2017

St. Michael's Hospital, Department of Medical Imaging
invites you to join us for a live conference and live webinar:

4th Annual MRI Symposium

September 16, 2017

MRI for Oncology

This event targets **practicing radiologists**, **technologists** and trainees, including **residents** and **fellows**.

The perceived learning needs used to plan this event have been identified via requests from: (i) University of Toronto residents; (ii) St. Michael's Hospital radiologists and technologists; (iii) radiologists and technologists from across the province of Ontario with whom the members of the planning committee have contact; and (iv) members of the target audience who participated in the "3rd Annual MRI Symposium" conference in 2016.

At the end of this event, participants will be able to:

1) Identify and explain clinically relevant aspects of gadolinium-based contrast agent chemistry and safety, including nephrogenic systemic fibrosis and gadolinium tissue deposition. (CanMEDS roles: Medical Expert, Scholar)

2) Apply information sourced from current literature and new studies regarding gadolinium deposition in the brain and its relation to classes of gadolinium based contrast agents (CanMEDS roles: Medical Expert, Scholar)

3) Explain the importance of MRI and its impact on clinical management in four common and impactful oncology problems (hepatocellular carcinoma, rectal cancer, prostate cancer and gynecologic cancer) (CanMEDS roles: Medical Expert, Scholar, Professional)

4) Identify and utilize the key aspects of the MRI technical protocols for each of these four problems that are most important in obtaining the clinically most relevant information from the scan. (CanMEDS roles: Medical Expert, Scholar, Professional)

Program

11:00AM – Introduction to Morning Session

11:05AM – **"Gadolinium Concepts and Safety for 2017"**

Dr. Anish Kirpalani
Staff Radiologist, St. Michael's Hospital
Associate Scientist, Li Ka Shing Knowledge Institute
Director, MRI Research Centre, St. Michael's Hospital
Assistant Professor, Department of Medical Imaging, University of Toronto

At the end of this session, participants will be able to:

1) Classify gadolinium-based contrast agents (GBCAs) by molecular structure, stability, relaxivity and biodistribution.
2) Review literature regarding known adverse effects and event rates.
3) Review the link between GBCAs and nephrogenic systemic fibrosis, and review the related concepts of renal function guidelines and gadolinium tissue deposition.

11:40AM – Question period

11:50AM – **"Gadolinium Deposition Update"**

Dr. David S. Enterline
Associate Professor of Radiology, Chief of Neuroradiology
Duke University, Durham, NC

At the end of this session, participants will be able to:

1) Discuss current concepts of gadolinium deposition.
2) Apply the proposed mechanism for brain deposition.
3) Identify and evaluate risks and benefits of contrast for MRI.

12:25PM – Question Period

12:35PM - Lunch

1:05PM – **"MRI for Hepatocellular Carcinoma"**
Dr. Kartik S. Jhaveri
Director, Abdominal MRI, JDMI
Director, CME Program, Medical Imaging
UHN, Mt. Sinai & Womens College Hospitals, University of Toronto

At the end of this session, participants will be able to:

1) Review optimal MRI protocols for evaluation of Hepatocellular Carcinoma.
2) Review MRI imaging features and patterns of Hepatocellular Carcinoma.
3) Discuss the role of hepatobiliary contrast agents in Hepatocellular Carcinoma.

1:40PM – Question period

1:50PM - **"MRI for Rectal Cancer"**
Dr. Kartik S. Jhaveri

At the end of this session, participants will be able to:

1) Discuss the role of MRI in preoperative staging and treatment stratification in rectal cancer, including its limitations.
2) Identify and apply the key aspects of the MRI technical protocol for MRI of rectal cancer.
3) Review and apply to practice the most important content to include in a synoptic radiological report of rectal cancer MRI.
4) Review the approach to interpreting the images in a standard rectal MRI following a live case review of 1-2 real clinical cases.

2:20PM – Clinical case review

2:30PM – Question period

2:35PM – Break

2:45PM –– **"MRI for Prostate Cancer and PIRADS 2.0 case review"**
Dr. Mukesh Harisinghani
Professor of Radiology, Harvard Medical School

At the end of this session, participants will be able to:

1) Discuss key technical pointers for accurate detection of clinically significant prostate cancer.
2) Review key pointers for use of PIRADS 2 reporting schema in prostate cancer MRI.
3) Apply key points for identifying tumors located in various zones in the prostate cancer.

3:30PM – Clinical case review

3:40PM – Question period

3:45PM – **"MRI for Gynecologic Oncology"**
Dr. Anish Kirpalani

At the end of this session, participants will be able to:

1) Identify and apply the key aspects of the MRI protocol for indications in gynecologic oncology, focusing on endometrial, cervical and ovarian cancer.
2) Review and apply to practice the most important content that needs to be included in the radiological report of MRI scans for endometrial, cervical and ovarian cancer.
3) Review the approach to interpreting the images in a standard gynecologic oncology MRI following a live case review of 1-2 representative real clinical cases.

4:10PM – Clinical case review

4:20PM – Question period

4:25PM – Closing remarks

Attendance:

Please note that there is no registration fee associated with this event. A limited number of seats are available for on-site attendance however, this event will be webcast live across Canada. Login details for the webcast will be provided to participants upon registration.

Proof of participation:

Following the conference, certificates of attendance will be provided to all participants, via e-mail.

Planning Committee Disclosures:

Dr. Anish Kirpalani has received speaking honorarium funded by industry. Dr. Anish Kirpalani, Dr. Kartik Jhaveri and Dr. General Leung have financial relationships with members of the pharmaceutical industry or medical supply companies.

For all inquiries

Please contact Jennifer Labelle
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To register

Please register by e-mail: smhmrisymposium@gmail.com

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