



David Geffen
School of Medicine

UCLA Health

Department of Radiation Oncology

Schedule of Presentations

American Society for Radiation Oncology

61st Annual Meeting



September 15– 18, 2019

McCormick Place West
Chicago, IL

UCLA Health www.uclahealth.org/radonc
Radiation Oncology

Saturday, September 14, 2019

10:00 AM - 5:00 PM **Room W183**
ARRO Annual Seminar
3:30 - 4:30 **The Radiation Oncology Workforce: A Panel Discussion**
Michael Steinberg, MD, FASTRO*

Sunday, September 15, 2019

10:15 - 11:45 AM **Room W186**
Presidential Symposium II - EL09 - RT is Becoming the Standard for Curing Oligometastatic Lung Cancer
10:25 - 10:35 **Oligometastatic NSCLC is an Intermediate State of Metastatic Potential that will Benefit from Local Radical Treatment**
Percy Lee, MD*

10:15 - 11:45 AM **Room W375e**
Presidential Symposium II - EL11- RT for Oligometastatic Prostate Cancer Will Replace Systemic Therapy
10:25 - 10:35 **What Is the Prospective Evidence for Metastasis-Directed Radiotherapy for Oligometastatic Prostate Cancer?**
Amar Kishan, MD*

1:15 - 2:30 PM **ASTRO Innovation Hub**
PV 01 - Poster Viewing Q&A Session 1
SU_20_3122 **Improved Lung Sparing by Limiting Jaw Opening During Volumetric Modulated Arc Therapy for Mesothelioma Involving All Ipsilateral Pleural Surfaces**
Lee SPH*, Zhang J, Leu M, Lien WW, Inouye W
SU_43_3687 **From Multimodality to Monomodality: Head and Neck MR-CT Registration with Synthetic Image Bridge**
McKenzie E*, Santhanam A, O'Connor D, Cao M, Ruan D, Sheng K
SU_46_3714 **A Fast Patient Alignment Tool Using MV-Topograms with Helical TomoTherapy**
Qi X*, Zhang Z, O'Connell D, Chin RK, Kishan AU, Beron PJ, Steinberg ML, Low D

4:45 - 5:45 PM **Room W193**
ARRO MTP **Meet The Professor Reception**
Percy Lee, MD*

Monday, September 16, 2019

8:00 - 9:00 AM **Room W185**
SS 09 - Physics 2-Online Imaging and Motion Management
Dan Ruan, PhD (Moderator)

10:45 - 12:00 PM **Room W183**
SS 13 - GU 2 -Prostate Post-op, Prognostic Factors and High Risk
11:15 - 11:25 **MicroRNA-based Biomarkers Predicting Long-Term Toxicity to Prostate SBRT**
Kishan AU, Ruan D, Dang AT, Chu FI, Steinberg ML, Weidhaas JB*
11:25 - 11:35 **Radical Prostatectomy, External Beam Radiotherapy, or External Beam Radiotherapy With Brachytherapy Boost: Comparison of Outcomes in A Multi Institutional Analysis of 4,086 Patients with High-Risk Prostate Cancer**
Kishan AU*, Wong JK, Romero T, Grogan T, Tendulkar RD, Reddy CA, Dess RT, Levin-Epstein R, Wedde T, Lilleby W, Merrick GS, Stock RG, Krauss DJ, Tran PT, DeWeese TL, Demanes DJJ, Steinberg ML, King CR, Elashoff DA, Horwitz EM

Monday, September 16, 2019 - continued

10:45 - 12:00 PM **Room W185**
SS 12 - Lung 2 - Novel Immunotherapy/Radiation Approaches to NSCLC and PCI for SCLC
Percy Lee, MD (Moderator)

10:45 AM - 12:15 PM **ASTRO Innovation Hub**
PV 02 - Poster Viewing Q&A Session 2
MO_5_2189

Time-Driven Activity Based Costing Comparison of Stereotactic Radiosurgery to Multiple Brain Lesions Utilizing Single Isocenter Vs. Multiple Isocenter Technique
Parikh NR*, Kundu P, Levin-Epstein R, Agazaryan N, Steinberg ML, Tenn SE, Kaprealian TB
MO_18_2312 **Making Adaptation Decisions By Combining Deep Learning and Ontology**
Ruan D*, Min Y, Tyrann M, Cao M, Lee P, Steinberg ML

