



Location & Accommodations

The US Grant: Official Hotel of ISCT 2019

To get the most out of your ISCT experience we recommend booking your stay directly at The US Grant Hotel, where you can be in the thick of the action with networking, exhibitors, and morning sessions just steps away.

San Diego has enthralled its guests with historic grandeur and an unmatched dedication to excellence for over 100 years. You'll find The US Grant in downtown San Diego's lively and historic Gaslamp Quarter, just steps from shopping, dining, and entertainment, and a short drive from beautiful beaches and famous family attractions.

FACULTY

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Koen Nieman, MD Stanford University Medical Center

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Erica Riedesel, MDChildren's Healthcare of Atlanta

Geoffrey Rubin, MD, MBA, FACR, FSCBTMR, FNASCI Duke University

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Cristy Savage, MD

Massachusetts General Hospital

Andrew Smith, MDUniversity of Alabama at Birmingham

Nelly Tan, MD Loma Linda University

Smyrna Tuburan, MD Emory University & Children's Healthcare of Atlanta

Charles White, MDUniversity of Maryland Medical Center

Carol Wu, MD
University of Texas MD Anderson Cancer Center

CROSSCUTTING PROGRAM THEMES

Our 2019 program is tied together by 7 distinct themes that you'll see represented across each of our sessions, with the impact of each and how they pertain to a variety of sub-specialties discussed and highlighted in depth over the course of our 3 day symposium.



PROTOCOL OVERHAULS



COACHING PATIENTS FOR THE BEST SCAN



GOOD CT, BAD CT: IMAGE QUALITY THAT MATTERS



HOW TO READ A CT LIKE A BOSS



CONTROVERSIES IN RESULTS DELIVERY



ARTIFICIAL INTELLIGENCE



CT UPDATE 2019

CROSSCUTTING THEME #1 PROTOCOL OVERHAULS

The following talks relate directly to the theme of protocol overhauls, demonstrating their impact, applications, and importance within the corresponding CT subspecialties.

PEDIATRIC: DO WE REALLY NEED ORAL CONTRAST FOR ABDOMINAL CT IN PEDIATRIC PATIENTS?
Thursday | 10:15-10:30
Grace Phillips

CHEST: INTERSTITIAL LUNG DISEASE, EXPIRATORY IMAGING, & LUNG NODULE IMAGING

Thursday | 13:30-13:45 Charles White

ABDOMINAL: CONSIDERING BIPHASIC, SPLIT-BOLUS, & ORAL CONTRAST USE Friday | 8:00-8:15 Meg Lubner

SKELETAL: ESSENTIAL CONCEPTS FOR HIGH QUALITY EXTREMITY CT - WHAT RADS & TECHS NEED TO KNOW Friday | 15:15-15:30 Chris Beaulieu

CARDIOVASCULAR: BALANCING DOSE WITH THE IMAGING NEEDS OF THE FIELD Saturday | 8:00-8:15

Geoffrey Rubin

NEURO: ESSENTIALS OF CTA & COLLATERALS FOR STROKE EVALUATION - SINGLE, DUAL, OR MULTI-PHASE? Saturday | 14:15-14:30 Angelos Konstas



CROSSCUTTING THEME #2 COACHING PATIENTS FOR THE **BEST SCAN**

The following talks provide a guide for coaching patients for the best CT scan, giving tips to radiologic technologists on how to get a good scan for the corresponding CT subspecialties.

CHEST: STRATEGIES FOR TECHNOLOGISTS TO GET THE BEST CHEST SCANS -PULMONARY ANGIOGRAMS & ICU SCANS Thursday | 13:45-14:00

Charles White

CARDIOVASCULAR: STRATEGIES FOR TECHNOLOGISTS TO GET THE BEST **CARDIAC SCANS**

Saturday | 8:15-8:30 Lior Molvin

NEURO: STRATEGIES FOR TECHNOLOGISTS TO GET THE BEST NEURO SCANS

Saturday | 14:00-14:15

Cristy Savage



CROSSCUTTING THEME #3 GOOD CT VS. BAD CT: IMAGE QUALITY THAT MATTERS

The following talks relate directly to the theme of image quality, highlighting pertinent image quality issues of import within the corresponding CT subspecialties.

