

BEST PRACTICES AND EMERGING TRENDS



Program Guide



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NETWORKING OPPORTUNITIES

YOUNG PROFESSIONALS NETWORKING EVENT

Friday, March 25, 2022, from 1:00 p.m. - 2:00 p.m. Eastern time

This is an invaluable opportunity for any attendee who is early in their career to speak with and learn from experts in the field. Join faculty in an informal setting to discuss topics such as how to build a network outside of your institution, how to establish yourself as a clinical investigator, how to evaluate job opportunities and how to move on after your first job. By attending, you will gain meaningful insight into career paths and development that will help support you in your medical career.

EXPERT BREAKOUTS

Saturday, March 26, 2022, from 1:00 p.m. - 2:00 p.m. Eastern time

During the Expert Breakouts, attendees can join informal discussions where experts will be available to converse about whatever the group would like to discuss (it could be anything from career advice to discussion about a challenging case).



LIVE SA-CME SESSIONS

MAINTENANCE OF CERTIFICATION

Special sessions have been designated as Live Self-Assessment CME (SA-CME) sessions to help physician and physicist attendees meet the requirements of the American Board of Radiology's (ABR) Maintenance of Certification (MOC) program. Attendees who participate in all six Live SA-CME sessions can earn a total of 8.5 MOC Part II SA-CME credits.

PARTICIPATION GUIDELINES AND POLICIES

- Attendance at the Live SA-CME sessions is open to all paid meeting attendees; however, only Live SA-CME ticket holders are eligible to earn SA-CME credit.
- A \$50 registration fee for each of the ticketed SA-CME components is required and can be purchased with your meeting registration.
- Access your Live SA-CME sessions by logging into ASTRO Academy (https://academy.astro.org/) using your ASTRO credentials. Your purchased SA-CME sessions will be listed on the home page under the Pending Activities section (scroll down on the home page).
- Navigate through the course progress to complete the assessment, view feedback, see a peer comparison, claim your credit and view your certificate.
- To earn credit for your participation, you must earn a minimum score of 80% on the assessment questions. You can retake the assessment as many times as needed until April 27, 2022.
- You can print your certificate at any time from your MOC transcript (under Completed Activities). If you choose, you can have your credits automatically transferred to the ABR through the credit gateway.
- No refunds, extensions or substitutions will be made for those registrants who, for any reason, were unable to attend.
- No credits will be granted and no refunds, exchanges or transfers will be given to those who do not pass.

LIVE SA-CME SESSIONS

The lecture portion of the following Live SA-CME sessions meets the American Board of Radiology's (ABR) criteria for a self-assessment activity in the ABR MOC Program:

Friday, March 25, 2:00 p.m. – 3:30 p.m. ET

Lung – Russell Hales, MD

(1.5 SA-CME Credit)

Friday, March 25, 3:45 p.m. -5:15 p.m. ET

Central Nervous System – Christina Tsien, MD

(1.5 SA-CME Credits)

Saturday, March 26, 10:00 a.m. – 11:30 a.m. ET

Gynecologic – Lara Hathout, MD, FRCPC and Mitchell

Kamrava, MD

(1.5 SA-CME Credits)

Saturday, March 26, 1:30 p.m. – 3:00 p.m. ET

Breast – Mylin Torres, MD

(1.5 SA-CME Credit)

Saturday, March 26, 3:00 p.m. – 4:00 p.m. ET Lymphomas – Bradford Hoppe, MD, MPH (1.0 SA-CME Credit)

Sunday, March 27, 2:15 p.m. – 3:45 p.m. ET Head and Neck – Sue Yom, MD, PhD, FASTRO (1.5 SA-CME Credits)



eCONTOURING WEBINAR SERIES

Extend your learning beyond the 2022 ASTRO Annual Refresher Course with two companion webinars that give attendees the opportunity to learn and practice Gynecologic and Breast contouring target delineation, quality assurance and accuracy.

Each attendee receives access to the online cases for practice and reference as well as the ability to compare their contours with those of the expert faculty.

The webinars will include access to practice cases via hands-on cases, a didactic lecture and a question-and-answer portion. Registrants will also have access to the recording and practice cases after the live event to continue to reference and practice.



