



the radiology report

Volume 2, Issue 2, Nov 2022

Program Director Update



Welcome to another issue of the radiology report! I would like to start off by saying thank you to all our faculty and residents for another successful academic year. We have had so many exciting things happen in our discipline, all of which are the results of hard work and dedication by both our fantastic group of residents and our dedicated and engaged faculty and staff.

I would also like to provide you all an update on our residency program, as well as some upcoming events/changes to be expected in the coming months.

Happy reading!

Competence and Promotions Committee (CPC) – Formed July, 2021

The CPC was formed in July, 2021 and serves as a subcommittee of Residency Program Committee (RPC) to address resident promotion. Though this is a requirement for Competence by Design, we also feel it is a usefully committee /process for our traditional stream residents. The mandate of the CPC is to ensure the regular, systematic and transparent review of every Radiology Resident's progression towards achieving competence and completion of the educational requirements of the Royal College of Canada in Diagnostic Radiology. The CPC meets quarterly; membership is below. After a resident is discussed at CPC, the recommendations are brought to the RPC for approval. The resident is made aware via a formal letter of what was discussed, and the outcome/action items from these meetings.

Daily Performance Assessment Cards – A Minimum of 8!

Residents are required to submit a minimum of 8 DPA cards per 4 block rotation. This is to ensure adequate feedback for the residents and rotation supervisors. Anonymized DPA card feedback is sent to the resident, with the non-redacted document forwarded to rotation supervisors to aid in providing mid rotation and end of rotation feed-

(Continued on page 2)

Program Director Update

(Continued from page 1)

back. DPA card feedback is also reviewed by the CPC. We appreciate all and any feedback; it is extremely valuable in assessing and documenting resident performance and volume.

Town Halls – Faculty and Resident

Feedback for our residents and faculty is the backbone of everything within the residency program. It allows our residents and faculty to identify areas of improvement and strengths. Just as important is feedback from our residents and faculty regarding the program administration. The administrative faculty and staff exists to create and run a residency program where residents are successful and both residents and faculty are working together to achieve the goals of both groups.

Last year, we held a resident wellness day which incorporated a Resident Town Hall. Much needed anonymous feedback from our resident group was collected, and provided us with some goals to improve resident well-being and success. More recently, we held our first Faculty Town Hall, where we were able to update faculty on some changes in the residency program, and where we received invaluable feedback from faculty. We plan on continuing both of these town hall style feedback sessions, with the next sessions scheduled for the fall. Stay tuned!

RadExam – Written Exam Prep

In 2021, we implemented an additional written exam for the residents, which now occurs twice a year. This is offered through the American College of Radiology (ACR) but is separate and in addition to the traditional ACR exam. This is predominantly image based, and has been written by hundreds of residents all across North America. This exam not only give us another point of evaluation, but also offers the residents another opportunity to experience the type of exam questions they will find in the written portion of the Royal College examinations.

Rotation Objectives – A Revamp

I am slowing working my way through reorganizing rotation objectives. Some rotation objectives are dated, and some require additions to accommodate new objectives for Competence by Design learners. Based on feedback from residents, the current rotation objectives are often not used by the resident as they are long and sometimes not relevant. I am slowly working my way through the rotations, collaborating with rotation supervisors at all sites. I have started with Breast, Chest and Body rotations. Rotation supervisors - if we haven't chatted yet, I will be reaching out in the near future! Below is a sample of the summary sheet that will replace our current objectives – hopefully a one stop shop for everything a resident (and staff) need to know about each rotation. This is

Discipline Summary																					
BREAST																					
Rotations (4)	Rotation Sites/Supervisors																				
PGY 1 None	St. Clare's Mercy Hospital (SCMH)																				
PGY 2 Breast	Dr. Connie Haggood																				
PGY 3 Breast	chaggood@hotmail.com																				
PGY 4 Breast																					
PGY 5 Breast																					
Expectations																					
Goal	Residents will spend a total of 4 months throughout their residency working in breast imaging and will be expected to develop general competency in all aspects of breast screening and diagnosis. General competency is defined as the ability to interpret screening and diagnostic mammography, breast ultrasound, and breast MRI; to guide clinical colleagues in the correct imaging evaluation of screening patients as well as diagnostic patients with various clinical breast problems; and to have a working knowledge of breast interventional procedures and breast pathologies. The goal of residency training in breast imaging is to be proficient at screening and diagnostic mammography, breast ultrasound, needle localization procedures, and core biopsy techniques, as well as to develop a working knowledge of breast MRI.																				
Minimum Daily Numbers	<table border="1"> <thead> <tr> <th></th> <th>PGY 2</th> <th>PGY 3</th> <th>PGY 4</th> <th>PGY 5</th> </tr> </thead> <tbody> <tr> <td>Mammography</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>US</td> <td colspan="4">Discuss with daily supervisor</td> </tr> <tr> <td>MRI</td> <td colspan="4">Discuss with daily supervisor</td> </tr> </tbody> </table>		PGY 2	PGY 3	PGY 4	PGY 5	Mammography	10	15	20	25	US	Discuss with daily supervisor				MRI	Discuss with daily supervisor			
	PGY 2	PGY 3	PGY 4	PGY 5																	
Mammography	10	15	20	25																	
US	Discuss with daily supervisor																				
MRI	Discuss with daily supervisor																				
Procedures	Needle localization with stereotactic or ultrasound guidance Cyst/abscess aspiration Core needle biopsy of a breast mass with stereotactic, ultrasound and MRI guidance. Fine needle aspiration biopsy of an axillary lymph node Galactogram																				
Multidisciplinary Rounds																					
Radiology/Pathology Correlation	Mondays at 12:30 pm																				
Multidisciplinary Tumor Board	Wednesdays at 8:15 am																				
Duty Hours and Days																					
Monday to Friday, 8:00 am – 5:00 pm																					
Evaluations																					
Mid rotation and end of rotation feedback from rotation supervisor End of rotation exam (pass mark of 70% must be achieved) and ITER DPA and OCA cards required (minimum of 8 DPA cards)																					

Sample of revamped rotations objectives

followed by a short list of detailed CanMeds roles and “Must-see Cases” for the rotation.

