Walk Through the Week

Sunday, Dec. 1, 2019

Case of the Day
Chest Sunday Case of the Day
Session ED003-SU . . . . . . Case of Day, Learning Center
10:30 AM–12:00 PM
Educational Courses
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI11 . . . . . . AI Showcase North Building Level 2
10:45 AM–12:15 PM
Scientific Papers Sessions
Chest (ILD/COPD/Airways)
Session SSA05 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E350
Vascular/Interventional (Lung Cancer Science)
Session SSA24 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD
12:30–1:00 PM
Posters and Exhibits: Discussions
Chest Sunday Poster Discussions
Session CHS-SUA . . . . . . CH Community, Learning Center
1:00–3:00 PM
Educational Courses
Interventional Oncology Series: Interventional Therapies for Primary and Metastatic Lung Tumors
Course VSIO11 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S405AB
1:00–1:30 PM
Posters and Exhibits: Discussions
Chest Sunday Poster Discussions
Session CHS-SUB . . . . . . CH Community, Learning Center
2:00–3:30 PM
Educational Courses
Lung Cancer Screening (Interactive Session)
Course RC101 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
4:00–5:45 PM
Plenary Sessions
Sunday Afternoon Plenary Session
Session PS12 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Arie Crown Theater
Monday, Dec. 2, 2019

Case of the Day
Chest Monday Case of the Day
Session ED003-MO ........ Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
Controversy Session: Are We Over Diagnosing Pulmonary Emboli?
Session SPSC20 ................ E450A
Hot Topic Session: Radiomics in Thoracic Imaging
Session SPSH20 ................ E350

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

8:30–10:00 AM
Educational Courses
Practical HRCT of the Lung (Interactive Session)
Course RC201 ................ N227B

10:30 AM–12:00 PM
Educational Courses
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI21 ........ AI Showcase North Building Level 2

10:30 AM–12:00 PM
Scientific Papers Sessions
Chest (Radiomics - Malignancy)
Session SSC03 ................ E451A

12:15–12:45 PM
Posters and Exhibits: Discussions
Chest Monday Poster Discussions
Session CHS-MOA .... CH Community, Learning Center

12:30–1:30 PM
Lunch and Learns
Lunch and Learn: Dynamic Digital Radiology: A New Modality in Action: Presented by Konica Minolta (RSVP-required)
Session LL12 ................ S404AB

12:45–1:15 PM
Posters and Exhibits: Discussions
Chest Monday Poster Discussions
Session CHS-MOB .... CH Community, Learning Center

2:00–3:30 PM
Corporate Symposium
Enhancing Patient Care in CTEPH through Imaging Innovation: Presented by Bayer and Siemens Healthineers
Session CS26 .................. S105D

3:00–4:00 PM
Scientific Papers Sessions
Chest (Radiomics and Machine Learning)
Session SSE05 ................ S102CD

4:30–6:00 PM
Educational Courses
Chest and Abdomen (Case-based Competition)
Session SPDL21 ............. E451B

Tuesday, Dec. 3, 2019

Case of the Day
Chest Tuesday Case of the Day
Session ED003-TU ........ Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
HRCT of Interstitial Lung Disease: Interactive Read with the Experts (Interactive Session)
Course RC301 ................ S406A

8:30 AM–12:00 PM
Educational Courses
Interventional Series: Venous Disease
Course RC314 ............... E352

10:30 AM–12:00 PM
Essentials of Chest Imaging
Course MSES32 ............... S100AB
BOOST: Lung, Mediastinum, Pleura-Anatomy and Treatment Planning (Interactive Session)
Course MSRO36 .............. S103CD

10:30 AM–12:00 PM
Educational Courses
Case-based Review of Nuclear Medicine: PET/CT Workshop-Chest (In Conjunction with SNMMI) (Interactive Session)
Course MSCC32 .............. E450B

