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AMERICAN RADIUM SOCIETY

OUR MISSION

To promote the multidisciplinary and collegial study of all aspects of cancer. The Society will encourage liaison and professional development among the medical, surgical, and allied scientists concerned with cancer.
Revolution

The world’s-only-synchrotron-based single room solution, the synchrotron accelerator technology allows for less shielding thus minimizing the overall size of the layout and the concrete cost to the building. Compared with our past layout, Hitachi has minimized and optimized the configuration yet utilize the identical gantry and accelerator technology which has been proven with our multi-room solution.

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SINGLE ROOM SOLUTION

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Dear Colleagues,

Welcome to the 101st Annual meeting of the American Radium Society! The theme of this year’s meeting is “Improving Wellness for Patients... and Physicians”. We will look back on a very rich history of our Society and on the many developments within the field of oncology. We will discuss exciting advances in science and care of the patients with cancer and also look ahead to what the next century may bring. But more importantly we will address a critical new area of concern in medicine, namely Physician Burnout. We hope you will take advantage of not only the exciting new scientific developments being presented but also some of the wellness classes the facility has to offer.

We have received outstanding abstracts and we look forward to the presentations in the scientific sessions. We have awarded ten travel grants and five essay awards to young oncologist recipients. We will devote ample time to the new ARS-ACR Appropriate Use Criteria within our meeting. The progress and developments within the panels will be discussed. In the Presidential course, which will focus on Patient QOL and Survivorship moderated by Dr. Charles Simone of the NY Proton Center. In addition, we will have a provocative panel addressing the newest in Adaptive Planning chaired by Dr. Matthew Abramowitz of the University of Miami.

Dr. Gary Freedman, radiation oncologist at the University of Pennsylvania Abramson’s Cancer Center and Chair of the Scientific Program Committee deserves much praise for recruiting an outstanding group of lecturers and panelists. We are very honored to extend a special welcome to our distinguished speakers, Dr. Bryan Bohman, Chief Medical Officer of the University Healthcare Alliance, who will give this year’s keynote lecture addressing Physician Wellness, and Dr. Michael A. Caligiuri, director of the City of Hope National Medical Center, who will give the 2019 Janeway Lecture. In addition, we will be awarding our initial Gold Medal for service to the Society to Dr. Richard Hoppe of Stanford University. At this meeting, we will have the maximum number of 10 SA-CME credits to help you to fulfill your CME-obligations.

Our deepest gratitude goes to our industry sponsors AstraZeneca, Elekta, Galera Therapeutics, Gold Anchor, Hitachi, Merck, Mevion, Qfix, RefleXion Medical, Sirtex, Varian and ViewRay for their support of our meeting. Additionally, we sincerely appreciate the support of other industry partners who are exhibiting during the meeting. Please visit their booths and participate in the Passport program. Finally, I also thank all involved with the organization of the meeting, including the Executive Committee and the ARS staff. It has been a true privilege and a joy to work with you all.

The American Radium Society is the oldest multidisciplinary cancer society in the world and has a long and rich history of scientific excellence combined with collegiality. I hope that you enjoy the academic content of the meeting, the interactions with your colleagues, and also find some time to relax and unwind.

Andre A. Konski, MD, MBA, FACR, FASTRO
PRESIDENT
Dear 2019 ARS Attendees,

I am pleased to welcome you to the 101st Annual Meeting of the American Radium Society!

We have arranged an exciting program this year encompassing new research, symposia and educational sessions from diverse areas within our field of Oncology. This serves our mission as professionals to improve the outcomes and wellness of our patients. But our theme this year in our Keynote address and other presentations also focus attention on the wellness of you the caregiver. So take some time out from email and work to experience the Monarch Beach location and its facilities - they are an idyllic setting overlooking the waters of the Pacific that will help you refresh your mind and body.

The Scientific Program Committee has continued to make education and presentation of original scientific research the core of our annual meeting. We have invited over 150 investigators to present the abstracts of their scientific research at the oral and poster sessions. We invite you to attend the Presidential course on quality of life and survivorship, the Janeway lecture, and the new educational sessions this year on adaptive radiation planning and immunotherapy. There are also opportunities to learn in a case-based tumor board format with invited multidisciplinary experts in central nervous system and genitourinary cancers.

Highlights for this meeting will be the first presentation of the James D. Cox Award of Scientific Merit for the top scientific abstract. We also introduce a session of speed mentoring that will pair our younger members just starting out in their careers with more experienced members for small group discussions on career building, mentorship, and other professional advice. The Appropriate Use Committees will have an expanded role in our meeting this year with dedicated working committee sessions and new educational sessions presented by key members of the gastrointestinal, sarcoma, thoracic and breast committees.

There are opportunities to see new developments in technology by attending the three sponsored industry symposia. We appreciate all members taking the time to meet with and engage our exhibitors in discussions about how their products could be relevant to their professional practice. They make this meeting possible with their support and also are a key to helping us move the state of the art of Oncology forward.

Congratulations to the ARS President Dr. Andre Konski for his successful leadership of the Executive Committee. I thank him for his mentorship, years of service and management of our business affairs, and vision for the society’s future. I thank all of the members of this year’s Scientific Program Committee for reviewing the scientific abstracts and helping to organize the meeting. I appreciate all of the work of our moderators and faculty of the scientific sessions, educational sessions, poster walk, resident jeopardy, and tumor boards. I also thank the faculty asked to submit questions to secure self-assessment credits for those attending their sessions. Last is a most special thanks to Andrea and Maripat on the ARS staff for their work year-round to make these meetings a success.

We particularly welcome new members to this year’s annual meeting and invite you to get involved in the mission of the ARS - there are many opportunities for you to join committees and serve as faculty in future meetings.

Welcome to Dana Point, California!

Gary Freedman, MD
PROGRAM CHAIR
GENERAL INFORMATION

ROOM ASSIGNMENTS

- Speaker Ready Room: Sorrento
- Registration: Pacific Rotunda
- General Session: Pacific Ballroom 1-2
- Exhibit Hall and Posters: Monarch Ballroom
- Spouses Lounge: Adriatic

ON-SITE REGISTRATION HOURS

Pacific Rotunda
- Saturday, April 6, 2019: 8:00am - 5:30pm
- Sunday, April 7, 2019: 7:00am - 1:00pm
- Monday, April 8, 2019: 7:00am - 10:30am
- Tuesday, April 9, 2019: 7:00am - 11:30am

SPEAKER READY ROOM HOURS

Sorrento
- Saturday, April 6, 2019: 7:30am - 3:30pm
- Sunday, April 7, 2019: 7:00am - 3:00pm
- Monday, April 8, 2019: 7:00am - 3:00pm
- Tuesday, April 9, 2019: 7:00am - 11:00am

EXHIBIT HALL/POSTER HOURS

Monarch Ballroom
- Saturday, April 6, 2019: Opening Reception 5:30pm - 7:00pm, Poster Walk 6:00pm - 7:00pm
- Sunday, April 7, 2019: 7:00am - 1:00pm
- Monday, April 8, 2019: 7:00am - 10:30am
- Tuesday, April 9, 2019: 7:00am - 10:30am

HOSPITALITY/SPOUSES SUITE

Adriatic
- Sunday, April 7, 2019: 7:00am - 11:30am
- Monday, April 8, 2019: 7:00am - 11:30am
- Tuesday, April 9, 2019: 7:00am - 11:30am

PLEASE WEAR NAME BADGE AT ALL TIMES

Please note, in order to ensure registered attendees are accessing our event, individuals without name badges will not be able to access any portion of the programming, including exhibit hall and meal functions.

WHO SHOULD ATTEND

The ARS meeting is open to ARS Members and Non-Members, specializing or training in the field of Oncology including, but not limited to, Medical Oncology, Surgical Oncology, Radiation Oncology, Gynecologic Oncology, Head and Neck Oncology, and all other specialties within the field of Oncology, as well as Allied Health and Industry Corporate Leaders.
CME INFORMATION

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

Accreditation
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American College of Surgeons and American Radium Society. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™
The American College of Surgeons designates this live activity for a maximum of 21.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SELF-ASSESSMENT MODULES (SAM)

“Qualified by the American Board of Radiology in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.” ARS is proud to offer SAMs for the 2019 Meeting in a robust quantity on many topics. Self-Assessment Modules count toward the SAM requirement for the ABR and some other specialty boards.

For more information and to take the Self-Assessment Exams, please visit https://ars.wcea.education.

EDUCATIONAL LEARNING OBJECTIVES

At the end of this activity, participants will be able to:

• Describe the problem of physician burnout, how to recognize and diagnose it, and strategies to prevent and reduce it.
• Explain how patient quality of life and survivorship is a quality measure of cancer care.
• Identify the emerging role of immunotherapy in the treatment of cancers including lung, GU and melanoma, their integration with surgery and radiation, and explain the potential side effects that may develop.
• Describe the risks and benefits of advanced technologies in radiation therapy, including adaptive radiation, in the treatment of various malignancies, including CNS and H&N.
• Explain the 2019 ARS-Appropriate Use Criteria updates on best practice for treatment of breast, bone, GI, and thoracic malignancies.

OUTCOMES

This educational activity will improve competence, practice performance and patient outcomes by:

• By providing specific guidelines on appropriate care through the presentation of the ARS Appropriateness Use Criteria panels.
• By providing real-life examples of cases and educating on best practices through the tumor boards.
• By discussing the role of multidisciplinary care in the treatment of multiple malignancies, including thoracic, H&N, GI, bone and breast cancer.
• By describing the challenge presented by the increase in physician burnout that affects patient care and outcomes.
• By explaining the role of immunotherapy in the treatment of patients, including the use of concurrent therapy with radiation.
• By demonstrating the role of advanced technologies, including adaptive radiation therapy, in the multidisciplinary treatment of cancer.

CLAIM YOUR CMES

To claim your CME credits, please complete the following evaluation at https://www.surveymonkey.com/r/ars19eval

All attendees who intend to claim CME credit MUST complete the evaluation by Friday, May 3, 2019. The meeting evaluation must be completed in order to receive a CME Certificate. Please allow 2-4 weeks for processing before your certificate arrives.
GENERAL INFORMATION

The world’s first organization dedicated to the multidisciplinary treatment of cancer.

MISSION STATEMENT
The Mission of The Society is to promote the multi-disciplinary and collegial study of all aspects of cancer. The Society will encourage liaison and professional development among the medical, surgical, and allied scientists concerned with cancer.

WHO JOINS THE ARS?
The American Radium Society (ARS), a venerable institution and the oldest society devoted to the study and treatment of cancer, is a multidisciplinary organization with members from a number of specialized fields including:

- Radiation Oncology
- Surgical Oncology
- Gynecological Oncology
- Medical Oncology
- Allied Science
- Medical Physics
- Various fields of Oncology

OUR MEMBER BENEFITS
ARS membership offers a range of member benefits including:

- Our signature event, the ARS Annual Meeting that rotates among amazing locations while offering 4 days of networking, state-of-the-art surgical technology and techniques and over 18 hours of Category 1 CME.
- Discounted registration fees for attendance at the ARS Annual Meeting.
- Online Self-Assessment Modules (SAMs) are educational sessions that include self-administered examinations to improve your skills, knowledge, patient care, and practice performance. Self-assessment credits are an essential element of Maintenance of Certification. You will earn value-added CME credit for your participation in each session.
- As a member, your SAMs are FREE! You must register for the annual meeting’s scientific session in order to participate in the SAMs.
- Opportunities to apply for the Young Oncologist Essay Award and Travel Grant Awards.
- A membership certificate for display in your home or office.
- Discounted rental rates for the ARS Membership Mailing List.
- And, much more.

APPLY FOR MEMBERSHIP
Complete an online application today at https://www.americanradiumsociety.org/page/Membership

Applications are accepted and reviewed throughout the year.

An ARS Member Services Team member is ready to assist you. If you have questions call us at 310•437•0581 M•F, 8:30 AM•5 PM Eastern Time or email: membership@americanradiumsociety.org
PACIFIC BALLROOM & THIRD FLOOR MEETING SPACE

MAIN MEETING LOCATIONS
Speaker Ready Room
Sorrento

Registration
Pacific Rotunda

General Session
Pacific Ballroom 1-2

Exhibit Hall and Posters
Monarch Ballroom

Sunday Social Event
Botanical Lawn North

SPECIAL SERVICES

The American Radium Society wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently because of the absence of auxiliary aids and services. If you require auxiliary aids or service, please indicate your needs at the ARS registration desk. Please direct all questions concerning registration to the Meeting Registrar at 310-437-0581 or registration@americanradiumsociety.org
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Jonathan Beitler, MD, MBA
Senior Advisor

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Scientific Program Chair
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Joseph Herman, MD, MSc
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Arnold Paulino, MD
John "Drew" Ridge, MD, PhD
Farzan Siddiqui, MD
Elin Sigurdson, NMD, PhD, FACS
Charles Simone, MD
William Small, MD
Rahul Tendulkar, MD
Charles Thomas, MD
Wade Thorstadt, MD
Andrew Vassil, MD
Sue Yom, MD, PhD

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1916 W.H.B. Aikins, MD*
1917 W.H.B. Aikins, MD*
1918 John M. Lee, MD*
1919 J.B. Bissell, MD*
1920 Henry K. Pancoast, MD*
1921 Henry Schmitz, MD*
1922 G.E. Pfahler, MD*
1923 Robert F. Loucks, MD*
1924 James T. Case, MD*
1925 William S. Newcomer, MD*
1926 Douglas Quick, MD*
1927 Albert Soiland, MD*
1928 Curtis F. Burnam, MD*
1929 Edwin C. Ernset, MD*
1930 Harry H. Bowing, MD*
1931 Henry J. Ullmann, MD*
1932 Sanford Withers, MD*
1933 Burton J. Lee, MD*
1934 Rollin H. Stevens, MD*
1935 William H. Cameron, MD*
1936 George W. Grier, MD*
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1939 William P. Healy, MD*
1940 Lawrence A. Pomeroy, MD*
1941 Frederick W. O'Brien, MD*
1942 Hayes E. Martin, MD*
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1961 Jeshill Love, MD*
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1966 Justin J. Stein, MD*
1967 Milton Friedman, MD*
1968 John L. Pool, MD*
1969 Juan A. del Regato, MD*
1970 Fernando Bloedorn, MD*
1971 James F. Nolan, MD*
1972 John V. Blady, MD*
1973 Antolin Raventos, MD*
1974 Jerome M. Vaeth, MD*
1975 Victor A. Marcial, MD*
1976 Felix Rutledge, MD*
1977 Luther W. Brady, MD*
1978 Richard H. Jesse, MD*
1979 Frederick W. George III, MD*
1980 Alfred S. Ketcham, MD*
1981 Simon Kramer, MD*
1982 George C. Lewis, Jr, MD*
1983 Morton M. Kligerman, MD*
1984 Seymour H. Levitt, MD*
1985 John R. Durant, MD*
1986 Frederick Eilber, MD*
1987 Gerald E. Hanks, MD*
1988 Morris J. Wizenberg, MD*
1989 Carl M. Mansfield, MD*
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1991 Robert G. Parker, MD*
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1995 Marvin Rotman, MD
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2013 Thomas Buchholz, MD
2014 Elin R. Sigurdson, MD, PhD
2015 Kenneth E. Rosenzweig, MD
2016 John A. "Drew" Ridge, MD, PhD
2017 Quynh-Thu Le, MD
2018 Ben Slotman, MD, PhD
* Deceased
ARS LEADERSHIP

ANNUAL MEETING
IMPROVING WELLNESS FOR PATIENTS... AND PHYSICIANS

101st

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1972 John V. Blady, MD*
1973 Antolin Raventos, MD*
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Prashant Gabani, MD
Washington University in Saint Louis, Saint Louis, MO

Thomas Galloway, MD
Fox Chase Cancer Center, Philadelphia, PA

Rohit Gunan Ganju, MD
University of Kansas Medical Center, Kansas City, MO

Patricia Ganz, MD
UCLA, Los Angeles, CA

Laurie E. Gaspar, MD, MBA
University of Colorado and Banner MDA, Denver, CO

Ahmed Ghanem, MD
Henry Ford Health System, Radiation Oncology Department, Livonia, MI

