

# 16<sup>th</sup> INTERNATIONAL STEREOTACTIC RADIOSURGERY SOCIETY CONGRESS



# ISRS 2024

# U \* S \* A MAY 12-15

MARRIOTT MARQUIS  
TIMES SQUARE

## ISRS 2024 – Personalized Radiosurgery from Around the World

The 2024 ISRS congress will showcase recent advances that further personalize and facilitate stereotactic radiosurgery, stereotactic body radiotherapy and related focal therapy techniques for benign and malignant as well as functional conditions. Sharing ideas and knowledge from around the world and across disciplines helps standardize approaches, drive innovation and discover areas of needed research, leading to improved patient outcomes and cutting-edge standards of care.

### Target Audience

Physicians, neurosurgeons, residents, fellows, nurse practitioners, Physician Assistants, Researchers, Scientists, and PhDs whose interest is in latest developments and innovations in the field of stereotactic radiosurgery (SRS), stereotactic body radiation therapy (SBRT) and related focal therapies.

### Learning Objectives

- Identify and discuss stereotactic radiation treatments for benign and malignant tumors, and functional disorders across the different levels of care providers.
- Describe novel targeting and imaging advances as they relate to CNS Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy across the different levels of care providers.
- Present updated knowledge and discuss how to integrate this into clinical practice across the different levels of care providers.

## Congress Co-Directors

Lilyana Angelov, MD – Cleveland Clinic, Cleveland, OH USA

Gene Barnett, MD – Cleveland Clinic, Cleveland, OH USA

Samuel Chao, MD – Cleveland Clinic, Cleveland, OH USA

Marc Levivier, MD – CHUV/ University of Lausanne, Lausanne, Switzerland

John Suh, MD – Cleveland Clinic, Cleveland, OH USA

## Planning Committee

Ran Harel, MD - Sheba Medical Center

Motohiro Hayashi MD - Tokyo Women's Medical University Hospital

Susan Jakubek, PA-C – Cleveland Clinic, Cleveland, OH USA

Tehila Kaisman-Elbaz, MD - Sheba Medical Center

Sylvia Ng, MD - Sunnybrook Health Sciences Centre

Michelle Ogrin, MSN – Cleveland Clinic, Cleveland, OH USA

Piero Picozzi, MD - Humanitas Research Hospital

Arjun Sahgal, Sunnybrook Health Sciences Centre, Toronto, Ontario Canada

Jason Sheehan, MD, PhD - University of Virginia, Charlottesville, VA USA

Shankar Siva, PhD - Peter MacCallum Cancer Centre

Alison Tree, MD - The Royal Marsden NHS Foundation Trust

Loreta Yanez, MD - Arturo Lopez Perez Foundation

In joint providership with



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### **Accreditation**

In support of improving patient care, this activity has been planned and implemented by Cleveland Clinic Center for Continuing Education and the International Stereotactic Radiosurgery Society. Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### **American Medical Association (AMA)**

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 24.5 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

### **Certificate of Participation**

A certificate of participation will be provided to other health care professionals for requesting credits in accordance with their professional boards and/or associations.

### **• American Nurses Credentialing Center (ANCC)**

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 24.5 ANCC contact hours.

### **• American Academy of PAs (AAPA)**

Cleveland Clinic Center for Continuing Education has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 24.5 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

### **American Board of Surgery (ABS) MOC**

Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to earn credit toward the American Board of Surgery's Continuous Certification program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting ABS credit.

### **Disclaimer Statement**

The information in this educational activity is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient's medical condition. The viewpoints expressed in this CME activity are those of the authors/faculty. They do not represent an endorsement by The Cleveland Clinic Foundation. In no event will The Cleveland Clinic Foundation be liable for any decision made or action taken in reliance upon the information provided through this CME activity.

### **Health & Safety**

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. Additional attendance requirements may be implemented to ensure attendee health and safety.