PEDIATRIC: DUAL ENERGY APPLICATIONS FOR PEDIATRIC BODY CT

Thursday | 10:30-10:45 Grace Phillips

CHEST: IMAGE QUALITY CONCERNS THAT MATTER FOR CT PULMONARY **ANGIOGRAMS**

Thursday | 14:00-14:15 Florian Fintelmann

ABDOMINAL: IMAGE QUALITY **CONCERNS THAT TRUMP RADIATION DOSE SAVINGS** Friday | 8:30-8:45 Meg Lübner

SKELETAL: OPTIMIZING IMAGE QUALITY IN PATIENTS WITH METALLIC IMPLANTS

Friday | 15:30-15:45 Savvas Nicolaou

CARDIOVASCULAR: IMAGE QUALITY CONCERNS THAT MATTER FOR FFRCT AND TAVR ASSESSMENTS

Saturday | 8:30-8:45 Seth Kligerman

NEURO: IMAGE QUALITY CONCERNS THAT MATTER FOR NEURO CT

Saturday | 13:45-14:00

Rajiv Gúpta



CROSSCUTTING THEME #4 HOW TO READ A CT LIKE A BOSS

The following talks emphasize how to read a CT like a boss, providing expert tips for practicing radiologists to use in a clinical setting for the corresponding CT subspecialties.

CHEST: READING DIFFUSE LUNG DISEASE LIKE A BOSS

Thursday | 11:45-12:00 Seth Kligerman

ABDOMINAL: HOW TO READ A CT COLONOGRAPHY FOR THE PRACTICING **RADIOLOGIST**

Friday | 9:00-9:15 Perry Pickhardt

SKELETAL: HOW TO READ NONTRAUMATIC CT OF THE LUMBAR SPINE & HIP -WHAT DO SURGEONS WANT TO KNOW?

Friday | 15:45-16:00 Jacob Mandell

CARDIOVASCULAR: HOW TO READ A CARDIAC CT - EARNING THE CARDIOLOGIST'S **RESPECT**

Saturday | 8:45-9:00 Jonathón Leipsic

NEURO: READING A HEAD CT/CTA LIKE A BOSS - TIPS & TRICKS FOR THE PRACTICING RADIOLOGIST Saturday | 13:30-13:45

Michael Lev



CROSSCUTTING THEME #5 CONTROVERSIES IN RESULTS DELIVERY

The following talks relate directly to the theme of controversy in results delivery, emphasizing problem areas and solutions within the corresponding CT subspecialties.

PEDIATRIC: STANDARDIZED REPORTING FOR PEDIATRIC ABDOMINAL TUMORS -EMPHASIS ON NEUROBLASTOMA AND HEPATOBLASTOMA Thursday | 10:45-11:00 Frica Riedesel SKELETAL: CAN CT POSTPROCESSING ELIMINATE THE NEED TO CHANGE WINDOW & LEVEL SETTINGS? Friday | 16:00-16:15
Jacob Mandell

CHEST: WHEN AND HOW TO GIVE RECOMMENDATIONS

Chest Session Thursday | 14:30-14:45 Carol Wu CARDIOVASCULAR: THE CASE FOR CARDIAC CT AS THE FIRST LINE TEST FOR STABLE CHEST PAIN

Saturday | 9:00-9:15 Koen Nieman

ABDOMINAL: COMMUNICATING RADIOLOGY RESULTS

Friday | 8:45-9:00 Matthew Davenport NEURO: IMAGING "INFARCT CORE" WITHOUT DWI - CT, CTA-SI, CTA-COLLATERALS, OR CTP?

Saturday | 14:30-14:45 Jeremy Heit



CROSSCUTTING THEME #6

ARTIFICIAL INTELLIGENCE

The following talks relate directly to the theme of artificial intelligence, emphasizing AI applications and their impact within the corresponding CT subspecialties.