Internal Review – Fall 2022

Royal College of physicians and Surgeons Accreditation is quickly approaching, scheduled for the year of 2024. Prior to this, Memorial University schedules an

(Continued on page 3)

Program Director Update

(Continued from page 2)

internal review process to identify any areas of weakness that we can work on prior to the external review. This is fast approaching, and is tentatively scheduled for the fall of 2022. I will be reaching out to faculty and residents for help in this regard. I have already spoken to some of you, and I think you so much for your help! Accreditation is a huge undertaking, with literally 100's of pages of documents to be submitted. In addition, Memorial University and the

Royal College like to have input from all stakeholders, not just from me.

The goal of the accreditation process is in place to ensure residency programs adequately prepare residents to meet the health care needs of their patient population(s), during and upon completion of training. They look at the entire program as a whole in minute details, evaluating things like:

- Teaching
- Call services
- Volume of cases available to the learners

- Feedback for both faculty and residents
- Evaluations
- Administrative support
- Wellness Initiatives
- Intimidation/harassment issues
- Resources available for teaching and evaluation
- Continuing Medical Education and Faculty Development

- Dr. Lisa Smyth

COMPOSITION OF THE COMPETENCE AND PROMOTIONS SUBCOMMITTEE 2021-2023

(AS APPOINTED BY THE PROGRAM DIRECTOR AND ACADEMIC CHAIR)

VOTING	
Chairperson	Dr. Jennifer Young
Competence by Design Lead	Dr. Jennifer Young
External Representative	Dr. Dawn Armstrong
Janeway Site Representative	Dr. Stephanie Jackman
Health Science Site Representative	Dr. Maureen Hogan
St. Clares Site Representative	Dr. Connie Hapgood
Nuclear Medicine Representative	Dr. Mathew Kuruvilla
NONVOTING	
Program Director	Dr. Lisa Smyth
Administrative Staff	Academic Program Administrator Ms. Melissa Dalton Academic Program Assistant Ms. Michelle Penney

Academic Program Administrator Update

First and foremost I would like to say thank you to everyone for being so welcoming as I transition into the Academic Program Administrator role. You are all outstanding, intelligent individuals who I am enjoying to get to know in this role.

I would like to take this time to **welcome our three newest Radiology Residents**, Dr. Kristopher Hoover, Dr. Logan Slade and Dr. Brandon Collins. We look forward to getting to know you all and supporting you through your residency program. You should feel comforted knowing you are joining a great group of residents and you have a wonderful administrative support team behind you as well. Feel free to stop by at any time.

I recently attended the **International Conference on Residency Education** in Montreal. The ICRE is one of the world's largest

conferences devoted only to residency education. This was my first year attending the conference and my main purpose of attending was to learn as much as I could about other radiology disciplines and to network with the other PA's from across the country.

A reminder that **AIRP course** will be a combination of an in-person course, as well as live-streamed. It will be testing this combination format for one year offering three virtual courses and two in-person courses (with one live-streamed). The course will also be held at the AFI Silver Theatre in Silver Spring, MD. Please have a look on the ACR website for upcoming dates. <https://www.acr.org/Lifelong-Learning-and-CME/AIRP/Four-Week-Course#Register>

This year's Radiology **Physics course** was delivered through the online learning

platform "Core Physics Review." This provide 24/7 online access to a comprehensive physics curriculum, and is tailored specifically to the learning needs of radiology residents, providing the necessary tools to master concepts required for the Royal College exam. Each resident is provided with personalized access to over 24 hours of on-demand physics lectures covering a wide range of essential topics including: X-Ray Production, X-Ray Interaction, Image Quality, Radiography, Mammography, Fluoroscopy, CT, Ultrasound, Nuclear Medicine, Radiation Safety, MRI, Artifacts: X-Ray, CT, US, MRI. It has been a notable positive improvement to Physics teaching in our program.

Please feel free to contact me if you have any questions or concerns, our door is always open.

- *Melissa Dalton*



Radiology residents volunteering at a COVID vaccination clinic

Resident Film Contest

Last year, Drs. Young and Smyth hosted a contest between September 1st and December 31st, 2021, where we counted how many plain films each resident reported over that period. The winners were Dr. Allison Kavanagh (junior) and Dr. Claire Woodworth (senior) who were rewarded with the knowledge gained from reporting these films, as well as a night out at Magnum and Steins with their spouses and Drs. Young and Smyth. Congrats to them both!

We look forward to hosting another contest this fall! Prepare to get your CR on!

