

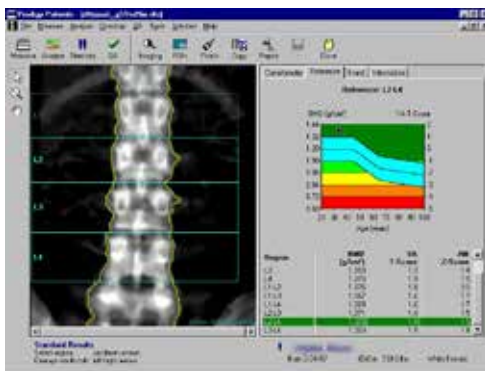
## OAR CBMD Accredited Densitometry Technologist (ADT) CME 2016

### Course Director: David Lyons, MD FRCPC

“This course will be of interest to Medical Radiation Technologists providing BMD services.”



*The Canadian Association of Medical Radiation Technologists has approved 12.75 Category “A” credits for full 2-day attendance/participation of this CME event.*



### Overall Course Objectives:

**At the end of this event, participants through didactic lectures and workshops, should be able to:**

- Describe the fundamentals of radiation safety and quality control as it applies to DXA; the importance of quality assurance and quality control and elements of a QA/QC program for densitometry
- Discuss the vital role of the medical physicist in on-site and on-going quality assurance of equipment and technologists, and for the independent validation of results
- Develop knowledge and understanding of the critical importance of accreditation to facilitate BMD scans that are accurate, and which support the reporting physician in generating a report that accurately reflects patient’s bone health
- Develop knowledge and understanding of the critical importance of implementing the Canadian Association of Radiologists’ Technical Standards for Bone Mineral Densitometry Reporting 2013 as it applies to the performance of DXA
- Have an understanding of the complexities encountered in the performance and reporting of Paediatric DXA
- Identify the common errors encountered in the performance of DXA, as identified through the CBMD facility accreditation program to facilitate DXA scans that accurately reflect the patient’s bone mass; identify common positioning mistakes; describe and demonstrate positioning techniques used to correct positioning errors and recognize and “Trouble-Shoot” unusual cases/situations
- Understand and demonstrate the technologist’s responsibility for QA/QC within the facility and recognition of the importance of precision and why it is critical in determining the validity of interval change in bone mass
- Recognize the importance of a well-documented osteoporosis questionnaire that will allow the reporting imaging physician to accurately report 10-year absolute fracture risk. (The technologist must have an understanding of the risk factors that lead to bone loss in men and women; the importance of fragility fractures and what a fragility fracture is; and knowledge of the treatment options for patients at high risk for fracture.)



## SCHEDULE:

Saturday, April 9	
07:00 – 07:30	<b>Registration &amp; Hot Breakfast</b>
07:30 – 07:40	<b>Opening Remarks &amp; The Importance Of CBMD Facility Accreditation Program</b> <i>Dr. Giuseppe Tarulli</i>
07:40 – 08:20	<b>CBMD Facility Accreditation: What Does This Mean For Fracture Risk Assessment?</b> <i>Dr. David Lyons</i>
08:20 – 09:00	<b>DXA Scanners: Principles Of Operation &amp; Changing Technologies And The Impact On BMD Determination &amp; Quality Control</b> <i>Dr. Peter Raaphorst</i>
09:00 – 09:45	<b>Quality Control And Policies And Procedures: The Technologist &amp; The Physicist's Visit</b> <i>Dr. Peter Raaphorst</i>
09:45 – 10:00	<b>Interactive Q &amp; A Session With ARS</b> <i>Dr. Peter Raaphorst</i>
10:00 – 10:40	<b>Equipment Changes/Cross-Over Precision</b> <i>Mr. Peter O'Brien</i>
10:40 – 10:55	<b>Morning Break</b>
10:55 – 11:25	<b>Radiation Safety And Quality Control</b> <i>Mr. Peter O'Brien</i>
11:25 – 11:40	<b>Interactive Q &amp; A Session With ARS</b> <i>Mr. Peter O'Brien</i>
11:40 – 12:40	<b>Positioning Workshop &amp; Scan Acquisition</b> <i>Ms. Alison Bishop &amp; Ms. Carrie Orr-Lusk</i>
12:40 – 12:55	<b>Q &amp; A Session</b>
12:55 – 13:55	<b>Lunch</b>
13:55 – 14:45	<b>Technical Pitfalls In The Performance Of DXA</b> <i>Ms. Karen Lamadelaine</i>
14:45 – 15:25	<b>Paediatric BMD: The Big Challenge Of Little Bones</b> <i>Ms. Mandy Kohli</i>
15:25 – 15:40	<b>Q &amp; A Session</b>
15:40 – 16:00	<b>Afternoon Break</b>
16:00 – 16:30	<b>The Accreditation Process</b> <i>Ms. Terry Corbett</i>
16:30 – 17:00	<b>Panel Discussion: Answers To Submitted Questions – All Speakers</b>
Sunday, April 10	
07:00 – 07:30	<b>Registration &amp; Hot Breakfast</b>
07:30 – 08:30	<b>The Osteoporosis Questionnaire</b> <i>Dr. Ian Hammond</i>
08:30 – 08:45	<b>Interactive Q &amp; A Session With ARS</b> <i>Dr. Ian Hammond</i>
08:45 – 09:30	<b>What Is A Fragility Fracture?</b> <i>Dr. Steven Burrell</i>
09:30 – 10:15	<b>CAR Recommendations For Reporting Fracture Risk Assessment</b> <i>Dr. Steven Burrell</i>
10:15 – 10:30	<b>Interactive Q &amp; A Session With ARS</b> <i>Dr. Steven Burrell</i>
10:30 – 10:45	<b>Morning Break</b>
10:45 – 12:00	<b>Basic Principles: Interactive Q &amp; A Session</b> <i>Dr. David Lyons</i>
12:00 – 12:30	<b>The ADT Practicum: What Is Required &amp; What Not To Do!</b> <i>Ms. Terry Corbett</i>
12:30 – 13:00	<b>Q &amp; A Panel Review – All Speakers</b>
13:00 – 14:00	<b>Lunch</b>
14:00 – 14:15	<b>Exam Instructions</b>
14:20 – 16:20	<i>Note 5 minute delay to allow for online exam access activation for webcast participants</i> <b>ADT Written EXAM</b>



