



# the radiology report

Volume 1, Issue 4, November 2016

## Program director

### Update

**G**reetings com-RADS!  
I would like to say congratulations and thank you to everyone and our recent successful accreditation. Our discipline was given the preliminary verbal of approval, although the official final report from the Royal College sub-

specialty committee comes out in March.

There are of course many people to thank for this suc-

cess, and to point out each individual would run the risk missing someone! So thank you to the faculty, residents,

site chiefs, clinical chief, and academic chair. And a massive thank you to the administrative staff including Jennifer Collins, Rhonda Marshall and Margie Chafe.



Plenary Session at ICRE 2016

### ICRE

I recently attended the International Conference on Residency Education. Jennifer Collins will also talk about this in her update. This Canadian event is world-renowned conference fo-

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## Message from the Chair

**W**e should be pleased with the academic harvest achieved by our discipline during this fall season, much of which is highlighted below.

The recent Royal College Survey went very well and I believe our program is well positioned for the future. This success can be attributed to our dedicated residency training program director—Dr. Angus Hartery, our academic program adminis-

trator—Ms. Jennifer Collins, academic secretary—Margie Chafe, and the collective effort of our faculty and residents.

Our undergraduate educational involvement continues to grow and the diagnostic imaging research and academic discovery group ("DIRAD") is now ready for action.

There is growing and impressive faculty and resident participation in the academic mandate with too many "stars" to mention individually, but I would like to recognize several busy faculty who have volunteered to take on leadership positions:

UGME Director — *Dr. Wes Chan*

DIRAD Director — *Dr. Jeff Fleming*

Continuing professional education/development director — *Dr. Eric Sala*

Simulation Education Lead—*Dr. Jenny Young*

I am excited that the new nuclear and molecular medicine facility will be operational in early 2017. In addition to providing essential clinical service there will be huge opportunity for research. I would like to welcome four new colleagues who have joined Dr. Ed Kendall as scientific members of

our faculty and discipline:  
Senior Radiopharmacist—*Dr. Doug Abrams*

Radiochemist—*Dr. Vincent Bouvet*

Medical Physicist—*Dr. Bassem Elshahat*

Cyclotron Engineer—*Mr. Julio Panama*

We will provide more information on our scientists and their research aspirations in our next newsletter in 2017.

*An early "Happy Holidays" wish to all!*

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cused on residency education. It is truly a mecca for those interested in post graduate medical education. Every time I attend this, I learn something practical for residency education. In the past, I have attended workshops on developing e-portfolio's, constructing an ITER, and even residency selection.

This year, some of the highlights from the sessions I attended included how to impact one's online professional presence, how to contribute to faculty development, and hands on usage of a variety of tools to contribute to flipping the classroom. There were sessions on social media and education, cultivating an online Twitter account, and social media policy.

By far one of the most interesting aspects of the ICRE is the great showcase for medical education research. I think there's great opportunity locally for us to participate in this avenue of research. In particular, the ICRE is being held next year in Halifax, Nova Scotia. This is a very close locale for those of you interested in attending this conference.

### Simulation Summit

A smaller, but impactful meeting also hosted by the Royal College of Physicians and Surgeons of Canada is the Simulation Summit. This was held in St. John's this year, and was

attended by myself, Dr. Haggood and Dr Young. It was a productive meeting with some very successful networking with other academic radiologists from across the country. We hope to collaborate with our fellow academic radiologists to further advance radiology medical education and simulation. More on this to come, and we are always welcoming new recruits!



*Screenshot from opening plenary speaker TA Loeffler, PhD ; speaking on her experiences in climbing Mt. Everest, and importance of simulation in preparation of our learners.*

## An End of an Era: Best Wishes Rhonda!

Last month our most senior employee in the Radiology academic office, Ms. Rhonda Marshall accepted a new position at the Botanical Gardens at Memorial University after 30 plus years with our discipline. Rhonda leaves extraordinary shoes to fill and a lifetime of service excellence. She has contributed immensely to every facet of the Discipline of Radiology. Rhonda built a rapport of professionalism and friendship amongst her many faculty of medicine colleagues, the DI staff physicians, and

the countless number of residents she encountered during her career.