UPCOMING eCONTOURING WEBINARS

May 5, 2022, at 2:00 p.m Eastern time eContouring for Breast Cancer (1.5 CME Credits)

May 11, 2022 at 5:00 p.m. Eastern time eContouring for Gynecologic Cancer
(1.5 CME Credits)

In addition to receiving CME credits, participants may choose to use their *e*Contouring case(s) as the basis of a <u>PQI project</u> as part of their maintenance of certification.

eContouring webinar registrants will receive access to the homework cases, case vignettes and references two weeks before the webinar via ASTRO Academy.

OUESTIONS?

Contact Education@astro.org.



GENERAL INFORMATION

REGISTRATION

Online registration will be open throughout the event. If you still need to register for the 2022 ASTRO Refresher Course, visit www.astro.org/refresherreg.

If you pre-registered and wish to add a networking event or additional add-on items to your existing registration, you can modify your registration. In your registration confirmation email, select the "Cancellation/Changes" link to modify your registration. Please be sure to have your confirmation number and email ready to log in.

To view the cancellation and refund policies, please visit www.astro.org/refresherpolicies.

If you have any registration questions, please contact meetings@astro.org.

FORMAT

The Virtual Conference will be delivered using Zoom. The meeting links will be sent via email. Be sure to <u>test your</u> connection with Zoom before the start of the conference. If you have problems, email education@astro.org.

RECORDING

No audio recording, video recording or photography is permitted.

INTERACTION DURING THE MEETING

- Post and upvote questions using the links that will be posted in the chat during the meeting. Questions will be addressed during the Live Q&A sessions.
- Continue conversations with other attendees in the exclusive ROhub community.
- Connect and share on social media using #Refresher22.
- Interact with exhibitors in the Virtual Exhibit Hall. Companies will have photos and videos of their products and services, downloadable PDFs and more available via their exhibit listings.

EXHIBIT HALL WEBSITE

We are excited to have leading industry partners participate as exhibitors this year at the 2022 Annual Refresher Course. We encourage you to visit the <u>Virtual Exhibit Hall</u> to interact with exhibitors by visiting their virtual booth by joining with their conference link (if available), filling out their virtual business card or utilizing the contact methods listed at the bottom of their booth.

Please note that the Virtual Exhibit Hall will be open for 90 days after the 2022 ASTRO Refresher Course concludes and will close on June 25, 2022.

CONTINUING MEDICAL EDUCATION

PROGRAM CONTENT/FORMAT

This course is designed to provide clinicians in practice and trainees with a comprehensive review and update of the clinical practice parameters across most sub-disciplines of radiation oncology, including sarcomas, pediatrics and the role of radiotherapy in the multidisciplinary management of cancer patients. The course will review key evidence that forms the basis for current clinical practice guidelines and trends in new approaches. In addition, the course will cover the potential of FLASH radiotherapy to improve the therapeutic ratio in radiotherapy.

STATEMENT OF NEED

It is challenging for busy clinicians to stay current with the latest updates in the disease sites they treat. Information is disseminated rapidly in journal articles, webinars, podcasts and social media. Summarizing this information in a reasonable and memorable format is a great service to the specialty. The effective and safe practice of radiation oncology requires a mastery of rapidly evolving technology and ever-changing treatment paradigms. Staying current with these changes and mastering new approaches such as hypofractionation and SBRT is essential for patient safety and improved survival and is a need that the ASTRO Refresher courses can fill.

PROGRAM OBJECTIVES

Upon completion of this live activity, attendees should be able to do the following:

- Describe and implement the latest radiation therapy treatment recommendations for clinical scenarios commonly encountered in clinical practice.
- Safely utilize the latest radiation technologies to improve patient care.
- Incorporate hypofractionation into appropriate disease sites.
- Appropriately incorporate the treatment of oligometastases into clinical practice.

ELEMENTS OF COMPETENCE

This educational forum has been designed to narrow the competency gap of patient care, medical knowledge, practice-based learning and improvement, patient-centered care, evidence-based practice, professional standing and commitment to lifelong learning, seven of the 19 core competencies embraced by the American Board of Medical Specialties, the Accreditation Council for Graduate Medical Education, the Institute of Medicine, the American Board of Radiology and the Accreditation Council for Continuing Medical Education.

TARGET AUDIENCE

The meeting is designed to meet the interests of practicing radiation oncologists, radiation oncology residents, medical and clinical physicists, nurses and all other health professionals involved in the field of radiation oncology.

CONTINUING EDUCATION CREDITS

Physicians

The American Society for Radiation Oncology (ASTRO) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

ASTRO designates this live activity for a maximum of 18 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physicists

An application to the Commission on Accreditation of Medical Physics Education Program (CAMPEP) has been submitted for Medical Physics Continuing Education Credits (MPCEC).