### **Steven Burrell, MD, FRCPC**

*Professor of Radiology, Dalhousie University; Staff Radiologist, QEII Health Sciences Centre and Clinical Head of Nuclear Medicine, IWK Health Centre, Halifax, Nova Scotia*

Dr. Burrell originally studied engineering, obtaining a master's degree. Following Medical School he completed a combined Diagnostic Radiology and Nuclear Medicine Residency, all at Dalhousie, and is RCPSC certified in both specialties. This was followed by a fellowship in the Harvard Joint Program in Nuclear Medicine, with emphasis on oncology and cardiac imaging.

Dr. Burrell's clinical and research interests include bone mineral density (BMD), as well as oncology imaging and PET. He has been on a number of BMD-related committees with CAR, OAR, and Osteoporosis Canada, and has led several initiatives in Nova Scotia around fracture risk and BMD reporting. He was a member of the committee authoring the 2013 CAR technical standards for BMD reporting.

Dr. Burrell is past Residency Program Director for Dalhousie Nuclear Medicine and past Research Director for Dalhousie Radiology. He was Young Investigator of the Year for the Canadian Society of Nuclear Medicine and for the Canadian Association of Radiologists.

## Course Director



### **David Lyons, MD, FRCPC,**

*Chair and Medical Director, OAR CBMD Facility Accreditation Program and the OAR Accredited Densitometry Technologist (ADT) Program*

Dr. David Lyons received his medical degree at Queens University at Kingston and training in diagnostic imaging at Toronto General Hospital, University of Toronto.

Dr. Lyons has more than 25 years of experience in diagnostic imaging with special interest in BMD and ultrasound.

As a radiologist involved in the reporting of DXA scans, he has a special interest in, and is a strong advocate for, quality assurance and quality control in the performance and reporting of Bone Mineral Densitometry.

Dr. Lyons pioneered the CBMD Facility Accreditation Program and has played a vital role in the OAR's continuing medical educational courses (CME) to support the Facility Accreditation Program. He extended BMD CME to the education of technologists who form the backbone of the accreditation process, and was responsible for developing the Accredited Densitometry Technologist (ADT) recognition for technologists who successfully complete an examination targeted to the accreditation process, and maintain continuing educational requirements set forth in the CBMD policies and procedures for accreditation.

He represented the CAR/OAR on the Osteoporosis Canada panel leading to the CAROC 2005 recommendations, which introduced the concept of 10-year absolute risk for fracture risk prediction, and later was the OAR representative on the panel updating fracture risk assessment to the CAROC 2010 fracture risk assessment tool.

Dr. Lyons is currently a radiologist at Sunridge Diagnostic Imaging in Alberta and a consulting radiologist for the Deep River and District Hospital in northeast Ontario. He remains a driving force behind CBMD Facility Accreditation and CME.



