

ANNUAL PHYSICS SYMPOSIUM



Fri. Dec. 13, 2024

COURSE HIGHLIGHTS

This one-day course sponsored by the University of Toronto Diagnostic Fellowship program will introduce the principles of MRI Physics and image formation. The course will also focus on clinical application and MRI safety.

TARGET AUDIENCE

Radiology residents, fellows, Radiologists, and MRI technologists with an interest in Neuroradiology.

REGISTRATION

Free. No CME credits. Virtual meeting via Zoom. Please contact: Jennifer.Morris@utoronto.ca





ORGANIZING COMMITTEE

Heejun (Tony) Kang, MD, FRCPC
Lecturer, University of Toronto,
Sunnybrook Health Sciences Centre

Matylda Machnowska, BMedSc, MD, FRCPC, ABR
Neuroradiology Fellowship Program Director
Assistant Professor, University of Toronto,
Sunnybrook Health Sciences Centre

FACULTY

Walter Kucharczyk, MD, FRCPC
Professor of Radiology, University of Toronto,
JDMI, University Health Network, Toronto.

Paula Alcaide Leon, MD
Assistant professor, University of Toronto,
JDMI, University Health Network, Toronto.

Vivek Pai, MD
Senior Clinical Fellow, University of Toronto
Sick Kids Hospital, Toronto.

Alex Boutet, MD, Ph.D., FRCPC
Assistant Professor, University of Toronto,
JDMI, University Health Network, Toronto.

Victor Lam, MD, FRCPC
Lecturer, University of Toronto,
JDMI, University Health Network, Toronto.

Ben Verhaaren, MD, Ph.D.
Assistant Professor, University of Toronto,
Sunnybrook Health Sciences Centre

Kamil Uludag, Ph.D.
Koerner Scientist in MR Imaging
Krembil Brain Institute
Toronto Western Hospital, UHN

AGENDA

Time	Lecture	Presenter
9:00 – 11:00	Spin Gymnastic: An Introduction to MRI	Dr. Walter Kucharczyk
11:00 – 11:15	Coffee Break	
11:15 – 12:00	MRI Perfusion	Dr. Paula Alcaide Leon
12:00 – 1:00	Lunch (not provided)	
1:00 – 1:30	CSF flow – appearances, pitfalls, rectification, and utility.	Dr. Vivek Pai
1:30 – 1:50	Focused Ultrasound Basics	Dr. Alex Boutet
1:50 – 2:15	Implant MRI Safety	Dr. Alex Boutet
2:15 – 2:45	SWI Techniques	Dr. Victor Lam
2:45 – 3:00	Coffee Break	
3:00 – 3:30	MRA and MRV Techniques	Dr. Ben Verhaaren
3:30 – 4:00	Emerging MRI Sequences and Approaches for Neuroradiology	Dr. Kamil Uludag
4:00 – 4:15	Q&A Session: Ask anything about MRI physics!	Dr. Kamil Uludag