

ANNUAL REPORT 2021



Canadian Association of Radiologists
L'Association canadienne des radiologistes

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L'Association canadienne des radiologistes
Rapport annuel 2021

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The past year has been challenging for the radiology community.

The ongoing pandemic continues to impact wait times for medical imaging for Canadians. This is troubling for patients who were already waiting longer than they should for medical imaging procedures. With enhanced safety protocols put into place radiology services resumed across the country. However, the initial postponement of imaging further exacerbated wait times, bringing medical imaging delays to an all-time high. The radiology community reacted quickly, and our Board of Directors and members mobilized to publish guidelines and issue recommendations and position papers for the resumption of radiology services in Canada. Radiologists demonstrated leadership and resilience.

The CAR is proud of the work of our members, and we will continue to advocate for enhanced imaging care for patients in Canada.



About the Canadian Association of Radiologists

The Canadian Association of Radiologists (CAR) is the national voice of radiologists in Canada, dedicated to imaging excellence and advocating for the highest standard of patient care across the country. The CAR is a recognized leader in education, research, and innovation in radiology. The CAR is focused on providing world-class resources that empower our members to be more successful in their profession.

CAR Mission and Vision

Mission

To be the national voice for medical imaging excellence in patient care.

Vision

1. The CAR is the **national authority and voice of radiologists** speaking to the federal government, industry, provincial and international radiology organizations, and other specialty societies on matters of radiology training, research, workforce, licensing, accreditation, standards and future trends in radiology.
2. The CAR is a strong organization with universal membership providing a **unified, guiding, respected voice for all Canadian radiologists** and the practice of radiology in Canada.
3. Emphasizing appropriate, safe and cost-efficient quality care, the CAR is the **preferred source of best practice information for radiologists, government, industry, healthcare authorities and the public**. The CAR actively disseminates best practices by creating and maintaining guidelines, standards and promoting continuing education for radiologists, other physicians, healthcare workers, healthcare policy makers and the public.

Board of Directors (2020-2021)

Executive of the CAR Board of Directors



Dr. Gilles Soulez,
President (QC)



Dr. Michael Barry,
Past President (NB)



Dr. Ania Kielar,
Vice President (ON)



Dr. Alison Harris,
Secretary -
Treasurer (BC)



Dr. Carolyn Flegg,
Board Chair (SK)

CAR Board of Directors



Dr. William Anderson
(AB)



Dr. Pierre Bourgouin
(QC)



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Chankowsky (QC)



Dr. Jessica Dobson,
Resident
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(NB)



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Rawson, ACR
Representative (MA)



Dr. Heidi Schmidt
(ON)



Dr. Carlos Torres
(ON)



Dr. Sheldon Wiebe
(SK)

Canadian Association of Radiologists' Five Pillars of Success

To articulate the definition of a strategy, the CAR has identified five member-centred core areas of focus, or Pillars of Success, for the next five years:

1. Advocacy
2. Education
3. Patient Care
4. Research & Innovation
5. Engagement

President's Message



The pandemic has presented many challenges for the radiology community. COVID has not only changed our practices but also added to the extensive waitlists experienced by patients for medical imaging. Even with procedures returning to more than 80% capacity in most jurisdictions, pandemic protocols, while necessary, have added to the time it takes to complete medical imaging tests. The shortage of health human resources is another significant factor limiting our productivity across the country. As a result, patients are now waiting even longer than before the pandemic, creating a desperate situation for imaging in Canada. Under the leadership of the Board of Directors, the CAR has demonstrated resiliency and leadership during this difficult time, emerging stronger as one of the leading specialty societies in the pandemic response.

Operating in a Pandemic Environment – Resilience of Radiology and Radiologists our members

In response to the pandemic, the CAR shifted its efforts to focus on providing enhanced member value through online resources. We ramped up our guidelines and took on new projects including the development of a **Lung Screening Program**, education on **Abnormal Call Rates for Breast Imaging**, and the development of the **Canadian Referral Guidelines**. While these projects are ongoing, we have made excellent progress. In addition, we shifted most of our education to be virtual. In 2021 we had an extremely successful virtual **Annual Scientific Meeting, welcoming over 700 participants**. We amplified our offerings on RAD Academy, the CAR's learning management system, and delivered a series of webinars for members focused on radiology. We also moved the CAR's **Mammography Accreditation Program** online. The ASM in 2022 is taking place from April 7-10th. This meeting will be again virtual given the uncertainty of the pandemic and our desire to safeguard participants.

