



Radiation Oncology Research Retreat

November 13, 2021

Rubin 852 and WebEx

Clinical and Translational Research

1. S1934: NASSIST -NeoAdjuvant Chemoradiation +/- Immunotherapy before Surgery for SuperIor Sulcus Tumors-Charles R. Thomas, MD
2. Dose-Painted, Dose-Escalated Radiation Therapy for Retroperitoneal Sarcomas- Thomas F. Delaney, MD
3. Identifying a Quantitative Imaging Biomarker for Cerebral Radiation Necrosis'- Hesham Elhalawani, MD, MSc
4. Esophagus Cancer: IMRT vs 3DCRT Retrospective Comparison-Gregory Russo, MD
5. Mridian Utilization in Abdominal Radiotherapy-Bassem Zaki, MD
6. Predictors of Response of GI tumors to Neoadjuvant Therapy-Bassem Zaki, MD
7. OxyChip Implantation and Electron Paramagnetic Resonance Oximetry in Human Tumors is Safe and Feasible: First Experience in 24 Patients-Philip Schaner, MD, PhD
8. Immune check point inhibitor induced pneumonitis in patients with lung cancer-Dr. Cheng Zhou

Break

Health Services & Policy Research

1. Impact of the Oncology Care Model on Guideline Concordant Radiation Therapy Services- Dr. Nirav Kapadia, MD, MS
2. Disparities in Neoadjuvant radiation in rural patients for treatment of rectal cancer-Sybil Sha
3. Identifying linchpin physicians using network analysis- Erika Moen, PhD, MS
4. Article Processing Charge Waiver Policies as a Barrier to Oncology Scholarship in Low- and Lower-middle Income Countries- Jason C. Burton, MD, PhD
5. Patient, Surgeon, and Geographic Factors Associated with Breast Cancer Surgical Delay in the US Medicare Population- Ronnie Zipkin, MD-PhD Candidate (P4)

6. Community-led Action Research in Oncology: Pandemic-Appropriate Radiotherapy Innovations Evaluated for LMICs-Dr. Ben Williams, PhD, DABR

Break

Applied Medical Physics

1. Development and Application of Clinical In Vivo Electron Paramagnetic Resonance Spectroscopy- Dr. Ben Williams, PhD, DABR
2. **Cherenkov Imaging:**
 1. David Gladstone, PhD, DABR – Brief recap of the last year Cherenkov
 2. Dan Alexander, MS, PhD –Machine QA efficiencies
 3. Savannah Decker BS (PhD candidate) – Patient dosimetry enhancements
 4. Melanie Rose, MD – Patient QA implications
 5. Gobind Gill, MD - Positional information
 6. Brady Hunt, MD - AI enhancement for patient treatment analysis
3. **FLASH**
 7. Ronny Rahman, MS (PhD candidate) - FLASH delivery / control
 8. Jack Hoopes, DVM, PhD – ongoing / planned in vitro and in vivo radiation studies
 9. Valentin Demidov, PhD- Histology of FLASH vs. CONV-RT
 10. Paul Lin, MD, PhD- DNA methylation in Drosophila between FLASH and CONV-RT
4. **Future Directions**
 11. Lesley Jarvis, MD, PhD- Clinical
 12. Rongxiao Zhang, PhD- Physics
 13. Petr Bruza, PhD- Engineering