Summer 2022 Visiting Professor Series

Dr. Adam Hart

Halton HealthCare, Oakville, ON

July 22, 2023

Dr. Hart is a graduate from our Radiology Residency Program in 2015, and is the doppelganger of our dear Dr. Loveys. Dr. Hart went on to pursue a Nuclear Medicine Fellowship at the University of Toronto, and now practices in a community based hospital in Oakville, ON, at the Halton HealthCare Imaging group. Dr. Hart did a didactic lecture with our residents, followed by a combination of Nuclear Medicine and general radiology cases. Thank you Dr. Hart!



lowship supervisors. Dr. Verma had kindly offered to teach our residents this summer, and offered a combination of Breast and Body lectures and cases.

Dr. Stephany Pritchett,



Associate Professor of Radiology, Western University

August 24th, 2022

Dr. Pritchett is a graduate from our residency program in 2013, and is Dr. Smyth's longstanding partner in crime. Dr. Pritchett went on to do a MSK fellowship at McMaster University, and currently practices as a MSK radiologist at

Western University in London, ON. Dr. Pritchett is also a past program director at Western University, and director of the MSK fellowship at Western as well. Dr. Pritchett hosted an Elbow Masterclass for our residents, with a spread of high yield cases.

Dr. Raman Verma

Assistant Professor of Radiology, University of Ottawa

August 4th, 2022

Dr. Verma is a graduate of Memorial University's medical school in the year 2007 (with our esteemed Drs. Young, Arnold and Skanes), and now practices as a Breast and Body Radiologist at the University of Ottawa. He is currently the Residency Program Director at the University of Ottawa as well, and was one of our program directors direct fel-



Our residents also recently experienced two days of teaching and high yield Royal college cases from **Drs. Louis Wu and Jeff Mandlecorn.**

Dr. Wu is a graduate from the University of Toronto currently working in Brampton, Ontario. His speciality is MRI.

Dr. Mandlecorn is a graduate from the University of Toronto currently working in Toronto, Ontario. His speciality is Nuclear Medicine.

Diagnostic SIMaging Update

The Diagnostic SIMaging curriculum is now back in full swing! Our residents recently took part in a procedural skills lab September 2022 in the CLSC with Drs. Skanes and Young. Residents had the opportunity to practice their ultrasound procedural skills on a variety of task trainers and phantoms including: Central line placement, thoracentesis, paracentesis, IV vascular access and small mass FNA. Our department would like to extend a special thank you to Barry Trenchard (CLSC) for helping make this session a continued success!

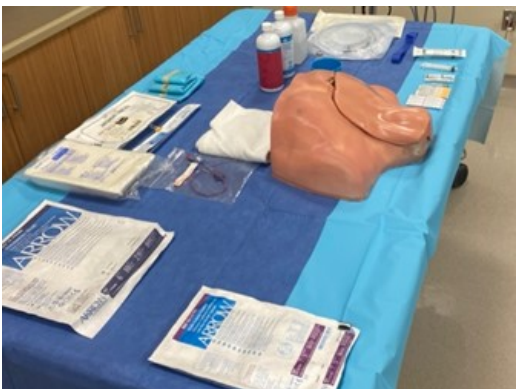
A new interprofessional session was added to our Diagnostic SIMag-

ing curriculum in October 2022 with Drs. Hapgood and Young. An Advanced Radiology Life Support (ARLS) Simulation Scenario was created to manage a contrast reaction in the radiology department. For the first time, radiology residents were paired with our CT/MRI technologists to perform their roles in the assessment and management of a simulated patient having an anaphylactic reaction following an enhanced CT scan. The interprofessional session was very well received by both residents and technologists and provided valuable feedback to help improve the management of contrast reactions in our department. We extend a big thank you to Nikita Strickland

(CLSC) for helping coordinate this scenario and also a big shout out to our phenomenal standardized patient who truly brought this scenario to life!

Plans for upcoming Diagnostic SIMaging sessions include: Ultrasound guided solid organ biopsies/drainages, MSK radiology, Lung biopsies, Communication in Radiology and Consent/Disclosure. I am continually looking for new scenarios and ideas for our Diagnostic SIMaging curriculum. Please reach out if you would like to get involved!

-Dr. Jenny Young



Program Director of the Year Nomination

A big congratulations is due to our fearless leader, Dr. Lisa Smyth, on her nomination for the Royal College 2022 Program Director of the Year award. While she didn't take home the prize, it is a huge honour to be nominated, and speaks to the impact she has on those around her. Both residents and staff sent in letters supporting her nomination. Some key excerpts from these letters of support are shared here:

"[Dr. Smyth] has a true open door policy, and makes every resident feel that she has all the time in the world for them. "

"[Dr. Smyth] is a mentor for her radiology colleagues. Her work ethic, professionalism and determination makes me want to strive for greater things. Her positive attitude is infectious."

Some of the many positive changes she's made during her tenure

involve overseeing a major renovation of the St. Clare's reading room, introducing town halls with the residents, and making improvements to our graduated call system.

There have been some challenges. Who would have thought we'd have to deal with a global pandemic, a major cyberattack, and saying goodbye to Jennifer Collins, a touchstone of the department, all within such a short timeframe? Somehow, Dr. Smyth has taken this all in stride. During the pandemic, she organized and supervised vaccine clinics with the residents. And despite COVID restrictions, she gave Jennifer a lovely sendoff. We can think of nobody who deserves this nomination more.

Thank you Dr. Smyth for all that you do!