**The Cleveland Clinic Center for Continuing Education  
 Faculty Disclosure**

**ISRS 2024 - Personalized Radiosurgery from Around the World**

In accordance with the Standards for Integrity and Independence issued by the Accreditation Council for Continuing Medical Education (ACCME), The Cleveland Clinic Center for Continuing Education mitigates all relevant conflicts of interest to ensure CME activities are free of commercial bias.

The following faculty have indicated that they may have a relationship, which in the context of their presentation(s), could be perceived as a potential conflict of interest:

**Manmeet Ahluwalia, MD**

Cellularity	Consulting
Carin Therapeutics	Consulting Advisor or review panel participant
Menarini Ricerche	Consulting
Sumitomo Pharma Oncology	Consulting
Autem Therapeutics	Consulting
Modifi Biosciences	Advisor or review panel participant
MedInnovate Advisors LLC	Ownership interest (stock, stock options in a publicly owned company)
Trisalus Lifesciences	Ownership interest (stock, stock options in a publicly owned company)
Bugworks	Ownership interest (stock, stock options in a publicly owned company)
GSK	Consulting
Bayer Healthcare	Consulting
Elsevier	Consulting Other activities from which remuneration is received or expected: editorial board
Insightec	Consulting
Janssen	Consulting
Varian Medical Systems	Consulting
Novocure	Consulting
Viewray	Consulting
Caris Life Sciences	Consulting
Voyager Therapeutics	Consulting
Wiley Publishing Company	Intellectual property rights (Royalties or patent sales)
Tocagen	Consulting
Bayer	Consulting
Mimivax	Ownership interest (stock, stock options in a publicly owned company)
KIYATEC Inc.	Consulting
Cytodyn	Ownership interest (stock, stock options in a publicly owned company)
GT Medical Technologies, Inc.	Consulting
Seagen	Other activities from which remuneration is received or expected: Grant
Anheart Therapeutics	Consulting
Apollomics	Consulting
Nuvation Bio	Consulting
Prelude Therapeutics	Consulting

	Pyramid Biosciences	Consulting Advisor or review panel participant
	SDP Oncology	Consulting
	Theraguix	Consulting
	Xoft	Consulting
	Allovir	Consulting
	Equillium Biotechnology	Consulting
	Trisalus	Ownership interest (stock, stock options in a publicly owned company)
<b>Luigi Albano, MD</b>	Boston Scientific	Research: I received research supports from Boston Scientific for a clinical trial
<b>Anna Balossier, MD</b>	Medtronic	Consulting
	boston	Consulting
	Grunenthal	Teaching and Speaking
<b>Gene Barnett, MD</b>	Monteris Medical	Consulting Advisor or review panel participant
<b>Thomas Beckham, MD</b>	GT Medical Technologies, Inc.	Consulting
<b>Steve Braunstein, MD</b>	Icotec	Consulting
	GT Medical Technologies, Inc.	Consulting
	Novocure	Consulting
<b>Markus Bredel, MD</b>	Varian Medical Systems	Consulting Advisor or review panel participant Teaching and Speaking Research: Investigator-initiated research grant (clinical trial): Principle Investigator
	MRIMath LLC	Consulting
<b>David Byun, MD</b>	Philips Healthcare	Teaching and Speaking
<b>Pablo Castro Pena, MD</b>	Varian Medical Systems	Consulting Teaching and Speaking
<b>Eric Chang, MD</b>	Elekta	Teaching and Speaking
	Icotec	Teaching and Speaking
<b>Samuel Chao, MD</b>	Varian Medical Systems	Teaching and Speaking
	General Electric	Other activities from which remuneration is received or expected: Honorarium
	Blue Earth Diagnostics, Inc.	Research: Coordinating Investigator
<b>Veronica Chiang, MD</b>	Monteris Medical	Consulting
<b>Caroline Chung, MD</b>	Siemens Healthineers	Research: PI
	RaySearch Laboratories	Research: PI
<b>Michael Chuong, MD</b>	Viewray	Consulting Teaching and Speaking Research: PI
	Novocure	Research: PI
<b>Christopher P Cifarelli, MD</b>	Carl Zeiss	Teaching and Speaking
<b>Elena De Martin, MSc</b>	Accuray	Teaching and Speaking
<b>Matthew Foote, MD</b>	Elekta	Consulting Teaching and Speaking Research: principle and co-investigator
	Varian Medical Systems	Consulting Teaching and Speaking