The CARJ continues to flourish under Dr. Patlas' (Editor-in-Chief) leadership. The number and quality of submissions to the journal continue to grow and the impact factor has increased by 30%.

We also acted in an advisory capacity to the federal government to help with the management of medical imaging during this trying time.

Advocating for a Further \$1.5 Billion Federal Investment in Medical Imaging

A \$1.5 billion investment in medical imaging equipment and health human resources is at the forefront of our priorities. A survey conducted in the summer of 2021 indicated that the greatest obstacle for radiologists to reduce the backlog for medical imaging is health human resources. During the 2021 Election, the Federal government announced its commitment to invest an additional \$5 billion to the provinces to help with the reduction of wait times. MRI was referenced as one of the key areas of expenditure. We have capitalized on this promise and have met with MPs in charge of healthcare or finance portfolios for all political parties, as well as the Minister of Finance and Health's offices advocating for a portion of this money to be invested in medical imaging. Advocacy has never been more important. Without these investments to help provincial governments invest in medical imaging, we are facing a national crisis, particularly as the population continues to age.

Enhanced Partnerships

We continue to work with our provincial counterparts across the country to raise awareness for radiologists and the importance of medical imaging in Canada. We have expanded on our existing partnerships and have led several successful campaigns including **Breast Cancer Awareness, MRT Week and International Day of Radiology**. The coverage on social media was extensive. It is initiatives such as these that help to define the value that medical imaging can bring to the healthcare system as well as raise awareness for our role in providing lifesaving patient care. We are also in discussion with the **Canadian Heads of Academic Radiology** to increase our collaboration to further improve our educational and research portfolios. Thanks to the leadership of Dr. Jessica Dobson, Resident and Fellow Section Chair, we are providing high caliber educational content and mentoring opportunities to our trainees. We have made significant effort to train and engage medical students through the CAR Medical Student Network to attract the best to our speciality and to help educate our future referring professionals to order imaging for patients that is relevant.

Recognizing our Members

With the support of our members and a dedicated team of staff and volunteers, I believe we have emerged stronger than ever before. The work that we continue to do in improving patient care is first class. The commitment that radiologists have demonstrated is recognized not only in Canada but internationally.

Special acknowledgement goes out to our Board of Directors who have done an amazing job in representing their peers and for being the voice of radiology in Canada. Shout out to Dr. Ania Kielar, CAR Vice President, and Dr. Mike Barry, CAR Past President, who have presented themselves in such a professional manner through our advocacy efforts and paved the way for this good work to continue. A big welcome to Dr. Alison Harris, who is the previous President of the BCRS and a great addition to the board team.

Our focus on advocacy, education, guideline development and building strong partnerships in the medical community is what continues to help the CAR position radiology and radiologists at the forefront of patient care. We can only go up from here. I am predicting many positive developments on the horizon for 2022. I personally have enjoyed the ride so far and am impressed by the high level of expertise and dedication of radiologists across the country during these difficult times. I am looking forward to another stellar year of growth and development for our radiology community with the CAR.

As always, we could not do what we do without our members, and we are grateful for their continued support. Their engagement across the country to shape a collaborative and synergistic vision to advance radiology is necessary now more than ever. We will start the new strategic planning for 2023-2027 in September 2022. Member feedback and engagement will be instrumental in helping the CAR define our priorities over the next five years.

Dr. Gilles Soulez
President
Canadian Association of Radiologists

Message from the Chief Executive Officer



Dear CAR Members,

It is a pleasure serving you as the CEO of the Canadian Association of Radiologists. Over the last six years I have had the opportunity to meet radiologists across the country and to fully understand the impact that our members are making on healthcare. Under the leadership of the CAR Board of Directors, we will continue to advocate for a federal investment in medical imaging for Canadians and the necessary health human resources to support patients. We are committed to serving our members and working diligently to offer relevant resources and services to make them even more successful in their practices. The pandemic has had a tremendous impact on all our members, resulting in burnout and radiologists are feeling stressed out with the current demand for medical imaging. We understand and are here to support you.

