

**AI & EI: CARING FOR THE PATIENT
IN A WIRELESS WORLD**

ASTRO
ANNUAL 2022 MEETING

ASTRO Annual Meeting 2022
Dartmouth Radiation Oncology Presentations



Dartmouth
Health

Dartmouth Cancer Center
NORRIS COTTON CANCER CARE PAVILION
DARTMOUTH HITCHCOCK MEDICAL CENTER



**DARTMOUTH
ENGINEERING**

Saturday, October 22, 2022

Master Class 04 – Master Class: Centering on Equity: Reflecting on Unconscious Bias, Dominant Culture and Privilege

[Teaching Diversity, Equity, and Inclusion to Faculty and Staff](#)

2:11 p.m., Henry B. Gonzalez Convention Center, Room 303

Presenter: Shauna Marie McVorrان, MD, MHSA

Sunday, October 23, 2022

PQA 01 – Poster Q&A 01 – Lung Cancer and DEI/H

[Assessing the Impact of Diverse Approaches of Promoting Virtual Radiation Oncology Educational Content to Medical Students](#)

4:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Erin Kaya, MD

[Impact of a Virtual Introduction to a Radiation Oncology Lecture on Stimulating Specialty Interest Among Diverse Medical Students at Multiple Institutions](#)

4:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Malcolm D. Mattes, MD

[Pilot Study Exploring the Feasibility and Value of Introducing Diverse Students in Premedical Programs to Multidisciplinary Oncology](#)

4:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Malcolm D. Mattes, MD

Monday, October 24, 2022

EDU 05 – Examining our Past and Present Diversity to Achieve a More Equitable and Inclusive Future for Radiation Oncology

[Past: a Historical Look at the Workforce of Radiation Oncology Through a Diversity, Equity and Inclusion Lens](#)

8:02 a.m., Henry G. Gonzalez Convention Center, Room 007 A/B

Presenter: Charles R. Thomas Jr., MD, FASTRO

Monday, October 24, 2022

1027 Long Term Results of a Multi-Institutional Phase II Study of Hypofractionated Proton Beam Irradiation of Unresectable Primary Liver Tumors

[Long Term Results of a Multi-Institutional Phase II Study of Hypofractionated Proton Beam Irradiation of Unresectable Primary Liver Tumors](#)

11:00 a.m., Henry G. Gonzalez Convention Center, Room 304

Presenter: Hannah J. Roberts, MD

Tuesday, October 25, 2022

[Speed Mentoring](#)

12:45 p.m., Henry B. Gonzalez Convention Center, Front of Hall 2

Mentor: Charles R. Thomas Jr., MD, FASTRO

PQA 05 – Poster Q&A 05 – Gastrointestinal Cancer and Sarcoma

[Impact of Social Determinants of Health \(SDH\) on Outcomes in Patients with Hepatocellular Carcinoma \(HCC\)](#)

12:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Sara E. Beltran Ponce, MD

[Dosimetric Effect of Respiratory Phase in MR-Guided SBRT for Locally Advanced Pancreatic Cancer](#)

12:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Gobind Singh Gill, MD

[Association Between Rural Residence and Rectal Cancer Treatment for Medicare Beneficiaries](#)

12:45 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Sybil T. Sha, MD, BS

1067 – Radiation and Cancer Physics

[Improved Cherenkov Imaging Across a Wide Range of Skin Pigmentation Levels for the Inclusion of Diverse Patient Populations](#)

12:50 p.m., Henry B. Gonzalez Convention Center, Room 303

Presenter: Savannah Marie Decker, BA

Tuesday, October 25, 2022

1068 In-vivo Cherenkov Imaging-guided FLASH Radiotherapy

[In-vivo Cherenkov Imaging-Guided FLASH Radiotherapy](#)

12:55 p.m., Henry B. Gonzalez Convention Center, Room 303

Presenter: Mahbubur Rahman, PhD, BS

PQA 06 – Poster Q&A 06 – Genitourinary Cancer, Patient Safety, and Nursing

[Cherenkov Imaging to Verify Radiation Treatment Delivery in Breast Cancer](#)

2:30 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Melanie L. Rose, MD

LBA 09 Stereotactic MR-Guided On-Table Adaptive Radiation Therapy (SMART) for Patients with Borderline or Locally Advanced Pancreatic Cancer: Primary Endpoint Outcomes of a Prospective Phase II Multi-Center International Trial

[Stereotactic MR-Guided On-Table Adaptive Radiation Therapy \(SMART\) for Patients with Borderline or Locally Advanced Pancreatic Cancer: Primary Endpoint Outcomes of a Prospective Phase II Multi-Center International Trial](#)

3:00 p.m., Henry G. Gonzales Convention Center, Hemisfair Ballroom C2/C3

Presenter: Parag Jitendra Parikh, MD, BSE

PQA 07 – Poster Q&A 07 – Hematologic Malignancies and Digital Health Innovation

[Automated Analysis of Treatment Log Files and Videos for MR-Guided Stereotactic Body Radiation Therapy Treatments of Thoracic and Abdominal Tumors](#)

4:00 p.m., Henry G. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Gobind Singh Gill, MD

PQA 08 – Poster Q&A 08 – Gynecological Cancer, Pediatric Cancer, and Professional Development

[Outcomes and Patterns of Failure in Early-Stage, High-Risk Histology Endometrial Cancer Treated with Vaginal Cuff Brachytherapy](#)

5:15 p.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Shauna Marie McVorrán, MD, MHSA

Wednesday, October 26, 2022

PQA 09 – Poster Q&A 09 – Head & Neck Cancer and Health Services Research

[HPV-Associated Squamous Cell Carcinomas of the Oropharynx Treated with Curative Intent Radiotherapy: Patterns of Failure Analysis using a Deformable Registration Methodology](#)

10:30 a.m., Henry B. Gonzalez Convention Center, Exhibit Hall 1

Presenter: Clara Goldberger, BA

PQA 10 – Poster Q&A 10 – Physics

[Dosimetric Effect of Variations in Bolus Placement Identified via Cherenkov Imaging.](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Savannah Marie Decker, BA

[Deep Learning-based Synthetic CT Generation for MR-only Adaptive Radiation Therapy on MR Linacs](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Brady Hunt, PhD

[Real-time Internal Motion Monitoring during Radiation Therapy Using Cine MRI and Deep Learning](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Brady Hunt, PhD

[Evaluating Risk of FLASH Experiments on a Clinical LINAC with Failure Mode and Effects Analysis](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Mahbubur Rahman, PhD, BS

[Intensity Modulation in Electron FLASH Radiotherapy](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Mahbubur Rahman, PhD, BS

[Comparison of Two Modified Linear Accelerators for use in FLASH Clinical Trials](#)

12:30 p.m., Henry B. Gonzales Convention Center, Exhibit Hall 1

Presenter: Austin Sloop, MS