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

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