Scientific Papers Sessions
Science Session with Keynote: Chest (Pulmonary Vasculature and Angiography/Dual Energy CT)
Session SSG03 ............... S404CD
Radiation Oncology (Lung, Mediastinum, Pleura)
Session SSG15 .................................................. S503AB

10:30–10:50 AM
Showcase Presentations
RSNA AI Theater: AI-powered Precision Diagnostics: Beyond Expert Level Imaging Biomarkers for Chest and Breast Imaging: Presented by Lunit
Session AI31 ........ AI Showcase North Building Level 2

11:30–11:50 AM
Showcase Presentations
RSNA AI Theater: Putting Medical AI to Work - Delivering Intelligent, Efficient and Validated Solutions to the Workflow of Radiology: Presented by VUNO, Inc.
Session AI33 ........ AI Showcase North Building Level 2

12:15–12:45 PM
Posters and Exhibits: Discussions
Chest Tuesday Poster Discussions
Session CHS-TUA ........ CH Community, Learning Center

12:30–1:30 PM
Lunch and Learns
Lunch and Learn: Imaging AI for Advanced COPD Care: Presented by Konica Minolta (RSVP-required)
Session LL22 ........ AI Showcase North Building Level 2

12:45–1:15 PM
Posters and Exhibits: Discussions
Chest Tuesday Poster Discussions
Session CHS-TUB ........ CH Community, Learning Center

1:30–2:30 PM
Educational Courses
BOOST: Lung, Mediastinum & Pleura
Course MSRO37 .................. S103CD

3:00–4:15 PM
Educational Courses
BOOST: Lung, Mediastinum, Pleura-Case-based Multidisciplinary Review (Interactive Session)
Course MSRO38 .................. S103CD

3:00–4:30 PM
Educational Courses
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI33 .... AI Showcase North Building Level 2

3:00–4:00 PM
Scientific Papers Sessions
Chest (Artificial Intelligence/Machine Learning - Lung Malignancy)
Session SSJ05 .................. S102CD

4:30–6:00 PM
Educational Courses
Interstitial Lung Disease in the Community: A Practical Approach
Course RC401 .................. E450A
Diseases of the Thoraco-abdominal Aorta
Course RC412 .................. S404AB

Wednesday, Dec. 4, 2019

Case of the Day
Chest Wednesday Case of the Day
Session ED003-WE ........ Case of Day, Learning Center

7:15–8:15 AM
Educational Courses
Body Imaging Case Challenge (Case-based Competition)
Session SPDL40 .................. E451B

8:30–10:00 AM
Educational Courses
Occupational Lung Disease (Interactive Session)
Course RC501 .................. N226
Rapid Fire: 80 Cardiac Cases in 80 Minutes
Course RC503 .................. E353B
Emerging Technology: Dual-energy and Spectral CT Update 2019
Course RC517 .................. S505AB

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

10:30 AM–12:00 PM
Scientific Papers Sessions
Chest (Lung Cancer Screening)
Session SSK05 .................. N229
Science Session with Keynote: Emergency Radiology (Pulmonary Emboli - Current Cutting Edge, and the Future)
Session SSK06 .................. S103AB
Thursday, Dec. 5, 2019

Case of the Day
Chest Thursday Case of the Day
Session ED003-TH . . . . . . Case of Day, Learning Center

8:30–10:00 AM
Educational Courses
Pulmonary Vascular Imaging
Course RC601 . . . . . . . . . . . . . . . . . . . . . . . . . . S103CD

Best Cases from the AIRP (In Conjunction with the American Institute for Radiologic Pathology) (Interactive Session)
Course RC624 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD

10:30 AM–12:00 PM
Scientific Papers Sessions
Chest (Interventional/Systemic Vasculature)
Session SSQ04 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A

Science Session with Keynote: Chest (Thoracic MRI)
Session SSQ05 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . E350

