



**JOHNS HOPKINS**  
M E D I C I N E

Office of Continuing Medical Education  
Turner 20, 720 Rutland Avenue  
Baltimore, Maryland 21205-2195

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**35TH ANNUAL**

**COMPUTED BODY  
TOMOGRAPHY**  
**2 0 1 9**  
**THE CUTTING EDGE**



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**WALT DISNEY WORLD SWAN RESORT  
LAKE BUENA VISTA, FLORIDA  
FEBRUARY 7 – 10, 2019**

<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=16354>

**CONTINUING MEDICAL EDUCATION**

**THE RUSSELL H. MORGAN  
DEPARTMENT OF RADIOLOGY  
AND  
RADIOLOGICAL SCIENCE  
PRESENTS**

**35TH ANNUAL**

**COMPUTED BODY  
TOMOGRAPHY**  
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**THE CUTTING EDGE**

**FEBRUARY 7 – 10, 2019**



**WALT DISNEY WORLD  
SWAN RESORT  
LAKE BUENA VISTA,  
FLORIDA**

**ACTIVITY DIRECTOR  
ELLIOT K. FISHMAN, MD, FACR**

VISIT OUR CT EDUCATION WEBSITE AT  
**WWW.CTISUS.COM**

THIS ACTIVITY HAS BEEN APPROVED FOR *AMA PRA CATEGORY 1 CREDITS™*.  
THIS ACTIVITY HAS BEEN APPROVED FOR *CATEGORY A CE CREDITS FROM THE AHRA.*



**JOHNS HOPKINS**  
M E D I C I N E

## DESCRIPTION

Due to rapid advances in technology, radiologists and radiologic technologists often require a comprehensive review of recent advances in computed body tomography. This activity will focus on multidetector/multislice CT and newer systems including dual-source CT scanners. The schedule offers a series of 40-minute lectures designed to concentrate on specific topics in-depth, including state-of-the-art technology and software. Participants will have the opportunity to expand their knowledge of the latest concepts and principles of helical CT, thoracic CT, cardiac CT and CTA, the uses of CT in the GI tract, the liver, spleen and kidneys, as well as pancreatic imaging and imaging the oncologic patient.

## WHO SHOULD ATTEND

This activity is intended for radiologists and radiologic technologists.

## OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- Summarize the latest concepts in the chest and cardiac CT, including coronary artery imaging.
- Analyze the newest applications of multidetector/multislice CT.
- Identify the role of CT in GI pathology, including pancreas.
- Recognize the latest concepts in liver and renal imaging.
- Define the current role of MDCT/CTA in the evaluation of pancreatic and renal tumors.
- Explain the current role of CT angiography and how to optimize its performance.

## GENERAL INFORMATION

### REGISTRATION

Mockingbird Foyer  
Thursday, February 7, 2019 • 7:00 - 8:00 a.m.

### LOCATION

#### Walt Disney World Swan and Dolphin Resort

1200 Epcot Resorts Boulevard 1-800-227-1500  
Lake Buena Vista, Florida 32830 407-934-4000  
Website: [www.swandolphinmeetings.com](http://www.swandolphinmeetings.com)

#### Hotel Reservation Cut-Off Date: Monday, January 7, 2019, 5:00 p.m. ET

The Johns Hopkins Office of CME makes every effort to secure the best rate for overnight accommodations. The rate is part of a negotiated conference package that incorporates many services. By staying at the host hotel and booking within the room block, you help us maintain current conference benefits and keep future registration fees reasonable. Please consider this when making your overnight accommodations decision.

A recipient of the prestigious Meetings and Conventions Hall of Fame Award, the Walt Disney World Swan and Dolphin is a nationally respected and recognized leader in the Disney convention resort arena. Located just 20 minutes from Orlando International Airport (MCO), 15 minutes from downtown Orlando and minutes from many other Orlando attractions.

Take advantage of all the amenities, exclusive guest services and negotiated room rate of \$249 single/double, plus \$28 resort fee and taxes per night, by booking your stay at our headquarters hotel. Call the hotel directly and mention Group code JHM19 or reservations are accepted online at: <https://www.swandolphin.com/groups/JHM19/>.

### SYLLABUS

The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity. All registrants will receive a flash drive with the slides and paper for note-taking. This is included in the cost of your registration. A link to the syllabus will also be provided via email shortly before the activity begins if you prefer to study or print the syllabus.

## ACCREDITATION STATEMENT

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.