-Dr. Danielle McNicholas

Radiology Resident Retreat

The first Annual Radiology Resident retreat took place this October and was a huge success! The day started out at Dr. Young's cabin, where residents took place in a hilarious video scavenger hunt, followed by fun on the pond, (even on that chilly fall day) and a delicious barbecue. The team then relocated to the Doctor's house in beautiful Green's Harbour for the rest of the retreat. The residents took in some excellent lectures on community radiology and ergonomics in the workplace. Then the residents, Drs Smyth and Young, and our administrative team Michelle, Melissa, and Karen gathered for a meal together, followed by some fun games and prizes by the woodstove at one of the cabins. The residents had a great night socializing and sat down together for breakfast the next morning before going their separate ways. On a post retreat survey, 92% of attendees said they thought the retreat would improve their residency experience, and 100% of attendees said they would recommend this retreat to future residents. Here is some feedback from the residents:

"Great mix of fun, collegiality building exercises and wellness activities",

"Able to get to know the other residents better, increased camaraderie, good team building".

"Created a deeper appreciation for my co-residents."

"Feel that staff care about us and feel supported by the program"

"Will improve my personal wellness by reconnecting me with my coresidents and also the essence of this discipline. Sometimes you lose sight of both with the day to day pressures we experience at work and during our residency"

Overall, the first wellness retreat was a great success! The residents are feeling happy and refreshed and already looking forward to next year. Thank you very much to the generous staff who made this possible!

-Dr. Sarah Hogan



CBD Update: Transition to Discipline Refresher

After many years of preparation and planning, Competence by Design (CBD) officially launched in Diagnostic Radiology on July 1, 2022! Our program would like to extend a warm welcome to our first CBD cohort: Logan, Kris and Brandon.



During their first 8 blocks, they will be completing rotations in the first stage of learning called the "Transition to Discipline" Stage. This stage consists of 7 off-service rotations and 1 radiology rotation. During this stage, residents are expected to demonstrate competence in 6 Entrustable Professional Activities (EPAs):

Transition to Discipline Diagnostic Radiology		MEMORIAL UNIVERSITY
1. Navigating information systems used in Diagnostic Radiology	• 2 Achievement (Staff/Core/TTP)	□ □
2. Using the dictation system	• 1 Achievement (Staff)	□
3. Recognizing normal anatomy in radiography and CT imaging	• 7 Achievement (Staff/Core/TTP)	□ □ □ □ □ □ □
4. Identifying and assessing unstable patients, providing initial management, and obtaining help	• 5 Achievement (Staff/Core/TTP)	□ □ □ □ □
5. Assessing patients with common medical or surgical presentations	• 7 Achievement (Staff/Core/TTP)	□ □ □ □ □ □ □
6. Working effectively as a member of the interprofessional team	• 3 Achievement (Any Health Care Team Member)	□ □ □

Our CBD residents will be asking their staff supervisors and senior residents for EPA assessments/feedback during daily radiology review sessions or on-call encounters. These EPA assessments must be documented and submitted through MUNCAT.

Menu Observation

Milestones:
Part A: Dictation system
A

M Score:
Lots of assistance No Assistance Expert

Ottawa Score:
I had to do I had to walk them through I needed to prompt I needed to be there just in case I didn't need to be there

Bold Milestones:
Use the dictation system to generate, edit and issue a report
COM 5.1

Not Observed In Progress Achieved

EPA assessments are designed to reflect where a learner is on the spectrum of achieving a defined skill/EPA. For instance, a learner who is learning a skill or performing a task for the first time is expected to require a lot of assistance in completing that task. This would be documented as the Ottawa Score Entrustability Scale of "I had to do."

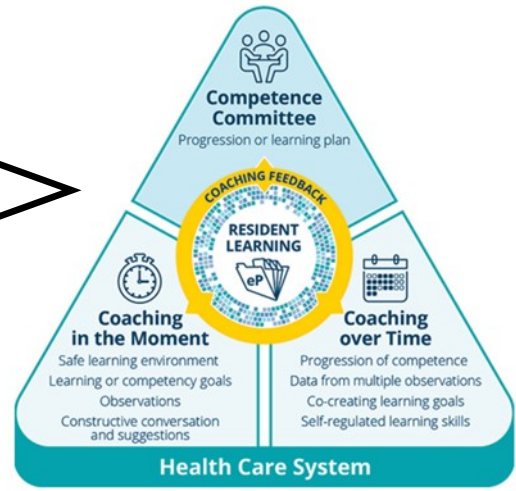
O-SCORE Entrustability Scale	
Level	Descriptor
1	"I had to do" i.e., requires complete hands on guidance, did not do, or was not given the opportunity to do
2	"I had to talk them through" i.e., able to perform tasks but requires constant direction
3	"I had to prompt them from time to time" i.e., demonstrates some independence, but requires intermittent direction
4	"I needed to be in the room just in case" i.e., independence but unaware of risks and still requires supervision for safe practice
5	"I did not need to be there" i.e., complete independence, understands risks and performs safely, practice ready

Goffon WT, Dudek NL, Wood TL, Balax F, Hamstra SJ. The Ottawa surgical competency operating room evaluation (O-SCORE): a tool to assess surgical competence. Acad Med. 2012;87(10):1401-7. http://journals.lww.com/academicmedicine/FullText/2012/10000/The_Ottawa_Surgical_Competency_Operating_Room_24.aspx Reproduced with permission of the authors.