Seen More, Heard More and Better Understood – Advocacy

2021 was an exceptional year for the CAR. Through the hard work of our members and Board of Directors, we are closer than ever to securing an investment in medical imaging equipment. Our ask of \$1.5 billion investment will help to properly serve patients imaging needs in Canada. [The Value of Radiology, Part II report](#), released in June 2019, laid the foundation for the advocacy efforts. We have since published three [pre-budget submissions](#) calling on the federal government to address medical imaging wait times in Canada. The pandemic presented many challenges for the radiology community at large. With the number of medical imaging procedures being reduced in the initial phase of the pandemic and with the additional COVID safety protocols, we have had to play catch up and work even harder to respond to the added backlog.

The radiology community has demonstrated perseverance and resiliency. We are indebted to many of our members who stepped up to take a leadership role in developing evidence-based guidelines for the management of COVID-19 and advocacy for the resumption of radiology services and management of wait list in Canada.

Virtual Education Continues to Flourish

RAD Academy, the CAR's learning management system, continues to gain in popularity and serve as a key source for radiology education. Access to relevant and practical radiology eLearning remains at the forefront of the CAR's education content development. Since its launch in the fall of 2018, education offerings on RAD Academy have increased by 150%, offering more than 130 online learning (eLearning) opportunities. Engagement continues to grow as more members discover and explore the platform.

2021 was a pivotal year for our Annual Scientific Meeting. Going exclusively virtual, we were able to increase our conference attendance to **700 participants**. For 2022 we are excited to deliver another virtual event, complete with over 50 in-depth, accredited sessions for radiologists and trainees. We are looking forward to being back in person in 2023, when it is safe to do so and having the opportunity to connect with our members, something we and the radiology community have been desperately seeking.

Putting Canadians at the Centre of Care

At the heart of medical imaging is patient care. Our members are fully committed to caring for Canadians throughout their patient journey. From our advocacy to Members of Parliament and senior policy staff to the creation of multiple clinical practice guidelines, patient care is a key pillar of the CAR. It is a tribute to the CAR Board of Directors, our Affiliate Societies and our radiology volunteers who make this possible. Their commitment to patients and passion for medical imaging is evident in the work they do.

Engagement among our members is what the CAR strives for. We work for radiologists across Canada. Our principal objective is to offer relevant resources and services for our members to be as successful as possible in their practices. The CAR also focuses on raising awareness for the role of radiologists and increasing visibility for the value of radiology in Canada. This is accomplished through participation in our Affiliate Societies, working groups, standing committees, and our Annual Scientific Meeting. We leverage this work to foster a sense of community and fellowship for medical professionals, linking the conversation between radiologists and the public.

None of this would be possible without the dedicated CAR staff and the support of our CAR Board of Directors. Thanks to the commitment of the CAR team and the Board's dedication to improve the practice of radiology in Canada.

Nick Neuheimer
Chief Executive Officer
Canadian Association of Radiologists



Top 7 Initiatives in 2021

- 1.** 2021 **CAR Pre-Budget Submission:** \$1.5 billion in new medical imaging equipment, infrastructure, technology, and health human resources to tackle the increasing wait lists for radiology in Canada
- 2.** Increased engagement of four CAR affiliate societies, the Canadian Emergency, Trauma and Acute Care Radiology Society (CETARS), the Canadian Society of Abdominal Radiology (CSAR), the Canadian Society of Pediatric Radiology (CanSPR) and the Canadian Society of Thoracic Radiology, with a focus on clinical practice guidelines, research, and education as well as to promote networking among CAR sub-specialty members
- 3.** CAR 2021 Virtual Annual Scientific Meeting: with a record attendance of over 700 participants and a highly successful meeting championed by the Program Planning Committee
- 4.** CARJ led by Editor in Chief, Dr Michael Patlas your journal's impact factor hit an all-time high and submissions are up 100%.
- 5.** Transition to online accreditation for the CAR Mammography Accreditation Program, making it seamless for breast imaging clinics to adhere to their accreditation requirements
- 6.** Initiated a national e-referrals project with the Canadian Association of Emergency Physicians, the College of Family Physicians and other leading specialty societies
- 7.** Developing a Canadian Partnership Against Cancer education program for lung cancer screening as well as reducing abnormal recall rates. A record level of national grant funding supported programming in the CAR's history