<b>Josa Frischer, MD</b>	Lilly / Takeda	Advisor or review panel participant Teaching and Speaking
<b>Isabelle Germano, MD</b>	BrainLAB	Consulting
<b>Amol Ghia, MD</b>	Brainlab, Inc.	Teaching and Speaking
<b>Iris C. Gibbs, MD</b>	Accuray	Other activities from which remuneration is received or expected: Honoraria for lectures
<b>Karyn Goodman, MD</b>	RenovoRx	Advisor or review panel participant
<b>Wenbo Gu, PhD</b>	Varian Medical Systems	Research: PI of Varian funded project
<b>Adrian Gutierrez, PhD</b>	BrainLAB	Teaching and Speaking
<b>Patrick Hanssens, MD</b>	Elekta	Teaching and Speaking
<b>Maciej Harat, MD</b>	Novocure	Research: Principal Investigator
<b>Ran Harel, MD</b>	Matricelf	Consulting
	Curvature	Consulting
	Nurami	Consulting
	Medtronic	Consulting Teaching and Speaking
	Surgical Theatre, LLC	Consulting
	Premia Spine	Consulting
<b>Lauren Henke, MD</b>	LusoPalex	Teaching and Speaking
	Varian Medical Systems	Consulting Teaching and Speaking Research: Principal investigator, co-principal investigator for Varian-grant-funded clinical trials
	Viewray	Advisor or review panel participant Teaching and Speaking
	Radialogica	Consulting
	Elekta	Advisor or review panel participant
<b>Shakardokht Jafari, PhD</b>	Trueinvivo	Executive-level Board Member
<b>Michelle Kim, MD</b>	Blue Earth Diagnostics, Inc.	Research: Co-investigator
<b>John Paxton Kirkpatrick, MD</b>	Varian Medical Systems	Research: Research Funding
	Monteris Medical	Consulting
	ClearSight RT, LLC	Intellectual property rights (Royalties or patent sales) Ownership interest (stock, stock options in a publicly owned company)
	BioMimetix JV, LLC	Research: {rincipal Investigator
<b>Douglas Kondziolka, MD</b>	Neuropoint Alliance	Research: data collection
<b>Rupesh Kotecha, MD</b>	Cantex Pharmaceuticals, Inc.	Research: Principal Investigator
	Plus Therapeutics	Other activities from which remuneration is received or expected: DSMB
	Astra Zeneca	Research: Principal Investigator
	Elsevier	Advisor or review panel participant
	Insightec	Consulting
	Accuray	Advisor or review panel participant Teaching and Speaking
	BrainLAB	Teaching and Speaking
	Elekta	Teaching and Speaking
	Medtronic	Research: Principal Investigator
	Exelixis	Research: Principal Investigator
	Novocure	Consulting Advisor or review panel participant Research: Principal Investigator