12:15–12:45 PM
Posters and Exhibits: Discussions
Chest Thursday Poster Discussions
Session CHS-THA . . . . . CH Community, Learning Center

12:45–1:15 PM
Posters and Exhibits: Discussions
Chest Thursday Poster Discussions
Session CHS-THB . . . . . CH Community, Learning Center

12:15–12:45 PM
Showcase Presentations
RSNA AI Theater: AI for Diagnosis, AI for the World: Presented by LPIXEL, Inc.
Session AI57 . . . . . . . . . . AI Showcase North Building Level 2

Friday, Dec. 6, 2019

8:30 AM–12:00 PM
Educational Courses
International Symposium on Cardiothoracic Imaging
Session SPI561 . . . . . . . . . . . . . . . . . . . . . . . . . . . E353C
8:30–10:00 AM
**Educational Courses**
Practical MR Imaging
**Course RC801** ................................. E353B

10:30 AM–12:00 PM
**Scientific Papers Sessions**
Chest (Artificial Intelligence - Machine Learning)
**Session SST02** ................................. E451A
Nuclear Medicine (Thoracic Oncology Nuclear Medicine and PET)
**Session SST06** ................................. E353B

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

Sunday, Dec. 1, 2019

12:30–1:00 PM
**Scientific Posters**
Lung Tumor Segmentation for Volume Measurement Using Coupling-Net in Chest CT Images of Lung Cancer Patients
**CH243-SD-SUA2** ................................. Station #2
Mono-Exponential Diffusion Weighted Imaging (DWI) of Chest Wall Tumors
**CH244-SD-SUA3** ................................. Station #3
Pluralistic Medical Features based Hybrid Deep Learning Network for Pulmonary Nodule Intelligent Diagnosis and False Positives Elimination
**CH242-SD-SUA1** ................................. Station #1
The Value of Fast Scanning Protocol on 16cm Wide-Detector Scanner in Chest CT for Patients with Severe Chronic Obstructive Pulmonary Disease
**CH276-SD-SUA4** ................................. Station #4

12:30–1:00 PM
**Education Exhibits**
Essentials of Thoracic Neurogenic Tumors
**CH212-ED-SUA8** ................................. Station #8
Finding Hemo: Imaging in Hemoptysis
**CH213-ED-SUA5** ................................. Station #5

Monday, Dec. 2, 2019

12:15–12:45 PM
**Scientific Posters**
Smoking-Related Lung Diseases: HRCT Findings, Clinical and Pathological Correlations
**CH216-ED-SUA7** ................................. Station #7
The Role of Thoracic Imaging in Cystic Fibrosis: Correlation with Clinical and Physiological Findings
**CH214-ED-SUA6** ................................. Station #6

1:00–1:30 PM
**Scientific Posters**
Clinical Utility of Measuring Tumor Respiratory Displacement Distance to Detect Parietal Pleura Invasion in Patients with Primary Lung Cancer
**CH247-SD-SUB3** ................................. Station #3
CT-Based Quantification of Emphysema Correlates with Vertebral Fracture: Data from CT Lung Cancer Screening Beyond 10 Years
**CH246-SD-SUB2** ................................. Station #2
Versatile CT Pulmonary Angiography Protocol Performed at Maximum Inspiration
**CH245-SD-SUB1** ................................. Station #1
Visual and Quantitative Assessment of Regional Xenon-Ventilation Using Dual-Energy Computed Tomography in Asthma-COPD Overlap Syndrome: A Comparison with COPD
**CH277-SD-SUB4** ................................. Station #4

1:00–1:30 PM
**Education Exhibits**
Handbook of 3D Printing for Cardiothoracic Radiologists: The Ultimate Guide
**CH215-ED-SUB7** ................................. Station #7
Radiomics and Radiogenomics in Thoracic Imaging: Techniques and Clinical Applications
**CH218-ED-SUB6** ................................. Station #6
Thoracic Imaging Manifestations of Treated Lymphoma: Response Evaluation, Post-Therapeutic Sequelae and Complications
**CH217-ED-SUB5** ................................. Station #5
Development and Evaluation of a Venous CT Radiomics Model To Predict Lymph Node Metastasis from Non-Small Cell Lung Cancer
CH272-SD-MOA4 .......................... Station #4

