MD, PhD; K. Kichikawa, MD

VEI144

Breast Reconstruction with DIEP and SGAF Flaps – Role of Pre-Operative CT Angiogram

G. A. Bonci, MD, Boston, MA; B. Pomahac, MD; D. Mitsouras, PhD; S. A. Caterson, MD; A. Imanzadeh, MD; M. Mackesy, MD

VEI172

Percutaneous Spinal Cement Augmentation: Status Quo and Future Directions

U. Pua, MBBS, FRCR, Singapore Singapore

VEI174

Radiation Cataractogenesis in Interventional Radiology: A Review for the Interventional Physician

K. F. Seals, MD, Los Angeles, CA; R. al-Hakim, MD; C. H. Cagnon, PhD; S. T. Kee, MD; E. W. Lee, MD, PhD

CERTIFICATE OF MERIT

BRE009-B

Fat Injections for the Reconstructed Breast: Clinical and Imaging Features

E. M. Brown, MD, Dallas, TX; J. K. Mann, MD; S. Goudreau, MD; S. J. Seiler, MD

BRE019-B

Establishing a Radioactive Seed Localization Program

M. B. Drotman, MD; A. Starikov, BS, New York, NY; J. T. Katzen, MD; T. D'Alfonso, MD; A. D. Levy, MD

BRE104

Challenges, Precautions and Mishaps in Breast MRI Procedures and Outcomes: Strategies to Optimize Success

S. A. Chikarmane, MD, Boston, MA; C. S. Giess, MD; R. L. Birdwell, MD

BRE110

Radioactive Seed Localization: Why to Start a Program, the Pros and Cons of RSL vs. Wire Localization of Non Palpable Breast Lesions, How To Start a Program and How To Perform Radioactive Seed Localizations under Mammographic and Ultrasound Guidance

L. R. Margolies, MD, New York, NY; J. R. Szabo, MD; E. B. Sonnenblick, MD; E. Port, MD; J. Kamen, PhD

BRE115

The In's and Out's of Ductography: A Quiz-based Review for Residents (and All Radiologists!)

L. S. Sheiman, MD, New Haven, CT; P. H. Levesque, MD

BRE122

BI-RADS 5th Ed: Asymmetries Decoded

G. Kang; I. C. Onyeachole, MD; J. S. Bae; Y. Kim, MD; J. De Guzman, MD; H. Ojeda-Fournier, MD, La Jolla, CA

BRE123

Breast Tomosynthesis Screening: A Pictorial Review of Benign and Malignant Pathology

A. H. Jeon, MD, Fairfax, VA

BRE137

Pictorial Review of Breast MRI Utilization in Two Screening Populations: Digital Mammography versus Digital Breast Tomosynthesis.

A. Chudgar, MD, Philadelphia, PA; E. McDonald, MD, PhD; S. Weinstein, MD; P. A. Yamartino, BS; E. F. Conant, MD

BRE141

Tomosynthesis-detected Architectural Distortion: Management Algorithm with Imaging-Pathology Correlation

S. Y. Wang, MD; F. Tavassoli; M. A. Durand, MD, Chester, CT; M. Raghu, MD; R. J. Hooley, MD; L. E. Philpotts, MD

BRE153

State Of The Art DWI In The Breast: Recommended Protocol

P. M. Murphy II, MD, PhD; R. Rakow-Penner, MD, PhD; J. De Guzman, MD; H. Ojeda-Fournier, MD, La Jolla, CA

BRE173

Breast and Axillary Lymph Node Response to Neoadjuvant Chemotherapy: How Radiologic-Pathologic Correlation Informs Interpretation

R. M. Lorente-Ramos, MD, PhD, Madrid Spain; J. Azpeitia Arman, MD; T. Rivera Garcia; I. Casado Farinas; M. Lara Alvarez

BRE177

Breast Inflammatory Carcinoma: A Radiopathological Pictorial Review and Diagnostic Work-up

R. M. Lorente-Ramos, MD, PhD, Madrid Spain; J. Azpeitia Arman, MD; I. Casado Farinas; T. Rivera Garcia; M. Lara Alvarez; E. Cueva Perez

BRE178

Breast Sarcomas: Mammographic, Sonographic and MRI Features

R. A. Matsumoto, MD; L. F. Chala, MD, Sao Paulo Brazil; B. M. Thompson, MD; B. H. Bresciani, MD; G. G. Mello, PhD; S. J. Kim, MD

BRE179

Diagnosis, Treatment, and Follow-Up of Radiation Associated Angiosarcoma (RAA) of the Breast – What Radiologists Need to Know

S. A. Chikarmane, MD, Boston, MA; E. C. Gombos, MD; A. A. Giardino, MD

BRE183

From Lymphoma to Melanoma: Metastatic Disease to the Breast and Axilla from Extramammary Malignancies

K. S. Kulkarni, MD, Baltimore, MD; A. Cimino-Mathews, MD; D. J. Eisner, MD; E. H. Sheferaw, MD, MPH; B. Lee, MD; S. C. Harvey, MD

BRE203

Phyllodes Tumor of the Breast: Imaging Update with a Focus on Histopathologic Correlation of Core Biopsy and Surgical Pathology

E. L. Martin-Macintosh, MD, Rochester, MN; R. T. Fazzio, MD, PhD; K. N. Glazebrook, MBChB; K. N. Jones, MD; E. Onkendi; R. E. Jimenez, MD, PhD

BRE213

The Male Breast: Masses, Malignancies and More

M. M. Tyminski, DO, Worcester, MA; R. Hultman, DO; J. Watkins, MD; T. Stockl, MD; E. T. Ghosh, MD; S. A. MacMaster, MD

BRE216

Unusual Suspects: Spectrum of Extramammary Malignant Neoplasms in the Breast with Radiologic-Pathologic Correlation

S. Kalli, MD, Boston, MA; M. Lanfranchi, MD; A. Alexander, MD; S. S. Makim, MD

BRE220

Are Irregular Hypochoic Breast Masses on Ultrasound Always Malignancies?

Y. Kim, MD, Iksan Republic of Korea; H. Kim, MD

BRE222

Breast Elastography: How We Do It

C. Gkali, MD, Athens Greece; A. N. Chalazonitis, MD, MPH; Z. Antoniou, BMedSc; A. Zourla; E. Feida

BRE228

Non-mass Lesion on Breast Ultrasound: Appearance and Significance Radiologists Should Know

Y. Machida, MD, PhD, Chuo-City Japan; M. Tozaki, MD, PhD; A. Shimauchi, MD; T. Yoshida; Y. Kanemaki

BRE234

The "Other" Second-Look Ultrasound: Tips and Tricks for the Sono-graphic Work-up of Architectural Distortions Detected on Tomosynthesis

M. M. Cao, MD, Norwalk, CT; F. Yang, MD, PhD; H. I. Frimmer, MD

CAE001-B

Infectious Diseases of the Heart: Pathophysiology, Clinical and Imaging Overview

C. S. Restrepo, MD, San Antonio, TX; H. Murillo, MD, PhD; D. Vargas, MD; D. Ocacionez, MD; S. Martinez-Jimenez, MD; A. J. Baxi, MBBS, DMRD

CAE101

CT-based Fractional Flow Reserve (CT-FFR) — Review of Basic Theory and How to Do

J. Kweon, PhD, Seoul Republic of Korea; D. Yang, MD; Y. Kim; J. Kang, MD; T. Lim, MD, PhD; N. Kim, PhD

CAE116

"Exploring Beyond the Expected Four:" Role of Multislice-CT in Imaging of Tetralogy of Fallot.

V. Krishnan, MD, Singapore Singapore; T. Krishnaswamy, MBBS; D. D. Chinchure, FRCR; T. Thirumurthi, MBBS; K. Chokkappan, MBBS, MD; M. Subramanian, MD, FRCR

CAE120

PE or not PE: Challenges in Assessment of Thrombi and Pulmonary Embolism (PE) in Patients with Fontan Procedure

S. Fazeli Dehkordy; M. Ghadimi Mahani, MD, Ann Arbor, MI; P. P. Agarwal, MD; C. K. Rigsby, MD; R. Wright, BA, ARRT; J. C. Lu, MD

CAE122

"Terrible Ts": Five Cyanotic Congenital Heart Lesions That Every Radiologist Should Know

E. G. Belacazar-Bolanos, MD, San Angel Mexico; M. Diaz-Zamudio, MD; R. Cano; E. T. Kimura-Hayama, MD; S. A. Ciales Vera, MD; D. Jimenez Paez I, MD

CAE123

The Spectrum of Tetralogy of Fallot with Advanced Cardiovascular Imaging, CT and MRI, before Intervention, with Palliation and after Definitive Repair

B. E. Ashley, MD, Charleston, SC; A. M. Hlavacek, MD; D. Gregg, MD; U. Schoepf, MD; P. Suranyi, MD, PhD

CAE129

Amyloidosis: Within the Heart and beyond

S. Choudhery, MD, Dallas, TX; R. M. Almestady, MD; H. A. Omar, MD; Y. M. Butt; S. Abbata, MD; N. Malguria, MBBS

CAE130

Beyond Volumes and Function: Tissue Characterization in Non-ischemic

CHE123
Thoracic Manifestations of Sickle Cell Disease: Complete Radiological Spectrum

A. J. Baxi, MBBS, DMRD, San Antonio, TX; C. S. Restrepo, MD; G. W. Bean, MD; A. L. Mumbower, MD; M. J. McCarthy, MD; R. S. Katze

CHE136
Imaging Findings Following Common and Uncommon Bronchoscopy Procedures

J. T. Azok, MD, Cleveland, OH; A. El-Sherief, MD; J. K. Lempel, MD; R. Yadav, MD; C. T. Lau, MD; R. D. Renapurkar, MD

CHE144
Evaluating Response to New Targeted Therapies in Lung Cancer: Functional Imaging and Perfusion CT—What Should We Know?

M. Sanchez Gonzalez, MD, Barcelona Spain; M. N. Benegas Urteaga, MD; N. Reguart, MD; D. Barnes, MD; J. Guaitart, MD; O. Chirife Chaparro, MD

CHE145
Lung Cancer: Limitations and Imaging Pitfalls in Multimodality Staging

S. L. Betancourt Cuellar, MD, Houston, TX; D. M. Palacio, MD; M. K. Benveniste, MD; B. W. Carter, MD; P. M. de Groot, MD; J. J. Erasmus, MD

CHE166
Breaking Down the Wall: Malignant Neoplasms of the Chest Wall and Distinguishing Imaging Features

B. W. Carter, MD, Houston, TX; M. K. Benveniste, MD; S. L. Betancourt Cuellar, MD; P. M. de Groot, MD; J. Sorensen; J. P. Lichtenberger III, MD

CHE167
Calcifications in the Chest—To Worry or Not to Worry?