Carri Glide-Hurst, PhD, DABR
Henry Ford Cancer Institute, Detroit, MI

Jodi Goldman
MD Anderson Cancer Center, Los Angeles, CA

Amardeep S. Grewal, MD
University of Pennsylvania, Philadelphia, PA

Bruce Haftty, MD
Rutgers- Robert Wood Johnson Med School, Somerset, NJ

Elizabeth Harris, MD
Case Western Reserve University School of Medicine, Cleveland Heights, OH

Jess Hatfield, BSc
Oregon Health and Science University, Portland, OR

Joseph Herman, MD, MSc
MD Anderson, Houston, TX

Susan Hiniker, MD
Stanford University, Palo Alto, CA

James E. Hugh III, MHA, ROC®, CHBME
The Association of Mature American Citizens (AMAC), Bohemia, NY

Clara Hwang, MD
Henry Ford Health System, Detroit, MI

Salma Jabbour, MD
Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

Anuja Jhingran, MD
MD Anderson Cancer Center, Houston, TX

Naomi Jiang, MD
University of California, Los Angeles (UCLA), Los Angeles, CA

Kim Johung, MD, PhD
Yale School of Medicine, New Haven, CT

Joshua Jones, MD, MA
University of Pennsylvania Health System, Philadelphia, PA

Mohammad K. Khan, MD, PhD, DABR, FACRO
Emory University Hospital, Atlanta, GA

Andre A. Konski, MD, MBA, FACR, FASTRO
University of Pennsylvania, Philadelphia, PA

Tracey Krupski, MD, MPH
University of Virginia School of Medicine, Charlottesville, VA

Douglas Lee, DO
Fox Chase Cancer Center, Wynwood, PA

Yun Rose Li, MD, PhD
University of California San Francisco, San Francisco, CA

Alexander Lin, MD, PhD
Washington University in St. Louis, St. Louis, MO

Diana Lin
Penn State College of Medicine, Hershey, PA

Diane C. Ling, MD
UPMC Hillman Cancer Center, University of Pittsburgh School of Medicine, Pittsburgh, PA

Simon S. Lo, MD
University of Washington School of Medicine, Seattle, WA

Jaide J. Lu, MD, MBA
Shanghai Proton and Heavy Ion Center, Shanghai, CHINA

Ethan B. Ludmir, MD
The University of Texas MD Anderson Cancer Center, Houston, TX

Join Y. Luh, MD, FACP
Providence St. Joseph Health, Eureka, CA

Shane Mesko, MD, MBA
MD Anderson Cancer Center, Houston, Texas
SPECIAL SESSIONS

Sirtex Industry Lunch Symposium
The Role of Radiation Oncology in the Management of Liver Malignancies
Saturday, April 6, 2019 • 12:00 pm – 1:30 pm
Pacific Ballroom 3

**This activity is not part of the official ARS Scientific program**

Radiation oncologists have different techniques to treat liver malignancies. In many instances, patients with metastatic colorectal cancer (mCRC) are ineligible for treatments like SBRT or ablation due to tumor size, location or number of tumors in the liver. New data is becoming available that can facilitate a multi-treatment approach like combination options between SBRT and SIRT. Please join us during this lunch presentation by experts in Radiation Oncology and Interventional Radiology in the management of liver malignancies combining different radiation techniques. In this session you will hear from experts about how both specialties work together to incorporate treatment options including SIR-Spheres resin microspheres alone or in combination with SBRT as part of their treatment considerations for mCRC patients.

**Speakers:**
Navesh K. Sharma, DO, PhD, FACRO (Penn State Hershey SOM/Cancer Institute)
Joseph M. Herman, MD, MSc, MSHCM, FACR (MD Anderson Cancer Care)

Varian Medical Systems Industry Symposium
Varian’s Vision for Adaptive Radiotherapy
Saturday, April 6, 2019 • 4:30 pm – 5:30 pm
Pacific Ballroom 3

**This activity is not part of the official ARS Scientific program**

Please join us at the Varian symposium to hear about Varian’s vision of adaptive radiotherapy’s adoption into mainstream radiotherapy treatments. The discussion will provide background and description of Varian’s proposed adaptive therapy workflow, including 4D prescriptions, on-couch treatment adaptations, and automated treatment monitoring. This discussion will also cover the use of artificial intelligence algorithms in automated segmentation and treatment planning.

**Speaker:**
Nathan Childress, Associate Vice President
Strategic Initiatives, Varian

There will be light refreshments offered.

ViewRay Industry Lunch Symposium
MRIdian™ MR Image-Guidance – Visibly Changing Radiation Therapy
Monday, April 8, 2019 • 12:30 pm – 2:00 pm
Pacific Ballroom 3

**This activity is not part of the official ARS Scientific program**

Come hear clinicians from leading institutions describe their use of MRI-guidance and on-table adaptive planning with MRIdian System, the world’s first MR image-guided radiation therapy system; available for sale in the United States, Europe, Canada, Japan, Korea, Taiwan, United Arab Emirates, and Turkey. Everything from commissioning to clinical application of the MRIdian Linac will be addressed. Learn how physicians are using tools to improve tumor targeting precision, allowing for increased accuracy in radiation dosage and reduced exposure to nearby healthy tissue.

**Presenters include:**
Percy Lee, MD (UCLA - Jonsson Comprehensive Cancer Center)
Indrin J. Chetty, PhD (Henry Ford Health System)

THANK YOU TO OUR 2019 SUPPORTERS

The ARS would like to thank the following companies for providing educational grants in support of the 101st Annual Meeting:

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Varian Medical Systems

**Gold Level**
AstraZeneca

**Bronze Level**
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Merck & Co., Inc.
Mevion Medical Systems
Qfix
ReflExion Medical
Sirtex
ViewRay, Inc.
## SATURDAY, APRIL 6, 2019

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<tr>
<th>Time</th>
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<tr>
<td>8:30 am - 9:00 am</td>
<td>Continental Breakfast</td>
<td>Pacific Ballroom Promenade</td>
</tr>
<tr>
<td>9:00 am - 11:00 am</td>
<td>Adaptive Planning Course*</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>11:00 am - 12:00 pm</td>
<td>Scientific Session #1 - Head, Neck &amp; Breast Cancers</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>1:30 pm - 3:15 pm</td>
<td>Presidential Course - Patient Wellness, QOL and Survivorship*</td>
<td>Pacific Ballroom Promenade</td>
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<tr>
<td>3:15 pm - 3:30 pm</td>
<td>Networking Break</td>
<td>Pacific Ballroom Promenade</td>
</tr>
<tr>
<td>3:30 pm - 4:30 pm</td>
<td>Scientific Session #2 - Metastases / Miscellaneous</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>5:30 pm - 7:00 pm</td>
<td>Welcome reception / Poster Walk with the Professor</td>
<td>Monarch Ballroom</td>
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## SUNDAY, APRIL 7, 2019

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<tbody>
<tr>
<td>7:00 am - 7:30 am</td>
<td>Breakfast / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
</tr>
<tr>
<td>7:30 am - 8:30 am</td>
<td>AUC Education Session - Gastrointestinal and Sarcoma*</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>8:30 am - 10:00 am</td>
<td>Scientific Session #3 - CNS / Gastrointestinal</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>10:00 am - 10:15 am</td>
<td>Networking Break / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
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<tr>
<td>10:15 am - 11:00 am</td>
<td>Janeway Lecture</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>11:00 am - 12:30 pm</td>
<td>Challenging Cases in CNS*</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>12:30 pm - 1:00 pm</td>
<td>Lunch / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
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<tr>
<td>1:00 pm - 2:00 pm</td>
<td>Speed Mentoring</td>
<td>Pacific Ballroom 3</td>
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<td>2:00 pm - 5:30 pm</td>
<td>Free Time</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>5:30 pm - 7:00 pm</td>
<td>Resident Jeopardy</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>7:30 pm - 9:30 pm</td>
<td>ARS Social Event</td>
<td>Botanical Lawn North</td>
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## MONDAY, APRIL 8, 2019

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<tbody>
<tr>
<td>7:00 am - 7:30 am</td>
<td>Breakfast / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
</tr>
<tr>
<td>7:30 am - 8:30 am</td>
<td>AUC Education Session - Thoracic and Breast*</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>8:30 am - 9:30 am</td>
<td>Scientific Session #4 - GYN &amp; GU Cancers</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>Presidential Lecture</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>10:00 am - 10:15 am</td>
<td>Gold Medal Award Presentation</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>10:15 am - 10:30 am</td>
<td>Networking Break / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
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<tr>
<td>10:30 am - 11:15 am</td>
<td>Keynote Address</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>11:15 am - 11:30 am</td>
<td>Report on the 2018 ACR Intersociety Conference</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>11:30 am - 12:30 pm</td>
<td>Scientific Session #5 - Lung &amp; Pediatric Cancers</td>
<td>Pacific Ballroom 1-2</td>
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## TUESDAY, APRIL 9, 2019

<table>
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<tr>
<th>Time</th>
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<tr>
<td>7:00 am - 7:30 am</td>
<td>Breakfast / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
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<tr>
<td>7:30 am - 8:00 am</td>
<td>ARS Business Meeting</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>8:00 am - 8:45 am</td>
<td>Scientific Session #6, Young Oncologist Awards</td>
<td>Pacific Ballroom 1-2</td>
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<tr>
<td>8:45 am - 9:45 am</td>
<td>Educational Session - Immunotherapy*</td>
<td>Pacific Ballroom 1-2</td>
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<td>9:45 am - 10:00 am</td>
<td>Networking Break / Exhibits / Poster Viewing</td>
<td>Monarch Ballroom</td>
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<tr>
<td>10:00 am - 11:00 am</td>
<td>Scientific Session #7 - QOL / Outcomes / Physics / Biology</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>11:00 am - 12:30 pm</td>
<td>Challenging Cases in GU*</td>
<td>Pacific Ballroom 1-2</td>
</tr>
<tr>
<td>12:30 pm - 1:00 pm</td>
<td>Box Lunch</td>
<td>Pacific Ballroom Promenade</td>
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*SA-CME Course
ExHIBITOR DIRECTORY

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<td>Elekta</td>
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<td>Hitachi America Ltd.</td>
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<td>IBA Proton Therapy</td>
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<td>Merck &amp; Co. Inc.</td>
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<td>Mevion Medical Systems</td>
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<td>Orfit Industries</td>
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<td>Sensus Healthcare</td>
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<td>Sirtex</td>
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<td>Varian Medical Systems</td>
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<td>ViewRay, Inc.</td>
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For more than 40 years, Best Medical has served the medical community with the highest quality products and unparalleled customer service. Our brachytherapy seeds, gold fiducial markers, supplies, accessories and exam equipment exemplify our commitment to uncompromised quality and safety.

Best Medical International now encompasses a family of trusted companies and organizations with a proven track record of innovation, quality and service in external beam radiation therapy, brachytherapy and vascular brachytherapy solutions. Our aim is to be the one partner that clinicians turn to for all their radiotherapy and oncology product and service requirements.

Brainlab develops, manufactures and markets software-driven medical technology, enabling access to advanced, less invasive patient treatments.

Brainlab technology powers treatments in radiosurgery as well as numerous surgical fields including neurosurgery, orthopedic, ENT, CMF, spine and trauma. Founded in Munich in 1989, Brainlab has over 12,300 systems installed in over 100 countries.

For almost five decades, Elekta has been a leader in precision radiation medicine. Our nearly 4,000 employees worldwide are committed to ensuring everyone in the world with cancer has access to - and benefits from - more precise, personalized radiotherapy treatments. Our latest innovation, the Elekta Unity MR-linac, combines two technologies - a high-field 1.5T Phillips MRI scanner and a best-in-class linear accelerator, combined with a breakthrough real-time dose replanning software. To learn more, visit elekta.com/Unity.

Hitachi, a pioneer in the spot scanning technology for proton therapy, provides flexible particle therapy solutions (from single compact proton solution to multi-room carbon ion solution) that have been demonstrated by prestigious users worldwide.
# EXHIBITOR DIRECTORY

## IBA Proton Therapy
**Tabletop # 7**
2000 Edmund alley Drive, Suite 210
Reston, VA 20191
[https://iba-worldwide.com/proton-therapy](https://iba-worldwide.com/proton-therapy)

IBA is the worldwide leader in proton therapy technology. The company has been leading proton therapy for the last 30 years and has built the largest user community of world’s best proton therapy centers. IBA focuses on bringing integrated and innovative solutions for the diagnosis and treatment of cancer and is the worldwide technology leader in the field of proton therapy. IBA’s proton therapy solutions are flexible and adaptable, allowing customers to choose from universal full-scale proton therapy centers or compact, single room solutions.

## Merck & Co. Inc.
**Tabletop # 6**
2000 Galloping Hill Road
Kenilworth, NJ 07033
[www.merck.com](http://www.merck.com)

For more than a century, Merck has been inventing for life, bringing forward medicines and vaccines for many of the world’s most challenging diseases. Today, Merck continues to be at the forefront of research to deliver innovative health solutions and advance the prevention and treatment of diseases that threaten people and animals around the world.

## Mevion Medical Systems
**Tabletop # 5**
300 Foster Street
Littleton, MA 01460
[www.mevion.com](http://www.mevion.com)

Mevion Medical Systems, Inc. is the leading provider of compact proton therapy systems for use in radiation treatment for cancer patients. Mevion is based in Littleton, Massachusetts, with a presence in Europe and China. For more information, please visit [www.mevion.com](http://www.mevion.com).

## Orfit Industries
**Tabletop # 11**
350 Jericho Turnpike
Jericho, NY 11753
[www.orfit.com](http://www.orfit.com)

Orfit brings high precision and comfort to the positioning and immobilization of cancer patients in Radiation Oncology.

The combination of Orfit thermoplastic masks and positioning devices provides optimal stability to a point where daily reproducibility and patient movement are limited to less than 1.5 millimeter. The Orfit solution assures patient comfort that reduces anxieties and displacement of the anatomical area of treatment.

## Sensus Healthcare
**Tabletop # 4**
851 Broken Sound Parkway NW #215
Boca Raton, FL 33487
[www.sensushealthcare.com](http://www.sensushealthcare.com)

## Sirtex
**Tabletop # 8**
300 Union Park Drive
Woburn, MA 01801
[www.sirtex.com](http://www.sirtex.com)

Sirtex Medical develops and delivers interventional oncology treatments using novel small particle technology to improve outcomes for patients with metastatic colorectal cancer (mCRC). SIR-Spheres® Y-90 resin microspheres target liver tumors with radiation via the hepatic artery during Selective Internal Radiation Therapy (SIRT). Recent SIRFLOX Study data showed a statistically significant improvement of 7.9 months in median Progression-Free Survival in the liver for patients with unresectable mCRC treated first line with SIR-Spheres Y-90 resin microspheres plus standard chemotherapy.

## Varian Medical Systems
**Tabletop # 10**
3100 Hansen Way
M/S MGM
Palo Alto, CA 94304
[https://www.varian.com/oncology](http://www.varian.com/oncology)

Imagine a world free from the fear of cancer. We do, every day. That’s why at Varian, we’re obsessed with creating simpler, more efficient, and more effective technologies to power new victories in cancer care. Varian is the long-standing global leader in comprehensive solutions for radiotherapy and radiosurgery, as well as software systems for planning treatments, managing cancer clinics, sharing knowledge, coordinating care, and using data to deliver evidence-based medicine.

## ViewRay, Inc.
**Tabletop # 12**
815 E. Middlefield Rd.
Mountainview, CA 94043
[www.viewray.com](http://www.viewray.com)

ViewRay®, Inc. (Nasdaq: VRAY), designs, manufactures and markets the MRIdian® radiation therapy system. MRIdian is built upon a proprietary high-definition MR imaging system designed from the ground up to address the unique challenges and clinical workflow for advanced radiation oncology. Unlike MR systems used in diagnostic radiology, MRIdian’s high-definition MR was purposely built to deliver high-precision radiation without unnecessary beam distortion, and consequently, help to mitigate skin toxicity and other safety concerns that may otherwise arise when high magnetic fields interact with radiation beams. ViewRay and MRIdian are registered trademarks of ViewRay, Inc.
JAMES D. COX AWARD OF SCIENTIFIC MERIT

The American Radium Society is honored to establish The James D. Cox Award of Scientific Merit, which will be presented annually at our Annual Meeting to the top scoring abstract in celebration of Dr. Cox’s outstanding legacy of scientific achievement.