Development of a 3D U-net Deep-Learning Model for Automated Detection of Lung Nodules on Chest CT Images: Internal and External Validation Using LIDC and Japanese Datasets
CH273-SD-MOA5 .......................... Station #5

Radiomics Analysis Using Tumor Marginal Property for Pathological Invasion in Lung Adenocarcinoma
CH250-SD-MOA3 .......................... Station #3

The High Prevalence of RV/LV Ratio ≥ 1 Among Patients Undergoing CT Pulmonary Angiography
CH248-SD-MOA1 .......................... Station #1

12:15–12:45 PM
Education Exhibits
Drug-Induced Lung Disease in Precision Cancer Therapy
CH220-ED-MOA7 .......................... Station #7

Introduction to Artificial Intelligence and Big Data Research in Chest Radiology
CH221-ED-MOA6 .......................... Station #6

Thoracic Lymphatic Metastases from Extra-Pulmonary Malignancies: Predictable Patterns of Spread
CH219-ED-MOA8 .......................... Station #8

12:45–1:15 PM
Scientific Posters
A Novel Augmented Deep Learning Approach for Quantitative Assessment of Indeterminate Nodules
CH253-SD-MOB3 .......................... Station #3

Based on CT Radiomics to Distinguish the Anterior Mediastinal Cyst from Type B1 and Type B2 Thymoma
CH274-SD-MOB4 .......................... Station #4

CT-Identified Bronchiectasis in Never-Smokers: Association with Respiratory Symptoms, Lung Function, and Exercise Capacity
CH252-SD-MOB2 .......................... Station #2

Radiomics-Based Machine Learning Methods for WHO Preoperative Classification of Thymic Epithelial Tumors
CH275-SD-MOB5 .......................... Station #5

Virtual Monochromatic Dual-Energy Pulmonary CT Angiography with Reduced Iodine Dose: Quantitative and Qualitative Assessment
CH251-SD-MOB1 .......................... Station #1

Tuesday, Dec. 3, 2019

12:15–12:45 PM
Scientific Posters
Improving Image Quality of Bronchial Arteries with the Combination of Low Energy Images in Dual-Energy Spectral CT and Adaptive Statistical Iterative Reconstruction Improving Image Quality of Bronchial Arteries with the Combination of Low Energy
CH254-SD-TUA1 .......................... Station #1

Lung Cancer Screening in an Underserved Asian American Population
CH256-SD-TUA3 .......................... Station #3

The Diagnostic Value of Pulmonary Embolism (PE) Using Iodine-Based Material Decomposition Images with a 16cm Wide-Detector Dual-Energy Spectral CT
CH284-SD-TUA4 .......................... Station #4

The Value of Intravoxel Incoherent Motion Diffusion-Weighted Imaging in Predicting the Pathologic Response to Neoadjuvant Chemotherapy in Locally Advanced Esophageal Squamous Cell Carcinoma
CH255-SD-TUA2 .......................... Station #2

Tumor Invasiveness and Malignant Prediction in GGO Lung Nodules using Deep Learning Methods
CH285-SD-TUA5 .......................... Station #5

12:15–12:45 PM
Education Exhibits
Cardiopulmonary Physiology in the ICU: Understanding Commonly Monitored Parameters with Illustrative Cases and Radiographic Findings
CH227-ED-TUA6 .......................... Station #6
Lung Cysts: Uncommon and Rare Etiologies with Clinical and Pathological Correlation  
CH225-ED-TUA8  . . . . . . . . . . . . . . . . . . . . . . . Station #8