MO_18_2314 **Racial Disparity in the Genomic Basis of Radiosensitivity - An Exploration of Whole Transcriptome Sequencing Data via a Machine Learning Approach**
van Dams R*, Kishan AU, Nickols NG, Raldow A, King CR, Chang AJ, Kupelian PA, Steinberg ML, Wang C
MO_19_2318 **A Radiomic Classifier of Locoregional Failure after Definitive Radiation in Head and Neck Squamous Cell Carcinoma**
Yuan Y*, Zhang Z, Pan X, Qi X, Chin RK

MO_22_2857 **Integrating Exclusive Liquid Meal Replacement Supplementation to Reduce Gastrostomy Tube Rates in Patients with Head and Neck Cancer Undergoing Chemoradiation: Preliminary Results of a Phase II Study**
Hegde JV*, Raldow A, Ramirez V, Ikemoto K, Childers JW, Beron PJ, Kishan AU, Wong DJ, Steinberg ML, Chin RK

MO_40_3412 **Radiation Oncology Learning Environment and Near Miss Events**
Kundu P*, Jung OS, Beron PJ, Agazaryan N, Rose K, Khaothiemsang C, Edmondson A, Steinberg ML, Raldow A
MO_40_3413 **Attending and Resident Physician Engagement of the Radiation Oncology Incident Learning System (RO-ILS)**
Kundu P*, Beron PJ, Chu FI, Agazaryan N, Steinberg ML, Raldow A

MO_47_3880 **Dermatofibrosarcoma Protuberans: Prognosis and Epidemiology Analysis of the Surveillance, Epidemiology, and End Results Database from 1973-2014**
Dang AT*, Dang Jr PDD

4:15 - 5:30 PM **Room W176**
MO 09 - Biology 3 - Innovative Approaches to Improve Therapeutic Response
5:00 - 5:05

Irradiation Reprograms GBM Metabolism Towards an Antioxidant Profile That Drives Radiation Resistance
Bailleul J, Yazal T, Sung D, Dao A, Palomera D, Sehgal A, Vlashi E*

4:15 - 5:30 PM **Room W179**
MO 10 - Physics 4 - Outcome Analysis and Modeling
4:15 - 4:20

Use of Deep Learning-based Radiomic Features from Preoperative Multimodal MRI in Assisting Survival Prediction for Glioblastoma Multiforme Patients
Fu J*, Singhrao K, Yang Y, Ruan D, Lewis J

4:30 - 4:35 **Assessment of Dosimetric Associations with Patient-Reported Toxicities Using Machine Learning Methods**
Pan X, Huang J, Qi X*

Monday, September 16, 2019 - continued

4:15 - 5:30 PM **Room W185**
SS 15 - Lung 3- Locally Advanced Non Small Cell Lung Cancer
4:35 - 4:45 Accelerated Hypofractionated CRT Followed by SABR Boost (HyCRT-SABR) for Locally Advanced Unresectable NSCLC: A Prospective Phase II Radiation Dose-Escalation Study
 Lee P*, Luterstein E, Goldman J, Garon E, Lee JM, Felix C, Cao M, Tenn SE, Low D, Kupelian PA, Steinberg ML

UCLA Radiation Oncology Annual Alumni and Friends Reception at ASTRO



6:00pm - 9:00pm
 The Fatpour Tap Works - 2nd Floor
 2206 S. Indiana Ave, Chicago, IL 60616

Tuesday, September 17, 2019

8:00 - 9:00 AM **Room W176**
SS 19 - GU 3- Prostate SBRT and Brachytherapy
 Amar Kishan, MD (Moderator)

10:15 - 11:30 AM **Room W375 a/b/c/d**
Awards Ceremony
ASTRO Fellow Recipient
 Daniel Low, PhD

1:00 - 2:15 PM **ASTRO Innovation Hub**
PV 03 - Poster Viewing Q&A Session 3
TU_12_3069 Characterizing Social Media Influencers in Radiation Oncology
 Valle L*, Chu FI, Smith MA, Lee P, Raldow A