For this first year, we are excited to award it to Diane C. Ling, MD, of UPMC Hillman Cancer Center at the University of Pittsburgh School of Medicine in Pittsburgh, PA for her abstract titled “Regional Recurrence Rates with or Without Complete Axillary Dissection for Breast Cancer Patients with Node-Positive Disease on Sentinel Lymph Node Biopsy After Neoadjuvant Chemotherapy” (OA38). Her research found that patients with a positive sentinel node treated with additional node dissection prior to axillary lymph node irradiation, compared to not having additional surgery, had a higher risk for lymphedema and no significant improvements in recurrence, control or survival.

Please join us on Tuesday, April 9 at 8:00 am in Pacific Ballroom 1-2.

James D. Cox, M.D., FACR, FASTRO, Professor Emeritus in Radiation Oncology at The University of Texas MD Anderson Cancer Center was a Past President and lifelong supporter of the American Radium Society. His contributions to our Society’s administrative and purpose-driven evolution over the past three decades were formative. He was an unstinting advocate for our Society and our missions of multidisciplinary exchange, education and development of young oncologists, and dedication to high-quality cancer care.

Dr. Cox graduated magna cum laude from Kenyon College and completed his medical degree with honors from the University of Rochester School of Medicine and Dentistry, followed by internship at the University of Chicago Hospitals, postgraduate training at Penrose Cancer Hospital of Colorado Springs, and a one-year fellowship in the Department of Radiotherapy at the Gustave Roussy Institute in Villejuif, France. He served two years as a Major in the U.S. Army, then began his academic career as an Assistant Professor of Radiology and Director of Therapeutic Radiology at Georgetown University School of Medicine, followed by a series of leadership positions, including Founding Director of the Cancer Center at the Medical College of Wisconsin, three years as Chair of a new Department of Radiation Oncology at Columbia University College of Physicians and Surgeons, and Director of Radiation Oncology at the Presbyterian Hospital in the City of New York. He was recruited to The University of Texas MD Anderson Cancer Center in 1988 as Professor of Radiotherapy and Physician-in-Chief, a position he held until 1992. From 1995, he served as Head of the Division and Department Chair of Radiation Oncology at MD Anderson, a position he held until 2011. He retired in 2014 and was appointed Professor Emeritus in 2015.

Dr. Cox served as Chair of the Radiation Therapy Oncology Group (RTOG) and the Cancer Therapy Evaluation Program at NCI as well as Editor-in-Chief of the International Journal of Radiation Oncology, Biology and Physics, a position he held from 1997 until 2002. Dr. Cox was elected President of the American Radium Society in 2004, but before and after that he was a powerful member of the Executive and numerous other committees, an esteemed counselor to rising leaders within our Society, and a source of personal and professional guidance and support to generations of our young and old members. Dr. Cox participated in numerous meetings and retreats aimed at maintaining our Society’s health, growth, and mission development.

He was a champion for diversity and gender equality in all of his leadership positions and personal interactions. In addition to his passion for teaching and mentoring, Jim traveled widely, most often to France and Japan. He treasured his liberal arts education and served as a trustee at his alma mater, Kenyon College, which in 2014 dedicated its new medical and counseling center in his honor.

The American Radium Society is honored to establish The James D. Cox Award of Scientific Merit, which will be presented annually at our Annual Meeting in celebration of Dr. Cox’s outstanding legacy of scientific achievement. The Award will be presented to the top scoring abstract of the Annual Meeting.
The ARS is pleased to award the inaugural Gold Medal to Richard T. Hoppe, MD.

Richard T. Hoppe, MD is the Henry S. Kaplan-Harry Lebeson Professor of Cancer Biology in the Department of Radiation Oncology at Stanford University. He is a graduate of Cornell University and was awarded an MD from Cornell University Medical College. He served as Chair of the Department of Radiation Oncology at Stanford for 19 years. His research interests include Hodgkin’s disease, the lymphomas, radiation immunosuppression, and radiation late effects. He has co-authored more than 300 research articles and 100 book chapters on these subjects. He is primary Editor of the text Hodgkin Lymphoma, published in 2007 and Co-Editor of Leibel and Phillips Textbook of Radiation Oncology, published in 2010.

Dr. Hoppe is a member of the Hodgkin Lymphoma (as Chair), the T-Cell Lymphoma, and the Cutaneous Lymphoma Guidelines Committees for the National Cancer Center Network (NCCN). He is a member of the Steering Committee of the International Lymphoma Radiation Oncology Group (ILROG) and a member of the Board of the International Society for Cutaneous Lymphoma (ISCL). He served in the past as President and Chairman of the Board of the American Society for Therapeutic Radiology and Oncology (ASTRO), a Trustee of the American Board of Radiology (ABR), a Chancellor in the American College of Radiology (ACR), a member of the NIH/NCI Board of Scientific Counselors and a member of the Board of Stanford Hospital and Clinics.

Dr. Hoppe was awarded the Gold Medal of ASTRO, was a Janeway Lecturer for the American Radium Society (ARS), is an awardee of the Gold Medal of the ACR, and a recipient of the Karl Musshoff Prize for Clinical Research from the German Hodgkin Lymphoma Study Group. He has delivered the E. Richard King Memorial Lecture, the Philip Rubin Lecture at the International Congress of Radiation Oncology in Beijing, the Richard G. Evans Memorial Lecture, the Jerry Vaeth Lecture, the Radiation Oncology Oration at the Radiological Society of North America, the Vera Peters Lecture, the Martin Schneider Memorial Lecture, the John Ultmann Lecture at the International Symposium on Hodgkin lymphoma, the Franz Buschke Lecture, and the Ho Hung-Chiu Medical Foundation Lecture in Hong Kong. He is a recipient of the Henry S. Kaplan Memorial Prize for Teaching and the ARRO (Association of Residents in Radiation Oncology) Educator of the Year Award. He is an Honorary Professor at the Shantou University Medical College.
As Chief of Staff, Dr. Bohman founded Stanford’s wellness committee and subsequently shepherded the founding of its WellMD Center in 2015, serving as the Center’s Director until 2017. The Center’s aim is to advance faculty, trainee and care team wellbeing across Stanford Medicine while also serving as an international leader of scholarship, in a field that is increasingly vital to the future of medicine.

Dr. Bohman’s primary areas of interest include population health management and the relationships between clinician wellness, quality improvement and healthcare system performance.

Bryan Bohman is Chief Medical Officer and Associate Dean for University Healthcare Alliance, Stanford’s community-based medical foundation. He also serves as Associate Chief Medical Officer at Stanford Health Care (SHC). At the School of Medicine, his roles include Clinical Professor of Anesthesiology, Co-Director of the Clinical Effectiveness Leadership Training program and Senior Advisor to the WellMD Center.
The heraldry of the Janeway Medal is drawn from Norse Mythology: Odin, the Allfather with power over the precious minerals of the earth, sought enlightenment for the sons of men. He traveled to Mimir’s Well where Wisdom and Wit lodged hidden. The face of the Janeway Medal shows Odin standing before the giant Mimir, warden of the well, yielding one of his eyes for a draught of the precious water. The reverse side of the medal shows Odin’s two ravens, who spent the day flying throughout the expanse of the universe: Hugin (Thought-Reflection) and Munin (Memory Remembrance). The ravens returned each evening to perch on Odin’s shoulders and whisper in his ears the events and progress observed. Odin’s physical privation, as a price for wisdom, is symbolic of the self sacrifice of the heroic pioneers of radium therapy for cancer.

Odin’s ravens, as shown on the Janeway Medal, have become the symbols of the American Radium Society. Since 1933, the American Radium Society has sponsored an annual lecture in memory of Doctor Henry H. Janeway (1873-1921), a great American pioneer in the therapeutic use of radium. Originally a large bronze medal, the Janeway Medal was changed to a gold medal in 1971. A special committee of the Society chooses the lecturers on the basis of their outstanding scientific contributions. Each lecturer is presented with the handsome Janeway Medal.

The ARS is pleased to award the Janeway Medal to Michael A. Caligiuri, MD.

Michael A. Caligiuri, M.D., the Deana and Steve Campbell Physician-in-Chief Distinguished Chair of City of Hope, is a world-renowned physician, scientist, builder, innovator, leader and visionary. He is dedicated to developing the next generation of leading-edge cancer therapies, rapidly delivering them to patients and ultimately curing the disease. For the past 20 years, Dr. Caligiuri has worked as a physician, scientist and leader in the cancer program at The Ohio State University. He spent the past decade as CEO of The James Cancer Hospital and Solove Research Institute and directed The Ohio State University Comprehensive Cancer Center for 14 years, recruiting over 300 cancer physicians and scientists. Dr. Caligiuri was elected to the National Academy of Medicine’s Class of 2018 for his breakthrough discoveries in NK leukemia and cutaneous T cell lymphoma. He is also the immediate past president of the American Association for Cancer Research, the world’s largest cancer research organization with 40,000 members in 120 countries.

In addition to serving as president of the AACR, he was also recently named a fellow of that organization. A leading researcher in the field of immunology, lymphoma and leukemia, more than 1,500 cancer patients have been treated on clinical trials developed or co-developed by Dr. Caligiuri. He also has trained over 120 undergraduate, graduate or postgraduate students in his laboratory who have received over 230 university, state, national or international awards. At City of Hope, Dr. Caligiuri’s goals are “to speed up the delivery of our discoveries in the laboratory to our patients,” to use his inclusive leadership style to foster greater collaboration across the institution and with other institutions, and to “optimize the patient care system to ensure the highest quality and safest patient experience.”
ESSAY AWARDS AND TRAVEL AWARDS

YOUNG ONCOLOGIST ESSAY AWARDS

Program Number: OA38
Presenter: Diane C. Ling, MD
Abstract Title: REGIONAL RECURRENCE RATES WITH OR WITHOUT COMPLETE AXILLARY DISSECTION FOR BREAST CANCER PATIENTS WITH NODE-POSITIVE DISEASE ON SENTINEL LYMPH NODE BIOPSY AFTER NEOADJUVANT CHEMOTHERAPY

Program Number: OA39
Presenter: Naomi Jiang, MD
Abstract Title: EVALUATING PROSTATE-SPECIFIC ANTIGEN (PSA) NADIR AND BOUNCE AFTER STEREOTACTIC BODY RADIOTHERAPY (SBRT) IN A MULTI-INSTITUTIONAL COHORT

Program Number: OA40
Presenter: Ankit Modh, MD
Abstract Title: RANDOMIZED PROSPECTIVE TRIAL OF STEREOTACTIC RADIOSURGERY VERSUS CHEMOTHERAPY FOR RECURRENT MALIGNANT GLIOMA AFTER SECOND-LINE CHEMOTHERAPY

Program Number: OA41
Presenter: Ethan B. Ludmir, MD
Abstract Title: HIGHER RATES OF PSEUDOPROGRESSION AMONG PEDIATRIC LOW-GRADE GLIOMA PATIENTS TREATED WITH PROTON VERSUS PHOTON RADIOTHERAPY

Program Number: OA42
Presenter: Alexander Lin, MD/PhD
Abstract Title: CONCURRENT CHEMORADIATION FOR CERVICAL CANCER: COMPARISON OF LDR AND HDR BRACHYTHERAPY

TRAVEL GRANTS

Program Number: OA01
Presenter: Joseph A. Miccio, MD
Abstract Title: IMPACT OF CONTRALATERAL LYMPH NODE INVOLVEMENT ON SURVIVAL OF SURGICALLY-MANAGED HPV-POSITIVE OROPHARYNGEAL CANCER STAGED WITH THE AJCC EIGHTH EDITION

Program Number: OA02
Presenter: Prashant Gabani, MD
Abstract Title: DOSE DE-ESCALATED RADIATION THERAPY VERSUS STANDARD DOSE RADIATION THERAPY IN DEFINITIVE TREATMENT OF HPV-POSITIVE OROPHARYNGEAL SQUAMOUS CELL CARCINOMA

Program Number: OA05
Presenter: Mutlay Sayan
Abstract Title: ACUTE CARDIOTOXICITY WITH CONCURRENT TRASTUZUMAB AND HYPOFRACTIONATED RADIATION THERAPY IN BREAST CANCER PATIENTS

Program Number: OA08
Presenter: Daniel Sufficool, MD
Abstract Title: INTERIM RESULTS OF A PHASE I/II TRIAL OF PROTON STEREOTACTIC BODY RADIATION THERAPY (SBRT) FOR LIVER METASTASES

Program Number: OA09
Presenter: Dario Pasalic, MD
Abstract Title: STEREOTACTIC ABLATIVE BODY RADIATION FOR PULMONARY METASTASES: PATTERNS OF FAILURE AND OUTCOMES BY RISK GROUPING

Program Number: OA13
Presenter: Mustafa Abgideiri, MD
Abstract Title: A PROSPECTIVE INTERNATIONAL PILOT STUDY EVALUATING THE EFFICACY OF A SELF-GUIDED CONTOURING TEACHING MODULE WITH INTEGRATED FEEDBACK FOR TRANSITIONING FROM 2-D TO 3-D TREATMENT PLANNING

Program Number: OA14
Presenter: Shane Mesko, MD, MBA
Abstract Title: RESULTS OF A LARGE, MULTI-YEAR ANALYSIS ON PROSPECTIVELY-COLLECTED CLINICAL TRIAL ENROLLMENT DATA IN THE MD ANDERSON THORACIC RADIATION ONCOLOGY DEPARTMENT

Program Number: OA25
Presenter: Michael Xiang, MD, PhD
Abstract Title: DEFINITIVE RADIOTHERAPY WITH OR WITHOUT CISPLATIN FOR CERVICAL CANCER IN OLDER WOMEN

Program Number: OA43
Presenter: Bhavana V. Chapman, MD
Abstract Title: QUANTITATIVE 3D ASSESSMENT OF BREAST COSMESIS AFTER CONVENTIONAL (CF-WBI) VERSUS HYPOFRACTIONATED WHOLE BREAST RADIATION (HF-WBI): RESULTS OF A RANDOMIZED CLINICAL TRIAL

Program Number: OA47
Presenter: Aharon M. Feldman, MD
Abstract Title: LIVER STEREOTACTIC BODY RADIATION THERAPY USING REAL TIME MAGNETIC RESONANCE GUIDANCE
In compliance with the ACCME Accreditation Criteria, the American College of Surgeons must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias-free presentation. Please see the insert to this program for the complete disclosure list.
101st
ANNUAL MEETING
IMPROVING WELLNESS FOR PATIENTS...AND PHYSICIANS

Scientific Program

SATURDAY, APRIL 6, 2019

8:30 am - 9:00 am  Continental Breakfast  Pacific Ballroom Promenade

9:00 am - 11:00 am  Adaptive Planning Course (SA-CME)  Pacific Ballroom 1-2
Moderator: Matthew C. Abramowitz, MD, Miller School of Medicine, University of Miami

9:00 am  Introduction
9:05 am  Lorraine Portelance, MD, Miller School of Medicine, University of Miami
9:20 am  Anuja Jhingran, MD, MD Anderson Cancer Center
9:35 am  Ben J. Slotman, MD, PhD, VU University Medical Center
9:50 am  Carri Glide-Hurst, PhD, DABR, Henry Ford Cancer Institute
10:05 am  James E. Hugh III, MHA, ROCC®, CHBME, The Association of Mature American Citizens (AMAC)
10:20 am  Join Y. Luh, MD, FACP, Providence St. Joseph Health
10:35 am  Q&A

11:00 am - 12:00 pm  Scientific Session #1 - Head, Neck & Breast Cancers  Pacific Ballroom 1-2
Moderators: Amar Rewari, MD, MBA, Associates in Radiation Medicine
Thomas Galloway, MD, Fox Chase Cancer Center

OA01: IMPACT OF CONTRALATERAL LYMPH NODE INvolvEMENT ON SURvIvAL OF SURGICALLY-MANAGED HPV-POSITIvE OROPHARYNGEAL CANCER STAGED WITH THE AJCC EIGHTH EDITION
Joseph A. Miccio, MD1, Jacqueline Kelly, MD1, Benjamin H. Kann, MD1, Yi An, MD1, Henry S. Park, MD, MPH1, Vivek Verma, MD2, Saral Mehra, MD, MBA1, Benjamin Judson, MD1, Barbara Burtness, MD1, Zain Husain, MD1; 1Yale School of Medicine, 2Allegheny General Hospital