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. Royal College of Physicians and Surgeons of Canada, 2017. www.royalcollege.ca/cbd

CBD Update: Transition to Discipline Refresher

Mastering these new skills takes repetition and time, and CBD places a strong emphasis on coaching the learner. Not only is it important to let the learner know their strengths, but also their weaknesses, so they can concentrate on improving in that area for future encounters.



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. Royal College of Physicians and Surgeons of Canada, 2017. www.royalcollege.ca/cbd

All EPA documentation and feedback will be reviewed by the Competence and Promotions Committee to ensure each resident is meeting the required EPAs prior to promotion to the next stage of learning, called Foundations (7 Blocks). During the Foundations block, there are a new set of EPAs CBD residents will be required to complete.

Foundations Diagnostic Radiology		MEMORIAL UNIVERSITY
1. Recognizing normal radiologic anatomy and its variants	• 12 Achievements (Staff/Core/TTP)	○○○○○○○○○○○○○○
2. Acquiring standard images using ultrasonography	• 10 Achievements (Staff and Sonographer)	○○○○○○○○○○○○
3. Protocolling requests for imaging for patients with acute/common presentations	• 5 Achievements (Staff)	○○○○○
4. Applying a systematic search pattern to the analysis of medical imaging studies	• 10 Achievements (Staff/Core/TTP)	○○○○○○○○○○○○
5. Detecting acute and/or common abnormalities on imaging studies	• 20 Achievements (Staff/Core/TTP)	○○○○○○○○○○○○○○○○○○○○
6. Generating a differential diagnosis for patients with acute or common findings	• 16 Achievements (Staff/Core/TTP)	○○○○○○○○○○○○○○○○
7. Communicating critical findings of medical imaging studies	• 3 Achievements (Staff)	○○○
8. Providing reports for acute and/or common findings of medical imaging studies	• 12 Achievements (Staff/Core/TTP)	○○○○○○○○○○○○○○

Our CBD residents will be rotating through introductory radiology rotations during this stage including: Emergency Radiology, Body, Neuroradiology, Ultrasound, Chest, MSK and a new Foundations of Radiology block. This new Foundations block has been implemented to allow learners to work closely with our imaging technologists to learn how images are acquired to help foster a supportive and collaborative work environment. Stay tuned for our next “CBD Update” which will be held in the HSC Teaching room with virtual access via Microsoft Teams to learn more about our upcoming Foundations Stage and preview to the Core stage.

-Dr. Jenny Young

What is Competence By Design (a refresher)

Competence by Design (CBD) is the Royal College of Physicians and Surgeons of Canada's major change initiative to reform the training of medical specialists in Canada. It is based on a global movement known as Competency-based medical education (CBME), and is led by the medical education community. The objective of CBD is to ensure physicians graduate with the competencies required to meet local health needs. It aims to enhance patient care by improving learning and assessment in residency. —*Dr. Jenny Young*



Stages of Training: The Royal College Specialty Committees organize each specialty program into four distinct stages of training.



Clear learning objectives: Within each stage of training, residents are provided with a list of learning objectives called Entrustable Professional Activities (EPAs) and milestones, based on the CanMEDS 2015 framework.



Residents observed: The resident must be observed completing each EPA. This allows for coaching and feedback opportunities to guide learning.



Committee Review: At regular intervals during each stage of training, a competence committee reviews the documented observations along with other assessment data in the electronic portfolio and provides the recommendation to the Residency Training Committee on the resident's progression to the next stage of training. Any gaps in learning are identified and addressed prior to progressing to the next stage.



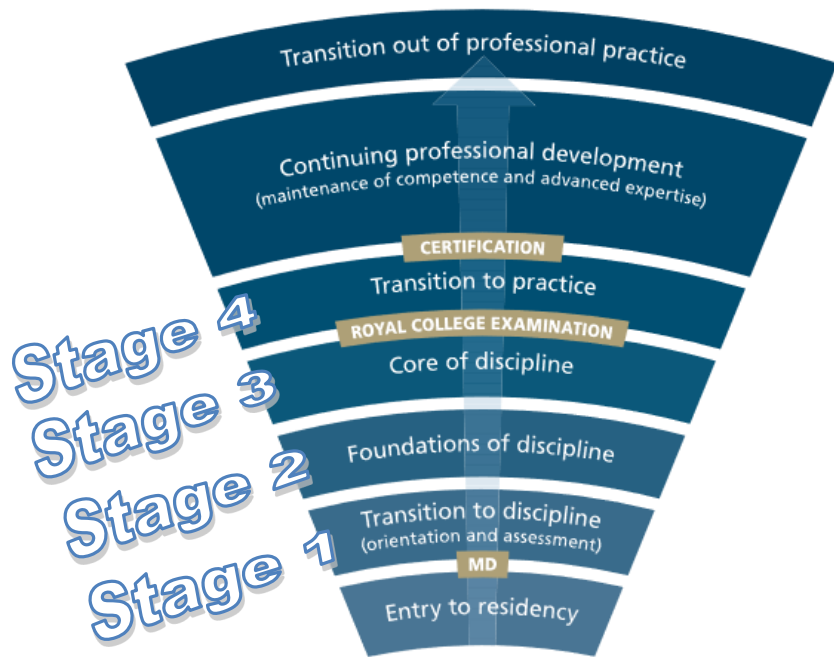
Progress to next stage: The residence will progress to the next stage to tackle a new set of competencies or EPAs. Resident progress is assessed at all four stages of training, before being permitted to progress to the next stage. The Royal College exam becomes only one of many assessment points. Under CBD, specialty committees have the flexibility to move the Royal College exam to the end of stage three, to allow residents to focus on the transition to practice stage.