M. C. Ageitos Casais, MD, Santiago De Compostela Spain; S. Baleato Gonzalez, MD; A. Martinez De Alegria, MD; R. Garcia Figueiras, MD; M. V. Trujillo Ariza, MD

CHE173
Everything You Want to Know About Superior Vena Cava

D. Milner, MD; S. K. Sonavane, MD, Birmingham, AL; A. Chaturvedi, MD; A. K. Abdel Aal, MD, PhD; K. S. Shahir, MD; S. P. Singh, MD

CHE178
Getting a Taste for the Pulmonary Cheroio—Imaging Appearance and Differential Diagnosis

T. S. Henry, MD, Atlanta, GA; B. Little, MD; J. H. Chung, MD; E. A. Berkowitz, MD; S. Bhalla, MD

CHE183
Imaging of Classic and Emerging Thoracic Oncologic Emergencies

T. Chansakul, MD, Boston, MA; D. M. Jackman; R. Madan, MD

CHE190
Minimal-invasive Lung Volume Reduction: Bronchoscopic Techniques and Impact of Quantitative CT Emphysema Evaluation

U. Grosse, MD; J. Hetzel; L. Guendel; S. Gattidis, MD; r. syha; G. Grozinger, MD

CHE195
Past, Present and New Era of Imaging of Chronic Obstructive Pulmonary Disease

B. Daneshvar; J. Stojanovska, MD, MS, Ann Arbor, MI; C. J. Galban, PhD; B. D. Ross, PhD; E. A. Kazerooni, MD

CHE206
Reduced Dose, Low Dose, Ultra-low Dose... Can We Get Any Lower? A Practical Guide to Optimize the Radiation Dose Delivered in Chest Computed Tomography

M. Schaal, MD, Melsheim France; M. Ohana, MD, MSc; M. Jeung, MD; A. Labani, MD; C. Roy, MD

CHE214
Thoracic Applications of Magnetic Resonance Imaging

L. Flors, MD, Charlottesville, VA; C. Leiva-Salinas, MD; P. T. Norton, MD; T. A. Altes, MD; K. D. Hagspiel, MD

CHE221
When You See More Than What You Want to See: Management of Incidental Findings on CT or PET/CT of the Thorax

B. W. Carter, MD, Houston, TX; M. C. Godoy, MD, PhD; G. F. Abbott, MD; M. D. Gilman, MD; E. M. Marom, MD; J. P. Ko, MD

CHE225
Got Milk? Role of Radiology in Diagnosis and Management of Chylothorax

X. S. Bai, MD; S. Parsian, MD, Seattle, WA; S. Vaidya, MD; G. Kicska, MD, PhD; S. N. Pipavath, MD; J. D. Godwin, MD

CHE227
Pleural Lesions: A Pictorial Review of Common and Not So Common Pleural Lumps and Bumps

E. Scali, MD; A. Sedlic, MD, Vancouver Canada

CHE228
Chronic Thromboembolic Pulmonary Hypertension (CTEPH): Radiological Approach with Dual-energy CT Pulmonary Angiography. A One-stop Assessment

M. N. Benegas Urteaga, MD, Barcelona Spain; M. Sanchez, MD; M. Burrel, MD, PhD; J. Guaitart, MD; M. Barrufet, MD; T. de Caralt

ERE005-B
Queer the Pitch: How to Detect Internal Drug Couriers—From Customs through Hospitals to Forensics

P. M. Flach, MD, Zurich Switzerland; D. Gascho; P. Laberke; L. Ebner, MD; S. Ross, MD; G. Ampanozi, MD

ERE102
Bowel Pathology in Color versus Shades of Gray: Understanding Bowel Diseases with Use of Dual Energy CT and Iodine Maps

U. P. Fulwadhva, MD, Boston, MA; J. R. Wortman, MD; A. D. Sodickson, MD, PhD

ERE105
CT Imaging of Large Vessel Injury in Blunt Abdominal Trauma

A. S. Armetta, MD, Boston, MA; A. Baghdanian, MD; A. Baghdanian, MD; C. A. Lebedis, MD; S. W. Anderson, MD; J. A. Soto, MD

ERE106
CT of Miscellaneous Regional and Diffuse Small Bowel Disorders in the Emergency Setting: Beyond Ischemia and Inflammatory Bowel Disease

D. S. Katz, MD, Mineola, NY; S. Gaddam, BS; S. Onderi, MD; C. D. Scheirey, MD; R. Bordia, MBBS; J. J. Hines Jr, MD

ERE116
Jaundice in the Emergency Department: Fifty Shades of Yellow

R. Nicola, DO, MS; V. M. Mellnick, MD; C. O. Menias, MD; D. C. Oppenheimer, MD, Rochester, NY

ERE119
Name That Nephrogram: Asymmetric Renal Enhancement in the Acute Care Setting

K. Nowitzki, MD, PhD, Worcester, MA; H. S. Lo, MD

ERE125
The Acute Abdomen in Recent Postpartum Females: An Imaging Solution to a Clinical Conundrum

D. S. Perera, MD, Philadelphia, PA; K. L. Lim, MD

ERE131
Seeing is Believing: Deadly Type A Aortic Dissection

S. Klimkowski, MD; S. K. Sonavane, MD, Birmingham, AL; T. S. Henry, MD; J. R. Watts Jr, MD; K. S. Shahir, MD; S. P. Singh, MD

ERE134
An Approach to Imaging the Upper Airway in the Emergency Setting

K. Darras, MD, Vancouver Canada; G. T. Andrews, MD; T. O'Connell, MD, Meng; A. Bilawich, MD; P. McLaughlin, FFR(RCSI); S. Nicolaou, MD

ERE139
Fluid Collection in the Retropharyngeal Space: A Wide Spectrum of Various Emergency Diseases in Children and Adults

H. Ikeda, MD, Kawasaki Japan; T. Yamashiro, MD; A. Fujikawa, MD; H. Tomita; Y. Y. Kurihara, MD; Y. Nakajima, MD

ERE143
Pain in the Neck: What the ER Radiologist Needs to Know about Non-Traumatic Neck Emergencies

M. M. Chen, MD, San Antonio, TX; C. S. Restrepo, MD; A. Lopez-Araujo, MD; B. Tantiwongkosi, MD; A. P. Carswell, MD; J. L. Humphrey, MD

ERE161
Diaphragmatic Disruption: A Frequently Missed Injury after Blunt Thoraco-abdominal Trauma; Lessons from a Level I Trauma Center

J. W. Skweres, MD; A. Dubose, MD; G. P. Sangster, MD, Shreveport, LA; J. Robinson, MS; J. Brownell; M. G. Heldmann, MD

ERE162
ED Breast Cases and Other Breast Emergencies

N. R. Khadem, MD, Los Angeles, CA; S. Reddy, MD; S. C. Lee, MD; L. Hovanesian-Larsen, MD; D. K. Walker, MD

ERE167
MDCT of High Energy Pelvic Ring Disruptions in Blunt Trauma

D. Dreizin, MD, Baltimore, MD; H. Chen, BS; F. Munera, MD; K. Archer-Arroyo, MD; D. C. Mascarenhas, BS; D. Stein, MD, PhD

ERE173
Role of Ultrasound in the Assessment of Bowel Pathology in Patients Presenting with Abdominal Pain

M. Reed, MD, New Haven, CT; M. V. Revzin, MD; G. M. Israel, MD; A. Yelcani, MD; O. H. Baltarowich, MD; L. M. Scoutt, MD

ERE185
Traumatic Bladder Rupture: Utility of CT Cystogram and Clinical Implications

A. Baghdanian, MD, Boston, MA; C. A. Lebedis, MD; A. Baghdanian, MD; A. S. Armetta, MD; S. W. Anderson, MD; J. A. Soto, MD

ERE186
Traumatic Injuries to the Pancreas: The Key Role of Imaging

J. Wang, BSc, Vancouver Canada; H. Kang; P. McLaughlin, FFR(RCSI); S. Nicolaou, MD

ERE192
MDCT of Blunt Mandibular Trauma

D. Dreizin, MD, Baltimore, MD; K. Archer-Arroyo, MD; N. Tirada, MD; T. R. Fleiter, MD; F. Munera, MD; D. Stein, MD, PhD

GIE025-B
The POEM Procedure (Peroral Endoscopic Myotomy): Current Role and Experience, Imaging Findings, and Potential Complications

S. Stavropoulos; R. J. Modayil, MD; S. Taylor, MD; A. Fadi, MD; N. K. Jain, MD, MBA; D. S. Katz, MD, Mineola, NY

GIE037-B
Customizing Dual Energy CT Post Processing to Your Abdominal Radiology Practice

S. Klimkowski, MD; J. G. Zarzour, MD; L. L. Berland, MD; D. E. Morgan, MD, Birmingham, AL

GIE042-B
Neuroendocrine Tumor (NET) of Abdominal Organs: The WHO Update on Classification and Radiological Review

J. Hwang, MD, Bucheon Republic of Korea; H. Lee, MD; B. Yi, MD, PhD; M. Lee, MD; S. Choi, MD

GIE102
CSF Shunt Complications; What the Abdominal Imager Needs to Know

E. Rinker, MD, Detroit, MI; D. T. Myers, MD; T. Williams, MD

GIE126
Chronic Cholecystitis, "The Silent Time Bomb": US, CT and MR Imaging Findings of Associated Neoplastic and Non Neoplastic Complications

M. G. Vargas Araya, MD, Santiago, Chile; E. Zalaquett, MD; C. O. Menias, MD; M. J. Baladron, MD; A. Huete Garin, MD; I. Beddings, MD

GIE128
Evaluation of Gallbladder Cancer: Ultrasonography, Computed Tomography, and Magnetic Resonance Imaging

S. Morita, Tokyo Japan; H. Onaya, MD; Y. Arai; M. Sone, MD; S. Sugawara

GIE135
Migration of Pancreaticojejunostomy Silastic Stents into the Bile Ducts after Pancreatoduodenectomy

S. Park, MD, Seoul Republic of Korea; J. Kim, MD; S. Lee, MD; J. Byun, MD; H. Kim, MD; M. Lee, MD

**GIE142**
Sclerosing Cholangitis: Guide to Navigate through Winding and Bumpy Bile Ducts

N. Seo, MD, Seoul Republic of Korea; S. Kim, MD; J. Kim, MD; S. Lee, MD; S. Park, MD; H. Kim, MD

GIE144
Three-Dimensional Ultrasonography of Biliary Tract Disorders

J. Kurian, MD, Bronx, NY; S. J. Frank, MD; B. Taragin, MD

GIE154
Natural History of Colorectal Cancer: How CT Colonography Can Help to Predict Which Lesions Grow Slowly or Rapidly

Y. Watanabe, MD, Tokyo Japan; M. Miyake, MD; M. Oda, MD; T. Sakamoto; G. Inuma, MD, PhD; K. Sugimura, MD, PhD

GIE155
Peri-anal Crohn's Disease: Spectrum of Imaging Findings

M. K. Seale, MBBS, Fitzroy Australia; T. Sutherland, MBBS; A. Galvin, MBBS; W. Lee

GIE159
Radiation Dose and Image Quality for Low Dose Fecal-tagging CT Colonography: A Comparison of Electronic Cleansing between Single-energy and Dual-energy CTC