OA02: DOSE DE-ESCALATED RADIATION THERAPY vERSUS STANDARD DOSE RADIATION THERAPY IN DEFI NITIvE TREATMENT OF HPV-POSITIvE OROPHARYNGEAL SQUAMOUS CELL CARCINOMA
Prashant Gabani, MD1, Alexander J. Lin, MD, PhD1, Justin Barnes, MS2, Mackenzie Daly, MD1, Hiram Gay, MD1, Wade Thorstad, MD1; 1Washington University in Saint Louis School of Medicine, 2Saint Louis University School of Medicine

OA03: IS SMOKING RELATED TO A MORE AGGRESSIVE ORAL CAvITY SQUAMOUS CELL CARCINOMA WITH POOR SURvIvAL? A MULTI-INSTITUTIONAL COLLABORATIVE STUDY
Ahmed I. Ghanem, MD1, Matthew A. Schymick2, Jillian Tsai, MD, PhD2, Nancy Lee, MD2, Howard Liu, MD3, Neil Woody, MD3, Jimmy Caudell, MD, PhD4, Chandana A. Reddy, MS5, Nikhil Joshi, MD4, Eric Lamarre, MD5, Neal Dunlap, MD5, Brian Burkey, MD5, David Adelstein, MD5, Shlomo Koyfman, MD5, Farzan Siddiqui, MD, PhD5; 1Radiation Oncology Department, Henry Ford Health System / Alexandria Clinical Oncology Department; Alexandria University, 2Henry Ford Hospital, 3Memorial Sloan Kettering Cancer Center, 4Princess Alexandra Hospital, 5Cleveland Clinic, 6Moffitt Cancer Center, 7University of Louisville, 8Henry Ford Health System
SATURDAY, APRIL 6, 2019

OA04: INCIDENCE AND PREDICTORS OF PERSISTENT OPIOID USE IN LONG-TERM SURVIVORS OF HEAD AND NECK CANCER TREATED WITH RADIATION
Rohit Ganju, MD1, Rishi Neeranjun, BS1, Ryan Morse, BS1, Christopher Lominska, MD1, Mindi TenNapel, MBA, PhD1, Allen Chen, MD2; 1University of Kansas Medical Center, 2University of California-Irvine

OA05: ACUTE CARDIOTOXICITY WITH CONCURRENT TRASTUZUMAB AND HYPOFRACTIONATED RADIATION THERAPY IN BREAST CANCER PATIENTS
Mutlay Sayan, MD, Zeinab Abou Yehia, MD, Deborah Toppmeyer, Nisha Ohri, MD, Bruce Haffty, MD; Rutgers Cancer Institute of New Jersey

OA06: COMPLICATION RATES AND LONG-TERM OUTCOMES OF POST-MASTECTOMY RADIATION TO PERMANENT IMPLANTS OR TEMPORARY EXPANDERS IN TWO-STAGE IMMEDIATE IMPLANT RECONSTRUCTION
Jessica Karen Wong, MD, MEng, Karen Ruth, MS, Yanqun Dong, MD, PhD, Eddie Zhang, MD, Sameer Patel, MD, Richard Bleicher, MD, Elin Sigurdson, MD, PhD, Neal Topham, MD, Shelly Hayes, MD, Penny Anderson, MD; Fox Chase Cancer Center

OA07: MANAGEMENT OF LOCALIZED BREAST ANGIOSARCOMA BY NORTH AMERICAN RADIATION ONCOLOGISTS AND MEDICAL ONCOLOGISTS
Jess Hatfield, BSc1, Shearwood McClelland III, MD2, Jia Luo, MD3, Catherine Degnin, PhD, MS4, Yiyi Chen, PhD4, Ronald J. Maggiore, MD5, Timur Mitin, MD, PhD; 1Department of Radiation Medicine, Oregon Health and Science University, 2Department of Radiation Oncology, Indiana University School of Medicine, 3Department of Medicine, Oregon Health and Science University, 4Biostatistics Shared Resource, Oregon Health and Science University, 5Department of Medicine, University of Rochester Medical Center

1:30 pm – 3:15 pm
Presidential Course - Patient Wellness, QOL and Survivorship (SA-CME)
Moderator: Charles B. Simone II, University of Maryland Medical Center

1:30 pm Introduction
1:35 pm Patricia Ganz, MD, University of California Los Angeles
1:55 pm Joshua Jones, MD, MA, University of Pennsylvania Health System
2:15 pm Ronald C. Chen, MD, MPH, University of North Carolina at Chapel Hill
2:35 pm Panel Discussion

3:15 pm – 3:30 pm
Networking Break
Pacific Ballroom Promenade

3:30 pm – 4:30 pm
Scientific Session #2 - Metastases / Miscellaneous
Moderator: Andrzej Wojcieszynski, MD, University of Pennsylvania

OA08: INTERIM RESULTS OF A PHASE I/II TRIAL OF PROTON STEREOTACTIC BODY RADIATION THERAPY (SBRT) FOR LIVER METASTASES
Daniel C. Sufficool, MD, Joseph I. Kang, MD, PhD, Chung-Tsen Hsueh, MD, PhD, Andrew J. Wroe, PhD, Baldev Patyal, PhD, Mark E. Reeves, MD, PhD, Jerry D. Slater, MD, Gary Y. Yang, MD; Loma Linda University Medical Center

OA09: STEREOTACTIC ABLATIVE BODY RADIATION FOR PULMONARY METASTASES: PATTERNS OF FAILURE AND OUTCOMES BY RISK GROUPING
Dario Pasalic, MD1, Sonia Betancourt, MD1, Yi Lu, MD2, Peter Balter, MS, PhD1, Pamela Allen, MPH, PhD1, Mara Antonoff, MD1, Jeremy Erasmus, MD1, Quynh-Nhu Nguyen, MD2; 1MD Anderson Cancer Center, 2Ningbo Medical Center, Lihuili Eastern Hospital, 3Division of Radiation Oncology, University of Texas MD Anderson Cancer Center

OA10: EARLY RESULTS FROM A PROSPECTIVE PHASE II DOSE ESCALATION STUDY FOR NEOADJUVANT RADIOSURGERY FOR BRAIN METASTASES
Erin S. Murphy, MD, Kailin Yang, MD, John Suh, MD, Jennifer Yu, MD, PhD, Cathy Schilero, RN, Alireza Mohammadi, MD, Glen Stevens, DO, PhD, Lilyana Angelov, MD, Gene Barnett, MD, Michael Vogelbaum, MD, PhD, Gennady Neyman, PhD, Samuel Chao, MD; Cleveland Clinic
OA11: OLIGOMETASTATIC BREAST CANCER TREATED WITH HYPOFRACTIONATED STEREOTACTIC RADIOTHERAPY: LONG-TERM RESULTS FROM A PROSPECTIVE STUDY
Michael Milano, MD, PhD, Alan Katz, MD, Hong Zhang, MD, Christine F. Huggins, PhD, Paul Okunieff, MD; 1University of Rochester, 2University of Florida

OA12: ABLATIVE STEREOTACTIC RADIATION THERAPY FOR OLIGO-METASTATIC CANCER (ARCHON): AN INTERNATIONAL META-ANALYSIS OF 19 PROSPECTIVE TRIALS
Eric J. Lehrer, MD, Raj Singh, MD, Daniel M. Trifiletti, MD, Piet Ost, MD, PhD, Shankar Siva, PhD, MBBS, FRANZCR, Meng Mao-Bin, MD, PhD, Leila Tchelebi, MD, Nicholas G. Zaorsky, MD; 1Icahn School of Medicine at Mount Sinai, 2Virginia Commonwealth University, 3Mayo Clinic, 4Department of Radiotherapy and Experimental Cancer Research, Ghent University, 5Sir Peter McCallum Department of Oncology, The University of Melbourne, 6Department of Radiation Oncology, CyberKnife Center, and Key Laboratory of Cancer Prevention and Therapy, Tianjin Medical University Cancer Institute & Hospital, 7PennState Health, 8Penn State Cancer Institute

OA13: A PROSPECTIVE INTERNATIONAL PILOT STUDY EVALUATING THE EFFICACY OF A SELF-GUIDED CONTOURING TEACHING MODULE WITH INTEGRATED FEEDBACK FOR TRANSITIONING FROM 2D TO 3D TREATMENT PLANNING
Mustafa Abugideiri, MD, Eduard Schreibmann, PhD, Jeffrey Switchenko, PhD, Mark W. McDonald, MD, Jonathan J. Beitler, MBA, MD, Walter J. Curran, MD, Deborah Bruner, PhD, Pretesh Patel, MD, Wondemagegnhu Tigeneh, MD, Miressa Mijena, MD, Sibo Tian, MD, Anees Dhabaan, PhD, Natia Esiashvili, MD, Tian Liu, PhD, Arif N. Ali, MS, MD; 1Winship Cancer Institute of Emory University, 2Black Lion Hospital/Addis Ababa University

OA14: RESULTS OF A LARGE, MULTI-YEAR ANALYSIS ON PROSPECTIVELY-COLLECTED CLINICAL TRIAL ENROLLMENT DATA IN THE MD ANDERSON THORACIC RADIATION ONCOLOGY DEPARTMENT
Shane Mesko, MD, MBA, Joe Y. Chang, MD, PhD, Melenda Jeter, MD, MPH, Saumil Gandhi, MD, PhD, Zhongxing Liao, MD; 1Division of Radiation Oncology, MD Anderson Cancer Center, 2MD Anderson Cancer Center

5:30 pm – 7:00 pm Welcome Reception / Poster Walk with the Professor Monarch Ballroom
Please note: You will need your name badge to attend event
Moderator: Gary Freedman, MD, University of Pennsylvania Health System

Breast Cynthia A. Ballenger, MD, 21st Century Oncology, Inc.
CNS Laurie E. Gaspar, MD, MBA, UC Denver
Head & Neck Jonathan J. Beitler, MD, MBA, FACR, The Emory Clinic
Thoracic Kenneth Rosenzweig, MD, Mount Sinai School of Medicine
Genitourinary Paul L. Nguyen, MD, Dana-Farber / Brigham and Women’s Cancer Center
Gynecology Matthew Biagioli, MD, AdventHealth Cancer Institute Radiation Oncology
CNS Sam Chao, MD, Cleveland Clinic
Gastrointestinal Kim Johung, MD, PhD, Yale School of Medicine
Physics / Imaging Indrin J. Chetty, PhD, Henry Ford Health System
SUNDAY, APRIL 7, 2019

7:00 am – 7:30 am  Breakfast / Exhibits / Poster Viewing  Monarch Ballroom

7:30 am – 8:30 am  AUC Education Session - Gastrointestinal and Sarcoma (SA-CME)  Pacific Ballroom 1-2
Gastrointestinal – Salma Jabbour, MD, Rutgers Cancer Institute of New Jersey
Sarcoma – Simon S. Lo, MD, University of Washington School of Medicine

8:30 am – 10:00 am  Scientific Session #3 - CNS / Gastrointestinal  Pacific Ballroom 1-2
Moderators: Laurie E. Gaspar, MD, MBA, UC Denver
Naveesh K. Sharma, DO, PhD, Penn State Cancer Institute

OA15: CLINICAL OUTCOMES OF BREAST LEPTOMENINGEAL DISEASE TREATED WITH INTRATEHICAL TRASTUZUMAB, INTRATEHAL CHEMOTHERAPY, OR WHOLE BRAIN RADIATION THERAPY
Nicholas B. Figura, MD, Homan Mohammad, MD, Victoria T. Rizk, MD, Brittany Evernden, PA-C, Sepideh Mokhtari, MD, H. Michael Yu, MD, Timothy J. Robinson, MD, PhD, Arnold B. Etame, MD, PhD, Nam D. Tran, MD, PhD, Roberto Diaz, MD, PhD, Hatem Soliman, MD, Heather Han, MD, Solmaz Sahebjam, MD, Peter A. Forsyth, MD, Kamran A. Ahmed, MD; Moffitt Cancer Center

OA16: COMPARISON OF OUTCOMES AND OPTIMAL TREATMENTS BETWEEN UNIFOCAL AND MULTIFOCAL GliOBLASTOMA USING THE NATIONAL CANCER DATABASE
Jodi Goldman, Samantha Buszek, MD, Bryce Starr, Karine Al Feghali, MD, Neil Chevli, MD, Pamela Allen, MPH, PhD, Caroline Chung, MD; MD Anderson Cancer Center

OA17: PROGNOSTIC IMPACT OF TELOMERASE REVERSE TRANSCRIPTASE MUTATION AND O6-METHYLGUANINE-DNA METHYLTRANSFERASE METHYLATION IN ISOCITRATE DEHYDROGENASE WILD-TYPE GliOBLASTOMA
Soumon Rudra, Sirui Ma, Jiayi Huang, MD; Washington University in St. Louis

OA18: PROTON AND CARBON-ION RADIOTHERAPY FOR HIGH GRADE gliOMA: EARLY RESULTS OF THE SHANGHAI PROTON AND HEAVY ION CENTER (SPHIC)
Lin Kong, Jing Gao, Xianxin Qiu, Jiyi Hu, Xiyin Guan, Weixu Hu, Jing Yang, Jiade Lu; Shanghai Proton and Heavy Ion Center, Shanghai, China

OA19: STEREOTACTIC RADIosURGERY RE-IRRADIATION FOR RECURRENT gliOBLASTOMA: A SINGLE INSTITUTION EXPERIENCE
Sai Duriseti, MD, PhD; Washington University in St. Louis

OA20: OUTCOMES OF PENCIL BEAM SCANNING PROTON THERAPY FOR ANAL CANCER: A SINGLE INSTITUTION STUDY
Nikhil Grandhi, BS, Jahan Mohiuddin, MD, John Plastaras, MD, PhD, James M. Metz, MD, John Lukens, MD, Thomas Karasic, MD, Kim Reiss-Binder, MD, Edgar Ben-Josef, MD, Andrzej Wojcieszynski, MD; Drexel School of Medicine, University of Pennsylvania

OA21: PROSPECTIVE STUDY EVALUATING LIVER RADIOEMBOLIZATION DOSE WITH POSITRON EMISION TOMOGRAPHY AND DISEASE RESPONSE
Vladimir Avkshtol, MD, Iavor Veltchev, PhD, Jordan Anoakar, MD, Jonathan J. Paly, DO, Jian Q. Yu, MD, Mohan Doss, PhD, Gary S. Cohen, MD, Joseph N. Panaro, MD, Crystal S. Denlinger, MD, Elizabeth A. Handorf, PhD, Adam Anderson, BS, Graeme R. Williams, MD, Eugene Fourkal, PhD, Joshua E. Meyer, MD; Fox Chase Cancer Center, Hospital of the University of Pennsylvania, Pinnacle Health

OA22: HIGH BODY MASS INDEX DECREASES TUMOR CONTROL IN LOCALLY ADVANCED PANCREATIC CANCER PATIENTS TREATED WITH SBRT AND SURGERY
Nick Iarrobino, BS, Joel Thomas, BS, Sushil Beriwal, MD, Mark Bernard, MD, Colin Champ, MD; University of Pittsburgh School of Medicine, Department of Radiation Oncology, UPMC Hillman Cancer Center, Pittsburgh, PA, USA, University of Kentucky, Department of Radiation Medicine, Department of Radiation Oncology, University of Pittsburgh Medical Center, Pittsburgh, PA, USA
OA23: OUTCOMES FOR PATIENTS WITH BORDERLINE AND LOCALLY ADVANCED PANCREATIC CANCER: INDUCTION CHEMOTHERAPY ± RADIATION FOLLOWED BY SURGERY COMPARED TO INDUCTION CHEMOTHERAPY AND CONSOLIDATIVE RADIATION
Joseph A. Miccio, MD, Michael Cecchini, MD, Jay Pahade, MD, Jill Lacy, MD, Ronald R. Salem, MD, Skyler B. Johnson, MD, Adriana Blakaj, MD, PhD, Stacey Stein, MD, Jeremy S. Kortmansky, MD, Kimberly Johung, MD, PhD; Yale School of Medicine