CanMEDS 2015

Competence by Design

CBD^{1,2} Competence Continuum



¹ Competence by Design (CBD)

² Milestones at each stage describe terminal competencies

Welcome incoming Residents!



Dr. Brandon Collins

Hello everyone!

I am very happy to be one of the new Radiology residents. I was born and raised in Lewisporte, NL before moving into St. John's to attend MUN. I have completed all of my schooling at MUN where I finished an undergraduate and master's degree in Kinesiology and my medical degree. My current research interests are understanding how COVID-19 affected our healthcare system, specifically by examining how the use of imaging changed during the lockdowns. Outside of work I enjoy being active, whether that be playing sports such as hockey, or going for a walk/hike outside. Here in Newfoundland, we are blessed with some of the nicest outdoor scenery and hiking trails. Overall, I am very excited to be apart of the MUN radiology team and look forward to the next 5 years!

Dr. Kris Hoover

Hi everyone!

I spent my early years living in Edmonton, Alberta. I moved to Newfoundland as a teenager and it has been my home ever since. I completed both my Bachelor of Electrical Engineering and Medical School at MUN, and am extremely excited to be continuing my training here! My previous research activities in radiology have involved studying new sequences for cardiac MR and the area of MR for high risk breast cancer screening. My research interests more broadly apply to anything involving the technologies used in radiology and radiology education. Outside of my academic career I enjoy a variety of outdoor activities like cycling, skiing, kayaking, and rock climbing.



Welcome incoming Residents!



Dr. Logan Slade

I am a born and raised townie! I have completed both my undergraduate degree (Bachelor of Kinesiology), and medical degree here at Memorial. I am looking forward to meeting, and working with everyone over the next five years.

My current research interests centre around equity, diversity, and inclusion (EDI) in radiology. I have a project in mind if there are any staff members looking to supervise a resident research project in this area. I have also been working on a breast imaging project with Dr. Martin and Dr. Smyth.

Outside of medicine/radiology, I enjoy being physically active, and travelling. I was a competitive swimmer with the St. John's Legends, and MUN Sea-Hawks in a previous life however, I am now focusing on hiking the entire East Coast Trail!

I look forward to meeting everyone.

CAR Leadership Winner

The CAR extended an invitation for residents in the Atlantic Provinces to complete an essay on the future of leadership in Radiology, with the prize being sponsorship to attend the CAR 2022 Annual scientific meeting and the ACR 2022 Annual conference.

With the support of our program, I was chosen and was sponsored to attend the CAR meeting, which ultimately was held virtually due to COVID, and the ACR conference in Washington, DC.



The trip to Washington was an opportunity to network with resident leaders across the United States, as well as with the CAR CEO, Past president and Resident and Fellow section members.

It was an amazing opportunity for education and professional growth and I thank Dr. Smyth and everyone else in the program who supported my application.

- Dr. Allison Kavanagh

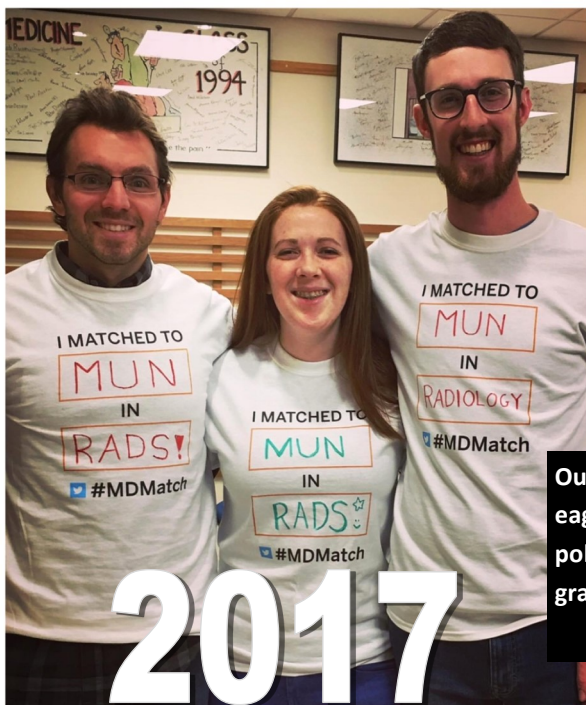
Snapshots



Radiology resident social at the JAG hotel



The retirement party of former APA extraordinary, Jennifer Collins



Our recent PGY5 graduates. From eager matched medical students in to polished successful Royal College graduates.



Research Update



Dr. Hapgood receiving her Master's of Education Postsecondary studies awarded Aug 2021 from Memorial

I am so excited to be Memorial's Clinical Research Director for the Discipline of Radiology. Until I took on this role in Jan 2022, I had no idea how actively our discipline participates in research and other scholarly activities. We have many faculty, residents and medical learners who have completed and continue to take part in many research endeavors. It has been a busy year developing a research curriculum that attempts to provide a resource tool for our residents. Our academic half day in July introduced this curriculum to the residents. Memorial University has developed several online research learning modules that will soon be launched that will also help guide all learners through their research journey. A big congrats to Dr. Sarah Hogan on winning this years RSNA resident research award! The Radiology Annual Research Forum will be held on Dec 7 which will showcase our discipline's research activities.

