



UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE



UNIVERSITY of MARYLAND
RADIATION ONCOLOGY

Department of Radiation Oncology

Schedule of Presentations and Activities



2019 Annual Meeting
September 15–18
McCormick Place West
Chicago, Illinois

Sunday, September 15 Presentations

1:15–2:30 PM Room W176
MO 01 Digital Health/ Informatics I
Miller RC, moderator

1:15–2:30 PM ASTRO Innovation Hub
Short-term outcomes of re-irradiation to the chest wall using intensity-modulated proton therapy (IMPT) in women with breast cancer
Nichols EM, Kowalski E, Remick J, Mishra M
Poster 2011

1:15–2:30 PM ASTRO Innovation Hub
Concurrent external thermal therapy and pencil beam scanning proton therapy or photon/electron therapy for recurrent breast cancer: Early outcomes and toxicity
Samanta S, Rice SR, Siddiqui O, DeCesaris C, Kowalski E, Rodrigues D, Molitoris J, Vujaskovic Z, Snider JW III, Nichols EM
Poster 2102

1:15–2:30 PM ASTRO Innovation Hub
Cardiac monitoring for thoracic radiotherapy: Survey of practice patterns in the United States
Amin NP, Desai N, **Mohindra P, Snider JW III**, Simone CB II, **Agarwal M, Nichols EM**, Bergom C, Amin NP
Poster 3114

1:15–2:30 PM ASTRO Innovation Hub
Incidental coronary artery calcium on radiation simulation scans identifies patients for preventive therapy
Amin NP, **Romar L**, Shipman K, Zhou J, **Lasio G**, Levy K, Amin NP
Poster 2087

Other Events During ASTRO 2019

Sunday, September 15, 6:30–9:30 PM
University of Maryland Department of Radiation Oncology Alumni and Friends Event
Cibo Matto Restaurant at the Wit Hotel

Monday, September 16, 9:15–10:14 AM
Keynote Address I: Artificial Intelligence and Deep Learning in Medicine
Sucha Saria, PhD

Tuesday, September 17, 9:15–10:15 AM
Keynote Address II: Global Health in Oncology
Vanessa Kerry, MD, MSC

Monday, September 16 Presentations

8:00–9:00 AM Room W185

Combining virtual bronchoscopy with 4DCT-based ventilation mapping to preserve serial- and parallel-functioning lung elements in lung SAbR

Vicente EM, Modiri A, Kipritidis J, Hagan A, Yu K-C, Wibow H, Yan Y, Timmerman R, **Sawant A**
Oral 54

8:00–9:30 AM Room W178

Prospective phase II randomized trial comparing proton therapy vs. IMRT for newly diagnosed GBM: Secondary analysis comparison of progression free survival between clinical radiological assessment vs. response assessment in neuro-oncology (RANO)

Al Feghali K, Randall J, Wefel J,**McAvoy S**, et al.
Mini-oral 1052

10:45 AM–12:00 PM ASTRO Innovation Hub

Somatostatin receptor PET imaging is a tool for radiation planning and evaluating treatment response in meningiomas

Kowalski E, Khairnar R, **Kouralakis A, Mishra M**
Poster 2148

10:45 AM–12:00 PM ASTRO Innovation Hub

Immune checkpoint inhibition and the risk of radionecrosis in patients treated with SRS for brain metastases

Kowalski E, Remick J, Khairnar R, Morse E, **Poirier Y, Lamichhane N, Becker S, Chen S, Mishra M**
Poster 2253

10:45 AM–12:00 PM ASTRO Innovation Hub

A comparison of single-fraction versus multiple-fraction stereotactic radiosurgery in the treatment of brain metastasis: A multicenter analysis

Remick J, Kowalski E, Khairnar R, Morse E, Khairnar E, **Poirier Y, Lamichhane N, Becker S, Chen S, Patel A, Nichols EM, Mohindra P, Kwok Y, Mishra M**
Poster 2196

10:45 AM–12:00 PM ASTRO Innovation Hub

Clinical outcomes in patients with recurrent glioblastoma treated with proton beam therapy reirradiation: Analysis of the multi-institutional Proton Collaborative Group Registry

Saaed A, Khairnar R, Sharma AM, Larson GL, Gondi V, Tsai HK, Wang CJ, Laramore GE, Stevens CW, Vargas CE, **Mishra M**
Poster 2241

4:00–5:00 PM Editor Roundtable

Data discoverability for reproducible science: The good, the bad and the ugly
Miller RC, Jackson IL, moderators

Monday, September 16, Presentations (Cont.)

4:15–5:30 PM Room W187

EDU 08 (Interactive) Practical Big Data Workshops – Key Recommendations and Findings for Bringing Big Data into Clinical Practice

Miller RC, moderator

4:15–5:30 PM Room W179

Is underdosing the target a risk worth taking? Outcome risk modeling in lymphoma radiotherapy?