2021: A Year in Numbers



Hospital News

1

Radiology feature in
Hospital News

2

Appearances before the House
of Commons Standing
Committee on Health

5

Clinical Practice
Guidelines, Statements
and White Papers



4 **Affiliate
Societies**

CETARS
CSAR
CanSPR
CSTR



3

**Successful public awareness
campaigns** (Breast Cancer
Screening, MRT Week/ International
Day of Radiology and Wait Lists)

131

educational offerings on RAD Academy and

891

registered users



35

Meetings with Members
of Parliament



670

Units accredited by
Mammography
Accreditation Program



700

Participants at Virtual
Annual Scientific Meeting



2,800 CAR members

5,519 Social media followers

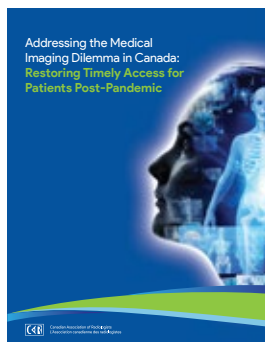
63,861 New CAR website users



Advocacy

National Voice of Radiology

Building on the solid Value of Radiology policy papers and momentum of meeting from the five previous years, 2021 was a stellar year for advocacy. As it was an election year, we were not able to hold our traditional Day on the Hill in November, however, we had the opportunity to meet with 35 MPs and senior policy staff throughout the year and were invited to present to the Standing Committee of Health on two separate occasions. In the fall the liberal election platform announced an additional \$6 billion investment to reduce wait times and MRI was referenced. The CAR is advocating for a portion of this to be used for medical imaging equipment. Further, we are also raising the importance of providing better access to medical imaging referral



guidelines for front line medical practitioners and the need for the integration of Artificial Intelligence in radiology to help extend the breadth of radiologists in Canada. We received resoundingly positive support for our “asks,” and we are optimistic that we will see some resources allocated to this ask in the [2022 federal budget](#).

Our social media presence is greater than ever, reaching the public with our reports, patient campaigns, guidelines and infographics, while continuing to foster a community among radiologists.

Collaborating with provincial associations and other partners strengthened our messages and reaffirmed our presence as the national voice for radiologists across the country. From this, we were able to reach out to key opinion leaders in Canada to make an impactful impression.

We have initiated the discussion regarding investment in medical imaging in Canada and have established strong relations with organizations such as Health Canada and the Public Health Agency of Canada.

In 2022 we will build on these priorities so that politicians, patients, and the broader public understand the true value of radiology in Canada.

Focusing on Recommendations that Support Our Members and Benefit Patients

The CAR has a comprehensive advocacy strategy, focusing on priorities for our members, the field of radiology and Canadian healthcare. We submitted our sixth formal Pre-Budget Submission to the House of Commons Standing Committee on Finance in the summer of 2021. This report was created to inform and influence federal leaders as they prepare the federal budget and consider spending priorities. The CAR’s priorities for 2022 include:

1. A federal investment of \$1.5 billion over five years in medical imaging equipment and health human resources to support the increased capacity.
2. Support for the implementation of a national e-referrals program (Clinical Decision Support) to provide referring health professionals with better access to medical imaging guidelines, ensuring that patients receive the right test at the right time.
3. The creation of a National Data Science Institute to harness AI for the strategic prioritization of health human resources, technology, and infrastructure for medical imaging in the wake of the pandemic and beyond.

2021 Was an Election Year

In 2021, we had the occasion to connect with various MPs and senior policy staff, representing a range of political parties to ask for their support for advancements in medical imaging in Canada. The focus of the meetings included: a national medical imaging equipment fund, support for infrastructure and health human resources in radiology, the introduction of an electronic referral guidelines system (Clinical Decision Support) for referring medical practitioners and government leadership in Artificial Intelligence. CAR members emphasized the value of radiology in the healthcare spectrum, engaging in discussions of their areas of expertise and their accounts of working within the practice of radiology. From this, we were able to garner support for our priorities within the House of Commons. Some MPs even brought our priorities forward in the House of Commons and to their leaders demonstrating their alignment with our chosen direction.