### **Alison Bishop, MRT (R), CBI, ADT**

Alison Bishop is the recently retired Manager of Diagnostic Imaging, St. Francis Memorial Hospital (SFMH), Barry's Bay Ontario. She has 34 years of experience working as an MRT with specialty in both Mammography and Bone Mineral Densitometry. She received her BMD certification with ISCD in 2003 and her ADT in 2010. Ms. Bishop is experienced in the facility accreditation process having repeatedly achieved CAR Accreditation in Mammography and CBMD Facility Accreditation for SFMH.

She has been a member of the OAR CBMD CME planning committee and a consulting technologist with the OAR CBMD Facility Accreditation Program since it began in 2007 and with the CBMD ADT program since its development in 2010.

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### **Terry Corbett, ADT**

Terry Corbett is a recently retired Bone Density Technologist with more than 25 years experience working at the Deep River and District Hospital in Deep River, Ontario. She performed all Bone Mineral Density testing at the Deep River and District Hospital in Deep River, Ontario for 13 years and until her retirement spent 12 years as the Manager for Diagnostic Imaging.

Ms. Corbett has extensive knowledge of BMD Facility accreditation and ensured that the Deep River Hospital achieved BMD facility accreditation over the past 10 years. She has been a consulting technologist with the CBMD Facility Accreditation Program since it began in 2007 and with the CBMD ADT Program since its development in 2010.

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### **Ian Hammond, MD, FRCPC**

Dr. Hammond is a staff radiologist at the Ottawa Hospital and Professor of Radiology at the University of Ottawa. He also practices at a number of community hospitals in the Ottawa Valley, reporting BMD at Winchester, Arnprior, Renfrew and Barry's Bay.

Dr. Hammond has been a member of the Ontario Association of Radiologists' Board of Directors since 2006, President of the Canadian Radiological Foundation since 2011, and a past President of the Canadian Association of Radiologists.

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### **Mandy Kohli, MRT (N), BASc, ADT**

Mandy Kohli is a Nuclear Medicine Technologist at the Hospital for Sick Children in Toronto. She is a graduate of the Michener Institute for Applied Health Sciences and received her Bachelor of Applied Science (Nuclear Medicine Technology) from Charles Sturt University.

Ms. Kohli has worked at Sickkids for 17 years and has been the Clinical Coordinator and the Charge Technologist for the BMD program for the last 7 years. As BMD Charge Technologist, Mandy is responsible for providing and overseeing all education for both students and staff and has implemented and sustained the BMD accreditation program. She has a keen interest in BMD research and was the primary investigator for a retrospective study comparing lateral DXA to radiography.

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### **Karen Lamadeleine, MRT (R), BA, CBDT, ADT**

Karen Lamadeleine received her Radiography training at Mohawk College, graduating in 1994. After working in x-ray for several years in Guelph and Deep River Ontario, she returned to academia in 2000 to earn her Bachelor's degree in Gerontology/Sociology from McMaster University. Currently, Karen lives with her family in Deep River, working-full time at the Deep River and District Hospital. In addition to working in Radiography and Bone Densitometry, she recently designed and implemented the hospital's Quality Management and Process Improvement program, "Quality Matters".





### **Peter F. O'Brien, M.Sc., FCCPM, FCOMP**

Peter O'Brien is a consulting medical physicist with the OAR CBMD Facility Accreditation Program and a lecturer for the supporting CME events. He is a medical physics consultant with more than 35 years' experience in hospitals and cancer centres in Alberta and Ontario.

He is a former Head of Medical Physics at the Odette Cancer Centre at the Sunnybrook Health Sciences Centre in Toronto, and also a past president of the Canadian Organization of Medical Physicists, as well as the first Director of the University of Toronto Medical Physics Residency training program.

Mr. O'Brien's interests include ionizing radiation safety, quality assurance of medical radiation equipment and medical physics education.

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### **Carrie Orr-Lusk, MRT (R), ADT**

Carrie Orr-Lusk has worked at Wentworth Halton X-ray and Ultrasound for 22 years performing general x-ray and mammograms. In 1999 she began performing BMD examinations. Ms. Orr-Lusk is responsible for QC and training within Wentworth Halton X-ray and Ultrasound.

She has worked exclusively with Hologic systems and has joined the CBMD CME faculty to provide advice to MRTs working with Hologic equipment.

Ms. Orr-Lusk earned her Accredited Bone Mineral Densitometrist designation, when it was first introduced by the OAR CBMD Facility Accreditation Program and CME in 2010.

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### **Peter Raaphorst, Phd, FCCPM, PPhys**

Dr. Raaphorst is Professor of Physics, Carleton University; Professor of Radiology, Faculty of Medicine, University of Ottawa; Consulting Physicist Ontario Breast Screening Program and; Senior Consulting Physicist, OAR CBMD Facility Accreditation Program.