## CREDIT DESIGNATION STATEMENT

The Johns Hopkins University School of Medicine designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## OTHER CREDIT

This activity has been approved by AHRA, the approving RCEEM: The Association for Medical Imaging Management for a maximum of 20.75 Category A, ARRT continuing education credits. *You must attend each session in its entirety to obtain credit. No partial session credit will be awarded.*

This activity meets all Certified Radiology Administrator (CRA) renewal credit criteria and has been approved for up to 20.75 continuing education credits in the following CRA domains: Operations Management and Asset Management.

## POLICY ON SPEAKER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies in place that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

### FEES

#### REGISTRATION CUT-OFF DATE: January 31, 2019

#### Register Online at:

<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15354>

**Methods of Payment:** We require full payment prior to the start of the activity. On-site payments by credit card only. The registration fee includes instructional materials, continental breakfasts and refreshment breaks.

#### By/After November 30, 2018

|   |             |
|---|-------------|
| Physicians .....  | \$695/\$795 |
| Residents*/Fellows*/Technologists/<br>Allied Health Professionals ..... | \$550/\$650 |
| Retired and Military Personnel.....                                     | \$495       |
| *with verification of status  |             |

You will receive a confirmation by e-mail. If you have not received it by **January 31, 2019**, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

### LATE FEE AND REFUND POLICY

A \$50 late fee applies to registrations received after 5:00 p.m. ET on **January 31, 2019**. A handling fee of \$50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by **January 31, 2019**. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins conference in lieu of cancellation is not possible.

## EVALUATION AND OUTCOMES SURVEY

Post activity, an online evaluation form will be available to attendees to evaluate the activity and individual presentations and identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner's transcript and immediately available for print. **The last day to access the evaluation and attest to your credits is March 26, 2019.**

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner's practice.

## EMERGENCY CALLS

On **February 7-10, 2019**, direct emergency calls to (407) 934-4000 and ask that a message be sent to the Johns Hopkins registration desk. Messages will be posted for participants.

## AMERICANS WITH DISABILITIES ACT

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. *Please notify us if you have any special needs.*

## ACKNOWLEDGMENT

Applications for commercial support from health care related industries are pending. A complete list of contributors will be provided in the syllabus. Please note that commercial support received is solely for the educational component of the activity and will not be used to provide food and beverage.

**Please note:** The Physician Payments Sunshine Act was enacted by Congress to increase public awareness of financial relationships between drug and medical device manufacturers and physicians. In compliance with the requirements of this Act, the commercial supporter/s of this activity may require the Johns Hopkins University School of Medicine to report certain professional information (such as name, address, National Provider Identifier (NPI), and State License number) of physician attendees who receive complimentary food and beverage in conjunction with a CME activity. The commercial supporter is required to submit the collected data to the Centers for Medicare and Medicaid Services which will then publish the data on its website.

## PROGRAM

### THURSDAY, FEBRUARY 7, 2019

- 7:00 – 7:55 Registration and Continental Breakfast
- 7:55 – 8:00 **Welcome and Conference Goals**
- 8:00 – 8:40 **Protocol Optimization for Body CT: What You Need to Know**  
Elliot K. Fishman, MD, FACR
- 8:40 – 9:20 **Radiation Dose in CT: Risks and Imaging Strategies**  
Marilyn J. Siegel, MD
- 9:20 – 10:00 **3D Imaging: Current State-of-the-Art**  
Elliot K. Fishman, MD, FACR
- 10:00 – 10:20 Refreshment Break
- 10:20 – 11:00 **High Resolution Chest CT: Part 1 - Lines and Nodules**  
Marilyn J. Siegel, MD
- 11:00 – 11:40 **Missed Diagnosis in CT: Pitfalls and Pearls**  
Elliot K. Fishman, MD, FACR
- 11:40 – 12:20 **High Resolution Chest CT: Part 2 – High and Low Density Opacities**  
Marilyn J. Siegel, MD
- 12:20 – 12:30 Questions and Answers Session
- 12:30 – 2:00 Lunch (on your own)
- 2:00 – 2:40 **Cardiac CT: How We Do It**  
Stefan Zimmerman, MD
- 2:40 – 3:20 **CT of Adrenal Masses: How to Optimize Lesion Classification**  
Elliot K. Fishman, MD, FACR
- 3:20 – 4:00 **Pre-Op Imaging of Thoracic and Abdominal Aneurysms**  
Stefan Zimmerman, MD
- 4:00 – 4:40 **CT of the Kidney: Renal Tumors**  
Elliot K. Fishman, MD, FACR
- 4:40 – 5:00 Questions and Answers Session