OA24: CAN IMRT REDUCE LYMPHOPENIA IN PATIENTS TREATED WITH PREOPERATIVE CHEMORADIATION FOR GASTRIC CANCER?
Shalini Moningi, MD, Jaffer Ajani, MD, Brian Badgwell, MD, Mariela Murphy, MD, Naruhioko Ikoma, MD, Jennifer Ho, MD, Emma Holliday, MD, Joseph Herman, MD, Bruce Minsky, MD, Eugene Koay, MD, PhD, Albert Koong, MD, PhD, Sunil Krishnan, MD, Grace Smith, MD, Cullen Taniguchi, MD, PhD; MD Anderson Cancer Center; 1University of Southern California, 3Radiation Oncology Department, The University of Texas, MD Anderson Cancer Center

10:00 am – 10:15 am Networking Break / Exhibits / Poster Viewing  
Monarch Ballroom

10:15 am – 11:00 am Janeway Lecture  
Michael A. Caligiuri, MD, City of Hope National Medical Center  
Pacific Ballroom 1-2

11:00 am – 12:30 pm Challenging Cases in CNS (SA-CME)  
Moderator: Scott G. Soltys, MD, Stanford University  
Pacific Ballroom 1-2

Panelists:
- Radiation Oncology: Sam Chao, MD, Cleveland Clinic
- Neuro-Oncology: Seema Nagpal, MD, Stanford University
- Neurosurgery: Gabriel Zada, MD, Keck School of Medicine of USC

12:30 pm - 1:00 pm Lunch / Exhibits / Poster Viewing  
Monarch Ballroom

1:00 pm – 2:00 pm Speed Mentoring (Pre-registration is required)  
Mentor: Andre A. Konski, MD, MBA, MA, FACP, FASTRO, University of Pennsylvania  
Pacific Ballroom 3

- Academics in a Community Setting: Andre A. Konski, MD, MBA, MA, FACP, FASTRO, University of Pennsylvania
- Contract Negotiations: Cynthia A. Ballenger, MD, 21st Century Oncology, Inc.
- Mentoring: Bruce Haffty, MD, Rutgers- Robert Wood Johnson Med School
- Interview Advice: Joe Herman, MD, MD Anderson
- Private Practice Gems: Join Y. Luh, MD, FACP, Providence St. Joseph Health
- Promotion in Academia: Benjamin Movsas, MD, Henry Ford Health System

2:00 pm – 5:30 pm Free Time

5:30 pm – 7:00 pm Resident Jeopardy  
This session is supported by Varian Medical Systems  
Moderator: Join Y. Luh, MD, FACP, Providence St. Joseph Health  
Pacific Ballroom 1-2

7:30 pm – 9:30 pm ARS Social Event  
Botanical Lawn North

Please note: You will need the ticket you received at registration, plus your name badge, to participate in this event.
MONDAY, APRIL 8, 2019

7:00 am – 7:30 am  **Breakfast / Exhibits / Poster Viewing**  
Monarch Ballroom

7:30 am – 8:30 am  **AUC Education Session - Thoracic and Breast (SA-CME)**  
Pacific Ballroom 1-2  
Thoracic – Stephen G. Chun, MD, University of Texas MD Anderson Cancer Center  
Breast – Elizabeth Harris, MD, Case Western Reserve University School of Medicine

8:30 am – 9:30 am  **Scientific Session #4 - GYN & GU Cancers**  
Pacific Ballroom 1-2  
Moderators: Neil Taunk, MD, MS, University of Pennsylvania  
Brian C. Baumann, MD, Washington University in St. Louis

**OA25: DEFINITIVE RADIOTherAPY WITH OR WITHOUT CISPLATIN FOR CERVICAL CANCER IN OLDER WOMEN**  
Michael Xiang, MD, PhD, Elizabeth Kidd, MD; Stanford University

**OA26: LYMPHOVASCULAR SPACE INVASION AS A SIGNIFICANT RISK FACTOR OF LYMPH NODE INVOLVEMENT IN PATIENTS WITH IB ENDOMETRIAL ADENOCARCINOMA**  
Eric Anderson, MD, Mark Sittig, MD, Mitchell Kamrava, MD; Cedars Sinai Medical Center

**OA27: THE IMPORTANCE OF BRACHYTHERAPY IN TREATING STAGE III ENDOMETRIAL CANCER**  
Feiya Shi, Alison Yoder, BS, Ramya Masand, MD, Tracilyn Hall, MD, Matthew Anderson, MD, Michelle Ludwig, MD, PhD, MPH; Baylor College of Medicine

**OA28: COMBINED MODALITY TREATMENT FAVORABLY IMPACTS SURVIVAL IN WOMEN WITH STAGE I UTERINE SEROUS CARCINOMA: A NATIONAL CANCER DATABASE ANALYSIS**  
Ahmed I. Ghanem, MD, Ankit Modh, MD, Remonda Khalili, Joon K. Lee, MD, Mohamed A. Elshaikh, MD; 1Radiation Oncology Department, Henry Ford Health System/Alexandria Clinical Oncology Department; Alexandria University, 2Department of Radiation Oncology, Henry Ford Health System, 3Radiation Oncology Department, Henry Ford Health System

**OA29: SINGLE INSTITUTION RETROSPECTIVE REVIEW OF A SHORT BRACHYTHERAPY TREATMENT REGIME IN POSTOPERATIVE ENDOMETRIAL CARCINOMA PATIENTS**  
Douglas Y. Lee, DO, Jiangtao Gou, PhD, Jessica Karen Wong, MD, Meng, Iavor Veltchev, PhD, Krisha Howell, MD, Penny Anderson, MD; Fox Chase Cancer Center

**OA30: FACTORS AFFECTING RECEIPT OF NON-DEFINITIVE THERAPY FOR HIGH-RISK PROSTATE CANCER: A NATIONAL CANCER DATABASE ANALYSIS**  
Alexander Bagley, MD, PhD, Mitchell Anscher, MD, Seungtaek Choi, MD, Steven J. Frank, MD, Karen Hoffmann, MD, Deborah Kuban, MD, Sean McGuire, MD, PhD, Quynh-Nhu Nguyen, MD, Benjamin Smith, MD, Grace Smith, MD, Todd A. Pezzi, MD, MBA, Brian Chapin, MD, Ana Aparicio, MD, Kenneth Hess, PhD, Chad Tang, MD; 1Division of Radiation Oncology, University of Texas MD Anderson Cancer Center, 2MD Anderson Cancer Center, 3Department of Urology, Division of Surgery, University of Texas MD Anderson Cancer Center, 4Department of Genitourinary Medical Oncology, Division of Cancer Medicine, University of Texas MD Anderson Cancer Center, 5Department of Biostatistics, Division of Basic Science, University of Texas MD Anderson Cancer Center

**OA31: RADIOTHERAPY GUIDED BY ULTRASMAALL SUPERPARAMAGNETIC IRON OXIDE CONTRAST MRI STAGING FOR PATIENTS WITH HIGH RISK, CLINICALLY NODE POSITIVE OR RECURRENT PROSTATE CANCER**  
Yun Rose. Li, MD PhD, Mack Roach, III, MD; University of California, San Francisco

9:30 am – 10:00 am  **Presidential Lecture**  
Pacific Ballroom 1-2  
Andre A. Konski, MD, MBA, MA, FACR, FASTRO, University of Pennsylvania
MONDAY, APRIL 8, 2019

10:00 am – 10:15 am  Gold Medal Award Presentation  Pacific Ballroom 1-2
Introduction: Andre A. Konski, MD, MBA, MA, FACR, FASTRO, University of Pennsylvania

10:15 am – 10:30 am  Networking Break / Exhibits / Poster Viewing  Monarch Ballroom

10:30 am – 11:15 am  Keynote Address  Pacific Ballroom 1-2
Physician Wellness: The Case for Optimism
Bryan Bohman, MD, Chief Medical Officer, University Healthcare Alliance

11:15 am – 11:30 am  Report on the 2018 ACR Intersociety Conference  Pacific Ballroom 1-2
Physical Wellness: A Cause for Concern
Seth A. Rosenthal, MD, FACR, FASTRO, Sutter Medical Group

11:30 am – 12:30 pm  Scientific Session #5 - Lung & Pediatric Cancers  Pacific Ballroom 1-2
Moderators: Henry S. Park, MD, MPH, Yale School of Medicine
Susan Hiniker, MD, Stanford University

(OA32) Evaluating Single-Institution Costs of Consolidative Radiotherapy for Oligometastatic Non-Small Cell Lung Cancer Using Time-Driven Activity-Based Costing
Todd A. Pezzi, MD MBA, Matthew S. Ning, MD1, Nikhil G. Thaker, MD2, David Boyce-Fappiano, MD1, Nicholas D. Olivieri, MS3, Alexis B. Guzman, MBA4, James R. Incalcaterra, PhD5, Shane Mesko, MD MBA1, Simona F. Shaitelman, MD1, Stephen G. Chun, MD1, Chad Tang, MD1, Steven J. Frank, MD1, Quynh-Nhu Nguyen, MD1, Daniel R. Gomez, MD1; Division of Radiation Oncology, University of Texas MD Anderson Cancer Center, 1Department of Radiation Oncology, Arizona Oncology, 2Sr. Healthcare Systems Engineer, Quality Measurement and Eng, University of Texas MD Anderson Cancer Center, 3Clinical Rev & Reimb Proj Mgr, Clinical Revenue/Reimbursement, University of Texas MD Anderson Cancer Center, 4Exec Dir, Fin Planning & Analysis, Financial Planning & Analysis, University of Texas MD Anderson Cancer Center

OA33: Patterns of Adoption and Potential for Health Disparities in the Use of SBRT for Early-stage NSCLC in the United States from 2004–2014
Croix Fossum, MD, Scott Atay, MD, Li Ding, MD, Anthony Kim, MD, Jason Ye, MD; University of Southern California Keck School of Medicine

OA34: STEREOTACTIC BODY RADIOTHERAPY FOR APICAL LUNG TUMORS: DOSIMETRIC ANALYSIS OF THE BRACHIAL PLEXUS AND PRELIMINARY CLINICAL OUTCOMES
Kaleigh Doke, MD1, Ryan Morse, BS2, Rohit Ganju, MD2, Sumit Sood, MD3, Allen M. Chen, MD4; University of Kansas, 1University of Kansas Medical Center, 2University of Minnesota, 3University of California Irvine

OA35: RATES OF INVASIVE CARCINOMA FOLLOWING RESECTION IN PATIENTS WITH CARCINOMA-IN-SITU ON BIOPSY
Wesley J. Talcott, MD, Benjamin H. Kann, MD, Roy H. Decker, MD, PhD; Yale School of Medicine

OA36: CLINICAL PRACTICE AND OUTCOMES OF PALLIATIVE RADIATION THERAPY IN PEDIATRIC ONCOLOGY PATIENTS: AN INTERNATIONAL COMPARISON OF EXPERIENCES FROM TWO DISTINCT COUNTRIES AND HEALTH CARE SYSTEMS
Avani D. Rao, MD1, Maria Luisa Figueiredo, MD2, Nikhil Yegya-Raman, MD3, Shuchi Sehgal1, Qinyu Chen, MHS1, Sara Alcorn, MD, MPH1, Michael Chen, MD2, Matthew Ladra, MD1, Rosangela Villar, MD2, Stephanie Terezakis, MD1; 1Department of Radiation Oncology, Johns Hopkins School of Medicine, 2Grupo de Apoio ao Adolescente e a Criança com Câncer, 3Rutgers-Robert Wood Johnson Medical School

OA37: LONG-TERM CAUSES OF DEATH AMONG PEDIATRIC CANCER PATIENTS
Samantha R. Horn, BA1, Heath Mackley, MD1, Teah Snyder, BS1, Eric J. Lehrer, MD2, Daniel M. Trifiletti, MD3, Nicholas G. Zaorsky, MD1; 1Penn State Cancer Institute, 1Icahn School of Medicine at Mount Sinai, 2Mayo Clinic
TUESDAY, APRIL 9, 2019

7:00 am – 7:30 am  Breakfast / Exhibits / Poster Viewing  Monarch Ballroom

7:30 am – 8:00 am  Business Meeting  Pacific Ballroom 1-2
Moderator: Andre A. Konski, MD, MBA, MA, FCR, FASTRO, University of Pennsylvania

8:00 am – 8:45 am  Scientific Session #6, Young Oncologist Awards and Presentation of The James D. Cox Award of Scientific Merit  Pacific Ballroom 1-2
Moderator: Gary Freedman, MD, University of Pennsylvania Health System
Andre A. Konski, MD, MBA, MA, FACR, FASTRO, University of Pennsylvania

OA38: REGIONAL RECURRENCE RATES WITH OR WITHOUT COMPLETE AXILLARY DISSECTION FOR BREAST CANCER PATIENTS WITH NODE-POSITIVE DISEASE ON SENTINEL LYMPH NODE BIOPSY AFTER NEOADJUVANT CHEMOTHERAPY
Diane C. Ling, MD1, Nick A. Iarrobino, BS1, Colin E. Champ, MD1, Atilla Soran, MD, MPH2, Sushil Beriwal, MD1;1Department of Radiation Oncology, UPMC Hillman Cancer Center, University of Pittsburgh School of Medicine, Pittsburgh, PA, 2Breast Surgery Unit, Department of Surgical Oncology, University of Pittsburgh Medical Center Magee-Women’s Hospital, Pittsburgh, USA

OA39: EVALUATING PROSTATE-SPECIFIC ANTIGEN (PSA) NADIR AND BOUNCE AFTER STEREOTACTIC BODY RADIOTHERAPY (SBRT) IN A MULTI-INSTITUTIONAL COHORT
Naomi Jiang, MD1, Audrey Dang, MD1, Ye Yuan, MD, PhD1, Fang-I Chu, PhD1, Christopher King, MD, PhD1, Sean Collins, MD, PhD2, Nima Aggham, MD2, Simeng Suy, PhD2, Leszek Miszczczyk, MD, PhD3, Constantine Mantz, MD4, Hilary Bagshaw, MD5, Mark Buyyounouski, MD, MS5, Michael Steinberg, MD, FASTRO, FACR, FACRO1, Patrick Kupelian, MD1, Amar Kishan, MD1;1Department of Radiation Oncology, University of California, Los Angeles (UCLA), 2Department of Radiation Medicine, Georgetown University Hospital, 3Radiotherapy Department, Maria Sklodowska-Curie Memorial Cancer Center and Institute of Oncology Glownie Branch, 421st Century Oncology, Inc., 5Department of Radiation Oncology, Stanford University School of Medicine

OA40: RANDOMIZED PROSPECTIVE TRIAL OF STEREOTACTIC RADIOSURGERY VERSUS CHEMOTHERAPY FOR RECURRENT MALIGNANT GLIOMA AFTER SECOND-LINE CHEMOTHERAPY
Ankit Modh, MD1, David Bergman, MD3, Renee Hanna, BS2, Lonni Schultz, PhD1, James Snyder, MD1, Tom Mikkelsen, MD1, Benjamin Movsas, MD4, Samuel Ryu, MD1, M. Salim Siddiqui, MD, PhD1;1Henry Ford Hospital, 2Michigan State University College of Osteopathic Medicine, 3Henry Ford Health System, 4Henry Ford Cancer Institute, 5Stony Brook Cancer Center

OA41: HIGHER RATES OF PSEUDO-PROGRESSION AMONG PEDIATRIC LOW-GRADE GLIOMA PATIENTS TREATED WITH PROTON VERSUS PHOTON RADIOTHERAPY
Ethan B. Ludmir, MD1, Anita Mahajan, MD2, Arnold Paulino, MD3, Jeremy Jones, MD3, Leena Ketonen, MD1, Jack Su, MD4, David Grosshans, MD, PhD1, Mary Frances McAleer, MD, PhD1, Susan L. McGovern, MD, PhD1, Yasmin A. Lassen-Ramshad, MD, PhD5, Adekunle Adesina, MD, PhD4, Robert Dauser, MD1, Jeffrey Weinberg, MD1, Murali M. Chintagumpala, MD1;1The University of Texas MD Anderson Cancer Center, 2Mayo Clinic, 3Nationwide Children’s Hospital, 4Texas Children’s Cancer Center, Baylor College of Medicine, 5Aarhus University Hospital