CT TECHNOLOGIES: WHAT'S NEW? AI-ENABLED ACQUISITION - RECENT CLINICAL IMPLEMENTATIONS Thursday | 8:00-8:15 Shuai Leng ABDOMINAL: AI IN ABDOMINAL CT - WHAT'S UP?
Friday | 11:30-11:45
Arun Krishnaraj

CHEST: AI IN CHEST CT - DISTINGUISHING & CHARACTERIZING CANCEROUS NODULES
Thursday | 17:00, 17:15

Thursday | 17:00-17:15 Carol Wu

ABDOMINAL: AI TUMOR RESPONSE EVALUATION IN BODY CT Friday | 10:15-10:30

Andrew Smith

ABDOMINAL: AI TRIAGE OF CT STUDIES Friday | 11:15-11:30

Andrew Smith

SKELETAL: ARTIFICIAL INTELLIGENCE IN MSK CT - AI WON'T LEAVE THE BONES ALONE

Friday | 16:45-17:00

Chris Beaulieu

NEURO: HOW DO YOU GET AN AI TO "THINK" LIKE A RADIOLOGIST? AUTOMATED CT DETECTION & CLASSIFICATION OF ICH! Saturday | 16:15-16:30 Michael Lev



CROSSCUTTING THEME #7 CT UPDATE 2019

The following talks provide pertinent CT updates of import within the corresponding CT subspecialties.

CHEST: THORACIC CT UPDATE 2019 - LUNG CANCER IMAGING TRIALS Thursday | 14:45-15:00 Seth Kligerman

ABDOMINAL: CT UPDATE 2019

Friday | 9:15-9:30 Matthew Davenport

SKELETAL: MSK CT UPDATE 2019 PART 1: SOFT TISSUE & ADVANCED 3D

APPLICATIONS OF MSK CT

Friday | 16:15-16:30 Savvas Nicolaou

SKELETAL: MSK CT UPDATE 2019 PART 2: DUAL ENERGY & CONVENTIONAL CT

EVALUATION OF BONE MARROW

Friday | 16:30-16:45 Jacob Mandell

CARDIOVASCULAR: CT UPDATE 2019 - TRIALS THAT MOVED THE NEEDLE FOR **CARDIAC CT**

Saturday | 9:15-9:30





PRE-SYMPOSIUM WORKSHOP WEDNESDAY

SEPTEMBER 18

Applying Spectral CT for Improved Diagnosis & Better Patient Care Moderated by Dushyant Sahani & Cynthia McCollough				
13:00-13:15	Acquisition Technologies for Spectral CT	Cynthia McCollough		
13:15-13:30	Spectral CT Image Types & Their Uses	Cynthia McCollough		
13:30-13:45	Can Virtual Noncontrast Images Truly Replace True Noncontrast Images?	Shuai Leng		
13:45-14:00	Quantitative Applications of Spectral CT: Potential Clinical Impact	Dushyant Sahani		
14:00-14:15	Quantitative Accuracy of Spectral CT: Is it Good Enough?	Daniele Marin		
14:15-14:30	Workflow: Managing a Multi-Vendor DECT Environment	Cristy Savage		
14:30-14:45	Discussion			
14:45-15:00	Break			
15:00-15:15	Top 5 Applications for DECT: Evidence Base	Daniele Marin		
15:15-15:30	How to Build DECT Protocols	Dushyant Sahani		
15:30-15:45	Five Practical Strategies to Improve "Value" of DECT	Lakshmi Ananthakrishnan		
15:45-16:00	Oncology Imaging Using DECT	Daniele Marin		
16:00-16:15	Modifications to Your CT Practice With DECT	Dushyant Sahani		
16:15-16:30	The Business Case for DECT	Lakshmi Ananthakrishnan		
16:30-16:45	Artificial Intelligence in Spectral CT	Shuai Leng		
16:45-17:00	Discussion			