Rhonda has a passion for gardening and combining that with her vibrant and friendly personality, we are sure she will quickly blossom in her new position at the Botanical Gardens. She will be greatly missed by all. We wish her the very best as she takes on this exciting new step in her career. All the best Rhonda!



# Program Administrator Update

I recently attended the International Conference on Residency Education (ICRE) in Niagara Falls. The ICRE is one of the world's largest conferences devoted only to residency education.

My main goal of attending this year was learning as much as I could about Competence By Design (CBD). CBD is a new process of residency training, assessment and progression, currently being initiated by the Royal College. This process is being rolled out in cohorts and Diagnostic Radiology is set to begin this new form of assessment and programming

in 2019.

While there are still a number of things to learn about CBD, I have summarized some of the highlights from the recent ICRE

- MORE frequent and MORE direct assessment of residents

- EPA stands for Entrustable Professional Activity. EPA's will integrate many milestones. EPA's will result in specific and concrete feedback on specific tasks.

- EPAs will be provided to our program by the Royal College Radiology Specialty Committee.

- Many assessment tools will remain very helpful. i.e., end of rotation exams, daily performance ITERs.

- E-portfolios are online tools for residents to track their progress (not replacing One45). The Royal College is currently developing one for free use .

- CBD will require a Competency Committee. The Competency Committee canNOT be chaired by the Program Director. This committee will meet to review resident progress/e-portfolios regularly.

- E-portfolios will also allow the committee to comment

electronically in advance of the meeting, for further discussion at the meeting. The Competency Committee will refer any major decision to the Residency Program Committee.

- Completion of forms on the e-portfolio by observers will require a lot faculty development.

- Learners evaluations of teachers will also be coming online

I encourage you all to learn more on <http://www.royalcollege.ca/rcsite/cbd/resources/cbd-videos-webinars-e>

## Radiology Resident awarded CSCI-CIHR Resident Research Prize

Each year, the Canadian Society for Clinical Investigation awards up and coming clinical researchers for the best resident research project conducted during a RCPSC/CFPC training program at participating Canadian medical schools. The winning resident, at each school, is presented with a prize that includes:

- \$1,000 per resident in each medical school
- Complimentary CSCI membership for two years
- A certificate signed by the CIHR and CSCI presidents

Funding to support this initiative is provided by participating Canadian medical schools, the Canadian Society for Clinical Investigation and Canadian Institutes of Health Research. The award is presented to the winner by a CSCI member of the faculty. The winner is expected to make a short presentation on some aspect of clinical research. This year, we are pleased to announce that our own PGY 2, Dr. David McComiskey, is the recipient at Memorial University. His supervisor was Dr. Eric Sala and the title of their project is 'Six-Seven Year Follow-up in a Large Negative CT Colonography Screening Cohort.'

Congratulations, Dr. McComiskey and Dr. Sala!

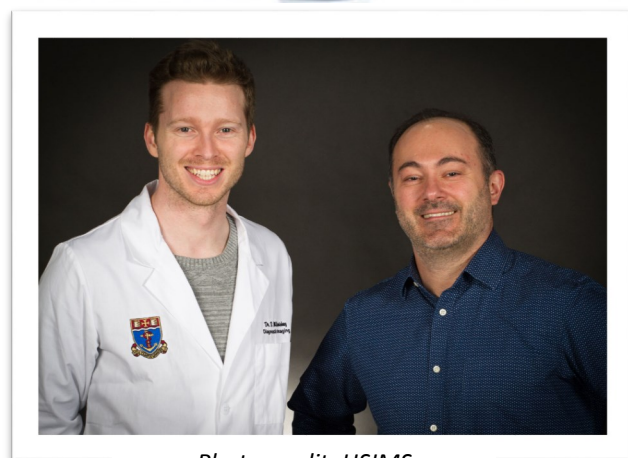


Photo credit: HSIMS



# Welcome New Faculty

The Memorial Discipline of Radiology extends a warm welcome to our new faculty!