TU_20_3374 The Patient's Perspective on Chemoradiation for Anal Cancer: Evaluation of Expectations and Stigma
 Chang EM*, Shaverdian N, Lee P, Beron PJ, Raldow A

TU_2_2340 Preliminary Evaluation of Modified Team Based Learning within a Novel Integrated Radiation Oncology Didactic Series
 Kundu P*, Chang EM, Wang C, Jiang N, Parikh NR, Levin Epstein R, Tenn SE, Cao M, Steinberg ML, Raldow A, Lee P

- TU_1_2331 Assessment of the Impact of an Interprofessional Curriculum on Radiation Therapy Knowledge in Radiation Oncology Nursing Staff
 Chang EM*, Chin W, Levin-Epstein R, Parikh NR, van Dams R, Yuan Y, Cao M, Kishan AU, Steinberg ML, Venkat PS, Shaverdian N

TU_20_3375 The Patient's Perspective on Radiation for Rectal Cancer: Initial Expectations Versus Actual Experience
 Chang EM*, Shaverdian N, Lee P, King CR, Beron PJ, Steinberg ML, Raldow A

TU_39_3771 Clinical Assessment of the Planning Target Volume Margins for Stereotactic Body Radiotherapy of Prostate Cancer
 Cao M*, Qiao-Guan G, Zhouhuizi S, Steinberg ML, Nickols NG, Kupelian PA, King CR, Kishan AU

TU_6_3011 Impact of Health-Related Quality of Life and Pre-Diagnosis Risk for Major Depressive Disorder on Treatment Choice for Stage I Lung Cancer
 van Dams R*, Grogan T, Lee P, Punglia RS, Raldow A

TU_10_3054 National Variation in Radiation Oncology Procedures
 Valle L*, Chu FI, Raldow A

Tuesday, September 17, 2019 - continued

2:30 - 3:00 PM **Exhibit Halls F1 and F2 - Booth 3224**
MTE 32 - Meet the Expert - Lung
 Percy Lee, MD

2:45 - 4:00 PM **Room W175**
Special Session 02 - Research Spotlight: ASTRO's Research Award Winners
2019 ASTRO-PCF Career Development Award to End Prostate Cancer
 Amar Kishan, MD

2:45 - 4:00 PM **ASTRO Innovation Hub**
PV 04 - Poster Viewing Q&A Session 4
TU_32_2683 Phase I Trial of Stereotactic Body Radiotherapy Neoadjuvant to Radical Prostatectomy for Patients with Unfavorable and High-Risk Non-Metastatic Prostate Cancer: Feasibility And Safety
 Nickols NG*, Kishan AU, Kane N, Diaz-Perez S, Ganapathy E, Nazarian R, Felix C, Mathis C, Kwak JY, Basehart V, Zomorodian N, King CR, Kupelian PA, Rettig M, Steinberg ML, Cao M, Knudsen B, Schae D, Reiter RE

TU_30_2664 Clinical Outcomes among Patients with Radiorecurrent Gleason Grade Group 5 Prostate Cancer: Impact of Initial Treatment Strategy
 Levin-Epstein R*, Cook K, Chu FI, Ciezki JP, Stock RG, Merrick GS, Demanes DJ, Spratt DE, Abu-Isa EI, Pomerantz M, Tran PT, Nguyen PL, Wedde T, Lilleby W, Krauss DJ, Alam R, Steinberg ML, Horwitz EM, King CR, Kishan AU

TU_29_2650 Prostate-Specific Antigen Kinetics Following Various Radiotherapy Modalities: A Multi-Institutional Analysis
 Jiang N*, Wong JK, Horwitz EM, Stock RG, Collins SP, Suy S, Mantz CA, Katz AJ, Miszyk L, Bagshaw HP, Prionas ND, Buyyounouski MK, Zaorsky NG, Nickols NG, King CR, Steinberg ML, Kupelian PA, Demanes DJ, Kishan AU