	Viewray	Consulting Teaching and Speaking
	Blue Earth Diagnostics, Inc.	Research: Principal Investigator
	Kazia Therapeutics Ltd	Consulting Research: Principal Investigator
	GT Medical Technologies, Inc.	Other activities from which remuneration is received or expected: DSMB Research: Principal Investigator
<b>Kiran Kumar, MD</b>	Varian Medical Systems	Teaching and Speaking
	VisionRt	Teaching and Speaking
<b>Jing Li, MD</b>	Bristol-Myers Squibb Co.	Research: research funding to the institution to support a clinical trial
	Medtronic	Research: research funding to the institution to support clinical trial
	Servier Laboratories	Advisor or review panel participant
<b>Haisong Liu, PhD</b>	BrainLAB	Research: Principal Investigator
<b>Simon Lo, MD</b>	Elekta	Other activities from which remuneration is received or expected: Research support as a group (Elekta AB ICON Gamma Knife Expert Group)- Ended December 31, 2022
<b>Alex Louie, MD</b>	Astra Zeneca	Advisor or review panel participant Teaching and Speaking
<b>Eduardo Lovo, MD</b>	Accuray	Teaching and Speaking
	Elekta	Teaching and Speaking
<b>Michael W. Mcdermott, MD</b>	Stryker, Light Helmet, Deinde, ZAP	Consulting Ownership interest (stock, stock options in a publicly owned company)
<b>Giuseppe Minniti, MD</b>	Brainlab, Inc.	Teaching and Speaking
	Accuray	Teaching and Speaking
<b>Alireza M Mohammadi, MD</b>	Monteris Medical	Consulting
<b>Alexander Muacevic, MD</b>	Accuray	Teaching and Speaking
	ZAP Surgical Systems	Teaching and Speaking
<b>Sten Myrehaug, MD</b>	Novartis Oncology	Advisor or review panel participant
	IPSEN	Advisor or review panel participant
<b>Gennady Neyman, PhD</b>	Elekta	Consulting
<b>Ian Paddick, MSc</b>	Elekta	Consulting Advisor or review panel participant Teaching and Speaking Research: Principal Investigator
	Varian Medical Systems	Teaching and Speaking
	ZAP Surgical Systems	Teaching and Speaking
<b>Joshua David Palmer, MD</b>	Genentech	Research: Principal Investigator of Trial
	ICOTEC	Consulting
	NIH	Research: PI of a research Study R01
<b>Luke Pike, MD</b>	Monte Rosa Therapeutics	Consulting
	Genece Health	Consulting Research: PI
	DxCover	Consulting
	Harbinger Health	Research: PI
	Delfi Diagnostics	Research: PI
	Caris Life Sciences	Research: PI

<b>Kristin Redmond, MD</b>	Accuray	Research: PI
	Elekta	Other activities from which remuneration is received or expected: travel expenses Research: member of oligmetastasis consortium funded by Elekta AB
	Canon Medical Systems USA, Inc BioMimetix JV, LLC	Research: PI Other activities from which remuneration is received or expected: Data safety monitoring board
<b>Jean Regis, MD</b>	ictotec	Research: PI
	Elekta Medtronic Boston Scientific Abbott	Consulting Consulting Consulting Consulting
<b>Michele Rigo, MD</b>	Elekta	Teaching and Speaking
<b>James Robar, PhD</b>	Varian Medical Systems	Consulting Teaching and Speaking Research: Clinical studies related to HyperSight solution and Ethos adaptive radiotherapy
<b>Arjun Sahgal, MD</b>	Elekta	Consulting Other activities from which remuneration is received or expected: Research grant, honorarium for past educational seminars, travel expenses Teaching and Speaking
	Varian Medical Systems	Teaching and Speaking
	Astra Zeneca	Teaching and Speaking
	Seagen	Teaching and Speaking
	Carbofix	Teaching and Speaking
<b>David Schlesinger, PhD</b>	Abbvie Pharmaceuticals	Research: Co-investigator on a (completed) sponsored project to evaluate the performance of a skin wound implant in the setting of radiation therapy. Research is unrelated to the topics of my planned presentations.
<b>Ben Slotman, MD</b>	Varian Medical Systems	Teaching and Speaking
<b>Scott Gerard Soltys, MD</b>	Accuray	Consulting Teaching and Speaking
	Novocure	Consulting Research: PI
	Brainlab, Inc.	Teaching and Speaking
<b>Paul Sperduto, MD</b>	Varian Medical Systems	Consulting
<b>Glen H Stevens, DO</b>	DynaMed	Consulting
<b>John Suh, MD</b>	Novocure	Consulting
	Neutron Therapeutics	Consulting
	EmpNia	Consulting
	MedLever	Intellectual property rights (Royalties or patent sales)
<b>Alison Tree, MD</b>	Elekta	Teaching and Speaking Research: Institutional research grants, institutional payments for my role as MR linac CSC chair
	Accuray	Teaching and Speaking Research: Institutional research grant
	Varian Medical Systems	Research: Institutional research funding
<b>Daniel M Trifiletti, MD</b>	Boston Scientific	Consulting
<b>Derek Tsang, MD</b>	Need ( <a href="https://www.getneed.com">https://www.getneed.com</a> )	Consulting Ownership interest (stock, stock options in a publicly owned company)