W. Cai, PhD, Boston, MA; D. Zhang, PhD; B. Liu, PhD; M. E. Zalis, MD

GIE171
Don't Get Thrown for a Loop (US)!: Imaging Findings, Atypical Presentations, Complications of Abdominal Systemic Lupus Erythematosus (SLE)

G. Joshi, MD; C. O. Menias, MD, Scottsdale, AZ; A. K. Hara, MD; K. Sandrasegaran, MD; M. Moshiri, MD; D. S. Katz, MD

GIE176
Low kV CT Imaging of the Abdomen: Benefits, Pearls and Pitfalls

A. R. Seyal, MD; A. Arslanoglu, MD; A. Sahin, MD; S. Abboud, MD; J. M. Horowitz, MD; V. Yaghai, MD, Chicago, IL

GIE177
Material Separation Using Dual-energy CT (DECT): Current and Emerging Applications

M. D. Agrawal, MBBS, MD, Arlington, MA; J. M. Fuentes, MD; M. Patino, MD; P. Patel, MD; Y. Andrabi, MD, MPH; K. Hayano, MD

GIE186
Congestive Hepatopathy: Imaging Findings

M. L. Wells, MD, Rochester, MN; J. Poterucha; E. Fenstad; S. K. Venkatesh, MD, FRCR; P. M. Young, MD; P. A. Araoz, MD

GIE195
LI-RADS v2014: Interpretation and Categorization of MRI Findings Using Hepatobiliary Agents

E. A. Costa, MD, San Diego, CA; A. Shah, BS; M. Tanabe, MD; J. P. Heiken, MD; K. J. Fowler, MD; T. A. Hope, MD

GIE199
Liver Segmentation: A Primer for Radiologists

A. Gotra, MD, Montreal Canada; G. Chartrand, BEng; K. Yu, MD; F. Vandebroucke-Menu, MD; C. Kauffmann, PhD; B. P. Gallix, MD, PhD

GIE200
MELD Allocation System for Liver Transplantation and OPTN Classification of Hepatocellular Carcinoma: What Does a Radiologist Need to Know?

A. D. Sanyal; M. D. Little, MD; J. G. Zarzour, MD; J. R. Frost, MD; J. V. Thomas, MD, MRCP; R. Sanyal, MD, Birmingham, AL

GIE203
Overlap Syndromes of Autoimmune Chronic Liver Disease: What the Radiologist Needs to Know

A. S. Udare, MBBS, MD, Mumbai India; R. R. Badhe; B. K. Paunipagar, MD; S. S. Gaitonde; N. Kamath, MD, MBBS; R. Dholu, MD

GIE205
Trouble Shooting for Arterial Phase Images of Gd-EOB-DTPA Enhanced Liver MR

J. Huh, MD, Anyang-si Republic of Korea; S. Kim, MD; B. M. Yeh, MD; S. Lee, MD; K. Kim, MD; E. Wu, MD

GIE207
WHY CLASSIFY!! The Clinical and Prognostic Implications of Classification Schemes Used in Hepatobiliary and Pancreatic Imaging: A Primer for Radiologists

C. G. Lall, MD, Indianapolis, IN; P. Bhargava, MD; S. Verma, MD; R. Houshyar, MD; M. Helmy, MD; A. Shirkhoda, MD

GIE208
Associating Liver Partition and Portal Vein Ligation for Staged Hepatectomy (ALPPS): Review, Indications and Variations of this Liver Resection Technique

D. T. Marques, MD, Sao Paulo Brazil; L. T. Siqueira, MD; L. C. Zattar, MD; R. O. Franca; M. R. Menezes, MD; G. G. Cerri, MD, PhD

GIE227
Optimal Imaging Method of Preoperative 3DCT for Malignant Liver Tumors

K. Harada, RT, Sapporo Japan; S. Honma, RT; A. Chiba; Y. Oohashi; T. Imai; M. Hatakenaka, MD, PhD

GIE228
Peritumoral Enhancement of Hepatic Tumors and Tumor Lesions: Analysis Based on the Hemodynamics Evaluated by Angiography-assisted CT and Histopathology

K. Kozaka, MD, Kanazawa Japan; O. Matsui, MD; S. Kobayashi, MD; J. Sanada; W. Koda; T. Minami, MD

GIE232
Spectrum of Hepatic Tumors with Delayed Extracellular Enhancement Effect on Hepatobiliary Phase of EOB-enhanced MRI: MR-pathologic Correlation

T. Tonan, MD, Kurume City Japan; K. Fujimoto, MD, PhD; T. Kumabe; S. Nagata, MD; A. Sumi, MD; M. Uchida, MD, PhD

GIE234
Texture Analysis of Solid Abdominal Neoplasms: A Primer

A. R. Seyal, MD, Chicago, IL; A. Arslanoglu, MD; Y. Velichko, PhD; S. Abboud, MD; T. P. O'Donnell; V. Yaghai, MD

GIE235
The Liver in Oncology: Metastasis and Post-Treatment Changes

M. Puig-Povendano, Hospitalet de Llobregat Spain; E. Andia; A. Sanchez Marquez, MD; E. M. Merino Serra, MD; D. Martinez De La Haza, MD; D. Coca Castro, RN, RT

GIE236
To Resect or Not to Resect: The Role of Preoperative Imaging for Evaluation of Colorectal Hepatic Metastases

N. P. Hannemann, DO; M. J. Reiter, DO, San Antonio, TX; R. B. Schwoppe, MD; C. J. Lisanti, MD; P. A. Learn, MD

GIE239
Updates to the Liver Imaging Reporting and Data System (LI-RADS) v2014: The Latest and Greatest

C. S. Santillan, MD, San Diego, CA; C. B. Sirlin, MD

GIE240
What You Need to Know About the Alphabet Soup of Hepatocellular Carcinoma Imaging

A. Arslanoglu, MD, Chicago, IL; A. R. Seyal, MD; A. Sahin, MD; F. D. Gonzalez Guindalini, MD; F. H. Miller, MD; V. Yaghai, MD

GIE248
Diffusion-weighted Imaging in the Gastrointestinal Tract and Peritoneum: How, When, and Why?

M. C. Ageitos Casais, MD, Santiago De Compostela Spain; S. Baleato Gonzalez, MD; R. Garcia Figueiras, MD; J. Vilanova, MD, PhD; C. Villalba Martin, MD

GIE254
GI Upset: Drug-induced Injury in the Abdomen

M. J. McGettigan, MD, Springfield, IL; C. O. Menias, MD; A. K. Shanbhogue, MD, MBBS; A. K. Hara, MD; K. Sandrasegaran, MD; V. M. Mellnick, MD

GIE255
How to Manage a Splenic Nodule? C. Ridereau-Zins, MD, Angers France; J. Hoareau, MD; P. Tchouante I; C. R. Nedelcu, MD; C. Aube, MD, PhD**GIE259**
Infectious Mimics of Abdominal Neoplasms: What to Look for

J. J. Kraeft, MD, Boston, MA; P. F. Hahn, MD, PhD

GIE267
Radiology for Dysphagia: When the Endoscopy Cannot Help

A. I. Carbo, MD, Shreveport, LA; S. Naeem, MD; M. Chadha, MD, MBBS

GIE270
The Fluoroscopic Swallowing Examination: Imaging Findings Essential to Decide and Drive the Rehabilitative Process

A. I. Carbo, MD, Shreveport, LA; M. Morgan; M. C. Gates, MD; T. Gates, MD

GIE272
The Not So Silver Lining: The Spectrum of Peritoneal Disease in the Adult

K. Darras, MD, Vancouver Canada; T. M. Walshe, FFR(RCSI); P. McLaughlin, FFR(RCSI); S. D. Chang, MD; A. C. Harris, MBChB

GIE277

Tumor and Tumor-like Conditions of the Anal and Perianal Canal Is
C. O. Menias, MD, Scottsdale, AZ; K. M. Elsayes, MD; A. K. Hara, MD; A. Z. Kielar, MD; V. R. Surabhi, MD; K. Sandrasegaran, MD

GIE291

Unusual Types of Non-alcoholic and Non-biliary Pancreatitis - A Clinico-radiological Spectrum
C. B. Kulkarni, MBBS, MD, Cochin India; S. Moorthy, MD; S. K. P, MBBS, MD; R. R. Kannan, MD; S. B. Thakar, MBBS

GIE302

Duodenal Imaging: An Alphabet of Pathology (Part I)
D. Andrade, MD, Coimbra Portugal; L. C. Andrade; J. Brito, MD; L. Curvo-Semedo, MD, PhD; F. Caseiro-Alves

GIE312

Monitoring Crohn's Disease with Cross Sectional Imaging: Still A Lot of Room to Grow
J. Rimola, MD, Barcelona Spain; T. Ripollés, MD; S. Rodriguez, MD; M. Cuatrecasas; I. Ordas; J. Panes

GIE320

Small Bowel Cases for Aces: Acute Small Bowel Pathologies in Adults
S. C. Lee, MD, New York, NY; A. K. Shambhogue, MD, MBBS; C. O. Menias, MD; K. Sandrasegaran, MD; N. Fasih, MBBS; N. Lalwani, MD

GIE322

Spread Patterns on MDCT in Gastric Carcinoma: Everything a Radiologist Needs to Know
M. G. Santamarina, MD, Valparaíso Chile; I. Beddings, MD; S. E. Rinaldi; H. Opazo Sanchez, MD; M. Volpacchio, MD; C. O. Menias, MD

HPE001-B

Treating for Two? How to Manage Contrast Reactions in Pregnant Patients
J. K. Bisla, MD, Chicago, IL; J. M. Horowitz, MD; F. H. Miller, MD; C. B. Harmath, MD; N. A. Hammond, MD; V. Yaghamai, MD

HPE008-B

Contrast Enhanced Ultrasound as a 24/7 Service. How to Set It Up
D. D. Cokkinos, MD, Athens Greece; E. Antypa; C. Sierrou, MD; S. V. Benakis, MD; A. Skoula; P. Pipero-poulos, MD, PhD

HPE101

Radiology Reimbursement Decoded: What you Need to Know but Were Afraid to Ask
A. D. Wadgaonkar, MD, Baltimore, MD; D. M. Yousem, MD

HPE104

ACR Imaging 3.0 Preparedness: How Good are Your Communication Skills?
C. S. Lee, MD, San Francisco, CA; R. Woods, MD, MPH; B. D. Gale, MD; P. G. Nagy, PhD

HPE105

Contrast Extravasation: Management Guidelines for the Radiologist
K. W. Shaqdan, MD, Boston, MA; S. Aran, MD; A. K. Singh, MD; E. Hassanzadeh, MD; H. H. Abujudeh, MD, MBA

HPE106

Dose Optimization for Personnel during Interventional Procedures
S. Slegers, MSc, Dordrecht Netherlands; E. Leung, PhD

HPE116

Billing Compliance for Radiologists
B. D. Gale, MD, Bronx, NY; S. A. Waite, MD; D. L. Reede, MD

HPE135

The Ins and Outs of Imaging Potentially Retained Surgical Items
W. Walter, MD, Bronx, NY; S. Sprayregen, MD; J. M. Levsky, MD, PhD; E. Amis Jr, MD; L. B. Haramati, MD, MS