EVALUATION

To be eligible to receive continuing education credit, attendees must complete the online evaluation by April 27, 2022. To access your evaluation:

- Log into the Academy (academy.astro.org) using your ASTRO credentials.
 - Your email is the one you used to register for the meeting.
 - If you don't remember your password, click "Forgot My Password."
- Click the meeting name to take the evaluation and to receive continuing education credits.
- Please only evaluate the sessions you attended.

CERTIFICATES OF CREDIT

Participants can access, print and save their certificate all in the ASTRO Academy. Participants will have online access to their certificate upon completion of the evaluation. Participants must complete the evaluation within 30 days; after 30 days, the evaluation will no longer be accessible. If you miss the deadline and still want to claim credits and receive a certificate, you will need to contact the Education Department (education@astro.org) and self-attest for your credits.

For attendees seeking CAMPEP credits, credits will be submitted to CAMPEP approximately 45 days post meeting. Any credits claimed after the evaluation deadline of Wednesday, April 27, 2022, will not be submitted by ASTRO to CAMPEP.

DISCLOSURE OF VESTED INTEREST

ASTRO is an accredited provider of continuing medical education. Since our accreditation is important to us, we plan activities that are compliant with the ACCME, and the content or format of CME activities and related materials will promote improvements or quality in health care and not a specific proprietary business interest or commercial bias. Planning Committee members and speakers are required to disclose the existence of any financial or other relationship with the manufacturer(s) of any commercial product(s) or provider(s) of any commercial service(s) discussed in an educational presentation.

Any conflicts of interest are resolved prior to participation. In addition to written disclosure, presenters will disclose any vested interest or their intention to discuss off-label use of pharmaceuticals or devices, if applicable, to the audience at the beginning of their presentation and in accordance with ACCME standards and Food and Drug Administration requirements.

In an effort to increase transparency and easy access to all disclosures, faculty, committee and presenter disclosure information will be available online for the 2022 ASTRO Annual Refresher Course. In addition to being available online at www.astro.org/refresher, disclosure slides will be shown at the beginning of each session.

DISCLAIMER

ASTRO is committed to the free exchange of medical education. Inclusion of any presentation in this program, including presentations of off-label uses, does not imply an endorsement by ASTRO of the uses, products or techniques presented.

The information contained in this program is current as of March 16, 2022 and is subject to change. Program changes, if any, will be posted online at www.astro.org/refresher.

PLANNING COMMITTEE

Beth Erickson, MD, FASTRO *Program Chair* Medical College of Wisconsin

Paul Nguyen, MD *Clinical Co-chair*Brigham and Women's Hospital

Wolfram Laub, PhD, MBA
Physics Co-chair
Associates in Medical Physics

Gayle Woloschak, PhD, FASTRO Radiobiology Co-chair Northwestern University



PROGRAM AGENDA

Session planning information and references (as provided by faculty) are available on the meeting website (www.astro.org/refresher) along with other resources to help extend and enhance learning.

All session times are listed in the Eastern time zone.

FRIDAY, MARCH 25

9:50 a.m. - 10:00 a.m.

Welcome

 Beth Erickson, MD, FACR, FASTRO, Medical College of Wisconsin, Milwaukee

10:00 a.m. - 11:30 a.m.

Gastrointestinal

Upper GI (45 minutes)

 Theodore Hong, MD, Massachusetts General Hospital, Boston

Lower GI (45 minutes)

 Emma Holliday, MD, MD Anderson Cancer Center, Houston

11:30 a.m. - 12:30 p.m.

Pediatrics

 Julie Bradley, MD, University of Florida Health Proton Therapy Institute, Jacksonville, Florida

12:30 p.m. - 1:00 p.m.

Q&A: Gastrointestinal and Pediatrics

Moderator: Beth Erickson, MD, FACR, FASTRO, Medical College of Wisconsin, Milwaukee

- Theodore Hong, MD, Massachusetts General Hospital, Boston
- Emma Holliday, MD, MD Anderson Cancer Center, Houston
- Julie Bradley, MD, University of Florida Health Proton Therapy Institute, Jacksonville, Florida

1:00 p.m. - 2:00 p.m.

Young Professionals Networking Event

- · Lara Hathout MD, FRCPC
- Phuoc T. Tran, MD, PhD
- Murat Surucu, PhD, DABR
- · Mitchell Kamrava, MD
- · Mylin Torres, MD
- Christina Tsien, MD
- · Sue Yom, MD, PhD, FASTRO

2:00 p.m. - 3:30 p.m.