-Dr. Connie Hapgood

Radiology Year End Award Winners

Congratulations to this years winners for our local discipline awards! With so many hard working and deserving individuals it can be hard to recognize a select few!

Dr. Benvon Cramer Leadership Award – *Dr. Mark Hayward*

Dr. Spencer Bridger Viewbox Teaching Award – *Dr. Jeff Flemming*

Best Academic Half Day Award – *Dr. Rick Bhatia*

Undergraduate Resident Teaching Award – *Dr. Allison Kavanagh*

Postgraduate Resident Teaching Award – *Dr. Brian O'Meara*

RSNA Roentgen Resident/Fellow Research Award – *Dr. Sarah Hogan*

Medical Student Radiology Elective

The medical student radiology elective has undergone recent changes in the last while.

In particular the online component to the radiology elective was released January 2021 on Memorial University's online learning platform, Brightspace. This was released January 2021 to support the virtual elective component during the OVID-19 outbreak. At the time radiology was one of the first specialties to pivot. There was one other specialty with an online virtual component at that time to support virtual electives. This resulted in great demand at the time for our online elective. The utilization of the virtual component has persisted to ensure our radiology rotation has a **structured curriculum ensuring consistent exposure to a collection of learning materials and topics.**

It is divided into eight modules as follows

Section 1: *What Is Radiology?*

Section 2: *Introduction to Radiation Physics and Protection*

section 3: *Requisition and Appropriateness*

Section 4: *Imaging and Modalities*

Section 5: *Approach to Chest X-Ray*

Section 6: *Approach to Abdominal*

Imaging

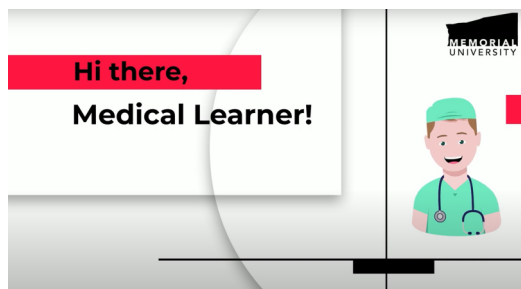
Section 8: *Final Review*

Each section contains a variety of resources including journal articles, pretests and post-tests, links to online learning resources, flashcards and videos.

Since initial rollout generate 2021, 68 students have participated in our online elective.

Initially students are emailed instructions at the beginning of the elective including this introductory video.

<https://youtu.be/3tZnVaQxXWI>



Screenshot from Elective Intro Video

Objectives of the elective include:

- 1. Understand the impact of communicating appropriate histories to the radiologist**
- 2. Understand how differing image modalities are acquired (especially in terms of personnel, expertise and patient time)**
- 3. Understand the impact of ordering appropriate versus inappropriate consults**

4. A basic understanding on how to review radiographs

5. See common emergent pathology on imaging modalities and it is communicated to the referring physician

As can be seen from the objectives, it has always been my intention have a strong focus on appropriate histories, imaging appropriateness, as well as clarifying basic concepts of radiation protection and contrast risks. **There is some focus on image interpretation for the students but it is encouraged that the best image interpretation occurs with an appropriate consultation and relevant history.**

Evaluations are based on a minimum number of daily performance assessment cards in combination with completion of the online component. Students are also given the option to learn in other ways and be evaluated in

additional methods. Examples include submitting a case presentation from during your elective focusing not just on image interpretation but the impact of relevant history.

The online component in combination with the student shadowing has proven to be very well received. Students consistently state faculty and residents have been very accessible. They consistently state our

(Continued on page 16)

Medical Student Radiology Elective

(Continued from page 15)

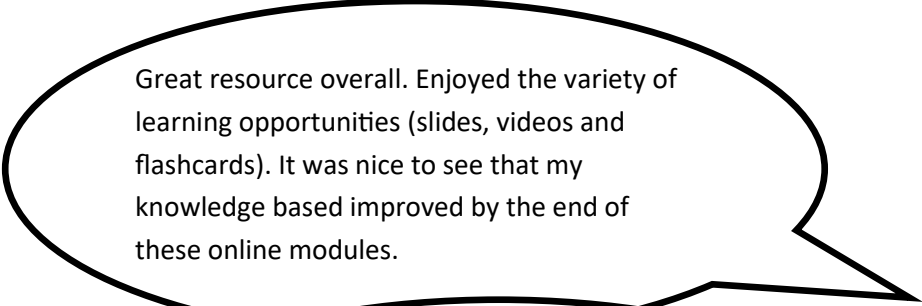
residents are excellent teachers and a pleasure to be around. As always this makes me proud of our discipline, strong faculty, and incredible residents.

Anonymous Surveys are provided after the end of each section. Overall feedback has been very positive (see right margin).