INE040-B

The State-of-the-Art and Recent Advances in Pulmonary Image Analysis Techniques
Z. Xu, PhD, Bethesda, MD; U. Bagci, PhD, MSc; A. Mansoor, PhD; B. Foster; G. Z. Papadakis, MD; J. K. Udupa, PhD

INE041-B

Computerized Detection and Classification of Pulmonary Pathologies from CT Images: Current Approaches, Challenges, and Future Trends
A. Mansoor, PhD, Bethesda, MD; U. Bagci, PhD, MSc; Z. Xu, PhD; B. Foster; G. Z. Papadakis, MD; K. Olivier

INE109

Teaching Radiology Using Instagram
S. Ranginwala, MD, Cincinnati, OH; A. C. Mellow Jr, MD; A. Towbin, MD

INE120

Fundamentals of Texture Analysis and Potential Uses in Clinical Imaging
H. Yu, MD, Boston, MA; K. Buch, MD; B. T. Tischler, MD; N. Dagnawala, MD; B. Li, PhD; H. Jara, PhD

INE123

Multi Material 3D Printing to Create Anatomic Models for Patient Education and Pre-surgical Planning
D. Hwang, PhD, Los Angeles, CA; K. Nguyen; S. McBirney; B. Desai, MBBS, MS; V. A. Duddalwar, MD, FRCR

MKE007-B

Diagnosing Shoulder Arthritis: Beyond DJD and HADD
E. Hartman, MD, Madison, WI; K. W. Davis, MD; J. D. Dale, MD; K. McKown, MD; M. J. Tuite, MD; H. G. Rosas, MD

MKE021-B

Total Ankle Arthroplasty: A Radiologic Overview
K. Chun, Seoul Republic of Korea; Y. Choi, MD, PhD; M. Kim, MD; H. G. Potter, MD; J. Kim; K. Yang

MKE108

Sonography and Ultrasound Interventions in Gout
A. A. Simoncini, MD, Shreveport, LA; G. P. Sangster, MD; C. H. Prevgigliano, MD; C. A. Bartoletti, MD; A. Hollister, MD; J. W. Skweres, MD

MKE111

Elbow Injuries in Adult and Pediatric Overhead Athletes
D. Lin, MD, New York, NY; J. K. Kazam, MD; T. T. Wong, MD

MKE112

Extrinsic Wrist Ligaments for Dummies: Detailed Anatomy on Dissection, Function, and MR Imaging
A. Milants, Brussel Belgium; M. Shahabpour, MD; M. De Maeseneer, MD

MKE117

Injuries of Hand and Wrist Tendons on MR Imaging
P. Gupta, MBBS, Winston-Salem, NC; B. Kiani, MD; L. Lenchik, MD; S. D. Wuerzter, MD, MS

MKE126

Bug vs. Host Disease: Musculoskeletal Infections and Mimickers in Vulnerable Patient Populations
C. E. Kim, MD, Philadelphia, PA; T. A. Gorbachova, MD; C. B. Mulhern Jr, MD

MKE197

Quality Improvement in Dual X-ray Absorptiometry (DXA): Approach to Artifacts
P. J. Benfield, MD, Winston-Salem, NC; S. D. Wuerzter, MD, MS; B. Kiani, MD; L. Lenchik, MD

MKE129

Side Effects of Drugs on Musculoskeletal System
J. Calatayud, MD, Madrid Spain; M. A. Ruiz De Gopegui, MD; D. Exposito, MD; D. Pereira Boo; B. Alvarez De Sierra Garcia, MD; J. Sanchez Hernandez

MKE134

Clinical Utility of CT in the Identification of Normal and Abnormal Anatomy of the Knee: Spectrum of Knee Pathology Identifiable on Dual Energy CT Scans
S. Rai, BSC, Vancouver Canada; P. McLaughlin, FFR(RCSI); S. Nicolaou, MD

MKE140

Kinesiology of Knee Fat Pads - Normal Fat Pads Movements as Observed during Dynamic Ultrasound Examination
W. A. Bhatti, MBBS, Manchester United Kingdom; G. S. Ahmad, MBChB; S. R. Ahmad; J. Naqvi, BSC, MBBS; R. Braham Chaouch, MD; M. Mubashar, MBBS, FRCR

MKE144

Peri-patellar Fat Impingement: Anatomy, Imaging and Significance
L. E. Diaz, MD, Needham, MA; W. F. Arndt III, MD; A. R. Goud, MD; F. W. Roemer, MD; A. Guermazi, MD, PhD

MKE156

Ankle Trauma: What Radiology Residents Need to Know
P. Adapa, MD, Omaha, NE; M. N. Manzer, MD; T. M. Cullen, MD; A. Kamali, MD

MKE164

Current Concepts of Total Ankle Arthroplasty for Radiologists
H. Mulcahy, MD, Seattle, WA; F. S. Chew, MD; J. A. Porrino Jr, MD

MKE169

Foot for Thought: Metatarsalgia Imaging and Intervention
H. Almutairi, MD, Burlington, MA; I. Justaniah, MD, MA; R. J. French JR, MD; D. Elenuck, MD

MKE176

MR Imaging of Intraarticular Ankle Impingement Lesions: A Pictorial Review
M. Tafur, MD, San Diego, CA; B. K. Huang, MD; E. Y. Chang, MD

MKE186

Topographic Relationship and Compression Syndromes of the Plantar Nerves: MR and US with Anatomical Correlation
M. De Maeseneer, MD, Jette Belgium; S. Marcellis, MD; J. De Mey; M. Shahabpour, MD; E. Cattrysse

MKE192

Bone Densitometry: A Resident's Guide to Common Pitfalls and How to Avoid Them
S. Desouches, DO, Kansas City, MO; W. Alikhan; J. L. Sanchez, MD; M. A. Stull, MD

MKE239

Pain in the Butt: A Review of Extra-Articular Hip Pain
R. J. Bartolotta, MD, New York, NY; A. S. Ha, MD

MKE201

Artifacts in Musculoskeletal Ultrasonography
L. H. Gimber, MD, Tucson, AZ; D. Melville, MD; L. R. Scalcione, MD; R. S. Witte, PhD; H. Arif Tiwari, MD; M. S. Taljanovic, MD

MKE204

Bone Marrow Signal Changes on MRI: What Is Normal?
F. Del Grande, MD, MBA, Baltimore, MD; L. M. Fayad, MD

MKE205

Brachial Plexus: MRI and Ultrasound Evaluation and the Clinical Impact. Demonstrating Imaging Technique, Anatomy & Pathology. Six Year Review of Both Ultrasound and MRI Findings of the Brachial Plexus in the Same Patients
M. Cresswell, MBBS, Vancouver Canada; M. M. Chiavaras, MD, PhD; J. A. Jacobson, MD; D. T. Murphy, MD, FRCP; R. Dionello, MBBS, FRCR

MKE206

Clavicle Fractures: A Review of Imaging, Treatment, and Complications
C. Ma, MD, Los Angeles, CA; B. E. Plotkin, MD; B. D. Levine, MD; L. L. Seeger, MD; K. Motamedi, MD

MKE210

Imaging Review: Running Injuries, Hip to Toe
B. Morin, DO, Rochester, NY; B. S. Talbot, MD; G. M. Hollenberg, MD; V. Kheyfets, MD

MKE211

Impingement Syndromes of the Lower Extremity: The Great Masqueraders
G. Bajaj, MBBS, Little Rock, AR; R. Ram, MD; C. L. Guidry, MD; M. H. Patel, DO; K. Jambhekar, MD; T. Pandey, MD, FRCR

MKE216

MRI-Neurography: Why Is It Necessary to include a Diffusion-weighted Imaging Approach?
T. Martin, MD, Jaen Spain; A. Luna, MD; J. Broncano, MD; J. P. Martinez Barbero, MD, PhD

MKE221

Rock Climbing Injuries - Acute and Chronic Repetitive Trauma
C. Y. Chang, MD; A. J. Huang, MD; M. Torriani, MD, Lincoln, MA

MKE227

Triathlon Injuries: Trauma and Overuse Injuries of the Upper and Lower Extremities
D. Hayashi, MBBS, PhD, Bridgeport, CT; S. Scheepers, MBChB, FFRAD(D) SA; A. Guermazi, MD, PhD; F. W. Roemer, MD; R. V. De Villiers, MMed

MKE235

Imaging Characteristics of the Normal and Torn Ligamentum Teres on Hip MR Arthrography
R. Shields, MD, Rochester, NY; B. Giordano, MD; V. Kheyfets, MD

MKE299

Pain in the Butt: A Review of Extra-Articular Hip Pain
R. J. Bartolotta, MD, New York, NY; A. S. Ha, MD

MKE240

Piriformis Syndrome: What Are We Imaging? A Review of Primary and Secondary Causes
E. S. Kwak, MD, Fort Lee, NJ; J. K. Kazam, MD; T. T. Wong, MD

MKE251

Inferior Glenohumeral Ligamentous (IGHL) Complex - Anatomy, Injuries, and Adhesive Capsulitis
G. Passanante, MD, Los Angeles, CA; G. R. Matcuk Jr, MD; D. B. Patel, MD; E. A. White, MD; D. M. Forrester, MD; M. R. Skalski, DC

MKE256

Subscapularis: All about the Forgotten Rotator Cuff Tendon
M. Ereno Ealo, MD, Galdacano Spain; A. Sanchez Sobrino; O. Casado Verdugo; R. Rodrigo Del Solar; E. Llopi, MD; S. Martin, MD

MKE262

Atypical MR Findings of Early Spondylodiscitis Mimicking Other Lesions
H. Suh, MD, Pusan Republic of Korea; I. Lee; Y. Song; J. Song

MKE277

Angle-sensitive Magnetic Resonance Imaging of Articular Cartilage (ASMRIC)
N. Garnov, Leipzig Germany; W. Gruender, PhD; T. K. Kahn, MD; H. F. Busse, PhD

MKE281

Current Techniques in Percutaneous Image-guided Treatment of Benign and Malignant Lesions of the Spine
K. A. Lee, MD, Saint Louis, MO; A. Gangi, MD, PhD; M. V. Friedman, MD; T. J. Hillen, MD; J. W. Jennings, MD

MKE282

Diffusion Weighted MRI: MSK Applications - Merits and Disadvantages
A. Chhabra, MD, Dallas, TX; S. Fisher, MD; R. N. Joodi, MD; L. Tenorio, MD; G. Cho Sims, MD

MKE290

Opportunities and Limitations with Interventional MRI Performed at 3 Tesla
J. N. Morelli, MD, Baltimore, MD; J. A. Carrino, MD, MPH; J. S. Lewin, MD; J. Fritz, MD

MKE297

The Sural Nerve: A Review of Anatomy, Pathology, and Intervention
M. G. Rodriguez, MD, Birmingham, AL; T. A. Mearthur, MD; J. L. Millsap, MD

MKE298

The Union Gap: What Radiologists Need to Know about Bone Grafting and Osteogenesis
X. S. Bai, MD, Seattle, WA; S. Parsian, MD; J. M. Petscavage-Thomas, MD, MPH; F. S. Chew, MD; A. S. Ha, MD