### FRIDAY, FEBRUARY 8, 2019

- 7:00 – 8:00 **Hands On Workstation Training 1**
- 8:00 – 8:40 **CT of the Pediatric Patient 2019: How We Do It**  
Marilyn J. Siegel, MD
- 8:40 – 9:20 **CT Evaluation of Hematuria**  
Elliot K. Fishman, MD, FACR
- 9:20 – 10:00 **CT Evaluation of Acute Aortic Emergencies**  
Linda Chu, MD
- 10:00 – 10:20 Refreshment Break
- 10:20 – 11:00 **TAVR: How We Do It**  
Stefan Zimmerman, MD
- 11:00 – 11:40 **CT Evaluation of the Post-Operative Aorta**  
Linda Chu, MD
- 11:40 – 12:20 **Pearls and Pitfalls of Cardiovascular Imaging**  
Stefan Zimmerman, MD
- 12:20 – 12:30 Questions and Answers Session
- 1:00 – 2:15 **Hands On Workstation Training 2**

### SATURDAY, FEBRUARY 9, 2019

- 7:00 – 8:00 **Hands On Workstation Training 3**
- 8:00 – 8:40 **CT Evaluation of Liver Masses**  
Elliot K. Fishman, MD, FACR
- 8:40 – 9:20 **MDCT Evaluation of Pancreatic Surgery Normal Post-Op and Complications**  
Linda Chu, MD
- 9:20 – 10:00 **Lessons in Leadership: Improving Your Practice**  
Karen M. Horton, MD
- 10:00 – 10:20 Refreshment Break
- 10:20 – 11:00 **Artificial Intelligence (AI) in Radiology: What You Need to Know**  
Karen M. Horton, MD
- 11:00 – 11:40 **MDCT of the Pancreas: Pearls and Pitfalls**  
Linda Chu, MD
- 11:40 – 12:20 **MDCT Angiography of Upper and Lower Extremity Trauma**  
Jan Fritz, MD
- 12:20 – 12:30 Questions and Answers Session
- 1:00 – 2:15 **Hands On Computer Training 4**

### SUNDAY, FEBRUARY 10, 2019

- 7:00 – 8:00 Continental Breakfast
- 8:00 – 8:40 **MDCT of the Spine: Pre-Operative Evaluation**  
Jan Fritz, MD
- 8:40 – 9:20 **CT Evaluation of the Stomach**  
Elliot K. Fishman, MD, FACR
- 9:20 – 10:00 **MDCT of the Spine: Post-Operative Evaluation**  
Jan Fritz, MD
- 10:00 – 10:20 Refreshment Break
- 10:20 – 11:00 **CT Evaluation of Small Bowel Tumors**  
Elliot K. Fishman, MD, FACR
- 11:00 – 11:40 **Dual Energy CT of the Musculoskeletal System: Technique, Protocols, and Clinical Applications**  
Jan Fritz, MD
- 11:40 – 12:20 **CT Evaluation of the Spleen**  
Elliot K. Fishman, MD, FACR
- 12:20 – 12:30 Questions and Answers Session
- 12:30 Adjourn

*You will receive an email notification to complete the evaluation form and to attest to the number of hours in attendance.*

*The registration desk will remain open during conference hours.*

## JOHNS HOPKINS SPEAKERS

**ELLIOT K. FISHMAN, MD, FACR**  
*Activity Director  
 Professor of Radiology and Radiological  
 Science, Oncology, Surgery and Urology  
 Director, Diagnostic Imaging and Body CT*

**KAREN M. HORTON, MD**  
*Professor and Chair  
 Professor of Radiology and Radiological  
 Science*

**LINDA CHU, MD**  
*Assistant Professor of Radiology and  
 Radiological Science*

**STEFAN ZIMMERMAN, MD**  
*Associate Professor of Radiology and  
 Radiological Science*

**JAN FRITZ, MD**  
*Associate Professor of Radiology and  
 Radiological Science*

## GUEST SPEAKERS

**MARILYN J. SIEGEL, MD**  
*Washington University School of Medicine  
 Edward Mallinckrodt Institute of Radiology  
 St. Louis, Missouri*

