

**Johns Hopkins School of Medicine
Department of Radiation Oncology and Molecular Radiation Sciences
and the Johns Hopkins Proton Therapy Center
present the
Johns Hopkins Proton Therapy Certificate Course**

**Online Pre-Requisite Course: Available April 1, 2024
In-Person course: April 12-13, 2024**

This program is a combination of self-paced online modules (7 hours) followed by a 1.5 day in-person session in Washington, DC, from April 12-13, 2024.

Online Modules included in the Registration Fee
Available beginning April 1, 2024 - June 30, 2024

PHYSICS AND BIOLOGY		
Approx. Time in Minutes	Lecture Title	Speaker
30 mins	Proton Physics Basics	Heng Li, PhD, DABR
30 mins	Proton Beam Techniques (PS and PBS)	Rachel Ger, PhD
30 mins	Modulating Beam Delivery and Dosimetry	Lingshu Yin, PhD
30 mins	Proton Radiobiology	Michael Goldstein, MD, PhD
CLINICAL		
30 mins	Adult CNS: (Brain) Clinical Indications and Evidence	Carmen Kut, MD, PhD
30 mins	Adult CNS (Base of Skull and Spine): Clinical Indications and Evidence	Kristin Redmond, MD, MPH
30 mins (15 each)	Pediatrics: Clinical Indications and Evidence	Sahaja Acharya, MD and Matthew Ladra, MD
30 mins	H&N: Clinical Indications and Evidence	Carmen Kut, MD, PhD
30 mins	Thoracic: Clinical Indications and Evidence	Aditya Halthore, MD
30 mins	Breast: Clinical Indications and Evidence	Jean Wright, MD
30 mins	Genitourinary: Clinical Indications and Evidence	Curtiland Deville, MD
30 mins	Gastrointestinal: Clinical Indications and Evidence	Rachit Kumar, MD
30 mins	Gyn proton indications/data/clinical	Akila Viswanathan, MD, MPH
30 mins	Principles of Thoracic Re-Irradiation	Ranh Voong, MD, MPH

Johns Hopkins Proton Therapy Certificate Course

Live, In-Person Program

The Johns Hopkins Proton Therapy Center Sibley Memorial Hospital

Room 2E315 (2nd Floor, Johns Hopkins Proton Center Conference Room)
5255 Loughboro Road NW
Washington, DC 20016

Friday, April 12, 2024

8:00-9:00 AM	Registration	Sibley Memorial Room 2E315
9:00-9:05 AM	Welcome & Conference Goals	Aditya Halthore, MD
9:05-9:25 AM	Introduction and History of Proton Therapy	Aditya Halthore, MD
9:25-9:45 AM	Workflow from Simulation to End of Treatment and Simulation Considerations	Lingshu Yin, PhD
9:45-10:05 AM	Intro to Proton Planning/Robustness	Hao Chen, PhD
10:05-10:25 AM	Quality Assurance CT Imaging and Adaptive Planning	Khadija Sheikh, PhD
10:25-10:30 AM	Q&A	
10:30-10:50 AM	<i>Refreshment Break</i>	
10:50-11:05 AM	CNS proton planning considerations	Tom Hrinivich, PhD, DABR
11:05-11:20 AM	Peds planning considerations	Khadija Sheikh, PhD
11:20-11:35 AM	H&N proton planning considerations	Rachel Ger, PhD
11:35-11:50 AM	Breast proton planning considerations	Lingshu Yin, PhD
11:50 AM-12:10 PM	Mixed Photon/Proton Treatments	
12:10-12:15 PM	Q&A	
12:15-1:15 PM	<i>Lunch</i>	
1:15-1:30 PM	GU proton planning considerations	Hao Chen, PhD
1:30-1:45 PM	Gyn proton planning considerations	Hao Chen, PhD
1:45-2:05 PM	Intake, Access, and Coordination considerations	Curtiland Deville, MD
2:05-2:25 PM	Billing/Authorization Process	Kelli Gress
2:25-2:30 PM	Q&A	
2:30-2:40 PM	<i>Refreshment Break</i>	
2:40-3:00 PM	Future directions of proton therapy: LET-based optimization	Tom Hrinivich, PhD, BABR
3:00-3:20 PM	Future directions of proton therapy: SBPT, arcs	Rachel Ger, PhD
3:20-3:25 PM	Q&A	
3:25-3:55 PM	Planning Workshop 1: GROUP A (up to 8 participants) will divide up into 2 small groups and observe physicist/dosimetrist working with Raystation	Phys/Dosi
	Treatment Observation Workshop: GROUP B (up to 9 participants) will split into 3 small groups and observe treatment delivery/film review at console	RTTs
		Phys/Dosi

	Planning Workshop 2: GROUP C (up to 8 participants) will divide up into 3 small groups and observe physicist/dosimetrist working with Raystation	
3:55-4:05 PM	<i>Break</i>	
4:05-4:35 PM	Planning Workshop 1: GROUP C (up to 8 participants) will divide up into 2 small groups and observe physicist/dosimetrist working with Raystation	Phys/Dosi
	Treatment Observation Workshop: GROUP A (up to 8 participants) will split into 3 small groups and observe treatment delivery/film review at console	RTTs
	Planning Workshop 2: GROUP B (up to 9 participants) will divide up into 3 small groups and observe physicist/dosimetrist working with Raystation	Phys/Dosi
4:35-4:45 PM	<i>Break</i>	
4:45-5:15 PM	Planning Workshop: GROUP B (up to 9 participants) will divide up into 3 small groups and observe physicist/dosimetrist working with Raystation	Phys/Dosi
	Treatment Observation Workshop: GROUP C (up to 8 participants) will split into 3 small groups and observe treatment delivery/film review at console	RTTs
	Planning Workshop 2: GROUP A (up to 8 participants) will divide up into 2 small groups and observe physicist/dosimetrist working with Raystation	Phys/Dosi

Saturday, April 13, 2024

9:00-9:20 AM	Motion Management, RGPT	Heng Li, PhD, DABR
9:20-9:35 AM	Thoracic planning considerations	Heng Li, PhD, DABR
9:35-9:40 AM	Q&A	
9:40-9:55 AM	GI planning considerations	Tom Hrinivich , PhD, DABR
9:55-10:00 AM	Q&A	
10:00-10:10 AM	<i>Refreshment Break</i>	
10:10-10:40 AM	Reirradiation and Complex Cases workshop: GROUP 1 (up to 12 participants) will go over complex cases	Aditya Halthore, MD / Physicist
	Gantry/Synchrotron Workshop: GROUP 2 (up to 13 Participants) will view gantry/synchrotron with discussion of production of proton beam and delivery to the patient	Phys
10:40-10:50 AM	<i>Break</i>	
10:50-11:20 AM	Gantry/Synchrotron Workshop: GROUP 2 will view gantry/ synchrotron with discussion of production of proton beam and delivery to the patient	Phys

	Reirradiation and Complex Cases workshop: GROUP 1 will go over complex cases	Aditya Halthore, MD / Physicist
11:20-11:30 AM	<i>Break</i>	
11:30-11:50 AM	Proton Research Methodologies: How to move the field forward	Xun Jia, PhD, MS
11:50 AM-12:10 PM	Future directions of proton therapy: proton flash	Mohammed Rezaee, PhD
12:10-12:15 PM	Q&A	
12:15-12:30 PM	Closing and Online Post-Test	
12:30 PM	Adjourn	

You will receive an email notification to complete the evaluation form and to attest to the number of hours in attendance.

The registration desk will remain open during conference hours.

The Johns Hopkins School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity.

This schedule is subject to change.