Name: Suzanne Byrne, MD, FRCPC

Subspecialty: Thoracic radiology

Residency location: Memorial University of Newfoundland

Fellowship location: Mayo Clinic, Rochester, Minnesota

Teaching and research interests: Thoracic radiology. Most recent publication was *The impact of diagnostic imaging wait times on the prognosis of lung cancer*. Can Assoc Radiol J. 2015 Feb;66(1):53-7. Authors: Byrne SC, Barrett B, Bhatia R.

Photo credit: HSIMS

Name: Fraser Loveys, MD, FRCPC

Subspecialty: Musculoskeletal Radiology

Residency location: Memorial University of Newfoundland

Fellowship location: University of Western Ontario

Teaching and research interests: Musculoskeletal radiology. Most recent publication was *Urinary Bladder Paraganglioma: AIRP Best Cases in Radiologic-Pathologic Correlation*. Radiographics. September-October 2015, Vol 35(5). Authors: Loveys F, Pushpanathan C, Jackman S.



Photo credit: HSIMS



Name: Nicole Hughes MD, FRCPC

Subspecialty: Pediatric Radiology

Residency location: Dalhousie University

Fellowship location: University of California, San Francisco

Teaching and research interests: Fetal imaging, Pediatric body and pediatric musculoskeletal imaging.

Photo credit: HSIMS

# Radiology Residency Research Curriculum

The radiology residency research program has entered a new era. Last month, the Residency Program Committee (RPC) adopted a new research program to help support and streamline the research process. This was conceived of and developed by members of the DIRAD group (Dr. Jeffery Flemming, Dr. Conor Maguire, Dr. Angus Hartery, Dr. Ravi Gullipalli, Dr. Ed Kendal and Michelle Simms), and includes a new research residency program manual document with goals and objectives, a didactic component that will, at the beginning, include 3 online modules to be completed by all of our residents, as well as a new direction for journal club which will include a primary focus on critical appraisal. I feel we have a great

track record in this arena, with some impressive accomplishments since I have come here in just this past year. This program is designed to continue the momentum.

We also have ambition to hold a “Radiology Research Day” in the summer, to allow all residents, medical students, and scientists doing research within the discipline to present their work.

We have recently uncovered a number of faculty resources available to us which should help facilitate research going forward. An important focus of the DIRAD group is to demystify the research process and make it easier for residents, and in turn faculty to take part in new academic discov-

ery. If you have any questions or comments on this issue, please feel free to let me know.

As part of this new approach, myself and the DIRAD group, would like to request that anyone formulating or embarking on a new project to let one of the members know, so that we ensure optimal collaboration and support. Research starts with a question and simply forwarding brief descriptions of such to DIRAD will allow us develop a central bank of potential projects and faculty supervisors for our residents, medical students or other MUN students.

- Dr. Jeffery Flemming

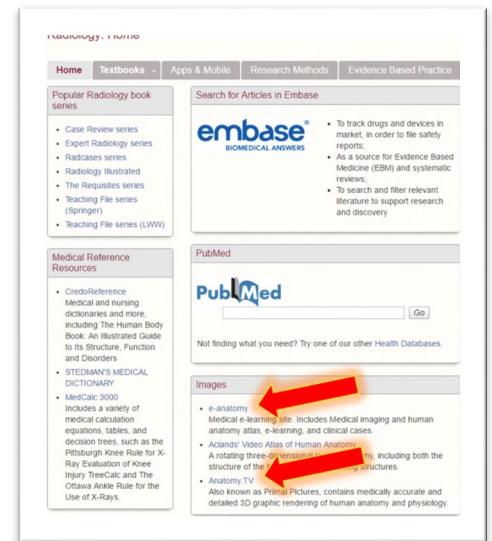
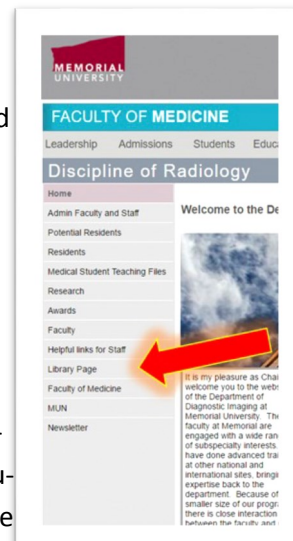
## Discipline of Radiology UGME Update

On the UGME front, things continue to be busy. We are building on the recent successful radiology boot camp held last summer. We are striving to make it even better next year! Special thanks to Nikki, Peter, Anuj, Andrew, Jenny, & Ravi for contributing to this successful event.