He is a Research Scientist engaged in biological sciences and in physics. His medical physics skills include radiotherapy, radiological imaging, quality assurance and radiation safety.

Dr. Raaphorst manages the CBMD Medical Physicists Program and has been a driving force behind ongoing CBMD policy and course development since the program began in 2007.

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### **Accredited Densitometry (ADT) Exam and Designation**

#### **The ADT course is a requirement for CBMD Facility Accreditation!**

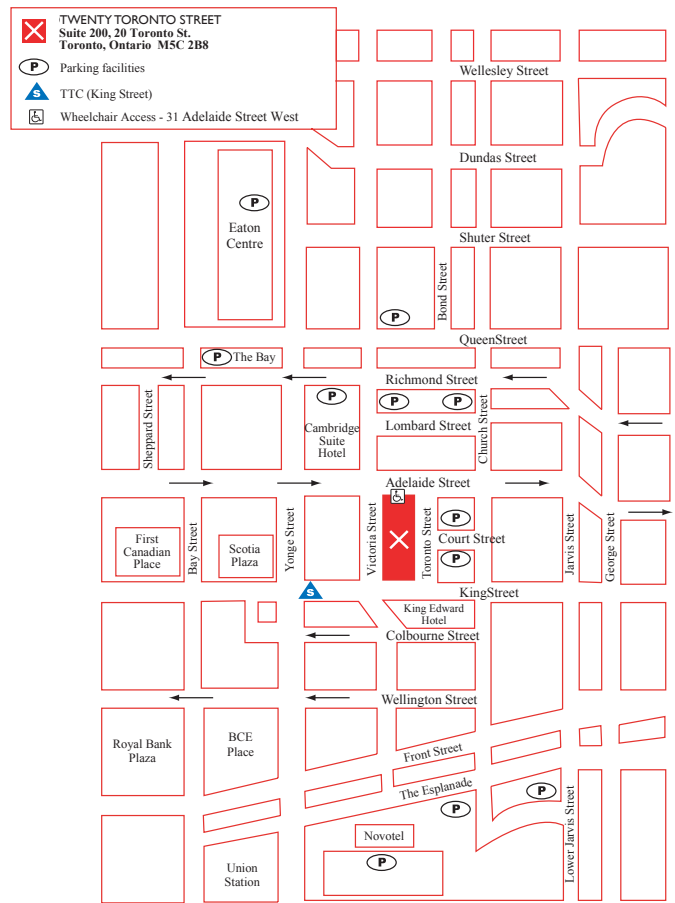
Please note that the ADT exam for Accredited Densitometry Technologist ADT Designation will be available for both the live program and the live webcast.

Webcast participants will have the opportunity to write an on-line exam at the same time as technologists participating in the live program exam. There is no charge to write the exam. The exam is voluntary.

Why write the exam? A number of changes have occurred since the program was offered in 2011. New guidelines are being used for reporting fracture risk assessment and changes have been made to the accreditation process.

Technologists play a vital role in the accreditation process and deserve the opportunity to validate their competency. The exam and ancillary assignment will provide this assessment.

NOTE: There is **no charge** to write the CBMD ADT exam.



## Location:

Twenty Toronto Street  
Conferences and Events  
20 Toronto Street  
2nd Floor  
Downtown Toronto

# OAR CBMD Accredited Densometry Technologist (ADT) CME 2016

## LIVE WEBCAST BROCHURE

Saturday, April 9 and Sunday, April 10, 2016

### REGISTRATION

*Includes electronic course materials*

Technologists **\$450** (before March 1, 2016) **\$500** (after March 1, 2016)

**NOTE: There is no charge to write the CBMD ADT exam.**



Please note that online registration for all OAR CME events is available at:

<http://oarinfo.ca/cme>

Access to archived versions of the CME program will be made available to all CME participants. Two archived formats will be available. Participants can choose to access the entire event or access the program on a lecture-by-lecture basis.

Instructions on how to access the archived CME program will be e-mailed to all participants (live program and webcast of the live program) as soon as they are available.

Archived versions of the CME are usually available within 7 to 14 days of the live event.

### Cancellation policy:

For OAR members, if cancellation to this event is necessary, please contact the OAR office for assistance. For non-members, a refund will be made less a \$50 processing fee, if cancellation is received in writing two weeks prior to the CME event date. No refunds will be given within two weeks of the CME event. Delegates may substitute an alternate attendee. Please advise the OAR if any changes are made. The OAR reserves the right to cancel or move the conference should it become necessary. In this case, each registrant will be notified by telephone or e-mail and a full refund will be given. Therefore it is important that you provide us with an e-mail address and phone number. The OAR is not responsible for any other costs incurred.