Initiatives like these provide the opportunity to advocate for improved patient care but also to enhance the visibility of the value of radiology and the essential work of radiologists. Meeting individually with MPs allows the CAR to raise awareness about the field and build relationships with decision-makers at the federal level so that the voice of radiologists can directly impact the healthcare system from coast to coast to coast.

The CAR is a registered lobbyist with the Lobby Commissioner of Canada and all our meetings with federal MPs are publicly available. We are committed to full transparency and accountability to our members as well as Canadians.





Innovation in Radiology is a Must

As Canada continues to be faced with the backlog for medical imaging, patients are not receiving the care they need in a timely manner. Radiologists and medical radiology technicians are working feverishly to keep up with the demand. The lack of modern equipment and insufficient health human resources is a significant factor, however, if we were to introduce more innovative medical imaging equipment and technologies the radiology community could service more patients, working smarter not harder. Artificial Intelligence plays a significant role in this, helping to triage patients and to support radiologists in their diagnosis. With new home-grown Canadian technologies available, the CAR believes we should be harnessing these, implementing AI into our healthcare system. This would expedite care for patients but also be a valuable resource for radiologists.

Artificial Intelligence

Under the leadership of the Standing Committee on Artificial Intelligence the CAR has made great progress. We have published two white papers focused on AI integration and privacy, which have been publicly cited across the world. We have had the opportunity to appear before the House of Commons Privacy Commission.

In 2021 Health Canada reached out to the CAR to consult the radiology community on AI. Working in collaboration with Health Canada, the CAR is working toward helping to validate new AI solutions. Under the leadership of Dr. Jaron Chong, the CAR AI Standing Committee Chair, we have developed the Radiology Artificial Intelligence Validation Network (RAIVN). The goal is to assess AI applications and to run them through vigorous testing to evaluate their efficacy. From this, the CAR would make recommendations to Health Canada as well as the radiology community.



Radiologists are the experts in the use of imaging for diagnosis and treatment of disease and should be stakeholders in the development and implementation of data and AI-driven systems that will be deployed in radiology departments across the country.

The CAR is working to empower members to make use of existing AI tools, while ensuring that radiologists remain at the centre of decision-making and policy planning about the role related to technology in healthcare.



Advocating for the Highest Standard of Patient Care Across the Country

Patient safety is paramount to the CAR. Through the establishment of evidence-based clinical practice guidelines and quality assurance programs, the CAR can have a direct impact in safeguarding Canadians. It is the CAR's objective to ensure that radiologists are relying on the most up-to-date research and following the highest standards of patient care across the country.

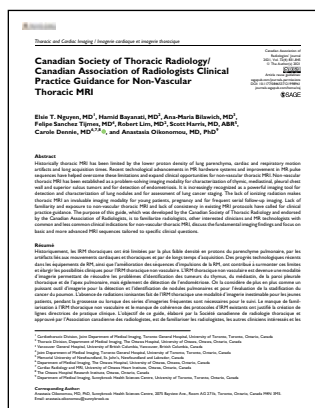
Quality Assurance

In keeping with our mission to promote safe, efficient, and quality healthcare for Canadians, the CAR works closely with recognized experts and other professional bodies to develop national standards and guidelines. Our goal is to ensure the optimal procedure is done the proper way so Canadians can benefit fully from diagnostic imaging and the skills and expertise of radiologists. The CAR's evidence-based practice guidelines define the principles of practice that will best guarantee the right treatment. Serving as guidelines for healthcare professionals and industry, CAR practice guidelines promote high-quality care for diagnosis, medical practice, and treatment.

Leader in Setting Practice Guidelines and Defining the Quality Agenda for Diagnostic Imaging

Clinical Practice Guidelines and Position Statements

While shifting focus to prioritize the development of COVID-19-related materials, the CAR published four clinical practice guidelines and one position statement in 2021. All materials were produced using a rigorous methodological approach and with oversight from established experts in the field.