In an effort to enhance Anatomy education in our Faculty of Medicine, Undergraduate Medical Education has coordinated with the Health Science Library to provide access to new online subscriptions to educational resources. For our convenience, these links are placed directly on our radiology library website.

The first resource is Anatomy TV which focuses on detailed basic anatomy. It is a very thorough website, involving the ability to use 3D computer generated images of human anatomy. One can ‘dissect’ down through multiple layers to evaluate anatomical structures. It also has a function for linking the anatomy with axial MRI images.

The second subscription is e-anatomy, a resource that our residents are quite familiar with. It is a great resource for detailed radiological anatomy on cross sectional images, in all planes. I encourage anyone teaching anatomy or radiology at the UGME or PGME to make use of these excellent resources.



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# Breast Cancer Awareness Month

October was National Breast Cancer Awareness Month! Screening mammography and breast imagers play an important part in the early detection of breast cancer. Our fellowship trained breast imagers are active on the academic front.

- Congratulations to Dr Mary Beth Bissell and Dr. Lisa Smyth for winning best poster at the Atlantic Radiology Conference held September 30th - October 2 2016. Their poster was titled "*Radiologic Review of Ductal Carcinoma in Situ*". Dr. Smyth is no stranger to the Atlantic Radiology Conference, having presented with Dr. Ning Su the year previous with poster "*Pictorial Review of Inflammatory Breast Cancer*"

- Dr. Bissell is working with Dr. Connie Hapgood and Dr. Nancy Wadden on a research project titled: "*Mammography findings in the post reduction mammoplasty breast: a single center retrospective analysis*". The project is based on theory that the rearrangement of glandular tissue and the development of scar tissue post-breast reduction may make the screening mammogram more difficult to interpret. There are common post-operative changes described in the literature. The study aims to characterize the incidence of these common findings in post reduction mammoplasty to aid



Three Breast Imaging Fellowship Trained Academic Radiologists: Dr. Hapgood, Dr. Smyth, Dr. Wadden.

**MEMORIAL UNIVERSITY**

## Mammography findings post reduction mammoplasty: a retrospective analysis

Bissell MB, Wadden N, Hapgood C  
Department of Diagnostic Radiology, Memorial University of Newfoundland

NLAR  
February 26<sup>th</sup>, 2016, Cornerbrook, NL

radiologists in mammogram interpretation. The authors hope that their findings will help to reduce the number of unnecessary follow up investigations in this patient population and their pictorial essay will aid radiologists in their interpretation of mammograms. Dr. Bissell won the 2016 Dr. Richard Harley Resident Research Award regarding her work on this project.

- Dr. Hapgood has been working with MED IV student Claire Woodworth on a research project recently accepted for publication titled : *Preoperative*

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# International Day of Radiology Celebrates breast Imaging