17:15-17:30

17:30-18:30

Discussion

Welcome Reception | Posters | Exhibits



PROTOCOL OVERHAULS



SCAN

THE BEST





HOW TO READ



CT UPDATE

2019









Ballroom Foyer



7:00-8:00	Registration Exhibits Continental Breakfast for Registrants	Ballroom Foyer
	CT Technologies: What's New? Moderated by Cynthia McCollough	
8:00-8:15	AI-Enabled Acquisition: Recent Clinical Implementations	Shuai Leng
8:15-8:30	Reconstruction by AI: A Replacement for Iterative Reconstruction?	Shuai Leng
8:30-8:45	Photon Counting CT: What Advantages Might it Bring & When?	Cynthia McCollough
8:45-9:00	Discussion	
9:00-9:15	Latest Advances & Early Clinical Experience with Dedicated Breast CT	Willi Kalender
9:15-9:30	Deep Intelligence in Medical Imaging (Canon)	Erin Angel
9:30-9:45	Al: Implications For Advanced Imaging & Precision Medicine (Siemens)	Mark Palacio
9:45-10:00	What's New from the CT Manufacturers (GE Healthcare)	
10:00-10:15	Break	
	Pediatric Moderated by Prakash Masand	
10:15-10:30	Do We Really Need Oral Contrast for Abdominal CT in Pediatric Patients?	Grace Phillips
10:30-10:45	Dual Energy Applications for Pediatric Body CT	Grace Phillips
10:45-11:00	Standardized Reporting for Pediatric Abdominal Tumors: Emphasis	Erica Riedesel
	on Neuroblastoma and Hepatoblastoma	
11:00-11:15	Pediatric Cardiovascular CT: "Living in the Fast Lane"	Smyrna Tuburan
11:15-11:30	Role of CT Imaging in Pediatric Emergencies	Smyrna Tuburan
11:30-11:45	Novel Imaging Techniques for Imaging the Pediatric Airway	Prakash Masand
11:45-12:00	Cardiac Applications for Pediatric CT	Prakash Masand
12:00-12:15	Discussion	
12:15-13:30	Lunch	
	Chest Moderated by Charles White	
13:30-13:45	Interstitial Lung Disease, Expiratory Imaging, & Lung Nodule Imaging	Charles White
13:45-14:00	Strategies for Technologists to Get the Best Chest Scans:	Charles White
	Pulmonary Angiograms & ICU Scans	
14:00-14:15	Image Quality Concerns That Matter for CT Pulmonary Angiograms	Florian Fintelmann
14:15-14:30	Reading Diffuse Lung Disease Like a Boss	Seth Kligerman
14:30-14:45	When and How to Give Recommendations	Carol Wu
14:45-15:00	Thoracic CT Update 2019: Lung Cancer Imaging Trials	Seth Kligerman
15:00-15:15	Pulmonary Complications of Newer Lung Cancer Therapies	Florian Fintelmann
15:15-15:30	Discussion	
15:30-15:45	Break	
15:45-16:00	Connective Tissue ILD	Seth Kligerman
16:00-16:15	Cystic Lung Disease: The Common & the Rare	Carol Wu
16:15-16:30	What it Takes in 2019 to Build a Lung Screening Program	Florian Fintelmann
16:30-16:45	ACR LungRADS Update	Carol Wu
16:45-17:00	Risk Calculators	Charles White
17:00-17:15	Al in Chest CT: Distinguishing & Characterizing Cancerous Nodules	Carol Wu
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PROTOCOL