OA42: CONCURRENT CHEMORADIATION FOR CERVICAL CANCER: COMPARISON OF LDR AND HDR BRACHYTHERAPY
Alexander J. Lin, MD, PhD1, Pamela Samson, MD, MPH2, Jacqueline Zoberi, PhD2, Jose Garcia-Ramirez, MS2, Jeffrey Williamson, PhD2, Stephanie Markovina, MD, PhD3, Julie Schwarz, MD, PhD2, Perry Grigsby, MD2;1Washington University in Saint Louis School of Medicine, 2Washington University in St. Louis

8:45 am – 9:45 am  Educational Session – Immunotherapy (SA-CME)  Pacific Ballroom 1-2
Moderator: Igor I. Rybkin, MD, PhD, Henry Ford Cancer Institute

8:45 am  Immunotherapy in the Management of Lung Cancer  Igor I. Rybkin, MD, PhD, Henry Ford Cancer Institute

9:05 am  Clara Hwang, MD, Henry Ford Health System

9:25 am  Advances in Immunotherapy for Skin Cancer, and Potential Implications for Radiotherapy Trials  Mohammad Khan, MD, PhD, DABR, FACRO, Emory University Hospital
SCIENTIFIC PROGRAM

TUESDAY, APRIL 9, 2019

9:45 am – 10:00 am  Networking Break / Exhibits / Poster Viewing  Monarch Ballroom

10:00 am - 11:00 am  Scientific Session #7 - QOL / Outcomes / Physics / Biology  Pacific Ballroom 1-2

Moderators: Indrin J. Chetty, PhD, Henry Ford Health System  
Andrew Vassil, MD, Cleveland Clinic

**OA43: QUANTITATIVE 3D ASSESSMENT OF BREAST COSMESIS AFTER CONVENTIONAL (CF-WBI) VERSUS HYPOFRACTIONATED WHOLE BREAST RADIATION (HF-WBI): RESULTS OF A RANDOMIZED CLINICAL TRIAL**

Bhavana V. Chapman, MD; Xiudong Lei; Prithvi Patil; Shikha Tripathi; Krista Nicklaus; Michelle Fingeret; PhD; Simona F. Shaitelman, MEdM; Kelly Hunt, MD; Thomas Buchholz, MD; Fatima Merchant, PhD; Mia Markey, PhD; Benjamin Smith, MD; Jay P. Reddy, MD; PhD; MD Anderson Cancer Center, Department of Health Services Research, The University of Texas MD Anderson Cancer Center, The University of Texas Health Science Center at Houston, Department of Engineering Technology, The University of Texas, Department of Behavioral Science, The University of Texas MD Anderson Cancer Center, Division of Radiation Oncology, University of Texas MD Anderson Cancer Center, Department of Breast Surgical Oncology, The University of Texas MD Anderson Cancer Center, Department of Radiation Oncology, Scripps MD Anderson Cancer Center

**OA44: PELVIC REIRRADIATION UTILIZING PULSED LOW DOSE RATE RADIATION THERAPY**

Jonathan J. Paly, DO; Charles T. Lee, PharmD; Jiangtao Gou, PhD; Thomas Galloway, MD; Mark Hallman, MD; PhD; Stephanie Weiss, MD; Shelly Hayes, MD; Eric Horwitz, MD; Robert Price, PhD; C.M. Charlie Ma, PhD; Joshua E. Meyer, MD; Fox Chase Cancer Center

**OA45: TOXICITY AFTER RADIOTHERAPY IN PATIENTS WITH HISTORICALLY ACCEPTED CONTRAINDICATIONS TO TREATMENT (CONTRA): AN INTERNATIONAL SYSTEMATIC REVIEW AND META-ANALYSIS**

Diana Lin; Eric J. Lehrer, MD; Jennifer Rosenberg, MD; Daniel M. Trifiletti, MD; Nicholas G. Zatorsky, MD; Penn State College of Medicine, Icahn School of Medicine at Mount Sinai, Penn State Cancer Institute, Mayo Clinic

**OA46: THE USE OF PATIENT REPORTED OUTCOMES TO PREDICT UNPLANNED INPATIENT HOSPITALIZATIONS AND EMERGENCY DEPARTMENT VISITS IN CANCER PATIENTS RECEIVING CONCURRENT CHEMOTHERAPY AND RADIATION THERAPY**

Amardeep S. Grewal, MD; Peter Gabriel, MD; Abigail Doucette, BA; James M. Metz, MD; Andrzej Wojcieszynski, MD; University of Pennsylvania

**OA47: LIVER STEREOTACTIC BODY RADIATION THERAPY USING REAL TIME MAGNETIC RESONANCE GUIDANCE**

Aharon M. Feldman, MD; Carri Glide-Hurst, PhD; Joshua Kim; Kate Aldridge, BS; RTT; CMD; Ning Wen, PhD; Ankit Modi, MD; Jadranka Dragovic, MD; MSC; Munther Ajlouni, MD; Indrin J. Chetty, PhD; Benjamin Movsas, MD; Henry Ford Health System, Henry Ford Cancer Institute, Department of Radiation Oncology, Henry Ford Health System, Henry Ford Medical Center, Cottage, Henry Ford Hospital

**OA48: EVALUATION AND MITIGATION OF INTERPLAY EFFECTS USING REPAINING TECHNIQUES FOR PATIENTS WITH LUNG CANCERS**

Yuenan Wang, PhD, DABR; Haijiao Shang, PhD Candidate; Chinese Academy of Medical Science (CAMS) Shenzhen Cancer Hospital, RaySearch Lab

**OA49: ASSESSING FOR ENHANCED RADIOSENSITIVITY IN HYPOXIC TUMORS BY BLOCKING OXIDATIVE PHOSPHORYLATION USING IACS-010759**

Alexander Augustyn, MD, PhD; Cullen Taniguchi, MD; PhD; Steven Lin, MD, PhD; MD Anderson Cancer Center

11:00 am - 12:30 pm  Challenging Cases in GU (SA-CME)  Pacific Ballroom 1-2

Moderator: Timothy Showalter, MD, MPH, University of Virginia

Panelists: Urology - Tracey Krupski, MD, MPH, University of Virginia  
Medical Oncology – Clara Hwang, MD, Henry Ford Health System  
Radiation Oncology – Abhishek Solanki, MD, Loyola University Medical Center  
Radiation Oncology – Rahul Tendulkar, MD, Cleveland Clinic

12:30 pm - 1:00 pm  Box Lunch  Pacific Ballroom Promenade
(P01) RECONSTRUCTION DOES NOT IMPACT LOCAL CONTROL OR SURVIVAL OUTCOMES IN INFLAMMATORY BREAST CANCER PATIENTS TREATED WITH TRIMODALITY THERAPY - Patricia Mae G. Santos, MS1, Hannah Bogen, BS1, Neil K. Taunk, MD, MS1, Julia Tchou1, Liza Wu, MD2, Gary M. Freedman, MD3; The Perelman School of Medicine of the University of Pennsylvania, 1University of Pennsylvania

(P02) INITIAL CLINICAL EXPERIENCE TREATING PATIENTS WITH BREAST CANCER ON THE HALCYON LINEAR ACCELERATOR - Andrew B. Barsky, MD1, Fionnbarr O’Grady, PhD, Christopher Kennedy, PhD2, Neil K. Taunk, MD, MS1, Lei Dong, PhD1, James M. Murray, MD1, Taoran Li, PhD2, Gary M. Freedman, MD3; Perelman School of Medicine of the University of Pennsylvania, 1Hospital of University of Pennsylvania, 2University of Pennsylvania, 3University of Pennsylvania

(P03) ROLE OF ADJUVANT TREATMENT IN RESECTED PRIMARY BREAST ANGIOSARCOMA - Shearwood McClelland III, MD1, Jess (P03) ROLE OF ADJUVANT TREATMENT IN RESECTED PRIMARY BREAST ANGIOSARCOMA - Shearwood McClelland III, MD1, Jess (P03) ROLE OF ADJUVANT TREATMENT IN RESECTED PRIMARY BREAST ANGIOSARCOMA - Shearwood McClelland III, MD1, Jess (P03) ROLE OF ADJUVANT TREATMENT IN RESECTED PRIMARY BREAST ANGIOSARCOMA - Shearwood McClelland III, MD1, Jess (P03) ROLE OF ADJUVANT TREATMENT IN RESECTED PRIMARY BREAST ANGIOSARCOMA - Shearwood McClelland III, MD1, Jess

(P04) THE EFFICACY AND SAFETY OF HYPOFRACTIONATED RADIOTHERAPY WITH CONCURRENT ANTI-HER-2 THERAPY FOLLOWING BREAST-SAVING THERAPY FOR BREAST CANCER - Alexandra D. Dreyfuss, BSE1, Andrew R. Barsky, MD1, Neil K. Taunk, MD, MS1, Amy S. Clark, MD, MSCE1, Gary M. Freedman, MD3; The Perelman School of Medicine of the University of Pennsylvania

(P05) FIVE DAY ACCELERATED PARTIAL BREAST IRRADIATION (APBI) USING STEREOTACTIC BODY RADIATION THERAPY (SBRT) IN STAGE II-IIIB BREAST CANCER - Rufus J. Mark, MD, Valerie Gorman, MD1, MD, Steve McCoulough, PhD, PhD2; Baylor Scott & White Medical Center

(P06) THE USE OF BIOZORB® RESULT IN SMALLER SEROMA VOLUME (BOOST CTV)? - Zeinab Abou Yehia, MD1, Mutlay Sayan, MD1, Bruce Haftty, MD, Nisha Ohri, MD1; Rutgers Cancer Institute of New Jersey

(P07) ACUTE AND LATE TOXICITY OF HYPERFRACTIONATED REIRRADIATION FOR LOCOREGIONALLY RECURRENT BREAST CANCER - Michael M. Travieso, MD1, Alexandra Dreyfuss, BS1, Neil K. Taunk, MD, MS1, Gary M. Freedman, MD3; University of Pennsylvania, 1The Perelman School of Medicine of the University of Pennsylvania

(P08) UTILIZATION OF BREAST HYPOFRACTIONATION: A SINGLE INSTITUTION REVIEW - Jonathan Moayyed, MD1, Parima Darou, MD, PhD1, Pericles Ioannides, MD1, UC Irvine Radiation Oncology

(P09) RADIOTHERAPY TIMING FOLLOWING BIOPSY AND ITS EFFECT ON OVERALL SURVIVAL IN UNRESECTED GLIOBLASTOMA MULTIFORME - Sarah Gay, MD1, Zachary Corbin, MD2, Jennifer Moliterno, MD, FAANS1, Ranjit Bindra, MD, PhD2, James B. Yu, MD, MHS1, Henry S. Park, MD, MPH1, Joseph Contessa, MD, PhD1, Yale School of Medicine, 1Yale New Haven Hospital, 2Yale School of Medicine, 3Yale School of Medicine: 1Yale New Haven Hospital, 2Yale School of Medicine, 3Yale University

(P10) LOW-DOSE RADIOTHERAPY IN ADULT INTRACRANIAL EPENDYOMA - Bryan Agar, MD1, Michael Christensen, BS, Matthew Poppe, MD1; University of Utah Huntsman Cancer Institute

(P11) PATTERNS OF CARE AND SURVIVAL OUTCOMES FOR PATIENTS WITH PRIMARY SPINAL GLIOBLASTOMA MULTIFORME - Chidinma P. Anakwenze, MD, MPH1, Kai Ping Liao, PhD2, Nicolette Taku, MD, MPH2, David Boyce-Fappiano, MD2, Jing Li, MD, PhD2, Amol J. Ghia, MD1, Andrew J. Bishop, MD1, Arnold Paulino, MD1, Debra Nana Yeboa, MD1; The University of Texas MD Anderson Cancer Center, 1Division of Radiation Oncology, University of Texas MD Anderson Cancer Center

(P12) LIMITED MARGIN RADIATION DOES NOT AFFECT PATTERNS OF FAILURE IN GLIOBLASTOMA PATIENTS UNDERGOING CONCURRENT TEMOZOLAMIDE THERAPY - Anthony Pham, MD1, Theodore Wang, BS2, Richard Jennelle, MD1, Naveed Wagle, MD1, Gabriel Zada, MD1, Eric L. Chang, MD2; Keck Medical Center, Department of Radiation Oncology, 2Keck School of Medicine, Department of Neurosurgery, 3Keck Medical Center, Department of Clinical Neurology

(P13) EARLY EVALUATION OF RADIATION-INDUCED WHITE MATTER INJURY FOLLOWING HIGH DOSE FRACTIONATED RADIATION THERAPY IN PATIENTS WITH GLIOBLASTOMA USING SERIAL DIFFUSION TENSOR IMAGING (DTI) - Hesham Elhalawani, MD, MS1, Tengfei Li, PhD1, Karine Al Feghali, MD, MS1, Sameh Radwan, MD1, Yao Ding, PhD1, Yan Jin, PhD1, Abdallah Mohamed, MD, MS1, Clifton D. Fuller, MD, PhD1, Hongtu Zhu, PhD1, Caroline Chung, MD3; University of Texas MD Anderson Cancer Center, 1Department of Radiation Oncology, MD Anderson Cancer Center

(P14) MANAGEMENT OF BRAINSTEM GLIOMA: IS RE-IRRADIATION A GOOD PALLIATIVE OPTION? - Joseph J. Kowalski, MD1, Jonathan T. Kell, MD2, DO1, Jay Burmeister, PhD1, Michael Joiner, MA PhD HonMRCR4, Steven Miller, MD4; Wayne State University School of Medicine, 1Detroit Medical Center / Wayne State Radiation Oncology, 2Department of Oncology, Karmanos Cancer Institute / Wayne State University School of Medicine, 3Department of Oncology, Division of Radiation Oncology / Wayne State University School of Medicine

(P15) PATTERNS OF CARE AND SURVIVAL OUTCOMES FOR PATIENTS WITH PRIMARY SPINAL GLIOBLASTOMA MULTIFORME - Chidinma P. Anakwenze, MD, MPH1, Kai Ping Liao, PhD2, Nicolette Taku, MD, MPH2, David Boyce-Fappiano, MD2, Jing Li, MD, PhD2, Amol J. Ghia, MD1, Andrew J. Bishop, MD1, Arnold Paulino, MD1, Debra Nana Yeboa, MD1; The University of Texas MD Anderson Cancer Center, 1Division of Radiation Oncology, University of Texas MD Anderson Cancer Center

(P16) OUTCOMES AFTER GAMMA KNIFE RADIOSURGERY FOR INTRACRANIAL MENINGIOMAS - Zaker Hamid, Rana, MD1, David Lin, BS2, Maged Ghaly, MD1, Jonathan Kinelsey, MD1, Troy Dawley, MD1, Michael Schuler, MD1, Anu Goenka, MD1; Northwell Department of Radiation Oncology, 1Zucker/Hofstra Medical School, 2Northwell, 3Northwell Neurosurgery

(P17) FRAMELESS STEREOTACTIC RADIOSURGERY ON THE GAMMA KNIFE ICON: FIRST 100 CONSECUTIVE PATIENTS - Horia Vulpe, MD1, Carl Elliston, Yuanguang Xu, PhD1, Simon Cheng, MD, PhD1, Cheng-Chia Wu, MD1, PhD1, Jeffrey McKhann, MD, Michael Sisti, MD1, Tony Wang, MD1; Columbia University

(P18) IMPACT OF TRAVEL DISTANCE ON RADIATION TREATMENT MODALITY FOR CENTRAL NERVOUS SYSTEM DISEASE - Shearwood McClelland III, MD1, Tariq Gharb, MD1, PhD2, Jerry J. Jaboin, MD, PhD1, Jeremy N. Ciporen, MD1; Department of Radiation Oncology, Indiana University School of Medicine, 1Department of Radiation Medicine, Oregon Health and Science University, 2Department of Neurological Surgery, Oregon Health and Science University

(P19) BIOPSY PROVEN METASTATIC MENINGIOMA: A CASE REPORT & REVIEW OF THE LITERATURE - Haris Vaki, BS1, Lena Tran, BS1, Gary D. Lewis, MD1, Bin S. Teh, MD1; University of Texas MD Anderson Cancer Center, 1UTMB-Galveston, 2Houston Methodist Hospital