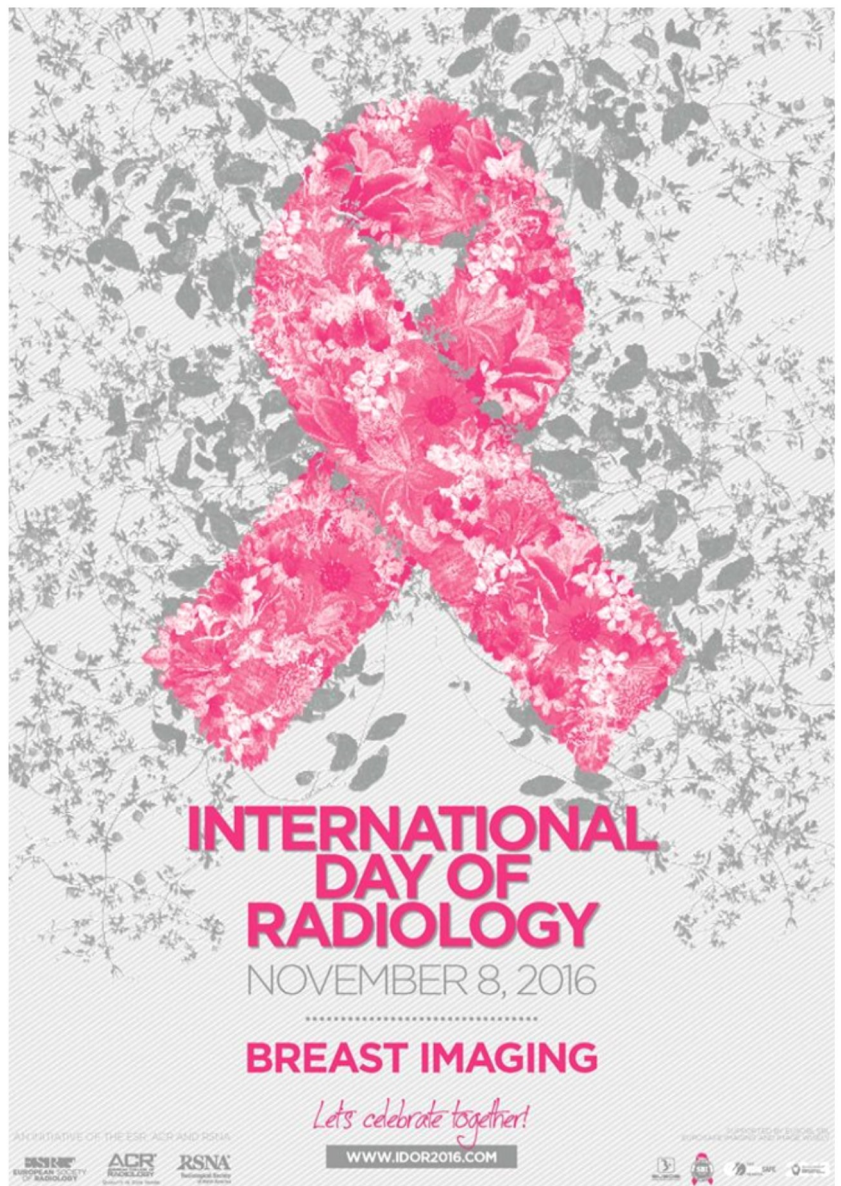
sonographic evaluation of axillary lymph nodes in breast cancer patients; a local experience." The aim of the project was to assess the efficacy of preoperative axillary ultrasound interpretation. Retrospective review of preoperative axillary ultrasounds were compared with final pathology results, evaluating for concordance rates.

-November 8 was the International Day of Radiology . Coincidentally, this year the day was dedicated to breast imaging and the essential role that radiology plays in the detection, diagnosis and management of diseases of the breast.



 **CARadiologists**  
@CARadiologists 

Today [#radiologists](#) around the world are celebrating [#IDoR2016](#) and emphasizing the contributions made by radiology in [#breastcancer](#) care



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In tandem with the introduction of the online anatomy resources, several staff radiologists have graciously volunteered to deliver several first year undergraduate medical school anatomy lectures. Special thanks to Dr. Harris, Dr. Hapgood, Dr. Smyth, Dr. Hartery.

Some of the staff radiologists are also piloting an exciting new initiative in the new year using live ultrasound on standardized patients to teach applied anatomy in phase 3. Along the same lines, a few of us radiologists getting involved in the implementation of point of care ultrasound (POCUS) into the undergraduate curriculum. We are always looking for staff to get involved in these new initiatives!

-Dr. Wes Chan

# Radiology Interest Group Ultrasound Session

The Radiology Interest Group at Memorial University along with Faculty Radiologists hosted a ultrasound workshop on the Saturday of Thanksgiving Holiday weekend. The workshop was chiefly organized by Dr. Gullipalli and RIG president Andrew Fenwick. Dr. Gullipalli coordinated with

Eastern Health personnel to arrange use of the ultrasound machines for 2.5 hour hands on teaching sessions. We were fortunate to have the teaching skills of one of our ultrasound technologists, Tracey Penney volunteered for this event as well as the creative skills of Dr. Skanes and Dr. Young. Dr. Skanes and Dr. Young created jello models from scratch to allow students to practice vascular access and target practice under ultrasound guidance. Dr. Hartery provided an introductory talk regarding basic ultrasound physics, and ultrasound knobology.