MKE302

Ultrasound of Peripheral Nerves of the Upper Extremity: A Landmark Approach
J. Brown, MD, Ann Arbor, MI; C. M. Yablon, MD; M. R. Hammer, MD; C. J. Brandon, MD; Y. Morag, MD; J. A. Jacobson, MD

MKE303

Ultrasound of the Peripheral Nerves of the Lower Extremity: A Landmark Approach
M. R. Hammer, MD, Ann Arbor, MI; C. M. Yablon, MD; Y. Morag, MD; C. J. Brandon, MD; M. Kalume Brigido, MD; J. A. Jacobson, MD

MKE332

Role of Imaging in Non-surgical Management of Desmoid Fibromatosis
M. Braschi Amirfarzan, MD, Watertown, MA; S. Tirumani, MBBS, MD; A. B. Shinagare, MD; M. H. Rosenthal, MD, PhD; N. H. Ramaiya, MD; J. Jagannathan, MD

MKE334

Skin Deep: Radiologic Pathologic Correlation of Epidermal Inclusion Cysts in the Extremities
B. Ritchie, MD, San Antonio, TX; L. T. Mansfield, MD; S. Peckham

MKE336

Spectrum of Fat-Containing Soft Tissue Masses on MRI: The Common, the Characteristic, and the (Sometimes) Confusing
T. Potti, MD, Winston Salem, NC; D. A. Pacholke, MD

MKE340

Whole Body MRI (WB-MRI) for Detecting Bone Metastases: Usefulness of Fused Coronal Images of Diffusion-weighted Images (DWI) and T1-weighted Images (T1-WI)
K. Nakanishi, MD, PhD, Osaka Japan; Y. Tanaka, MD; T. Nakazawa, MD; T. Ueda, MD; K. Oshima, MD, PhD; N. Tomiyama, MD, PhD

MSE002-B

Reshaping Individualized Medicine: 3D Printing Integration of Anatomic Models in Care of Complex Patients
J. S. Matsumoto, MD, Rochester, MN; J. M. Morris, MD; T. A. Foley, MD; T. J. Vrtiska, MD; E. E. Williamson, MD; S. Leng, PhD

MSE106

A Wolf in Sheep's Clothing: Tumor in the Abdomen Mimicking Benign Conditions
S. K. Oh, MD, New York, NY; Z. J. Ricci, MD; J. H. Roberts, MD; V. Chernyak, MD; A. M. Rozenblit, MD; F. S. Mazzariol, MD

MSE112

'If You Hear Hooves, Should you Only Think of Horses?' A Case-based Review of Lymphoma Mimicking Other Tumor Types
A. A. Sergyot, MBBS, FRCR, London United Kingdom; T. D. Barwick, MBChB; N. Bharwani, MBBS, FRCR; N. H. Strickland, MD; D. MacDonald, MBChB, PhD; K. Naresh, MBBS, MD

MSE113

Imaging of Solitary Fibrous Tumor in Various Organs: A Comprehensive Review
S. Nagata, MD, Kurume Japan; H. Nishimura, MD; K. K. Amrami, MD; K. Hiraoka; J. Akiba; A. Sumi, MD

MSE116

New Tumor Response Criteria in the Era of Targeted Therapies in Oncology
T. Tirkes, MD, Indianapolis, IN; T. A. Hameed, MD; F. Akisik, MD

MSE121

The Post-Visceral Transplant Neoplasias: A Review
J. Mansour, Beirut Lebanon; C. O. Menias, MD; V. R. Surabhi, MD; V. S. Katabathina, MD; K. Sandrasegaran, MD; A. M. Shaaban, MBBS

MSE129

Avoiding Tunnel Vision: Extra-Spinal Findings on Lumbar Spine Imaging
N. Gowali, MD, Morristown, NJ; G. P. Parikh, MD; E. B. Smith, MD; M. O. Cosentino, MD; N. B. Horner, MD

MSE137

Harmful Bubbles: Decompression Illness—What The Radiologist Needs To Know
M. G. Santamarina, MD, Valparaíso Chile; C. I. Echeverria; M. Marra, MD; I. Beddings, MD; A. Ceriani; M. Volpacchio, MD

MSE151

Perfusion CT: Methodology, Acquisition Protocols, Post Processing Techniques, and Practical Clinical Considerations
A. D. Faulkner, MD, Los Angeles, CA; K. Kudo, MD; Q. Yang, PhD; A. F. Ismail, MD; V. J. Goh, MBBS; F. Saremi, MD

MSE155

Rescanning an Egyptian Mummy Surrounded by Controversy Provides New Insights through Advances in Image Acquisition and Post-processing Analysis
C. W. Westin, MD, Chicago, IL; S. M. McCann, MD; D. Jahangir, MD; E. Teeter, PhD; M. Greuel; M. W. Vanier, MD

MSE158

Surgical Implantable Devices and Other Foreign Bodies: Test Your Knowledge
B. G. Northcutt, MD, Baltimore, MD; D. P. Seeburg, MD; A. Shahid, MD





MSE161
The Dying Art of Plain Film Radiography Interpretation: Top 100 Plain Film Tips for Residents by Residents

M. Twomey, MBChB, FFR(RCSI), Cork Ireland; F. G. Moloney, MBCh, MRCP; J. Murphy, MBCh, MRCP; P. Nicholson, MBCh; M. M. Maher, MD, FRCR

NME104
Radionuclide Ventilation and Perfusion SPECT & SPECT/CT Imaging: Patterns, Variants & Artefacts

R. Mandegaran, MBBS, London United Kingdom; K. Agrawal, MBBS, MD; C. Sibley-Allen, MSc; D. Dasgupta, MRCP, FRCR; G. Gnanasegaran, MD

NME114
C-11 Choline PET/CT: Everything with Uptake Is Not Prostate Cancer

E. L. Cullen, MD, Byron, MN; G. B. Johnson, MD, PhD; C. L. Welle, MD; R. C. Murphy, MD, PhD; V. J. Lowe, MD; L. A. Binkovitz, MD

NME120
Fluorine-18 Sodium Fluoride: Resurgence and Clinical Utility

A. M. Sevaio, MBChB, Auckland New Zealand; R. C. Lim, MBChB

NME121
Follow the Yellow Brick Road: PET-CT Demonstration of Pathways of Lymphatic Spread of Malignant Pelvic Neoplasms

K. P. Banks, MD, San Antonio, TX; L. T. Mansfield, MD

NME123
Multimodality Imaging and Pathophysiology of Tauopathies

C. A. Tiegs-Heiden, MD; E. L. Martin-Macintosh, MD, Rochester, MN; C. H. Hunt, MD; G. B. Johnson, MD, PhD; P. J. Peller, MD

NME124
Non-FDG Avid Malignancy on PET/CT: Pitfalls and Prognostic Significance

R. R. Flavell, MD, PhD, San Francisco, CA; D. M. Naeger, MD; C. Mari Aparici, MD; R. A. Hawkins, MD, PhD; S. C. Behr, MD

NME126
PET/CT Imaging of Cutaneous Diseases

L. Walkoff, MD, Rochester, MN; J. Lehman; C. H. Hunt, MD; G. B. Johnson, MD, PhD; P. J. Peller, MD

NME127
PET/MR for the Body Imager: Abdominal and Pelvic Applications

T. J. Fraum, MD, Saint Louis, MO; K. J. Fowler, MD; J. E. McConathy, MD, PhD; E. E. Parent, MD, PhD; M. Grimaldi; F. Dehdashti, MD

NME129
Positron Emission Tomography (PET) Imaging of Lymphoproliferative Disorders: An Overview with Rad-path Correlation

A. Lyall, MBBS, New York, NY; M. Ichise, MD

NME133
Spectrum of Articular and Periarthritic Findings on F18 FDG PET/CT

M. White, MD, Rochester, MN; S. M. Broski, MD; B. M. Howe, MD; C. H. Hunt, MD; P. J. Peller, MD; G. B. Johnson, MD, PhD

NME134
SUV: Everything You Wanted to Know but Afraid to Ask!

P. Ziai, MD, Darby, PA; M. Hayeri, MD; O. Teytelboym, MD

NME135
The Latest Imaging Assessment for Anti-Tumor Therapy: Therapeutic Response for Various Tumors Using PET/CT or PET/MRI

M. Yanagawa, MD, PhD, Suita Japan; T. Watabe; K. Isohashi; O. Honda, MD, PhD; J. Hatazawa, MD, PhD; N. Tomiyama, MD, PhD

NRE013-B
Predicting the Spread of Glioma Tumors: Insights from the Pre-frontal Cortex (BA 10)

L. Chavali, BS, Houston, TX; P. Wangyattawanich, MD; M. R. Kaleel, MD; S. Prabhu, MD; A. J. Kumar, MD; L. Hayman, MD

NRE018-B
Diagnostic Value of Contrast-Enhanced Fluid Attenuated Inversion Recovery Imaging

E. Lee, Goyang-Si Republic of Korea; B. Jeong; E. Lee III; D. Kim, MD

NRE027-B
Imaging Considerations for Robotic Thyroidectomy: What the Thyroid Surgeon Wants to Know

S. Chong, MD, Seoul Republic of Korea; K. Kang; S. Kim, MD; J. Seo; Y. Kim, MD

NRE100
"Dual Energy CT" - A Boon to Clinical Advances in Neuroimaging

V. D. Bachhav, MBBS, Chicago, IL; A. A. Patil, MBBS, MD; S. E. Byrd, MD; M. D. Jhaveri, MD; M. P. Supanich, PhD

NRE105
Clinical Impact of Iterative Model Reconstruction for CT Brain Examinations: Usefulness of Thin-Slice Images for Emergency Neuroradiology

T. Nakaura, MD, Amakusa Japan; M. Kidoh; S. Tokuyasu, RT; S. Uemura; K. Harada; Y. Yamashita, MD

NRE111
Integrated PET-MRI for Clinical Epilepsy Patients: How We Do It

T. M. Shepherd, MD, PhD, New York, NY; K. P. Friedman, MD; C. Glielmi, PhD; D. D. Faul, PhD; K. Jackson; Y. Ding, PhD

NRE113
Multimodal Neuroimaging of Intractable Epilepsy: A Primer and Update

T. Nishiguchi, MD, PhD, Penrith Australia; M. Morino, MD, PhD

NRE117
Resting State fMRI: Principles, Applications and Pitfalls

B. Vachha, MD, PhD, Boston, MA; B. R. Buchbinder, MD; M. Larvie, MD, PhD; N. Tanaka, MD, PhD; M. N. DeSalvo, MD, PhD; O. Rapalino, MD

NRE124
"Little Brain": Evaluation of Sporadic Cerebellar Atrophy

D. Pechersky, MD; J. D. Reid, MD, Brooklyn, NY; D. L. Reede, MD; S. Pulitzer, MD; W. R. Smoker, MD

NRE146
Multimodality Review of Amyloid-Related Diseases of the Central Nervous System

A. L. Sipe, MD, Saint Louis, MO; S. E. Connolly, MD; T. S. Benzinger, MD, PhD; J. E. McConathy, MD, PhD; M. M. Miller-Thomas, MD

NRE147
Neurons under Attack: Autoimmune Mediated Encephalopathy

J. Starkey, MD, San Francisco, CA; J. Kim, MD; T. Moritani, MD, PhD

NRE149
Neurosarcoidosis: A Great Mimicker!