Lung LIVESA-CME

• Russell Hales, MD, Johns Hopkins University, Baltimore

3:30 p.m. – 3:45 p.m.

Break

3:45 p.m. - 5:15 p.m.

Central Nervous System LIVESA-CME

 Christina Tsien, MD, Johns Hopkins University, Baltimore

5:15 p.m. - 5:45 p.m.

Q&A: Lung and Central Nervous System

Moderator: Paul Nguyen, MD, Dana-Farber Cancer Center, Boston

- Russell Hales, MD, Johns Hopkins University,
 Raltimore
- Christina Tsien, MD, Johns Hopkins University, Baltimore

SATURDAY, MARCH 26

9:50 a.m. - 10:00 a.m.

Day Two Welcome

 Beth Erickson, MD, FACR, FASTRO, Medical College of Wisconsin, Milwaukee

10:00 a.m. - 11:30 a.m.

Gynecologic LIVESA-CME

Endometrial Cancer (45 minutes)

 Lara Hathout, MD, FRCPC, Rutgers Cancer Institute, New Brunswick, New Jersey

Cervical Cancer (45 minutes)

 Mitchell Kamrava, MD, Cedars-Sinai Cancer Institute, Los Angeles

11:30 a.m. - 12:00 p.m.

Radiobiology - Molecular Profiles of Particular Cancer and Relationship to Therapy

• Phuoc Tran, MD, University of Maryland, Baltimore

12:00 p.m. - 12:30 p.m.

Q&A: Gynecologic and Radiobiology - Molecular Profiles of Particular Cancer and Relationship to Therapy

Moderator: Gayle Woloschak, PhD, FASTRO, Northwestern University

- Lara Hathout, MD, FRCPC, Rutgers Cancer Institute, New Brunswick, New Jersey
- Mitchell Kamrava, MD, Cedars-Sinai Cancer Institute, Los Angeles
- Phuoc Tran, MD, University of Maryland, Baltimore

12:30 p.m. - 1:30 p.m.

Expert Breakouts

- Lara Hathout MD, FRCPC
- Phuoc T. Tran, MD, PhD
- Murat Surucu, PhD, DABR
- Mitchell Kamrava, MD
- · Christina Tsien, MD
- Sue Yom, MD, PhD, FASTRO

1:30 p.m. - 3:00 p.m.

Breast LIVESA-CME

 Mylin Torres, MD, Winship Cancer Institute, Emory University School of Medicine, Atlanta

3:00 p.m. - 4:00 p.m.

Lymphomas LIVESA-CME

• Bradford Hoppe, MD, MPH, Mayo Clinic, Jacksonville, Florida

4:00 p.m. - 4:30 p.m.

Q&A: Breast and Lymphomas

Moderator: Gayle Woloschak, PhD, FASTRO,

Northwestern University

- Mylin Torres, MD, Winship Cancer Institute, Emory University School of Medicine, Atlanta
- Bradford Hoppe, MD, MPH, Mayo Clinic, Jacksonville, Florida

SUNDAY, MARCH 27

9:50 a.m. - 10:00 a.m.

Day Three Welcome

 Beth Erickson, MD, FACR, FASTRO, Medical College of Wisconsin, Milwaukee

10:00 a.m. - 11:30 a.m.

Genitourinary

· Rahul Tendulkar, MD, Cleveland Clinic, Cleveland

11:30 a.m. – 12:00 p.m.

Biology Guided Radiation Therapy

 Murat Surucu, PhD, Stanford University, Stanford, California

12:00 p.m. - 1:00 p.m.

Oligometastatic Cancers and SBRT

 David Palma, MD, PhD, London Health Sciences Centre, London, Canada

1:00 p.m. – 1:15 p.m.

Break

1:15 p.m. – 1:45 p.m.

Q&A: Genitourinary, Biology Guided Radiation Therapy and Oligometastatic Cancers and SBRT

Moderator: Beth Erickson, MD, FACR, FASTRO, Medical College of Wisconsin, Milwaukee

- Rahul Tendulkar, MD, Cleveland Clinic, Cleveland
- Murat Surucu, PhD, Stanford University, Stanford, California
- David Palma, MD, PhD, London Health Sciences Centre, London, Canada

1:45 p.m. – 2:15 p.m.