Precision Cancer Therapies in Lung Cancer: Current Status and Role of the Image  
CH226-ED-TUA7  . . . . . . . . . . . . . . . . . . . . . . . Station #7

12:45–1:15 PM
Scientific Posters
A Study of CT Spectral Imaging in Patients with Aortic Dissection using 256-Row Detector CT  
CH257-SD-TUB1  . . . . . . . . . . . . . . . . . . . . . . . Station #1

Correlation Study of EGFR in Lung Adenocarcinoma Based on Energy Spectral CT  
CH258-SD-TUB2  . . . . . . . . . . . . . . . . . . . . . . . Station #2

Performance and Outcomes of Suspicious Lung-RADS Categorization  
CH259-SD-TUB3  . . . . . . . . . . . . . . . . . . . . . . . Station #3

The Robustness of Lung Nodule Computer-Aided Detection (CAD) Performance in Low-Dose CT Across Heterogeneous Acquisition and Reconstruction Conditions  
CH287-SD-TUB5  . . . . . . . . . . . . . . . . . . . . . . . Station #5

Volume Doubling Time of Primary Lung Cancers in Interstitial Lung Disease  
CH286-SD-TUB4  . . . . . . . . . . . . . . . . . . . . . . . Station #4

12:45–1:15 PM
Education Exhibits
It’s Not Just Crack That’s Whack: Cardiothoracic Complications of the Opioid Epidemic  
CH228-ED-TUB6  . . . . . . . . . . . . . . . . . . . . . . . Station #6

Pearls and Pitfalls in Interpreting Thoracic CTA for Acute Aortic Pathology  
CH229-ED-TUB7  . . . . . . . . . . . . . . . . . . . . . . . Station #7

Primary Thoracic Lymphomas: Spectrum of Imaging and Histopathologic Manifestations  
CH006-EB-TUB  . . . . . . . . . . . . . . . . . . . . . Hardcopy Backboard

Wednesday, Dec. 4, 2019

12:15–12:45 PM
Scientific Posters
Comparison in Pulmonary Small Vessel Area and Association with Pulmonary Emphysema between Lower and Standard Energy Data Acquisition: Quantitative Assessment with Dual-Energy Computed Tomography  
CH291-SD-WEB4  . . . . . . . . . . . . . . . . . . . . . . . Station #4

CT Guided Microcoil Placement for Video-Assisted Thoracoscopic Surgical (VATS) Resection of Small Pulmonary Nodules: A Single Cancer Experience  
CH263-SD-WEB1  . . . . . . . . . . . . . . . . . . . . . . . Station #1
CT Morphological Features of the Mediastinal Drowning Sign in Pulmonary Diffuse Lymphangiomatosis
CH292-SD-WEB5 .......................... Station #5

Evaluating Real-World Performance of a Chest X-Ray TB Screening AI Tool versus Radiologists and Bacteriological Confirmatory Tests
CH265-SD-WEB3 .......................... Station #3

Implication of Tuberculosis Sequelae on Lung-RADS Categorization and Lung Cancer Risk in a Tuberculosis-Endemic Country: Results of a Nationwide Lung Cancer Screening Project (K-LUCAS)
CH293-SD-WEB6 .......................... Station #6

12:45–1:15 PM
Education Exhibits
Atypical Pneumonias: What is Atypical After All?
CH233-ED-WEB7 .......................... Station #7

Evaluation of Lung Transplant Complications on a Timeline: What the Radiologist Should Know
CH234-ED-WEB8 .......................... Station #8

Management of Solitary Pulmonary Nodules: Pushing the Limits Beyond the Guidelines
CH235-ED-WEB9 .......................... Station #9

Thursday, Dec. 5, 2019

12:15–12:45 PM
Scientific Posters
Correlation Analysis of Dual-Energy Computed Tomography Iodine Uptake Parameters and Chest Computed Tomography Perfusion Parameters in Lung Cancer Patients
CH267-SD-THA2 .......................... Station #2