A. R. Joshi, MD, MBBS, Mumbai India; S. Deshpande, MBBS; D. Kulkarni; T. Dedhia; J. S. Bava

NRE157
Brain Asymmetry in Newborns: Radiological Items for a Rational Diagnostic Evaluation. Case Series and Literature Review

R. Calandrelli, Rome Italy; G. D'Apollito, MD; M. Panfili; G. M. Di Lella, MD; A. Pedicelli, MD; T. Verdolotti

NRE159
Congenital and Developmental Brain Abnormalities

H. Mamata, MD, PhD, Boston, MA; V. L. Jewells, DO

NRE186
The Cocci has Moxie: Central Nervous System Coccidioidomycosis and Approach to the Differential

S. Channul, MD, Los Angeles, CA; J. C. Huang, MD; G. M. Hathout, MD

NRE189
A Dozen Cranial Nerves with Dozens of Schwannomas: Diagnostic Approach to Intracranial and Skull Base Cranial Nerve Schwannomas

A. Skolnik, MD, Philadelphia, PA; K. Learned, MD; L. J. Bagley, MD; L. A. Loevner, MD

NRE193
Case in the Base: Skull Base Tumors - A Radiological Approach

P. M. MBBS, DMRD, Bangalore India; P. C. Pokar; Z. A. Assis, MBBS, MD; S. Kumaran, MBBS, MD; S. Viswamitra, MD

NRE201
Infant Brain Tumors: Atlas of Radiographic Findings with Histological Correlation

D. R. Pettersson, MD; T. G. Kelly, MD; A. Amir, MD; V. Zherebitskiy, MD; D. M. Bardo, MD, Chicago, IL

NRE202
Lesions of the Petrous Bone: Clues to Narrowing the Differential Diagnosis

G. De La Vega Muns, MD, Miami, FL; N. M. Gutierrez, MD; J. A. Chuy, BA, MD; C. Sidani, MD

NRE207
Outlaws in the Saddle: Tumors and Cancer Related Diseases of the Pituitary

K. B. Shah, MD, Houston, TX; C. H. Kim, MD; S. Waguespack, MD; T. Chi, MD; I. McCutcheon, MD

NRE218
Uncommon and Unusual Lesions of the Pineal Region

G. De La Vega Muns, MD, Miami, FL; G. M. Saigal, MBBS; R. G. Bhattia, MD

NRE229
High Resolution 3D Magnetic Resonance Imaging of the Oculomotor Nerve: Segmental Anatomic and Pathologic Considerations

M. Kontzialis, MD, Baltimore, MD; A. F. Choudhri, MD; V. R. Patel, MD; P. Subramanian; G. Gallia; M. Ishii, MD

NRE237
Is Magnetoencephalography for Radiologists? Yes!

J. A. Gadde, DO, Newark, DE; W. C. Gaetz, PhD; T. Roberts, PhD; E. S. Schwartz, MD

NRE238
Law and Order - Neuroimaging: Understanding and Minimizing Risk for the Neuroradiologist

R. Finkelstone, MD, New York, NY; D. S. Chow, MD; A. D. Shah, MD

NRE239
Like a Hole in the Head: An Anatomical Approach to Calvarial Lesions

A. P. Patel, MD, Saint Louis, MO; T. P. Madaelil, MD; J. W. Berger, MD; M. S. Parsons, MD

NRE252
When to Call the (Spinal) Plumber?: Spontaneous Intracranial Hypotension, Typical and Unusual Cases of Spinal Leak, and Blood Patch Treatment

M. Brus-Ramer, MD, PhD, San Francisco, CA; E. L. Yuh, MD, PhD; J. F. Talbot, MD, PhD; W. P. Dillon, MD

NRE256
The Interface of Clinical Neurology and Neuroradiology in Classic Ischemic Stroke Syndromes: Where Do You Localize the Lesion?

P. Rodriguez, MD, San Antonio, TX; V. Misra, MD; M. P. Valencia, MD; B. Tantiwongkosi, MD

NRE264
Snot So Bad: Paranasal Sinus Normal Anatomy, Important Anatomic Variants, and What the Endoscopic Surgeon Wants to Know before and after Endoscopic Sinus Surgery

W. D. Hwang, MD, Seattle, WA; M. Mossa-Basha, MD; G. E. Davis; Y. Anzai, MD

NRE268
Imaging of Benign Jaw Lesions and Tumor-like Processes with Pathologic Correlation

C. I. Logie, MD, Silver Spring, MD; E. A. Walker, MD; M. J. Mimm, MD; M. D. Murphey, MD

NRE269
Imaging of the Congenital Anomalies of the Facial Nerve (CN7): How to Make Sure Your Favorite Surgeon Does Not Hit CN7 during His Procedure?

A. Venkatasamy, Strasbourg France; M. De Almeida Cavalcanti; S. C. Riehm, MD; F. P. Veillon, MD

NRE277
Comprehensive Imaging Assessment of the Post-operative Orbit, Pearls and Pitfalls

F. Nasser, MD, Philadelphia, PA; S. Nabavizadeh; L. A. Loevner, MD; Y. J. Chen, MD; A. Vossough, MD, PhD; S. Mohan, MD

NRE281
MR Imaging Characteristics of Typical and Atypical Intraorbital Neoplasms

J. Dorr, MD, San Jose, CA; P. Krishnarao, MD; R. P. Pandit, MD; M. R. Patel, MD

NRE284
Pitfalls in Ultrasound Diagnosis of Major Salivary Glands Diseases

E. J. Bialek, MD, PhD, Warsaw Poland; W. Jakubowski, MD, PhD

NRE298
Getting an Ear Full: Imaging Features of Tympanosclerosis

M. Cathey, MD, Madison, WI; T. A. Kennedy, MD; S. P. Gubbels, MD; L. R. Gentry, MD

NRE304
An Imaging Checklist and Algorithm for Accurate Staging of Laryngeal Squamous Carcinoma in the Era of Laryngeal Conservation: What Really Matters and Why?

S. Arya, MD, Mumbai India; A. P. Gupta, MBBS; H. Kuno, MD; S. K. Mukherji, MD

NRE306
Clinical Presentation and Imaging Findings of Chronic Sclerosing Sialadenitis for Smart Diagnosis and Therapy for IgG4-related Diseases

E. Iida, MD, Ube Japan; M. Furukawa, MD; T. Ueda; M. Tanabe, MD; Y. Kunihiro, MD; N. Matsunaga, MD, PhD

NRE308
Determination of Unresectability in Head and Neck Cancer with Imaging

H. Kuno, MD, Kashiwa Japan; H. Ojiri, MD; H. Onaya, MD; K. Sekiya, DDS, PhD; S. Fujii, MD, PhD; M. Kusumoto, MD

NRE312
Extension Patterns of Oral Cavity Carcinoma in the Mandible and Its Clinical Significance

K. Sekiya, DDS, PhD, Kashiwa-shi Japan; H. Kuno, MD; S. Fujii, MD, PhD; T. Kaneda, DDS, PhD; M. Kusumoto, MD; R. Hayashi, MD, PhD

NRE317
How to Assess and Report Upper Aerodigestive Tract Carcinomas: A Case-based Interactive Tutorial

J. Ziegelbein, MD, MS, Iowa City, IA; W. R. Smoker, MD; L. R. Gentry, MD; D. L. Reede, MD

NRE324
Seeing is Believing: Laryngeal Carcinoma Imaging and Laryngoscopy Correlation

M. Cathey, MD, Madison, WI; T. A. Kennedy, MD; G. Hartig, MD; P. M. Harari, MD; S. Dailey; W. R. Smoker, MD

NRE328
Ultrasound Surveillance of the Thyroid Cancer Patient: Review of Technique and Common Pitfalls

P. G. Mulugeta, MD, Philadelphia, PA; L. P. Jones, MD, PhD; J. E. Langer, MD

NRE333
A "Window" into Temporal Bone Pathology: Imaging of the Normal Anatomy and Pathology of the Oval and Round Windows of the Temporal Bone

B. Vachha, MD, PhD, Boston, MA; A. S. Khorsandi, MD; G. Moonis, MD

NRE339
Flaps in Head and Neck Oncology Surgery. How to Recognize the Normal Findings on CT

E. C. Montano Claure, MD, Barcelona Spain; D. Rodriguez Bejarano; L. Valoyes Guerrero, MD; L. Aja, MD; S. Aizut; P. Mora Jr, MD

NRE347
The Route to Expression, Taste and Salivation: The Journey of the Facial Nerve

T. Mistry, MBBS, FRCP, London United Kingdom; D. St Leger, MBCh, BMedSc; R. K. Lingam, MRCP, FRCP

NRE350
Ultrasound-guided Biopsy of the Neck Lesions: The Perspective of the Head and Neck Neuroradiologist

K. Learned, MD, Philadelphia, PA; A. S. Lev-Toaff, MD; J. E. Langer, MD; L. A. Loevner, MD

NRE361
MR Imaging of Non Compressive Myelopathy

G. Agrawal, MD, Saint Louis, MO; A. L. Sipe, MD; A. Sharma, MBBS

NRE366
Spinal Ligamentous Injuries MRI Evaluation

V. S. Pande, MD, Memphis, TN; R. I. Gray, MD; R. M. Kedzierski, MD, PhD; S. Sankar; G. S. Goodin, MD

NRE369
T2 Hyperintense Lesions of Spinal Cord- Myelitis, Myelomalacia and More...MRI Pattern Recognition

Z. A. Assis, MBBS, MD, Bangalore India; S. Kumaran, MBBS, MD; S. Viswamitra, MD

NRE373
Uncommon Manifestations of Disc Pathology

F. E. Diehn, MD, Rochester, MN; T. J. Kaufmann, MD; P. H. Luetmer, MD; V. Lehman, MD; K. R. Thielen, MD; C. M. Carr, MD

NRE375
Characterization of Dural Arteriovenous Fistulas of the Spine by MR and DSA: A Pictorial Review

L. A. Rodriguez, MD, LHospitalet de Llobregat Spain; J. J. Sanchez, MD, PhD; D. Rodriguez Bejarano, MD; E. C. Montano Claure, MD; A. Camins, MD; M. De Miquel

NRE381
Multimodality Imaging of Vertebral Basilar Dolichoectasia, Clinical Presentations and Imaging Spectrum: Current Status and Further Prospect

M. M. Samim, MD, MRCS, New Haven, CT; A. Goldstein, MD; M. H. Johnson, MD

NRE383
Revisiting The Cryptic Asymptomatic Parasellar High Flow on Magnetic Resonance Angiography (MRA)

S. Seela Raj, MD, FRCP, Singapore Singapore; I. Ho Mien, MBBS, PhD; J. Ho; L. E. Mcadory, MD, PhD; W. E. Lim; L. Chan, MBBS, FRCP