	Elekta	Teaching and Speaking
<b>Chia-Lin Tseng, MD</b>	Elekta	Other activities from which remuneration is received or expected: Travel accommodations/expenses Teaching and Speaking
	Abbvie Pharmaceuticals	Teaching and Speaking
<b>Lucas Vitzthum, MD</b>	Reflexion Medical	Research: Principal investigator on clinical trial
<b>Tony Wang, MD</b>	Elekta	Consulting Teaching and Speaking
	Abbvie Pharmaceuticals	Consulting Other activities from which remuneration is received or expected: Travel expenses Research: Radiation Oncology Co-Chair of RTOG 3508F
	Merck	Research: Co-Investigator of a recurrent glioblastoma study
	Wolters-Kluwer	Intellectual property rights (Royalties or patent sales)
	RTOG Foundation	Consulting Research: Radiation Oncology Co-Chair of RTOG 3508
	Genentech	Consulting Research: Receive drug funding support for a prospective clinical trial in development
	Varian Medical Systems	Research: Principal Investigator of a trial
	Iylon Precision	Consulting Advisor or review panel participant
	Cancer Panels	Consulting
	Doximity	Ownership interest (stock, stock options in a publicly owned company)
<b>Cari Whyne, PhD</b>	Brainlab, Inc.	Other activities from which remuneration is received or expected: Conference presentation and discussions re licensing
<b>Josh (Yoshiya) Yamada, MD</b>	chordoma foundation	Advisor or review panel participant
	University of Wollongong	Advisor or review panel participant
	BrainLAB	Teaching and Speaking
	Varian Medical Systems	Research: principle investigator
<b>Youngjin Yoo, PhD</b>	Siemens Medical Solutions, Inc	Employment
<b>Michael Zelefsky, MD</b>	Boston Scientific	Consulting

The following faculty have indicated they have no relationship which, in the context of their presentation(s), could be perceived as a potential conflict of interest:

**Muhammad Ali, MBBS**  
**Juan Alzate, MD**  
**Lilyana Angelov, MD**  
**Hamza Benmakhlouf, MD**  
**Kenneth Bernstein, MS**  
**Isa Bossi Zanetti, MD**  
**Laura Burgess, MD**  
**Jenghwa Chang, PhD**  
**Rovel Colaco, MBChB**  
**Stephanie Combs, MD**  
**Rohann Correa, MD**  
**Michael D. Cusimano, MD**  
**Jakub Cvek, PhD**  
**Gregory Czarnota, MD**  
**Andrew Davidson, MBBS**  
**Antonio A De Salles, MD**  
**Luke del Balzo, BS**  
**Patrick Delage, MSc**  
**Jay Detsky, MD**  
**Erin Dunbar, MD**  
**Valeria Faccenda**  
**Hatim Fakir, PhD**  
**Laura Fariselli, MD**  
**Fatemeh Fekrmandi, MD**

**Alberto Franzin, MD**  
**Peter Gerszten, MD**  
**Thierry Gevaert, PhD**  
**Andrey Golanov, MD**  
**Joao Gabriel Gomes, MD**  
**Alessandra Gorgulho, MD**  
**Yun Guan, MD**  
**Matthias Guckenberger, MD**  
**Cecelia Gzell, PhD**  
**Scott Hamilton, N/A**  
**Motohiro Hayashi, MD**  
**Stephen Holmes, MD**  
**David Horowitz, MD**  
**Whitney Hotsinpiller, MD**  
**Michael Huo, MBBS**  
**Susan Jakubek, PA-C**  
**Randy Jensen, MD**  
**RAFI KABARRITI, MD**  
**Tehila Kaisman-Elbaz, MD**  
**Atsuto Katano, PhD**  
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**Jonathan Knisely, MD**  
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**Domagoj Kosmina, MS**