TU_29_2657 Transcriptomic Heterogeneity in Pathological Grade Group 5 Prostate Cancer: Implications for Biomarker Discovery
 Kishan AU*, Romero T, Grogan T, Alshalalfa M, Boutros P, Rettig M, Reiter RE, Tran PT, Nguyen PL, Nickols NG, Davicioni E, Spratt DE, Feng FY, Den RB, Freedland SJ, Schaeffer EM, Lotan TL, Karnes RJ, Klein EA, Weidhaas JB

Wednesday, September 18, 2019

8:00 - 9:00 AM **Room W178**
MO 18 - HSR 2- Patient Centered Health Services Research
8:05 - 8:10 Opioid Prescribing Patterns Among Radiation Oncologists in the United States
 Huang TQ*, Chang EM, Grogan T, Martin EJ, Raldow A

11:15 - 12:30 PM **Room W179**
MO 21 - Physics 9-Imaging for Response Assessment
11:30 - 11:35 Improved Predictive Performances Using Deep Learning in Assessment of Neoadjuvant Chemoradiation Response in Rectal Cancer Patients Based on Diffusion-weighted Imaging
 Fu J*, Zhong X, van Dams R, Li N, Lewis J, Raldow A, Qi X

11:40 - 11:45 Prostate Bed and Organ-at-Risk Deformation: Prospective Volumetric and Dosimetric Data from a Phase II Trial of Stereotactic Body Radiotherapy after Radical Prostatectomy
 Yoon S*, Cao M, Kahlon S, Ballas LK, Steinberg ML, Kishan AU

Wednesday, September 18, 2019 - continued

11:15 AM - 12:30 PM **Room W187**
Panel 21 - Emotional Intelligence Leadership Strategies in Practice Management and Patient Care
11:45 - 12:00 Managing conflict
 Michael Steinberg, MD, FASTRO*

11:15 AM - 12:30 PM **Room W176**
EDU 26 - Toxicities, Reconstruction Complications, and Quality-of-Life after Radiotherapy for Breast Cancer: Looking Harder
11:55 - 12:15 Patient Reported Outcomes and Quality of Life tools in clinical trials and in practice
 Susan McCloskey, MD, MSHS*

11:15 - 12:30 PM **Room W185**
SS 33 - Physics 10- Machine Learning for Planning and Segmentation
11:15 - 11:25 A Generative Adversarial Network (GAN)-based Approach for Automatic Fiducial Marker Detection in MR Radiotherapy Simulation Images
 Singhrao K*, Fu J, Kishan AU, Lewis J

11:35 - 11:45 Shape Constrained Fully Convolutional DenseNet with Adversarial Training for Multi-organ Segmentation on Head and Neck Low Field MR Images
 Tong N*, Cao M, Sheng K

11:15 AM - 12:30 PM **Room W175**
SS 35 - HSR 3- Best of Health Services Research
11:55 - 12:05 Cost-Effectiveness of Metastasis-Directed Therapy in Oligorecurrent Hormone-Sensitive Prostate Cancer
 Parikh NR*, Chang EM, Nickols NG, Rettig M, Raldow A, King CR, Steinberg ML, Feng FY, Spratt DE, Tran PT, Kishan AU

1:15 - 2:30 PM **Room W175**
MO 22 - Physics 11-Hardware Technologies and Treatment Delivery
 Ke Sheng, PhD (Moderator)

1:15 - 2:30 PM **Room W176**
Panel 24 - Emerging Career Paths in Radiation Oncology Big Data - What you need to know.
2:00 - 2:15 Wearing two hats - how a clinical physicist becomes an information scientist
 Dan Ruan, PhD*

1:15 - 2:30 PM **Room W181**
Panel 26 - Improving Physician-Patient Communication and Informed Consent to Ensure Ethical Conduct of Routine Clinical Care and Clinical Research
1:30 - 1:45 Patients' Fears and Expectations Regarding Radiation Treatment
 Susan McCloskey, MD, MSHS*

1:15 - 2:30 PM **Room W187**
SS 36 - Physics 12-Imaging for Positioning and Monitoring
1:25 - 1:35 A Multi-Source CT Architecture with Three Imaging Modes for SBRT Image Guidance
 Hsieh SS*, Ng LW, Cao M, Lee P