OBE100
"Fetal Malformations of the External Ears: More Than What It Sounds"

M. A. Calvo-Garcia, MD, Cincinnati, OH; R. Radhakrishnan, MD; A. C. Mellow Jr, MD; B. M. Kline-Fath, MD

OBE112
Current Update on Extracranial Pelvic Serous Carcinomas: Implications for Diagnosis and Management

V. S. Katabathina, MD, San Antonio, TX; F. S. Amanullah, MD; S. R. Prasad, MD; C. O. Menias, MD; P. T. Valente, MD; K. N. Chintapalli, MD

OBE114
Solid Ovarian Neoplasms: Imaging Spectrum with Radiologic-pathologic Correlation

V. R. Surabhi, MD, Houston, TX; V. George, MBBS; C. O. Menias, MD

OBE115
The Revised FIGO Staging System for Cancer of the Ovary, Fallopian Tube, and Peritoneum: Important Implications for Radiologists

T. Saida, MD, Tsukuba Japan; Y. Tanaka, MD; K. Matsumoto, MD; T. Satoh, MD; H. Yoshikawa, MD, PhD; M. Minami, MD, PhD

OBE126
Post-radiotherapy Appearances in Cervical Cancer — the Good, the Bad and the Ugly

I. Papadopoulos, MD, London United Kingdom; N. Soneji, BSC, MBBS; T. D. Barwick, MBChB; V. Stewart; A. G. Rockall, MRCP, FRCP; N. Bharwani, MBBS, FRCP

OBE131
At Your Cervix! What Radiologists Need to Know about Imaging the Cervix in Pregnancy

L. Janicki, MD, Salt Lake City, UT; T. Manuck, MD; M. Rezvani, MD; A. M. Kennedy, MD

OBE133
Complex Genitourinary Anomalies in the Female Fetus: Sex Matters

C. Timberlake, MD; K. Y. Oh, MD; B. Shaffer, MD; R. Sohaey, MD, Portland, OR

OBE136
Imaging of the Gestational Trophoblastic Disease Spectrum: Its Complications and Mimics — Pearls and Pitfalls

P. Krishnarao, MD, San Jose, CA; K. E. Maturin, MD; C. L. Wang, MD; T. S. Desser, MD; E. Rubesova, MD; J. C. Lau, MD

OBE137**Imaging the Placenta: Not as Simple as You Might Think!**

Z. Bowman, MD, PhD; P. J. Woodward, MD; A. M. Kennedy, MD, Salt Lake City, UT

OBE140**More than Neural Tube Defects: Spectrum of Pathology to Consider with Elevated Maternal Serum AFP**

L. E. Romine, MD, San Diego, CA; T. Anton, BS; G. Ramos, MD; D. H. Pretorius, MD

OBE144**Normal and Abnormal Ultrasound of Early First Trimester Pregnancy: Review of SRU 2012 Consensus Panel Recommendations with Imaging Examples**

C. Chang, MD; S. K. Rodgers, MD, Philadelphia, PA; J. T. Debardeleben, MD; M. M. Morrow, MD

OBE154**Common Adnexal Masses Gone Awry**

B. R. Foster, MD, Portland, OR; A. Kirsch, MD; J. Hatfield, MD; K. Y. Oh, MD; A. M. Shaaban, MBBS; R. Sohaey, MD

OBE164**Imaging Features of Tamoxifen Therapy on the Endometrium and Uterus**

N. Dahiya, MD; C. O. Menias, MD, Scottsdale, AZ; M. Moshiri, MD; M. D. Patel, MD; A. M. Shaaban, MBBS; C. L. Siegel, MD

OBE172**MR Defecography: A Comprehensive Review of the Pelvic Floor Anatomy — How To Do It and What to Look For!**

C. A. Heming, MD, Rio de Janeiro Brazil; A. Eiras-Araujo, MD; J. A. Oliveira Neto, MD; R. S. Rodrigues, MD, PhD; D. B. Parente, MD

OBE175**MRI Evaluation of the Female Pelvic Floor: Dynamic Imaging of Normal Function and Dysfunction**

M. J. Yeh, MD, San Francisco, CA; V. A. Arasu, MD; G. Merry, MD, MPH; T. A. Hope, MD; S. Weinstein, MD; R. Aslam, MBBS

OBE179**Role of Imaging in Fertility-sparing Options for Gynecological Malignancies**

M. Qureshi, MBBS, London United Kingdom; N. O. Butterfield, MBBS, MRCP; N. Bharwani, MBBS, FRCR; A. G. Rockall, MRCP, FRCR

OBE186**The Uterus at Multidetector CT—Normal, Abnormal, What Next?**

S. Sheih, MD, Cockeysville, MD; S. F. Coquia, MD; L. C. Chu, MD; U. M. Hamper, MD, MBA; E. K. Fishman, MD

OBE190**What a Mesh! A Radiologist's Guide to Imaging of Surgical Repair for Pelvic Floor Dysfunction**

G. Khatri, MD, Dallas, TX; B. A. Furey, MD, BEng; A. A. Bailey, MD; M. Carmel, MD; M. Foreman; P. E. Zimmern, MD

PDE012-B**Twist and Shout: Imaging Acute Pelvic Pathology in Female Pediatric Patients - Ovarian Torsion and Beyond**

S. Y. Tumu, DO, Milwaukee, WI; T. K. Deshmukh, MD; A. B. Meyers, MD; K. P. Boyd, DO

PDE118**The New Kids on the Block: Childhood Interstitial Lung Disease (ChILD) Classification in 2014 - Introducing the two recent additions: Pleuroparenchymal Fibroelastosis and Filamin A Protein Deficiency**

T. R. Semple, MBBS, BSC, Hatfield United Kingdom; C. M. Owens, MD; M. Ashworth

PDE119**Third Generation Dual Source Scanner for Pediatric Thoracic and Cardiac CT: Technological Improvements and Challenges in Robust Protocol Design**

R. Booi, RT, Rotterdam Netherlands; M. L. Dijkshoorn, RT; M. Van Straten, PhD; N. De Graaf, MD; M. Ouhlous, MD, PhD; G. P. Krestin, MD, PhD

PDE136**Extravesical Ectopic Ureters in Children: The Spectrum of MR Urography (fMRU) Findings**

A. Nioulia, MD, PhD, Philadelphia, PA; M. Bedoya Velez, MD; M. D. Adeb, MD; D. Khrichenko; K. Darge, MD, PhD

PDE146**Renal Pelvic Dilatation (RPD): Normal or Abnormal?**

M. D. Adeb, MD, Bridgeport, CT; J. S. Chow, MD; D. S. Schwartz, MD; K. Darge, MD, PhD

PDE157**MR Imaging of Developmental Dysplasia of the Hip: Goals and Obstacles**

D. G. Rosenbaum, MD, New York, NY; E. A. Bogner, MD; D. N. Mintz, MD

PDE163**Skeletal Manifestations of Fibroblast Growth Factor Receptor (FGFR) Gene Mutations- Can We Predict Genetic Diagnosis on the Basis of Imaging?**

K. M. Sargar, MBBS, MD, Saint Louis, MO; T. E. Herman, MD; M. J. Siegel, MD

PDE164**Sonography of Musculoskeletal Infections in Children**

J. Walsh, MBChB, Pontefract United Kingdom; J. Kraft, MD

PDE168**Where's the Bone?: Diseases of Bone Demineralization in Children**

J. L. Favinger, MD, Seattle, WA; S. L. Done, MD; S. E. Parnell, MD

PDE173**Arterial Spin Labeling and its Application in Pediatric Neuroimaging**

D. Zander, MD, Boston, MA; S. P. Prabhu, MBBS; E. Grant, MD; E. Yang, MD, PhD; B. Gagoski, PhD; R. L. Robertson, MD

PDE180**MR Imaging Spectrum of Retinoblastoma**

S. S. Ghuman, MBBS, MD, Noida India; S. Sud, MBBS; T. B. Buxi, MD; J. V. Zota, MBBS; A. Sud

PDE185**Pediatric Cochlear Implantation. Neuroimaging Evaluation in the Multidisciplinary Assessment of Children with Special Needs**

M. De la Hoz Polo, MD, Tarragona Spain; M. Rebollo, MD; N. Coll Alsina; V. de Diego Almarza; J. Rodriguez Jorge; S. Ourani

PDE191**Biological Characterization of Neuroblastomas Using 18 F FDG PET/CT, 131 -I MIBG and Somatostatin Receptor Imaging and Its Role in Presurgical Staging and Management**

S. A. Shah, Mumbai India; N. C. Purandare, DMRD; A. Agrawal, MBBS; S. A. Medhi, DMRD; V. Rangarajan, MBBS; C. Bongulwar Jr, MBBS

PDE194**From ACS to AVN: A Comprehensive Guide to the Systemic Imaging Characteristics and Radiologic Management of Sickle Cell Disease**

T. M. Cullen, MD, Norwalk, CT; S. M. Bernstein, MD

PDE196**Imaging of Early and Late Effects of Cancer Therapy in Children**

G. B. Chavhan, MD, Toronto Canada; P. S. Babyn, MD; P. Nathan, MD, FRCPC; S. C. Kaste, DO

PDE198**Radiologic-Pathologic Update on Vascular Lesions: A Review of the 2014 Revised Classification of Vascular Tumors and Malformations According to the International Society for the Study of Vascular Anomalies (ISSVA)**

A. C. Morrow Jr, MD, Cincinnati, OH; M. N. Patel, DO; D. M. Adams, MD; A. Gupta

PDE204**Novel and Unique Applications of Contrast Enhanced Ultrasound (CEUS) as a Bedside Problem-solving Tool in the Management of the Acute Pediatric Patient**

A. Deganello, MD, London United Kingdom; E. Konstantatou, MD, MSc; A. Obaro, MBBS; M. E. Sellars, MD, FRCR; P. S. Sidhu, MRCP, FRCR

PDE206**The "DWIBSlight" Saga: Breaking Dawn - Shedding Light on DWIBS Imaging in Pediatric Patients**

M. Epelman, MD, Orlando, FL; C. V. Guimaraes, MD; D. Dinan, MD; C. M. Johnson, DO; L. F. Donnelly, MD

PHE019-B**Evaluation of Radiation Dose in Endovascular Treatment of Thoracic and Abdominal Aortic Aneurysms Using a Hybrid Operating Room System**

Y. Haga, Sendai Japan; K. Chida, PhD; Y. Kaga, RT; E. Kumasaka, BSC; N. Kataoka, BSC; Y. Iwaya

PHE021-B**Strategies for Measuring and Standardizing Image Quality and Patient Dose Across a Range of CT Scanner Models and Patient Sizes**

M. R. Bruesewitz, Rochester, MN; X. Duan, PhD; Y. Zhang; L. Yu, PhD; S. Leng, PhD; C. H. McCollough, PhD

PHE024-B**Evaluating Image Quality of Compressed Sensing MRI Aiming at Clinical Applications**