- CSTR/CAR Best Practice Guide for the Investigation of Acute Pulmonary Embolism
- CSTR/CAR Guide on Performance of Non-vascular Thoracic MRI
- CAR Recommendations for the Management of Incidental Pancreatic Findings in Adults
- CAR Recommendations for the safe use of MRI during pregnancy
- CAR Position Statement on Remote Reporting

We anticipate publication of several other clinical practice guidelines and white papers in 2022 that are currently in development:

- CAR Guidance on Contrast Associated Acute Kidney Injury
- CAR White Paper on Prostate MRI
- CAR Recommendations for the Management of Incidental MSK Findings on Thoraco-Abdominal CT and MRI
- CAR/CSTR Guidance on Thoracic Interventions
- CAR Guidance on CT Colonography
- CAR White Paper on Structured Reporting
- CAR Guidance on Imaging Endometriosis

Referral Guidelines

Members told us – improve referrals. And so, the CAR Referral Guidelines Working Group, led by Dr. Ryan Margau, and Co-chair, Dr. Paul Pageau, from the Canadian Association of Emergency Physicians are pioneering work on e-referrals. The Canadian Medical Association provided a grant to do this important work. We have partnered with the College of Family Physicians of Canada, Choosing Wisely, the Nurse Practitioner Association of Canada, and the Society of Rural Physicians of Canada. The goal of this project is to develop a Canadian-specific comprehensive set of methodologically robust, evidence-based, and peer-reviewed guidelines to support clinical decision-making of referring clinicians and to improve access to care and better health outcomes for patients by promoting the most appropriate diagnostic imaging procedure(s).

“Imaging referral guidelines should be collaborative non-punitive tools, designed to improve quality, safety and appropriateness. Collaboration with all stakeholders, including patients and ordering providers, is needed to create comprehensive Canadian guidelines, designed to improve care for Canadian patients and families,” says Dr. Ryan Margau, Co-Chair, CAR Referral Guidelines Working Group and Chief and Medical Director, Medical Imaging, North York General Hospital.



“We need to work collaboratively with the broad spectrum of referring medical professions to make informed decisions regarding the selection of medical imaging tests and treatments. Having easily accessible Canadian guidelines will help us achieve this.” says Dr. Paul Pageau, Co-Chair, CAR Referral Guidelines Working Group and Director, Point of Care US, Department of Emergency Medicine, The Ottawa Hospital and Assistant Professor, University of Ottawa.



In January 2021, we started working on the development of these guidelines, recruiting section-specific Expert Panels made up of radiologists, referring clinicians, and patient representatives. We have begun with four sections: Trauma; the Musculoskeletal system; Obstetrics and Gynecology; and Breast Disease. The remaining nine sections (i.e., Cancer; Cardiovascular; Central nervous system; Gastrointestinal system; Head and Neck; Pediatrics; Spine; Thoracic; and Urological, adrenal, and genitourinary systems) will be covered in 2022-2023. We will also seek external feedback from various stakeholders across the country. These guidelines will be made freely available to healthcare professionals, patients, and caregivers, and will be integrated into Clinical Decision Support systems to enhance decision-making and patient care.

Mammography Accreditation is Now Digital

In the fall of 2021 MAP went digital. Breast imaging clinics across the country are now able to adhere to the accreditation standards for mammography online. This has been a big win for the program, making the process more seamless for users, with fewer administrative tasks. We have heard nothing but positive things from our members.

2021 saw mammography screening services resume towards normal levels. An improvement over the shutdown of 2020. The year ended with 670 units across 525 facilities being MAP accredited.

The pandemic continued to affect screening services nationwide negatively, largely due to staffing shortages. MAP responded by increasing their efforts to work with facilities to ensure they were able to meet MAP's quality standards. We will continue our efforts to support mammography services as we collectively begin to recover from the pandemic induced impacts.

The CAR Mammography Accreditation Program (MAP) is an initiative instituted over 20 years ago to ensure that the quality of mammography images in Canada meets the highest standards. This voluntary program offers radiologists the opportunity for peer review and evaluation of their facility's staff qualifications, equipment performance, quality control, quality assurance programs, image quality, dose, and processor quality control.

Patient safety through continuous quality improvement is the objective of MAP. It is in every patient and radiologist's best interest to ensure that when a patient undergoes a mammogram, it is completed in a manner that exposes her or him to the lowest possible radiation dose and risk, and ultimately results in an image that the radiologist can accurately interpret.