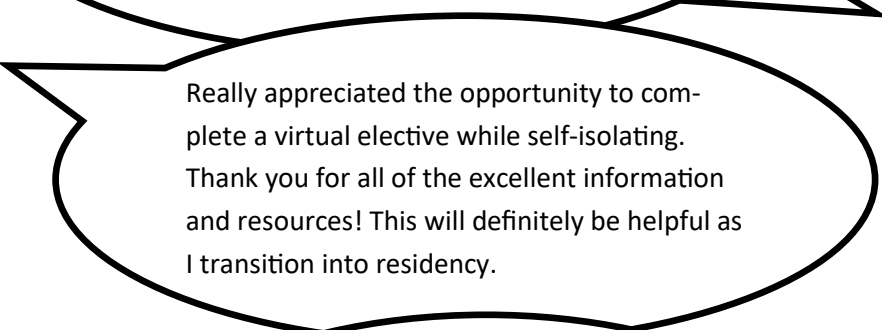
If any of you wish to view the content, or if you have content that would contribute to the already established sections, please reach out.

I will end this article by stating that virtual component aside, the most integral component of our elective is our teachers. And I personally ask every student who sits with me on this elective how they find their experience. I'm very proud of the friendly demeanour, accessibility, and knowledge of our residents and faculty that is consistently brought up. I've always been a big proponent of having structured online curriculum. But I'm very aware that the success of any learning environment is dependent on the interpersonal teaching and I'm very grateful to all of you for contributing to this successful endeavour.

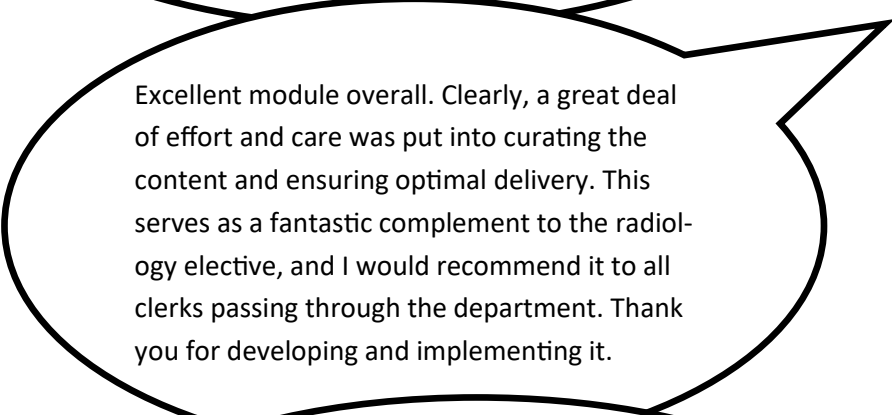
- Dr. Angus Hartery



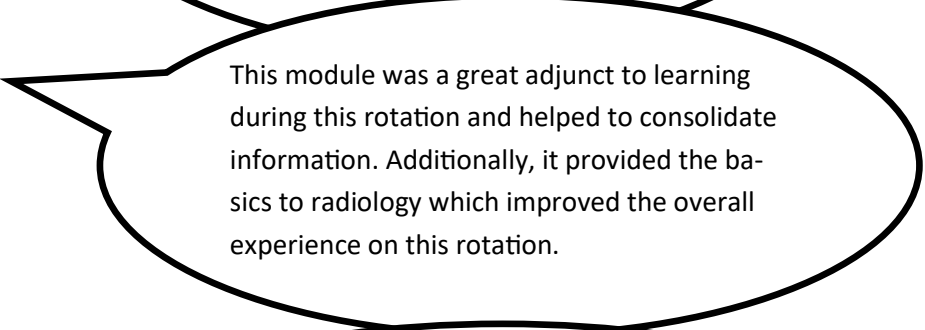
Great resource overall. Enjoyed the variety of learning opportunities (slides, videos and flashcards). It was nice to see that my knowledge based improved by the end of these online modules.



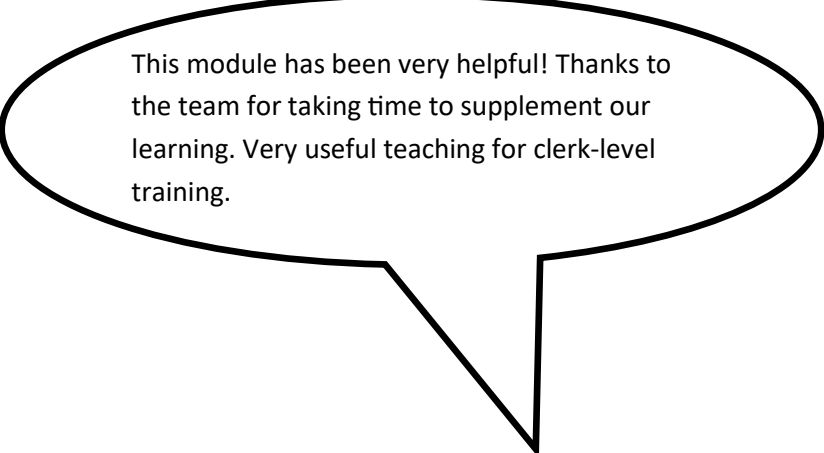
Really appreciated the opportunity to complete a virtual elective while self-isolating. Thank you for all of the excellent information and resources! This will definitely be helpful as I transition into residency.



Excellent module overall. Clearly, a great deal of effort and care was put into curating the content and ensuring optimal delivery. This serves as a fantastic complement to the radiology elective, and I would recommend it to all clerks passing through the department. Thank you for developing and implementing it.



This module was a great adjunct to learning during this rotation and helped to consolidate information. Additionally, it provided the basics to radiology which improved the overall experience on this rotation.



This module has been very helpful! Thanks to the team for taking time to supplement our learning. Very useful teaching for clerk-level training.