T. Saito, BS, RT, Sendai Japan; Y. Ichi-noseki, MS, RT; K. Miyamoto, BS, RT; T. Nagasaka, RT; Y. Machida, PhD

PHE105**Contrast Enhanced Ultrasound: An Emphasis on Technical Pearls and Tips**

D. Pereira, MD, Lisbon Portugal; A. Costa, MD; E. Guedes Pinto, MD

PHE113**Recent Technological Advances in CT, and the Clinical Impact Therein - The Physics of Clinical CT Taught through Images**

V. M. Runge, MD, Zurich Switzerland; G. Andreisek, MD; G. Wu, MD; H. Alkadhi, MD

PHE114**Technical Aspects of Optimization for Gadoteric Acid-enhanced Liver MR Imaging**

S. Kobayashi, MD, Kanazawa Japan; N. Ohno, PhD; Y. Fujinaga, MD; T. Miyati, PhD; T. Gabata, MD; O. Matsui, MD

ROE104**Radiation Therapy in Management of Soft Tissue Sarcomas: A Primer for Radiologists**

J. R. Wortman, MD, Boston, MA; S. Tirumani, MBBS, MD; A. Baheti, MBBS, MD; M. H. Rosenthal, MD, PhD; J. Jagannathan, MD; N. H. Ramaiya, MD

URE010-B**Clinical Challenges and Images of Incidental Renal Masses: How Much Do You Know Regarding Renal Tumors Other than Renal Cell Carcinoma?**

S. Heo, MD, Hwasun-Gun Republic of Korea; J. Kim, MD; S. Shin, MD; H. Lim, MD; Y. Jeong, MD; H. Kang, MD

URE111**Genital Complications of Crohn Disease: Imaging Features and Implications of Management**

S. E. Kammann, MD; C. O. Menias, MD, Scottsdale, AZ; A. K. Hara, MD; M. Moshiri, MD; A. M. Shaaban, MBBS; K. Sandrasegaran, MD

URE115**Cross Sectional Imaging of the Kidney: Classic Signs and Pitfalls**

K. M. Elsayes, MD, Houston, TX; C. O. Menias, MD; K. Sandrasegaran, MD; A. M. Zaki, MBBS; S. Verma, MD; A. M. Shaaban, MBBS

URE117**Metastatic Renal Cell Carcinoma and Targeted Antiangiogenic Therapy: Old Illness, New Concerns**

M. F. Werner Reyes, Barcelona Spain; C. Sebastia Cerqueda, MD; B. Pano Brufau, MD; B. Mellado; O. Reig; C. Nicolau, MD

URE127**Imaging Features of Urinary Tract Leiomyomas and Leiomyosarcomas**

A. S. Bhavsar, MD, Cincinnati, OH; S. Verma, MD; C. O. Menias, MD; K. Sandrasegaran, MD; K. M. Elsayes, MD; K. Mehta, MD

URE134**Mimics of Prostate Carcinoma: MRI Imaging Features and Histopathological Correlation**

Y. Kitzing, MBBS; A. Prando, MD; C. Varol; G. S. Karczmar, PhD; F. Maclean; A. Oto, MD, Chicago, IL

URE138**Multi-Parametric MRI Findings of Post-Treatment Changes in the Prostate Gland**

B. G. Muller, MD, Bethesda, MD; S. Sankineni, MD; O. Elbuluk; K. B. Grant, MD; S. Rais-Bahrami, MD; A. Walton-Diaz

URE145**Ten Hiding Habits of Clinically Significant Prostate Cancer**

A. B. Rosenkrantz, MD, New York, NY; S. Verma, MD; B. Turkbey, MD

URE163**Nephrostomies, Nephrectomies and Neoplasms: Upper Genitourinary Tract Interventions and Complications**

S. F. Mohammad, MD, Sylmar, CA; L. Shen, MD; D. J. Margolis, MD; A. Pahwa, MD; M. Deshmukh, MD; M. K. Patel, MD

URE168**Role of FDG-PET/CT in Urological Oncology: Staging and Post-treatment Evaluation**

M. Okada, MD, Nishihara-cho Japan; I. Chiba; G. Iida; Y. Nishikuramori; Y. Iraha; S. Murayama, MD, PhD

URE170**Sonography of the Inguinal Canal: A Comprehensive Review of Pathologic Processes with CT and MR Correlation**

D. Ersahin, MD, New Haven, CT; M. V. Revzin, MD; J. D. Kirsch, MD; M. Mathur, MD; D. J. Rubens, MD; L. M. Scoutt, MD

URE174**The Radiology of Hematuria — What the Urologist Wants to Know**

K. J. Too, MD; A. M. Tahvildari, MD, Palo Alto, CA; K. Klang, MD; G. Sonn, MD; M. P. Federle, MD

URE176**X-ray Scatter Correction Technology with 2D Anti-scatter Grid: Is Removing X-ray Scatter Able to Correct the Hounsfield Unit of Renal Cyst?**

T. Mineyama; K. Honda; Y. Kobayashi, MD, PhD; K. Sasaki, RT; K. Ameda; S. Tokuyasu, RT, Minato-ku Japan

URE179**Fat-containing Retroperitoneal Lesions: Imaging Characteristics, Localization and Differential Diagnosis**

A. M. Shaaban, MBBS, Salt Lake City, UT; M. Rezvani, MD; M. Tubay, MD; K. M. Elsayes, MD; C. O. Menias, MD

URE186**Lesions without Borders: Scrotal Lesions That Involve Both the Intratesticular and Extratesticular Regions**

H. Gabriel, MD, Chicago, IL; N. A. Hammond, MD; P. Nikolaidis, MD; M. Hamidi, MD; F. H. Miller, MD

URE187**Oddballs: Unusual Testicular Lesions**

K. Klang, MD; K. J. Too, MD; A. M. Tahvildari, MD; M. Romero, MD; A. Kamaya, MD, Stanford, CA

VIE002-B**Chronic Mesenteric Ischemia and its Treatment: A Pictorial Essay**

S. Choudhery, MD, Dallas, TX; A. W. Jaster, MD; R. W. Ahn, MD, PhD; P. D. Sutphin, MD, PhD; S. P. Kalva, MD; A. K. Pillai, MD

VIE015-B**Small But Volatile: Review of Indications, Technical Considerations and Complications of Percutaneous Ablation of Adrenal Tumors**

Z. A. Miller, MD, New York, NY; B. B. Pua, MD; J. Jo; D. Q. Huang, MD; K. S. Lee, MD; D. C. Madoff, MD

VIE017-B**US-guided Percutaneous Radiofrequency Ablation of Liver Tumors; Tips and Tricks to Ensure Safe and Successful Procedure**

J. Kim, MD, Jeollanamdo Republic of Korea; S. Shin, MD; S. Heo, MD; H. Lim, MD; Y. Jeong, MD; H. Kang, MD

VIE018-B**Comparison of Gadolinium- versus Iron-based MRA Blood Pool Contrast Agents used in Assessment of Peripheral Vascular Disease**

V. A. Arasu, MD, San Francisco, CA; W. J. Gasper; R. T. Downey, MD; S. Weinstein, MD; R. Aslam, MBBS; T. A. Hope, MD

VIE033-B**Pictorial Review of the Re-interventional Techniques after TIPS Placement (Transjugular Intrahepatic Portosystemic Shunt) According to Clinical Manifestations**

B. G. Belikoff, MD, PhD, St. Louis, MO; S. Kim, MD; C. J. Guevara, MD; K. A. Lee, MD; G. Gonzalez-Araiza, MD

VIE038-B**Prevention and Management of Air Embolism during Vascular Interventional Procedures—Everything you Wanted to Know, but Were Afraid to Ask**

C. J. McCarthy, MD, Boston, MA; M. Ghasemi-rad, MD; T. M. Leslie-Mazwi, MD; R. Oklu, MD, PhD

VIE044-B**Interventional Radiology in Palliative Management of Intractable Pain in the Abdomen**

N. Kulkarni, MD, Boston, MA; A. Thabet, MD; R. N. Uppot, MD; M. M. Kamdar, MD; P. R. Mueller, MD; A. R. Kambadakone, MD, FRCR

VIE117**Gastrointestinal Bleeding in Patients with Left Ventricular Assist Devices—Interventional Radiology's Role in Diagnosis and Management**

A. E. Prosper, MD, Pasadena, CA; M. D. Katz, MD

VIE122**Minimally-Invasive Interventions in the Treatment of Non-Traumatic Splenic Disorders—A Whirlwind Tour of Splenic Vascular Anomalies, Gastric Varices Secondary to Sinistral Hypertension, and Hypersplenic Thrombocytopenia**

J. J. Park, MD, PhD, Duarte, CA; J. Park, MD, PhD; J. M. Kessler, MD

**VIE123****Nellix Endograft Repair of Aortic Aneurysm: Pictorial Review of the Normal and Abnormal CT Appearances**

A. Weller, Tooting United Kingdom; M. Shah, MBBS; S. Ameli-Renani, MBBS, FRCR; A. Patel, MBBS; G. J. Munneke, MBBS; I. Vlahos, MRCP, FRCR

VIE126**Postpancreatectomy Hemorrhage: Case Review of Radiologic Imaging and Intervention**

E. Cheang, MD, Sacramento, CA; D. Cheng, MD; G. G. Tse, MD; D. Cheng, MD; D. Vegas, MD

VIE147**Dual Energy CT Angiography with Reduced Iodine Load: A Comprehensive and Practical Approach**

P. M. Carrascosa, MD; C. Capunay, MD, Buenos Aires Argentina; J. Vallejos, MD, MBA; A. Deviggiano, MD; G. Rodriguez Granillo

VIE150**Novel Contrast-Injection Protocol for High Resolution Abdominal CT-Angiography: Vascular Visualization Improvement with Vasodilator**

M. Hoshika, Okayama Japan; N. Nishiyama; Y. Kobayashi; Y. Takeda, MD

VIE161**Advanced Image Guided Percutaneous Technique for the Placement of Peritoneal Dialysis Catheters**

T. E. Drasin, MD, MPH, San Leandro, CA; P. E. Dybbro, MD

VIE162**Billing and Coding for Procedures: A Necessary Primer for Interventional Radiologists**

K. Ching, MD, Pittsburgh, PA; C. J. Friend, MD; E. Santos, MD; R. K. Varma, MBBS, MD; K. M. McCluskey, MD

VIE165**How to Improve Teaching in Interventional Radiology: Description and Comparison of Methods for Composing and Building Vessel Models for Real Life Simulation**

M. Treitl, MD, Munich Germany; M. F. Reiser, MD; K. Treitl, MD

VIE170**Patient Anxiety before and Interventional Radiologic Procedures: Guiding the Radiologists Towards a More Patient-centered Role**

K. W. Shaqdan, MD, Boston, MA; S. Aran, MD; E. Hassanzadeh, MD; H. H. Abujudeh, MD, MBA

VIE177**Vascular and Lymphatic Imaging for Plastic and Reconstructive Surgery: A Primer for the Radiologist**

S. Soga, MD, Tokorozawa Japan; H. Shinmoto, MD; T. Okamura, MD; N. Yoshihara; T. Soya; T. Kaji, MD

VIE178