There were 4 main stations allowing small groups of students to rotate through:

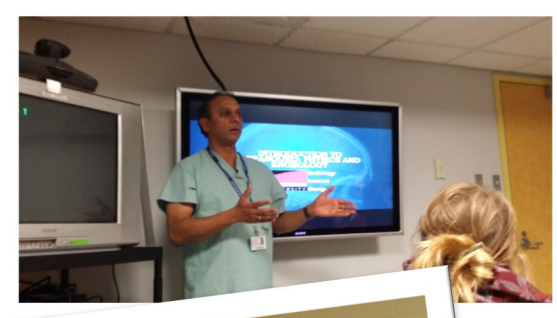
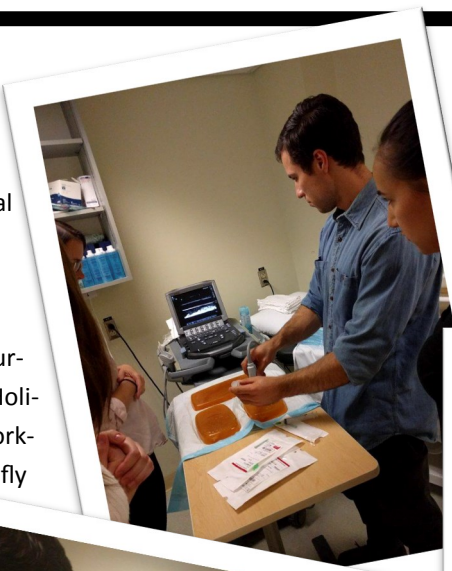
*-General Abdomen* - Student volunteer to be scanned to show the liver, kidneys, gall bladder, spleen, aorta, pancreas – hosted by Dr. Hartery

*-Vascular* - Student volunteer to be scanned upper extremity, lower extremity, neck, with focus on vascular identification, differentiating artery and vein, using doppler, talk about vascular access – hosted by Dr. Gullipalli

*-Vascular Procedures* - Practicing vascular access on jello models – hosted by Dr. Skanes, and in the afternoon, Dr. Smyth

*-Non-vascular Procedures - Target practice* jello models – Hosted by Dr. Young

The event was voluntary and the 52 students signed up for the event through the President of RIG. The workshop was held twice –one morning session and one afternoon session





# Visiting Professor from Mayo Clinic

It was nearly 20 years ago, when Dr. Jeff Fidler had last visited our shores as a presenter at the Annual CMART conference held in St. John's. Dr. Fidler is a renowned Mayo Clinic (Rochester, MN) radiologist, with numerous academic achievements in research and has presented at innumerable radiology conferences. He is currently the section head of Abdominal MRI at the Mayo Clinic.

His return visit to St. John's, from September 21-24<sup>th</sup>, 2016, was long overdue and much appreciated by all. He held several engaging and innovative teaching sessions with our radiology residents, with a host of "cool Mayo cases" from his teaching archives. Our residents performed admirably in the firing line with a special "shout out" going to Dr. Jason Retallick, for his sublime radiologic baptismal performance!

Dr. Fidler also gave three informative presentations on the topics: "CT Evaluation of GI Bleeding", "Hot Topics in MR: 3T and Elastography" and "CT and MR Enterography Evaluation of Crohn's Disease", which were well attended and very informative. Importantly, he was recognized on the 20 year anniversary of

Liver Rounds, as the "Founding Father" of this hallowed institution, by section head, Dr. Denis Hibbs. (See photos). Dr. Fidler truly enjoyed his visit to St John's, and would like to



thank all members of the department for their hospitality and particularly to those who arranged his visit, (especially Rhonda Marshall, and the chairperson, Dr. Maguire). We look forward to his next trip back to the "Rock".

-Dr. Paul Jeon