(P20) THE BURDEN OF MENTAL HEALTH DISORDERS AMONG ELDERLY PATIENTS WITH GASTROINTESTINAL MALIGNANCIES - Jeremy Harris, MD1, MPh1, Michael Xiang, MD, PhD1, Daniel Chang, MD1, Erqi Pollom, MD, MS1, Stanford University

(P21) INCIDENCE OF SWALLOWING PROCEDURES AFTER CURATIVE TREATMENT FOR LOCALLY ADVANCED ESOPHAGEAL CANCER - Samual Francis, MD1, Shane Lloyd, MD1, Greg Stoddard, MStat1, MBA1, MPH1; Christopher Anker, MD2; Department of Radiation Oncology, Huntsman Cancer Institute, University of Utah, Salt Lake City, Utah, 1Huntsman Cancer Institute, University of Utah, 2Department of Medicine, Study Design and Biostatistics Center, University of Utah, Salt Lake City, Utah, 3Division of Radiation Oncology, University of Vermont Cancer Center, Burlington, Vermont

(P22) DOES FIDUCIAL MARKER PLACEMENT PRIOR TO SBRT INCREASE THE RISK OF METASTATIC DISEASE IN PATIENTS WITH UNRESECTABLE PANCREATIC CANCER? - Shalini Moningi, MD1, Maureen Aliru, BS1, Daniel Lin, BA1, Santiago Avila, BA1, Danyal Smani, BA1, Eugene Koay, MD, PhD1, Cullen Taniguchi, MD, PhD1, Prajnan Das, MD1, Grace Smith, MD1, Emma Holliday, MD1, Irima Cazacu, MD1, Albert Koong, MD, PhD1, Joseph Herman, MD1; 1MD Anderson Cancer Center, 2Radiation Oncology Department, The University of Texas, MD Anderson Cancer Center
(P23) PROGNOSTIC FACTORS AFFECTING OVERALL SURVIVAL IN NON-METASTATIC, PRIMARY SQUAMOUS CELL CARCINOMA OF THE PANCREAS - Joshua d. Gruhl, MD, Samuel Francis, MD, Bryan Ager, MD, Stacey Scheck, MD, Randa Tao, MD, Ignacio Garrido-Laguna, MD, Shane Lloyd, MD, Huntsman Cancer Institute, University of Utah, Department of Radiation Oncology, Huntsman Cancer Institute, University of Utah, Salt Lake City, Utah

(P24) WITHDRAWN

(P25) CLINICAL CORRELATION OF RSI /GARD IN PENILE CANCER - Zhigang Yuan, G. Daniel Grass, Mounisaf Azizi, Kamran A. Ahmed, C. Sean Yoder, Eric A. Welsh, William J. Fulp, Jasreman Dhillon, Javier F. Torres-Roca, Anna R. Giuliano, Philippe E. Spiess, Peter A. Johnstone, Department of Radiation Oncology, H Lee Moffitt Cancer Center and Research Institute, Department of Genitourinary Oncology, H Lee Moffitt Cancer Center and Research Institute, Moffitt Genomics core, H Lee Moffitt Cancer Center and Research Institute, Department of Biostatistics and Bioinformatics, H Lee Moffitt Cancer Center and Research Institute, Department of Anatomic Pathology, H Lee Moffitt Cancer Center and Research Institute, Department of Cancer Epidemiology, H Lee Moffitt Cancer Center and Research Institute

(P26) WITHDRAWN

(P27) PROSPECTIVE PILOT TRIAL OF PROSTATIC SBRT BASED ON TARGETED-BIOPSY PATHOLOGIC CORRELATION WITH MULTI-PARAMETRIC MRI - Elisaha T. Fredman, MD, Michael Kharaouta, MD, Bryan Traughber, MD, Tarun Podder, PhD, Lee Ponsky, MD, Rodney Ellis, MD, Seidman Cancer Center, University Hospitals Cleveland Medical Center, Seidman Cancer Center, University Hospitals Cleveland Medical Center, Louis Stokes Cleveland VA Medical Center

(P28) RECTAL RADIATION DOSE COMPARISON BETWEEN DEFINITIVE RADIOTHERAPY WITH HYDROGELSpacer INJECTION VERSUS POST-PROSTATECTOMY RADIOTHERAPY FOR PROSTATE CANCER - Daniel X. Yang, MD, James B. Yu, MD, MPH, Yi An, MD, Preston C. Sprenkle, MD, Michael S. Leapman, MD, Henry S. Park, MD, MPH, Yale School of Medicine, S. M. S. Cancer Hospital at Yale New Haven Hospital / Yale School of Medicine / Yale University

(P29) WITHDRAWN

(P30) PROGNOSTIC SIGNIFICANCE OF P16 IN PATIENTS WITH CERVICAL CANCER RECEIVING DEFINITIVE CHEMORADIATION - Comron Hassanzadeh, MD, Amar Srivastava, MD, Stephanie Markovina, MD/PhD, Julie Schwarz, MD/PhD, Perry Grigsby, MD, Washington University in St. Louis

(P31) DOSIMETRIC EFFECTS OF THE SMIT SLEEVE ON HIGH DOSE RATE BRACHYTHERAPY PLANS FOR PATIENTS WITH LOCALLY ADVANCED CERVICAL CANCER - Shahil Mehta, BA, Benjamin Farnia, MD, Alberto de la Iztzila, PhD, Rababeh Rahmi, PhD, Aaron Wolfson, MD, Lorraine Portelance, MD, Department of Radiation Oncology, Sylvester Comprehensive Cancer Center/University of Miami Miller School of Medicine and Jackson Memorial Hospital

(P32) STEREOTACTIC BODY RADIATION THERAPY BOOST FOR ENDOMETRIAL CANCER: SAFETY, EFFICACY, AND QUALITY OF LIFE OUTCOMES - Shraddha M. Dalwadi, MD, MBA, Constantine Mantz, MD, Nabil Waheed, MD, Danny Tran, CMD, Mark Bonnen, MD, Michelle Ludvig, MD, PhD, MPH, Baylor College of Medicine, 21st Century Oncology, Inc., The CenterTexas, Remote Dosimetry Services

(P33) TREATMENT PACKAGE TIME IMPACTS LOCOREGIONAL CONTROL FOR HIGH RISK PI16+ OROPHARYNGEAL SQUAMOUS CELL CARCINOMA TREATED WITH TRANSORAL ROBOTIC SURGERY (TORS) AND POSTOPERATIVE RADIATION - Hann-Hsiang Chao, MD, Ph.D, Caitlin Schonewolf, MD, Erik Tan, BS, Alexander Lin, MD, Samuel Swisher-McClure, MD, Alirezeh Fathian Ghami, MD, Gregory Weinstein, MD, Bert O’Malley, MD, Ara Chalian, MD, Christopher Rassak, MD, Jason Newman, MD, Roger Cohen, MD, Joshua Baum, MD, Charu Aggarwal, MD, John Lukens, MD, University of Pennsylvania

(P34) SURGICAL EXCISION, MOHS MICROGRAPHIC SURGERY, EXTERNAL BEAM RADIOTHERAPY, OR BRACHYTHERAPY FOR INDOLENT SKIN CANCER: AN INTERNATIONAL META-ANALYSIS OF 58 STUDIES WITH 21,000 PATIENTS - Charles T. Lee, PharmD, MD, Eric J. Lehrer, MD, Abhishek Aphale, MD, Miriam N. Lango, MD, Thomas Galloway, MD, Nicholas G. zaorsky, MD, Fox Chase Cancer Center, Icahn School of Medicine at Mount Sinai, Penn State Cancer Institute

(P35) POPULATION BASED SCREENING USING TRAINED VOLUNTEERS IN DETECTION OF EARLY STAGE (STAGE I AND STAGE 2) ORAL CANCERS AND PRECANCERS - Daxton Johns, Zain Clinical Research Center

(P36) WITHDRAWN

(P37) MONITORING DYSGEUSIA IN PATIENTS FOLLOWING RADIATION THERAPY FOR HEAD AND NECK CANCER - Quinn Self, Sharon Li, MD, Havaahk Gagne, MD, University of Vermont, Department of Otolaryngology / University of Vermont Medical Center, Radiation Oncology / University of Vermont Medical Center

(P38) A PROSPECTIVE TRIAL EVALUATING PATIENT REPORTED OUTCOMES OF CUSTOMIZED ORAL STENTS FOR HEAD AND NECK (HN) RADIOTHERAPY (RT) USING 3D PRINTING AND TRADITIONAL METHODS - Mohamed Zaidi, MD, Nimit Bajaj, BSH, MPD, Ryan Mathew, BS, Caroline Chung, MD, Chris Wilke, MD, PhD, Clifton D. Fuller, MD, PhD, Michael R. Andersen, DDS, Brandon Gunn, MD, William Morrison, MD, Adam S. Garden, MD, Steven J. Frank, MD, David Rosenthal, MD, FASTRO, Otun O. Adegbenga, BSH, Mark S. Chambers, DMD, MS, Eugene Koay, MD, PhD, Department of Radiation Oncology, The University of Texas, MD Anderson Cancer Center, MD Anderson Cancer Center, Department of Radiation Oncology, University of Minnesota, Onc Dentistry Prosthodontics, The University of Texas, MD Anderson Cancer Center

(P39) A DOSIMETRIC COMPARISON OF ORAL CAVITY SPARING IN THE UNILATERAL TREATMENT OF EARLY STAGE TONSIL CANCER: IMRT, IMPT, AND TONGUE DEVIATING ORAL STENTS - Grant Stephen, MD, Tyler Williamson, CMD, Clifton D. Fuller, MD, PhD, David Rosenthal, MD, FASTRO, Steven J. Frank, MD, Adam S. Garden, MD, William Morrison, MD, Jack Phan, MD, Amy Liu, MSc, Richard Wu, MSc, Brandon Gunn, MD, MD Anderson Cancer Center, Department of Radiation Oncology, MD Anderson Cancer Center

(P40) CHRONIC GRANULATION TISSUE PREDICTS DEVELOPMENT OF SECOND PRIMARY TUMORS IN THE ORAL CAVITY - Eddie Zhang, MD, Tianyu Li, MS, Miriam N. Lango, MD, Douglas B. Flieder, MD, John A. Ridge, MD, PhD, Thomas Galloway, MD, Fox Chase Cancer Center

(P41) SURVIVAL IMPACT OF TIME TO INITIATION OF ADJUVANT RADIATION FOR MERKEL CELL CARCINOMA: AN ANALYSIS OF THE NATIONAL CANCER DATABASE - Mehran Yusuf, MD, Jeremy Gaskins, PhD, Paul Tennant, MD, Jeffrey Bumpous, MD, Neal Dunlap, MD, University of Louisville, Department of Bioinformatics and Biostatistics, University of Louisville, University of Louisville Hospital, Department of Otolaryngology, Ear, Nose and Throat, University of Louisville

(P42) ADAPTIVE TREATMENT PLANNING MAY REDUCE PAROTID GLAND ATROPHY IN PATIENTS RECEIVING HEAD AND NECK RADIATION THERAPY - Ryan Thibodeau, MPH, William Ennis, MD, Amanda Raymond, CMD, RRT, Margaret Formica, MSPh, PhD, Michael Lacombe, MD, Seung Hahn, MD, SUNY Upstate Medical University

(P43) CO-60 BASED STEREOTACTIC RADIOSURGERY EFFECTIVELY TREATS PERINEURAL SPREAD FROM CANCERS OF THE HEAD AND NECK - Ravichandran K. Ramakrishnan, MD, Mark Linkskey, MD, Jeffrey V. Kuo, MD, University of California, Irvine

(P44) PATTERNS OF CARE IN THE RADIOTHERAPEUTIC MANAGEMENT OF HEAD AND NECK CANCER OF UNKNOWN PRIMARY ORIGIN: IN SEARCH OF A STANDARD - Ryan Morse, BS, Rohit Ganju, MD, Allen Chen, MD, University of Kansas Cancer Center
(P45) RETROSPECTIVE ANALYSIS OF PATIENTS TREATED WITH RADIOSURGERY FOR 4 BRAIN METASTASES FROM ALK REARRANGED AND EGFR MUTATED NSCLC - Yan Wang, MD, PhD; Courtney L. Calbat, BS1, Daniel R. Gomez, MD1, Zhongxing Liao, MD1, Quynh-Nhu Nguyen, MD1, Nicholas D. Olivieri, MS1, Alexis B. Guzman, MBA1, James R. Incalcaterra, PhD1, MS1, Olis Gyashi, MD, PhD1, Shane Mesko, MD1, MBA1, Chidinma P. Anakwenze, MD, MPH1, Chad Tang, MD1, Steven J. Frank, MD1, Daniel R. Gomez, MD1, Zhongxing Liao, MD1, Quynh-Nhu Nguyen, MD1, Division of Radiation Oncology, University of Texas MD Anderson Cancer Center, 2Arizona Oncology, 3Quality Measurement and Eng, University of Texas MD Anderson Cancer Center, 4Clinical Revenue/Reimbursement, University of Texas MD Anderson Cancer Center, 5Financial Planning & Analysis, University of Texas MD Anderson Cancer Center, 6MD Anderson Cancer Center

(P46) EARLY OUTCOMES OF PATIENTS WITH LOCALLY ADVANCED NON-SMALL CELL LUNG CANCER TREATED WITH INTENSITY-MODULATED PROTON THERAPY VS. INTENSITY-MODULATED RADIATION THERAPY: A SINGLE-INSTITUTIONAL EXPERIENCE - Nathan Y. Yu, MD1, Todd A. DeWees, PhD2, Chenbin Liu, PhD2, Thomas B. Daniels, MD1, Matthew B. Ashman, MD, PhD1, Staci E. Beamer, MD3, Dawn E. Jaroszewski, MD1, Helen J. Ross, MD1, Harshita R. Paripati, MD1, Jean-Claude M. Wrigema, MD1, Julia X. Ding1, Jie Shan1, Wei Liu, PhD1, Steven E. Schild, MD1, Terence T. Sio, MD, MS1, Department of Radiation Oncology, Mayo Clinic, 1Department of Cardiothoracic Surgery, Mayo Clinic, 2Department of Hematology and Medical Oncology, University of Minnesota Neurosurgery, University of Minnesota MD Anderson Cancer Center, 3Department of Radiation Oncology, Mayo Clinic, 4Department of Radiation Oncology, University of Minnesota, 5Division of Radiation Oncology, University of Minnesota, 6MD Anderson Cancer Center

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(P48) OUTCOMES AND PATTERNS OF FAILURE FOR STAGE I NON-SMALL CELL LUNG CANCER IN A VETERAN POPULATION - Aryavarta Kumar, MD, PhD1, Charlene Kan, MD, PhD1, Bryant Traughber, MD2, Louis Stokes Cleveland VA, 1Department of Radiation Oncology, University Hospitals Cleveland Medical Center, Louis Stokes Cleveland VA Medical Center

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(P50) NATIONWIDE PATTERNS IN HOSPITAL ADMISSIONS FOR BONE METASTASES AND ASSOCIATED PATHOLOGIC FRACTURES - Victor Lee, BS1, Vikram Jairam, MD1, James B. Yu, MD, MHS1, Henry S. Park, MD, MPH1, 1Yale School of Medicine, 2Smilow Cancer Hospital at Yale New Haven Hospital / Yale School of Medicine / Yale University

(P51) TUMOR CAVITY SHAPE CHARACTERISTICS DO NOT PREDICT LOCAL CONTROL IN PATIENTS WITH RESECTED BRAIN METASTASES RECEIVING ADJUVANT SRS - Kellen L. Mulford1, Chuyu Chen1, Kathryn Dusenbery, MD1, Jianling Yuan, MD/PhD1, Matthew Hunt, MD1, Clark Chen, MD/PhD1, Paul Sperduto, MD/MPP2, Yoichi Watanabe, PhD2, Christopher Wilke, MD/PhD1, 1Department of Radiation Oncology, University of Minnesota, 2Department of Neurosurgery, University of Minnesota