Sarcomas

 Meena Bedi, MD, Medical College of Wisconsin, Milwaukee

2:15 p.m. - 3:45 p.m.

Head and Neck LIVESA-CME

 Sue Yom MD, PhD, FASTRO, University of California San Francisco, San Francisco

3:45 p.m. - 4:15 p.m.

Q&A: Sarcomas and Head and Neck

Moderator: Paul Nguyen, MD, Dana-Farber Cancer Center, Boston

- Meena Bedi, MD, Medical College of Wisconsin, Milwaukee
- Sue Yom MD, PhD, FASTRO, University of California San Francisco, San Francisco

EXHIBITOR LISTING

Don't miss your chance to visit your industry colleagues and view their products and services in the <u>Virtual Exhibit Hall</u>. All exhibitors listing below are current as of March 4, 2022.

NOVOCURE, INC.

195 Commerce Way Portsmouth, NH 03801 **Phone:** (603) 436-2809

Email: salincastre@novocure.com **Website:** www.novocure.com

Novocure is a global oncology company working to extend survival in some of the most aggressive forms of cancer through the development and commercialization of its innovative therapy, Tumor Treating Fields (TTFields). Novocure's commercialized products are approved in the United States for the treatment of adult patients with glioblastoma and malignant pleural mesothelioma.

REFLEXION MEDICAL

25841 Industrial Blvd Suite 275 Hayward, CA 94545

Phone: 650-239-9070

Email: kenny@reflexion.com **Website:** www.reflexion.com

RefleXion is developing a biology-guided radiotherapy (BgRT)* machine that is the first to utilize the cancer's biology itself to guide radiation delivery, even in tumors that are moving. The technology uses positron emission tomography (PET) to guide personalized radiotherapy. RefleXion's platform enables a leap forward in the ongoing goal of conventional radiotherapy to manage motion, and potentially diminish radiation toxicity, making it feasible to one day provide more options for patients with advanced stage cancer. Currently, the RefleXion machine is cleared by the U.S. Food and Drug Administration (FDA) for the delivery of stereotactic body radiotherapy (SBRT), stereotactic radiosurgery (SRS) and intensity modulated radiotherapy (IMRT). *The RefleXion® X1 is cleared for SBRT/SRS/IMRT treatments. BgRT is limited by U.S. law to Investigational use.



REFRESHER on DEMAND

ATTENDEE RATE	NON-ATTENDEE RATE
\$75 FLAT RATE UNTIL 30 DAYS AFTER THE MEETING	\$275
(after 30 days, attendees pay the corresponding \$275 non-attendee rate)	

With the onDemand Meeting you will receive:

- 18 hours of educational content
- Downloadable PDFs and MP3s of the presentations
- Claim up to 18 CME credits

Accessing Your onDemand Meeting:

- Be sure you are logged in on ASTRO Academy
- Your user id and password are the same as your credentials for astro.org
- Click on My Activities » Pending activities
- · Click on the onDemand meeting you would like to access

The onDemand Meeting and its materials will be available on the ASTRO website for three years after the conference regardless of purchase date. Once expired, participants will not have access to the onDemand Meeting or its materials. ASTRO reserves the right to remove portions of the content if requested by the author.

QUESTIONS?

Contact education@astro.org.

OTHER LEARNING OPPORTUNITIES



The ASTRO Academy now offers over 100 online courses designed to meet the educational needs of the radiation oncology team. New courses are added every week offering CME and/or SA-CME credits in 20+ disease sites, treatment modalities and other topics relevant to the practice of radiation oncology. The Academy also offers access to your ASTRO MOC transcript and activity certificates.

Participate in webinars, journal courses, online courses, Meetings on Demand, eContouring and much more by logging on to the ASTRO Academy at <u>academy.astro.org</u>.



2022 Multidisciplinary Head and Neck Cancers Symposium on Demand Product Available at <u>academy.astro.org</u>.



2022 ASTRO Advocacy Day

May 16-17, 2022 | Washington, D.C. astro.org/22AdvocacyDay



ASTRO's 64th Annual Meeting

October 23–26, 2022 | Attend: San Antonio • Virtually • onDemand astro.org/annualmeeting



GRANT SUPPORTERS

Novocure, Inc.

MENTOR MATCH

Develop new relationships, share experiences and learn from others.

Mentor Match was designed for ASTRO members. All members, from student to emeritus, are encouraged to enroll as mentors or mentees. Learn more about Mentor Match and view available mentors and mentees on ROhub.



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