Modiri A, Rechner LA, Stick LB, Maraldo MV, Rice S, **Sawant A**, **Bentzen SM**, Vogelius IR, Specht L
Mini-oral 1125

Tuesday, September 17 Presentations

8:00–9:00 AM Late-breaking Room W375e

Mahmood J, Strauss J, Dominic L, **Vujaskovic Z**

RhoA/ROCK pathway inhibitor ameliorates radiation-induced erectile dysfunction in rats

Late-breaking abstract LBA7

11:45 AM–12:45 PM Editor Roundtable

Miller RC

1:00–2:15 PM W175

Identifying the most costly patients in radiation oncology and predicting the “top spenders”

Waddle M, Kaleem T, Stross W, Malouff T, White L, Li Z, Naessens J, Spaulding A, Aljabri D, Ma D, Keole S, **Miller RC**

Mini-oral 1139

1:00–2:15 PM ASTRO Innovation Hub

Intra-fraction motion analysis for frameless linac-based stereotactic radiosurgery with three-dimension (3D) optical surface imaging for intra-fractional motion management

Chen S, Agyepong B, **Poirier Y**, **Lamichhane N**, **Becker S**, **Zhang B**, Gopal A, **Yi BY**, **Mohindra P**, **Nichols EM**, **Molitoris J**, **Mishra MV**

Poster 3772

1:00–2:15 PM ASTRO Innovation Hub

Image-guided biologically adaptive therapy for head and neck cancer

Guerrero M, Carlson DJ

Poster 3850

1:00–2:15 PM ASTRO Innovation Hub

Simulation of an HDR prostate boost with stereotactic intensity modulated proton versus photon radiation therapy: A dosimetric comparison study

Remick JS, **Sabouri P**, **Zhu M**, **Kwok Y**, **Bentzen S**, **Kaiser A**

Poster 3801

Tuesday, September 17 Presentations (Cont.)

1:00–2:15 PM ASTRO Innovation Hub

Patient prioritization for proton beam therapy in a cost-neutral payer environment: use of a clinical benefit score for resource allocation

Sharma AM, Khairnar R, **Kowalski E, Remick J, Nichols EM, Mohindra P, Yock T, Regine WF, Mishra M**

Poster 3010

2:30-3:30 PM Editor Roundtable

Gender and diversity in academic research and publishing: Mentoring the next generation

Jackson IL

2:45–4:00 PM ASTRO Innovation Hub

Assessing outcomes of patients treated with re-irradiation utilizing proton pencil-beam scanning for primary or recurrent malignancies of the esophagus and gastroesophageal junction

DeCesaris C, McCarroll R, Regine WF, Simone CB, Choi JI, Molitoris J

Poster 2417

2:45–4:00 PM ASTRO Innovation Hub

Evaluation of a novel absorbable radiopaque hydrogel in patients undergoing image-guided radiotherapy (IGRT) for borderline resectable and locally advanced pancreatic adenocarcinoma

Rao A

Poster 2557

2:45–4:00 PM Room W187

Panel 14 (Interactive) Improving the clinical treatment of vulnerable populations in radiation oncology: Latinx, African-American, Native American, and gender/sexual minority communities

Miller RC, moderator

2:45–4:00 PM ASTRO Innovation Hub

Reirradiation for rectal cancer: A single-institution experience utilizing photons and protons

Koroulakis A, Molitoris J, Kaiser A, Hanna N, Jiang Y, Regine WF

Poster 2380

4:45–6:00 PM Room W176

MO 16 Hepatopancreaticobiliary Cancers

Molitoris J, moderator

Mini-oral

5:00–5:15 PM Room W190

EDU 19 (Interactive) Methodologic pitfalls in determining radiation dose constraints in pediatric organs and the path forward

Bentzen S

Wednesday, September 18 Presentations

1:15–2:30 PM W175

Deep locoregional thermal therapy concurrent with pencil beam scanning proton therapy: Initial report of safety and feasibility

Molitoris J, Rodrigues D, Snider JW III, Sharma A, Mossahebi S, Zakhary M, Lehman K, Vujaskovic Z

Oral 1276

1:15–2:30 PM W175

Spatially fractionated GRID radiotherapy (SFGRT) in conjunction with standard neoadjuvant radiotherapy for very high-risk soft tissue and osteosarcomas: Promising pathologic response with safe dose-escalation

Snider JW III, Molitoris J, Shyu S, Rice SR, Kowalski E, DeCesaris C, Remick J, Francis ME, Campbell L, Hanna N, Ng V, Miller K, Heath JE, Ioffe O, Regine WF

Mini-oral 1267

1:15–2:30 PM W175

Concurrent superficial thermal therapy and pencil beam scanning proton therapy: Initial clinical experience and safety profile

Snider JW III, Molitoris J, Rice SR, DeCesaris C, Kowalski E, Siddiqui O, Samanta S, Rodrigues D, Sharma AM, Smith V, Guerrero M, Chen S, Vujaskovic Z

Mini-oral 1275

2:45–4:00 PM Room 1176

First clinical experience of gated voluntary breath-hold intensity modulated proton therapy for thoracic malignancies

Mohindra P, Mossahebi S, Moreau JM, Buttion M, Molitoris J, Eblan MJ Jr, Kaiser A, Langen KM, Simone CB II

Mini-oral 1297