MAP-Accredited Centres and Units Yearly Perspective

Jurisdiction	2017		2018		2019		2020		2021	
	Centres	Units	Centres	Units	Centres	Units	Centres	Units	Centres	Units
Alberta	69	86	68	86	74	92	74	93	72	80
British Columbia	38	43	39	45	41	48	40	48	39	46
Manitoba	8	13	9	15	9	15	9	15	9	13
New Brunswick	15	20	15	20	16	21	15	20	15	22
Newfoundland and Labrador	7	8	8	10	8	10	8	10	8	7
Nova Scotia	12	14	12	14	12	14	11	13	11	13
Northwest Territories	1	1	1	1	1	1	2	2	2	1
Ontario	230	298	235	311	234	303	230	301	230	308
Prince Edward Island	2	3	2	3	2	3	2	3	2	3
Quebec	119	153	118	150	199	152	120	151	120	164
Saskatchewan	12	13	13	14	14	15	14	15	14	11
Total	513	652	520	669	530	674	525	671	522	668

Education



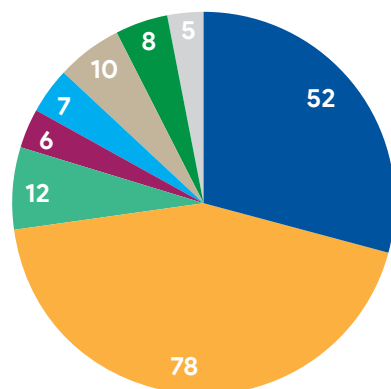
Experience RAD Academy! CAR's learning platform for members, by members!

Raising the bar for your professional development by enhancing medical education

Maintaining the CME Momentum

With the ongoing cancellation of in-person medical education events as well as the resumption of Maintenance of Certification (MOC) education requirements, the development and delivery of radiology-centric content remains a top priority for the CAR. RAD Academy continues to enhance its catalog, providing a variety of eLearning opportunities reinforcing the translation of research into practice.

Through its continued relationships with the CAR Affiliates, along with other health organizations, stakeholders, and members, RAD Academy has been able to ensure an array of robust and comprehensive content with expert collaborations across the continuum of the radiology spectrum. Topics ranged from essential urgent content, emerging trends and advanced technologies to clinical practice guidelines.



- Co-Developed Series
- COVID-19 Resources
- LIVE Sessions
- Clinical Practice Guidelines
- Section 3 SAPs
- Section 2
- Resident Resources
- General Education Resources

Since its launch in September 2018, RAD Academy continues to expand its catalogue and offers a diverse complement of educational offerings.

Affiliate Societies – Sub-Specialty Voices are Being Amplified

Affiliate Societies of the CAR are networks of Canadian radiologists with a shared interest in a particular subspecialty of radiology. Affiliate Societies strive to encourage educational, research and administrative connections to maintain the highest standards of radiology in their subspecialty across Canada. The CAR has four Affiliate Societies with distinct roles.



CETARS

Canadian Emergency, Trauma and
Acute Care Radiology Society
Société canadienne de radiologie d'urgence,
de traumatologie et de soins actifs

Canadian Emergency, Trauma and Acute Care Radiology Society (CETARS)

Led by Dr. Savvas Nicolau

Established in 2020, CETARS strongly believes in and adheres to diversity, inclusion, respect for all and encouragement of professional behaviour from leadership to individual members. It has the following roles:

- Drive the appropriate, proper, and safe use of emergency, trauma, and acute radiological services in patient-centered care
- Play a leadership role in the development and update of emergency imaging guidelines, standards, and appropriateness criteria
- Provide access to medical education in the practice of emergency radiology for trainees and practicing radiologists
- Advocate for appropriate resources necessary for the delivery of quality emergency radiology services
- Foster research in all aspects of emergency radiology



CanSPR

Canadian Society of Pediatric Radiology
Société canadienne de radiologie pédiatrique

Canadian Society of Pediatric Radiology (CanSPR)

Led by Dr. Lucia Carpineta

CanSPR was established in 2020 and has the following roles:

- Drive the appropriate, proper, and safe use of radiological services in the patient-centered care of children
- Define principles of practice in the development of pediatric imaging guidelines, standards, and appropriateness criteria
- Provide access to medical education in the practice of pediatric imaging for trainees and practicing radiologists
- Advocate for appropriate resources (human and material) necessary for the delivery of quality pediatric imaging services to Canadian children wherever they are situated
- Foster research in all aspects of pediatric imaging