OVERHAULS



COACHING

THE BEST



GOOD CT. BAD



BOSS

HOW TO READ

ACT LIKE A



7:00-8:00	Registration Exhibits Continental Breakfast for Registrants	Ballroom Foyer
	Abdominal	
	Moderated by Perry Pickhardt	
8:00-8:15	Considering Biphasic, Split-bolus, & Oral Contrast Use	Meg Lubner
8:15-8:30	Liver CT as a One-Stop-Shop for Chronic Liver Disease	Andrew Smith
8:30-8:45	Image Quality Concerns That Trump Radiation Dose Savings	Meg Lubner
8:45-9:00	Communicating Radiology Results	Matthew Davenport
9:00-9:15	How to Read a CT Colonography for the Practicing Radiologist	Perry Pickhardt
9:15-9:30	Abdominal CT Update 2019	Matthew Davenport
9:30-9:45	Discussion	
9:45-10:00	Break	
10:00-10:15	Demystifying Peritoneal Disease and Improving Diagnostic	Perry Pickhardt
	Accuracy	
10:15-10:30	Al Tumor Response Evaluation in Body CT	Andrew Smith
10:30-10:45	Quality in Radiology: Why is it Ignored and How Can We Improve?	Matthew Davenport
10:45-11:00	Automated Opportunistic CT Biomarkers for Predicting Future	Perry Pickhardt
	Cardiometabolic Events	
11:00-11:15	Strategies for the Best Biopsies	Meg Lubner
11:15-11:30	Al Triage of CT studies	Andrew Smith
11:30-11:45	Al in Abdominal CT: What's Up?	Arun Krishnaraj
11:45-12:00	Discussion	
12:00-13:15	Lunch & Learn Presented by Canon *Not CME Accredited*	
	-Al's Potential for Disruption in Medical Imaging	Eliot Siegel
	-Redefining CT Image Quality Through Unprecedented Detail with	Nancy Pham
	Aquilion Precision Powered by AI-Based Reconstruction	
	Workflow & Reporting Moderated by Arun Krishnaraj	
13:15-13:30	Are You Ready to be Yelped?	Arun Krishnaraj
13:30-13:45	Implementation of Provider & Patient Ratings of Radiologists'	Nelly Tan
	Reports on Satisfaction & Usefulness	
13:45-14:00	Proving Value in Radiology: Shareable Open Source Registry	Jose Morey
	Platform Driven by Radiology Workflow	,
14:00-14:15	Rethinking the Role of the Radiologist: Enhancing Visibility	AJ Gunn
	Through Reporting	
14:15-14:30	Distributed Peer Review	Brian Haas
14:30-14:45	DEBATE: Can Radiologists Deliver Results to Patients While	AJ Gunn, Geoffrey Rubin
	Keeping up with Modern Radiology Department Volumes?	& Nelly Tan
14:45-15:00	Discussion	
15:00-15:15	Break	
	Skeletal Moderated by Christopher Beaulieu	
15:15-15:30	Essential Concepts for High Quality Extremity CT: What Rads &	Chris Beaulieu
13.13 13.00	Techs Need to Know	Jan 13 Bedulled
		C N. I
15:30-15:45	Optimizing Image Quality in Patients with Metallic Implants	Savvas Nicolaou
15:30-15:45 15:45-16:00	Optimizing Image Quality in Patients with Metallic Implants How to Read Nontraumatic CT of the Lumbar Spine & Hip: What	Jacob Mandell
	Optimizing Image Quality in Patients with Metallic Implants How to Read Nontraumatic CT of the Lumbar Spine & Hip: What do Surgeons Want to Know?	

17:00-17:15 Discussion **Cases That Will Blow Your Mind** Moderated by Geoffrey Rubin 17:15-17:20

Controversies in Study Interpretation: Can CT Postprocessing

MSK CT Update 2019 Part 2: Dual Energy & Conventional CT

Artificial Intelligence in MSK CT: Al Won't Leave the Bones Alone

Eliminate the Need to Change Window & Level Settings?