Determination of Active Tuberculosis and Inactive Fibronodular Opacity on Chest Radiographs Using Deep Learning Algorithm
CH268-SD-THA3 .......................... Station #3

Leveraging Interobserver Variability for Sensitive Pathology Detection in Chest X-Rays
CH279-SD-THA5 .......................... Station #5

Safety Impact of Patient Positioning on Pneumothorax Rates After Lung Biopsy at a Single Community Hospital
CH266-SD-THA1 .......................... Station #1

Texture Analysis Based on Apparent Diffusion Coefficient Maps: Potential Imaging Biomarkers in the Prediction of Epidermal Growth Factor Receptor Mutations for Advanced Non-Small Cell Lung Cancer
CH278-SD-THA4 .......................... Station #4

The Diagnostic Accuracy and Complication of Percutaneous Transthoracic Needle Lung Biopsy in Patients with Idiopathic Pulmonary Fibrosis
CH280-SD-THA6 .......................... Station #6

12:15–12:45 PM
Education Exhibits
Dual-Energy Imaging in Cardiothoracic Pathologies: A Primer for Radiologists and Clinicians
CH237-ED-THA8 .......................... Station #8

Potentially Critical Thoracic Complications in the Oncologic Patient: Spectrum of CT Findings and Imaging-Based Diagnostical Approach
CH236-ED-THA7 .......................... Station #7

Thoracic Imaging in the Targeted Therapy Cancer: A Practical Guide of Immunotherapy-Related Manifestations
CH238-ED-THA9 .......................... Station #9

12:45–1:15 PM
Scientific Posters
A Deep Learning Model to Aid in Pneumothorax Detection and Analysis Via Chest X-Ray: A Retrospective Cohort Study of the NIH-based Chest X-Ray Dataset
CH269-SD-THB1 .......................... Station #1

Application of Artificial Intelligence For the Prediction of Lung Cancer Survival Using Diffusion-Weighted Images
CH283-SD-THB6 .......................... Station #6

Ferumoxytol-Enhanced MR Venography of the Central Veins of the Thorax to Evaluate Stenoses and Occlusions in Patients with Renal Failure
CH281-SD-THB4 .......................... Station #4

Multi-Task, Multiscale Convolutional Neural Network for Active/Inactive Pulmonary Tuberculosis Classification on Chest X-ray Images
CH271-SD-THB3 .......................... Station #3

Reducing Metal Artifacts in Chest Biopsy Procedure with Dual-Energy Spectral CT-Generated Monochromatic Images
CH282-SD-THB5 .......................... Station #5

Volume Change in Pulmonary Solid Nodules During Respiration: Investigation with Dynamic-Ventilation Computed Tomography Image Data
CH270-SD-THB2 .......................... Station #2
### Education Exhibits

**Diagnosis of Suspected Pulmonary Embolism in Pregnancy:**
Review of Clinical Diagnostic Pathways, Key Components, Associated Data, and Guideline Recommendations  
**CH241-ED-THB9**  
Station #9

**Imaging Assessment of Thoracic Vasculitis**  
**CH239-ED-THB7**  
Station #7

**OnwARDS and UpwARDS TowARDS Understanding Acute Respiratory Distress Syndrome:** A Comprehensive Imaging Review  
**CH240-ED-THB8**  
Station #8

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<td>Radiological Appearance of Foreign Bodies in the Thorax</td>
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<td>Pleuritic Chest Pain Really Hurts You: What the Radiologist Needs to Know</td>
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<td>Rib Lesions on Chest Imaging: What the Thoracic Radiologist Needs to Know to Look Like a Pro</td>
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<td>The End of the Chest X-Ray Era? Lung Ultrasound for the Diagnostic Radiologist</td>
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<td>A Breath of Fresh Air: Multisystem Imaging After Lung Transplantation</td>
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