**Georgios Kritselis, MD**  
**Matthew Ladra, MD**  
**Maarten Lambrecht, MD**  
**John Yk Lee, MD**  
**Michael Lee, MBBS**  
**Yoo Young Lee, MBChB**  
**Marc Levivier, MD**  
**Michael Link, MD**  
**Szu-Hao Liu, MD**  
**Morten Lund-Johansen, MD**  
**Pejman Jabejdar Maralani, MD**  
**David Mathieu, MD**  
**Jaromir May, MD**  
**Ying Meng, MD**  
**Michael Milano, MD**  
**Akash Mishra, BS**  
**Ramin Morshed, MD**  
**Oscar Muriano, MD**  
**Erin S Murphy, MD**  
**Sylvia Ng, MD**  
**Luca Nicosia, MD**  
**Ajay Niranjani, MD**  
**Mateja Noznic, RTT**  
**Michelle (Shelley) Ogrin, MSN**



Wee Loon Ong, MD  
Kaan Oysul, MD  
Koray Ozduman, MD  
Denis Panizza, PhD  
Sridhar Papaiah Susheela, MBBS  
Evangelos Pappas, PhD  
Cristiana Pedone, MD  
Anna Petoukhova, PhD  
Piero Picozzi, MD  
Erqi Pollom, MD  
Rachel Radigan, MPH  
Daniel Ruess, MD  
Samuel Ryu, MD  
Rachel Sabol, MD  
Morena Sallabanda, MD  
Antonio Santacroce, MD  
Brandon Santhumayor, BA  
Michael Schulder, MD  
Michael Schwartz  
Roberta K Sefcik, MD  
Ahmed Shaaban, MD  
Mihir Daya Shanker, MBBS  
Jason Sheehan, MD, PhD  
Yigal Shoshan, MD  
Robert Sierra, BA  
Charles Simone, MD  
Shankar Siva, PhD  
Bente Sandvei Skeie, MD  
Robert Smee, MBBS  
Timothy Solberg, PhD  
Herwin Speckter, MSc  
Roberto Spiegelmann, MD  
Kevin Stephans, MD  
Cristina Teixeira  
Pallavi Tiwari, PhD  
Constantin Tuleasca, MD  
Neelam Tyagi, PhD  
Cristian Udovicich, MBBS  
Dusan Urgosik, MD  
Shankar Vangipurapu, MD  
Enmin Wang, MD  
Lei Wang, PhD  
Loreta Yanez, MD  
Lee Ye won, MD  
Shoji Yomo, MD  
Hua Guang Zhu, MD  
Benjamin Paul Ziemer, PhD

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## ISRS 2024 – Personalized Radiosurgery from Around the World

### HOW TO OBTAIN *AMA PRA CATEGORY 1 CREDITS™* OR CERTIFICATE OF PARTICIPATION:

**\*Note - The ability to claim CME credit will be available by Friday, May 24, 2024. An email will be sent to participants with the link to complete the evaluation form and obtain your certificate.**

1. Go to [www.cfcme.org/cmelogin](http://www.cfcme.org/cmelogin) to begin the activity evaluation and print your certificate. You have 30 days following the activity to claim credit.

2. **New Users:** By attending this activity, an account has been created for you. Please follow these steps:

- Click on **'Reset Password.'**
- Enter email address used for registration.
- Click on **'Request Password Reset.'**
- You will receive an email to reset your password.

#### **Existing Users:**

- Enter email address used for registration.
- Enter password.

3. Select, "Click here to Complete Evaluation" and complete all questions.

4. Select the number of credits you are claiming by either using

**(a)** the drop-down

**OR**

**(b)** checking the box marked 'maximum available.'

5. Click **'Save and View Certificate.'**

6. Your official certificate will be displayed. Please print and keep with your permanent files. You may also access your account at any time to view and/or print CME certificates and transcripts.

\*\* If you need assistance, contact the CME office at 216.444.9990 or [myCME@ccf.org](mailto:myCME@ccf.org).