MSK CT Update 2019 Part 1: Soft Tissue & Advanced 3D

Case #1 17:20-17:23 Case #2

Case #3

Case #4

Case #5

Case #6

Case #7

Case #8

Case #9

Case #10

Case #11

Discussion

Applications of MSK CT

Evaluation of Bone Marrow

16:00-16:15

16:15-16:30

16:30-16:45

16:45-17:00

17:23-17:26

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17:50-18:00

Jacob Mandell Chris Beaulieu

Jacob Mandell

Savvas Nicolaou

Geoffrey Rubin Arun Krishnaraj

Brian Haas

Meg Lubner

Andrew Smith

Seth Kligerman

Cristy Savage

Perry Pickhardt

Matthew Davenport

Nelly Tan AJ Gunn

CT UPDATE 2019

ARTIFICIAL CONTROVER-INTELLIGENCE





PROTOCOL OVERHAULS











2019







ARTIFICIAL

INTELLIGENCE



7:00-8:00	Registration Exhibits Continental Breakfast for Registrants	Ballroom Foyer
	Cardiovascular Moderated by Jonathon Leipsic	
8:00-8:15	Balancing Dose with the Imaging Needs of the Field	Geoffrey Rubin
8:15-8:30	Strategies for Technologists to Get the Best Cardiac Scans	Lior Molvin
8:30-8:45	Image Quality Concerns that Matter for FFRCT & TAVR	Seth Kligerman
	Assessments	
8:45-9:00	How to Read a Cardiac CT: Earning the Cardiologist's Respect	Jonathon Leipsic
9:00-9:15	The Case for Cardiac CT as the First Line Test for Stable Chest	Koen Nieman
	Pain	
9:15-9:30	Cardiovascular CT Update 2019: Trials that Moved the Needle	Koen Nieman
	for Cardiac CT	
9:30-9:45	Discussion	
9:45-10:00	Break	
10:00-10:15	FFRCT: Data & Clinical Utility	Jorge Gonzalez
10:15-10:30	CTA/FFRCT for Complex CAD	Jonathon Leipsic
10:30-10:45	CT for TAVR: The Essentials	Jonathon Leipsic
10:45-11:00	CT for Atherosclerosis: CACS & Plaques	Matthew Budoff
11:00-11:15	Dual Energy Cardiac CT: Updates & Clinical Applications	Seth Kligerman
11:15-11:30	Recent Technology Advancements: Towards the Perfect Scanner	Jonathon Leipsic
11:30-11:45	CT for Infective Endocarditis	Koen Nieman
11:45-12:00	Discussion	
12:00-13:15	Lunch & Learn Presented by Siemens Healthineers *Not CME Accredited*	
	Spectral Dual Energy Imaging of the MSK System	Savvas Nicolaou
	Neuro Moderated by Michael Lev	
13:15-13:30	Acquisition, Post-Processing, & Interpretation of Neuro CT:	Rajiv Gupta
40.00.40.45	What's New in 2019, What's Next in 2020?	
13:30-13:45	Reading a Head CT/CTA Like a Boss: Tips & Tricks for the	Michael Lev
40.45.44.00	Practicing Radiologist	
13:45-14:00	Image Quality Concerns that Matter for Neuro CT	Rajiv Gupta
14:00-14:15	Strategies for Technologists to Get the Best Neuro Scans	Cristy Savage
14:15-14:30	Essentials of CTA & Collaterals for Stroke Evaluation - Single,	Angelos Konstas
14004445	Dual, or Multi-Phase?	
14:30-14:45	Imaging "Infarct Core" Without DWI - CT, CTA-SI, CTA	Jeremy Heit
1 1 1 5 1 5 0 0	Collaterals, or CTP?	
14:45-15:00	Discussion	
15:00-15:15	Break	
15:15-15:30	Dual & Multi-Spectral CT: Neuro & Head/Neck Applications	Rajiv Gupta
15:30-15:45	Acute Stroke Triage in the Post-DAWN Era: Trials, Care Pathways & Imaging Algorithms	Jeremy Heit
15:45-16:00	Acute Stroke Triage in the Post-DAWN Era: "How We Do It" in	Angelos Konstas
	Real World Private Practice	
6:00-16:15	ED Evaluation of "Headache" in Young Adults & Pre-Menopausal	Jason Handwerker
	Women	
16:15-16:30	How do you Get an AI to "Think" Like a Radiologist? Automated	Michael Lev
	CT Detection & Classification of ICH!	
16:30-16:45	Challenging Cases: Pearls & Pitfalls in the Differential Diagnosis	Jason Handwerker
	of Neuro Emergencies	
16:45-17:00	Neuro CT, the Bottom Line: "Don't Miss These Lesions!" &	Michael Lev
	Summing Up	
L7:00-17:15	Discussion	

THANK YOU TO OUR INDUSTRY SPONSORS!

We are proud to partner with such incredible organizations. Thank you for your support and participation in our 21st annual international symposium on CT!















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