### TO REGISTER OR FOR FURTHER INFORMATION

Register Online <https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15354>  
 Register by Phone (410) 502-9636  
 Register by Fax (866) 510-7088  
 Confirmation/Certificates/Transcripts (410) 502-9636  
 General Information (410) 955-2959  
 E-mail the Office of CME [cmenet@jhmi.edu](mailto:cmenet@jhmi.edu)

Follow us on Twitter: <http://twitter.com/HopkinsCME>  
 Facebook: <http://www.facebook.com/HopkinsCME>

For general information, the direct link for this CME activity is:  
<https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15354>  
 Visit our CT Education Website: [www.CTISUS.com](http://www.CTISUS.com)

 Check out our mobile app **CloudCME**.  
 Organization Code: *HopkinsCME*

For website and CloudCME mobile app  
 technical difficulties, email: [cmtechsupport@jhmi.edu](mailto:cmtechsupport@jhmi.edu)

## UPCOMING CONTINUING MEDICAL EDUCATION ACTIVITIES

**HOT TOPICS IN BODY CT SCANNING:  
 WHAT YOU NEED TO KNOW**  
 Caesars Palace Hotel, Las Vegas, Nevada  
**November 15 – 17, 2018**

**HOT TOPICS IN BODY CT SCANNING:  
 WHAT YOU NEED TO KNOW**  
 Gaylord Hotels, Nashville, Tennessee  
**May 17 - 19, 2019**

## REGISTRATION FORM Course Number 80047573/15354

### 35TH ANNUAL COMPUTED BODY TOMOGRAPHY 2019: THE CUTTING EDGE

**February 7-10, 2019**  
**TO REGISTER:**

**Online:** <https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=15354>  
**By fax:** (866) 510-7088 **By phone:** (410) 502-9636

Or mail this form to the Johns Hopkins University, Office of Continuing Medical  
 Education, 720 Rutland Avenue, Room 20, Baltimore, Maryland 21205-2195.  
 Include e-check or credit card information below.

FULL PAYMENT IS REQUIRED PRIOR TO THE START OF ACTIVITY.

**I am a Johns Hopkins speaker for this activity.**

*Please type or print clearly:*

|                                       |                   |                  |                                     |      |
|---------------------------------------|-------------------|------------------|-------------------------------------|------|
| last name                             |                   | first name       |                                     | m.i. |
| highest degree                        | primary specialty |                  | Hopkins faculty/staff only: JHED ID |      |
| For Physicians Only - NPI 10 Digit #: |                   | State License #: | State of License:                   |      |
| organization                          |                   | mailing address  |                                     |      |
| city                                  | state             | ZIP + 4 code     | country                             |      |
| daytime telephone                     |                   | fax number       |                                     |      |
| e-mail (required)                     |                   |                  |                                     |      |

Check here if you wish to receive e-mail notices about upcoming CME activities.

I plan to stay at the Loews Portofino Hotel in Universal Orlando, Florida.

What do you hope to learn by attending this activity?

Please notify us if you have any special needs.

**Workshops:** Each participant will attend one workshop. Please select in order of preference—1, 2, 3, or 4.

**Friday, February 8, 2019:**

\_\_\_ Session 1, 7:00-8:00 AM  
 \_\_\_ Session 2, 1:00-2:15 PM

**Saturday, February 9, 2019:**

\_\_\_ Session 3, 7:00-8:00 AM  
 \_\_\_ Session 4, 1:00-2:15 PM

**Registration Fees:**

**By/After November 30, 2018**

Physicians ..... \$695/\$795  
 Residents\*/Fellows\*/Technologists/  
 Allied Health Professionals ..... \$550/\$650  
 \*with verification of status  
 Retired and Military Personnel ..... \$495

The registration fee includes instructional materials, food and beverage.

For registrations received after 5:00 p.m. EST on **January 31, 2019**, include a \$50 late fee.  
 On-site registrations are payable only by credit card.

**JHU Faculty/Staff Only:** If you are using your Tuition Remission Benefit or an ION budget, please  
 upload your fully completed and approved form in the payment section of the online activity link above.

TR Form: <http://benefits.jhu.edu/documents/trffacandstaff.pdf>

ION Form: <http://hopkinscme.edu/migration/IonRequest.pdf>

Total amount \$ \_\_\_\_\_

**Payment Type:**

**e-Check:** Routing # \_\_\_\_\_ Account # \_\_\_\_\_

Credit Card:  VISA  MASTERCARD  DISCOVER  AMEX

Card # \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date \_\_\_\_\_

Billing Zip Code \_\_\_\_\_ Security Code \_\_\_\_\_

Name on Card

Signature and Date