(P52) OUTCOMES OF SINGLE FRACTION CONVENTIONAL RADIATION THERAPY FOR PALLIATION OF PAINFUL VERTEBRAL METASTASES - Sihan S. Noticewala, MD, MAS1, Daniel R. Gomez, MD, PhD1, Chad Tang, MD1, Laurence D. Rhines, MD1, Giacinto T. Tsutsui, MD1, Sarah Todd, PA-C1, Meaghan Gomez, ANP-BC1, Albert C. Koong, MD1, 1Department of Radiation Oncology, University of Texas MD Anderson Cancer Center, 2Department of Radiation Oncology, University of Texas MD Anderson Cancer Center, 3Department of Hematology and Medical Oncology, University of Minnesota Neurosurgery, University of Minnesota MD Anderson Cancer Center

(P53) MELANOMA METASTATIC TO BRAIN AND SUBSEQUENT BLEEDS: THE ROLES OF BRAF STATUS AND WHOLE BRAIN RADIOTHERAPY - Dylan Parker1, University of South Florida College of Medicine

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(P55) RADIATION ONCOLOGY PARTICIPATION IN THE CENTERS FOR MEDICARE AND MEDICAID SERVICES’ HOSPITAL COMPARE OUTPATIENT QUALITY MEASURES: QUANTIFYING QUALITY AND EFFECTIVENESS ON A NATIONAL SCALE - Khang T. Dinh, MD, MS1, Lia Halasz, MD1, Christoph Lee, MD, MPH2, 1University of Washington, 2Department of Radiology, University of Washington

(P56) COMPARING PROVIDER COSTS OF DIFFERENT PALLIATIVE FRACTIONATED REGIMENS FOR BONE METASTASES USING TIME-DRIVEN ACTIVITY-BASED COSTING - David Joyce-Fappiano, MD1, Matthew S. Ning, MD1, Nikhil Thaker, MD1, Todd A. Pezzi, MD1, Nicholas D. Olivieri, MS1, Alexis B. Guzman, MBA1, James R. Incalcaterra, PhD1, MS1, Olis Gyashi, MD, PhD1, Shane Mesko, MD1, MBA1, Chidinma P. Anakwenze, MD, MPH1, Chad Tang, MD1, Steven J. Frank, MD1, Daniel R. Gomez, MD1, Zhongxing Liao, MD1, Quynh-Nhu Nguyen, MD1, Division of Radiation Oncology, University of Texas MD Anderson Cancer Center, 2Arizona Oncology, 3Quality Measurement and Eng, University of Texas MD Anderson Cancer Center, 4Clinical Revenue/Reimbursement, University of Texas MD Anderson Cancer Center, 5Financial Planning & Analysis, University of Texas MD Anderson Cancer Center, 6MD Anderson Cancer Center

(P57) THE RELATIONSHIP BETWEEN PRE-RESIDENCY PEER-REVIEWED PUBLICATIONS AND SUBSEQUENT CITATION-BASED SCHOLARLY ACTIVITY OF UNITED STATES RADIATION ONCOLOGY RESIDENTS AND SUBSEQUENT CHOICE OF ACADEMIC VERSUS PRIVATE PRACTICE CAREER - Shearwood McClelland III, MD1, Timur Mitin, MD, PhD1, Nima Nabavizadeh, MD1, Clifton D. Fuller, MD, PhD1, Charles R. Thomas, Jr., MD1, Jerry J. Jaboin, MD, PhD1, 1Department of Radiation Oncology, Indiana University School of Medicine, 2Department of Radiation Oncology, Mayo Clinic, 3Department of Radiation Oncology, University of Texas MD Anderson Cancer Center

(P58) USE OF THE G-INDEX FOR ASSESSMENT OF CITATION-BASED SCHOLARLY ACTIVITY OF UNITED STATES RADIATION ONCOLOGY RESIDENTS AND SUBSEQUENT CHOICE OF ACADEMIC VERSUS PRIVATE PRACTICE CAREER - Shearwood McClelland III, MD1, Timur Mitin, MD, PhD1, Nima Nabavizadeh, MD1, Clifton D. Fuller, MD, PhD1, Charles R. Thomas, Jr., MD1, Jerry J. Jaboin, MD, PhD1, 1Department of Radiation Oncology, Indiana University School of Medicine, 2Department of Radiation Oncology, Mayo Clinic, 3Department of Radiation Oncology, University of Texas MD Anderson Cancer Center, 4Clinical Revenue/Reimbursement, University of Texas MD Anderson Cancer Center

(P59) MISSION TO MARS: RADIATION SAFETY OR RADIATION DISASTER? SPACE TRANSIT AND MARS RADIATION EXPOSURE RISKS - THE SHIELDING EFFECT OF A GRAPHENE SPACE SUIT AND A STORM SHELTER DURING SPACE TRAVEL - Tim Squire, MBBS, Ba App Sci. (MRS); Grad Dip Hlth Sci Med Sono1, Grant Buchman, MD, PhD1, Hany Eisaieh, MBBS, PhD, FRANZCR1, 1The Canberra Hospital; University of Notre Dame Australia, 2The Canberra Hospital; Australia National University, 3Radiation Oncology / The Canberra Hospital

(P60) THE PREVALENCE AND IMPACT OF WORK-RELATED MUSCULOSKELETAL INJURY AMONG RADIATION THERAPISTS - Alexander N. Hanania, MD, MPH1, Aubrey Cook1, Michelle Ludwig, MD, MPH, MPH1, Baylor College of Medicine, 1Auburn University

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(P62) CURRENT AND HISTORICAL REPRESENTATION TRENDS OF BLACK PHYSICIANS IN THE US RADIATION ONCOLOGY (RO) WORKFORCE - Ian K. Cruickshank, Jr., BS RT(ARD)1, Awad Ahmed, MD2, Charles R. Thomas, Jr., MD1, Curtland Deville, Jr., MD1, 1Sibley Memorial Hospital (Johns Hopkins Medicine), 2Department of Radiation Oncology, University of Miami Miller School of Medicine/Sylvester Comprehensive Cancer Center and Jackson Memorial Hospital, 3Department of Radiation Medicine, Oregon Health and Science University, 4Radiation Oncology, Johns Hopkins University

(P63) THE DECLINE IN BRACHYTHERAPY USE FOR DEFINITIVE CANCER THERAPY - Eric J. Lehrer, MD1, Charles T. Lee, PharmD, MD2, 1Johns Hopkins University, 2Johns Hopkins University, 3Department of Radiation Oncology, University of Texas MD Anderson Cancer Center, 4Clinical Revenue/Reimbursement, University of Texas MD Anderson Cancer Center

(P64) UTILIZING ARTIFICIAL INTELLIGENCE TO INCREASE MULTI-INSTITUTIONAL ACCESS TO CLINICAL TRIALS - Vincent Bernard, PhD1, Maureen Aliru, BS1, Shalini Moningi, MD1, Sweet Ping Ng, MBBS, FRANZCR1, Sergio Garza1, Amy R Snelman1, Zhongxing Liao1, MD1, Michael L. Vanalstine1, Joseph Herman, MD1, MBA1, MD Anderson Cancer Center, 2Department of Radiation Oncology, MD Anderson Cancer Center

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(P55) THE PERVERSIVE CRISIS OF DIMINISHING RADIOTHERAPY ACCESS FOR APPALACHIAN PATIENTS IN THE UNITED STATES - Shearwood McClelland III, MD, Tasneem Kaleem, MD1; Mark E. Bernard, MD1; Hiba Z. Ahmed, MD2; Terence T. Sio, MD, MS2; Robert C. Miller, MD, MBA2; 1Department of Radiation Oncology, Indiana University School of Medicine, 2Department of Radiation Oncology, Mayo Clinic, 3Department of Radiation Oncology, University of Kentucky, 4Department of Radiation Oncology, Emory University

(P66) EXCEPTIONAL RESPONDERS IN ONCOLOGY: AN INTERNATIONAL SYSTEMATIC REVIEW AND META-ANALYSIS OF PATIENT LEVEL DATA - Mackenzie Cummings, BS; Eric J. Lehrer, MD; Joseph Drabick, MD, FACP; Niraj Gusani, MD, FACP; Daniel M. Trifiletti, MD1; Nicholas Zazorsky, MD1; 1Penn State Cancer Institute, Hershey, PA; 2Icahn School of Medicine at Mount Sinai, 3Penn State Cancer Institute, Hershey, PA; 4Penn State Hershey Surgical Specialties, 5Mayo Clinic

(P67) REDDIT AND RADIATION THERAPY: A DESCRIPTIVE ANALYSIS OF POSTS AND COMMENTS OVER SEVEN YEARS BY PATIENTS AND HEALTHCARE PROFESSIONALS - Joel Thomas, BA; Arpan Prabhu, MD1; Dwight Heron, MD, MBA, FACRO, FACR1; Sushil Berwali, MD1; 1University of Pittsburgh School of Medicine, Pittsburgh, PA USA

(P68) MERKEL CELL CARCINOMA: SINGLE INSTITUTION OUTCOMES WITH ADJUVANT RADIATION THERAPY - Praveen Pendyala, MD; John Byun, MD, Sharad Goyal, MD MS, James Goydos, MD FACS, Ann W. Silk, MD, Vadim Koshenkov, MD, Joseph P. Weiner, MD; Rutgers Cancer Institute of New Jersey

(P69) IMPACT OF RADIOTHERAPY AND STEREOTACTIC RADIOSURGERY ON SURVIVAL FOR CHILDREN AND ADOLESCENTS: A RETROSPECTIVE POPULATION-BASED STUDY - Amadeep R. Mahal1; James B. Yu, MD, MHS2; 1Yale New Haven Hospital / Yale School of Medicine / Yale University, 2Smilow Cancer Hospital at Yale New Haven Hospital / Yale School of Medicine / Yale University

(P70) HYPOFRACTIONATED RADIOTHERAPY ALONE FOR PALLIATION OF SARCOMA: A SINGLE INSTITUTION RETROSPECTIVE REVIEW - Shane A. Lloyd, MD, PhD; Steve Braunstein, MD, PhD; 1University of California, San Francisco

(P71) MASS TRANSPORT MODEL OF RADIATION RESPONSE: CALIBRATION AND APPLICATION TO CHEMORADIOGRAPHY OF PANCREATIC CANCER - Charles Wang, PhD; Dalia Elgainay, MD; Mohamed Zaid, MD1; Joseph Butner, PhD; Vittorio Cristina, PhD; Eugene Koay, MD, PhD2; 1MD Anderson Cancer Center, 2Radiation Oncology Department, The University of Texas, 3MD Anderson Cancer Center

(P72) OVERALL SURVIVAL PREDICTION IN GLIOBLASTOMA USING CLINICAL FACTORS COMBINED WITH TEXTURE FEATURES EXTRACTED FROM 3D CONVOLUTIONAL NEURAL NETWORKS - Joon K. Lee, MD; Weiwei Zong, PhD2; Zhenzhen Dai, MS2; Chang Liu, PhD3; James Snyder, MD, PhD; Ning Wen, PhD1; 1Radiation Oncology Department, Henry Ford Health System, 2Henry Ford Hospital, 3Henry Ford Health System

(P73) IMPROVED BOWEL-DOSE SPARING WITH THE USE OF OMENTOTEXE DYNE CYBERKNIFE RADIOTHERAPY FOR RECURRENT ENDOMETRIAL CANCER - Sana Sinnah1; James Doty, MD2; Sean Toner, MS, DABMP1; Golden Gate Medical Physics, 2Stanford University Department of Neurosurgery

(P74) INCIDENCE OF RADIATION NECROSIS IN BRAIN METASTASIS PATIENTS TREATED WITH STEREOTACTIC RADIOSURGERY AND IMMUNOTHERAPY - Chase Glenn, BS1; Ryan Hughes, MD1; Claire Lanier, BS1; Ammoneen Dohm, BS1; Jimmy Ruiz, MD1; Pierre Triozzi, MD1; Christina Cramer, MD1; Stephen Tatter, MD, PhD1; Adrian Laxton, MD1; Fei Xing, PhD2; Hui-Wen Lo, PhD2; Jing Su, PhD2; Konosuke Watabe, PhD2; Ge Wang, PhD2; Michael Chan, MD; 1Wake Forest School of Medicine, 2Wake Forest School of Medicine Department of Radiation Oncology, 3Wake Forest School of Medicine Department of Radiation Oncology, 4Wake Forest School of Medicine Department of Hematology and Oncology, 5Wake Forest School of Medicine Department of Neurosurgery, 6Wake Forest School of Medicine Department of Cancer Biology, 7Wake Forest School of Medicine Division of Public Health Sciences, 8Virginia Tech-Wake Forest School of Biomedical Engineering and Sciences

(P75) A PILOT STUDY OF NICOTINE METABOLITES TO VERIFY ACTIVE SMOKING STATUS IN HEAD AND NECK CANCER PATIENTS UNDERGOING CURATIVE-INTENT RADIATION THERAPY - Jason W. Chan, MD1; Ann Lazar, PhD2; Susan Wu, MD, Erin Shugard, MS2; Neal Benowitz, MD1; Sue S. Yom, MD, PhD, MAS; 1University of California San Francisco, 2Kaiser Permanente

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(P77) DATA ANALYTICS PLATFORM FOR OUTCOME COMPARISON OF PATIENTS TREATED FOR PRIMARY PANCREATIC CANCER USING SBRT VS CONVENTIONAL RT - Maureen Aliru, BS1; Vincent Bernard, PhD2; Sweet Ping Ng, MBBS, FRANZCR1; Shalini Monnig, RD1; 1MD Anderson Cancer Center, 2David Lindsay1; Chris Berlind1; Chris Ahern1; Angela Holmes1; Timothy Edwards1; Benjamin Smith, MD, Cullen Taniguchi, MD, PhD1; Eugene Koay, MD, PhD3; Prajnan Das, MD, EMma Holliday, MD, Joseph Herman, MD; 1MD Anderson Cancer Center, 2Oncora Medical, 3Division of Radiation Oncology, University of Texas MD Anderson Cancer Center

(P78) TREATMENT-RELATED COMPLICATIONS OF CHEMOTHERAPY AND RADIOTHERAPY: AN ANALYSIS OF THE NATIONWIDE EMERGENCY DEPARTMENT SAMPLE - Vikram Jairam, MD; Victor Lee, BS1; Henry S. Park, MD, MPH1; Charles R. Thomas, Jr., MD1; Edward R. Melnick, MD, MHS1; Cary P. Gross, MD1; Carolyn J. Presley, MD, MHS1; Kerin B. Adelson, MD1; James B. Yu, MD, MHS1; 1Yale School of Medicine, 2Department of Radiation Medicine, Oregon Health and Science University University, 3The Ohio State University Comprehensive Cancer Center, 4Smilow Cancer Hospital / Yale School of Medicine, 5Smilow Cancer Hospital at Yale New Haven Hospital / Yale School of Medicine / Yale University

(P79) PATIENT REPORTED OUTCOMES REGARDING RADIATION THERAPY IN PATIENTS WITH MULTIPLE MYELOMA - Ronica H. Nanda, MD, David Boulware, Rachid Baz, MD, Diane Portman, H. Michael Yu, MD, Heather Jim, PhD, Peter Johnstone, MD, FACR, FASTRO; Moffitt Cancer Cancer

(P80) BREAST AND PROSTATE CANCER SCREENING DISPARITIES AND MORTALITY RATES IN NEVADA AS COMPARED TO CALIFORNIA AND THE UNITED STATES - Parvesh Kuman; Chad Cross1; Sheniz Moonie2; 1University of Nevada Las Vegas School of Medicine, 2University of Nevada Las Vegas

(P81) INCIDENCE OF URINARY TRACT INFECTION IN PROSTATE CANCER PATIENTS AFTER RADIOTHERAPY PLANNING SIMULATION - Tasneem Kaleem, MD, Katherine Tzou, MD, Michelle Fozman, RRT1; Steven Buskirk, MD; 1Department of Radiation Oncology, Mayo Clinic, 2Mayo Clinic

(P82) DISPARITIES IN COLORECTAL CANCER SCREENING PREVALENCE AND MORTALITY RATES IN NEVADA: A POPULATION HEALTH ANALYSIS OF BEHAVIORAL RISK - Parvesh Kuman1; Chad Cross1; Karen Callahan1; Sheniz Moonie1; 1University of Nevada Las Vegas School of Medicine, 2University of Nevada Las Vegas
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