CSAR

Canadian Society of Abdominal Radiology
Société canadienne de radiologie abdominale

Canadian Society of Abdominal Radiology (CSAR)

Led by Dr. Silvia Chang

Established in 2020, CSAR has the following roles:

- Foster interdisciplinary collaboration in the prevention, diagnosis, and treatment of abdominal disease
- Provide access to medical education in the practice of abdominal radiology for trainees and practicing radiologists
- Promote excellence in research and best practices in abdominal radiology
- Play a leadership role in the development/update of abdominal imaging guidelines, standards, and appropriateness criteria
- Foster an interest in abdominal radiology by providing mentorship opportunities and by development of a sub-specialty curriculum at the CAR Annual Scientific Meeting (ASM)



CSTR

Canadian Society of Thoracic Radiology
Société canadienne de radiologie thoracique

Canadian Society of Thoracic Radiology (CSTR)

Led by Dr. Daria Manos

Established in 2018, CSTR has the following roles:

- Drive the appropriate, proper, and safe use of radiological services
- Play a leadership role in the development/update of CAR-driven thoracic imaging guidelines, standards, and appropriateness criteria
- Provide access to online educational content for trainees and practicing radiologists; and
- Organize educational and social events during the CAR Annual Scientific Meeting (ASM)

A Focus on Radiologists-in-Training

The Resident and Fellow Section (RFS) is a “for trainees, by trainees” initiative with a focus on creating resources that are relevant and useful to radiology residents in Canada, promoting engagement among the trainee community. The RFS is the joint collaborative effort of resident representatives and volunteers from all 16 residency programs across Canada, with a senior and junior resident section liaison at each site. In addition to Chair and Past-Chair, the RFS expanded the standing committee to include the positions of Vice-Chair, Secretary-Treasurer and Medical Student Network Coordinator. In 2021 under the leadership of the RFS, the CAR launched the Medical Student Network (MSN). The intent is to provide medical students who are interested in pursuing a career in radiology with resources and information. The MSN works with each medical school’s radiology interest group (RIG) leaders and is developing resources for Canadian RIGs and medical students interested in radiology, including the Online Cross-Country Tour of residency programs, a longitudinal lecture series, mentorship sessions for women in Radiology and a post-CaRMS mentorship session, among others. From a transition to virtual education to changes in their usual workflow, our residents, fellows, and medical students have demonstrated exceptional resilience throughout the pandemic. Major accomplishments this year include the CARJ Mentorship Program; the Global Outreach in Radiology Network; a Speed Mentoring Session hosted during the 2021 Annual Scientific Meeting, and the growth of the Canadian Fellowship Database. The CAR had a 19% increase in radiologist-in-training members in 2021 thanks in large part to the leadership of the Section Chair, Dr. Jessica Dobson, and the dedication of the RFS Standing Committee, MSN, Section Representatives, and volunteers.



CAR Award Winners – Recognizing Excellence

The CAR recognized the incredible contributions of Award recipients and Fellows of the CAR in 2021.



CAR Gold Medal Award

Dr. Andrea Lum
Vice Dean Clinical Faculty Affairs,
Schulich School of Medicine & Dentistry

“Thank you to the CAR Board and membership for the honour of being the 28th recipient of the CAR Gold Medal in 2021. It has been a privilege to serve for more than three decades! I continue to lead as Vice-President of the Canadian Radiological Foundation and by working with the CAR Board of Directors to advance professional initiatives, such as being the CRF executive sponsor for the Physician Leadership Workshop for Women in Radiology.”



CAR Young Investigator Award

Dr. Sharon Clarke
Clinician-Scientist and Abdominal Radiologist, QEII Health Sciences Centre in Halifax and Associate Professor, Diagnostic Radiology, Dalhousie University

“I am honoured to accept the CAR Young Investigator Award this year. I very much enjoy my role as a clinician-scientist and consider myself fortunate to work with so many dedicated students, staff, and clinical and scientist colleagues. This achievement would not be possible without their support and for this I am greatly indebted. I believe that research can provide immense value to clinical radiology and hope that this award inspires others to appreciate research and pursue rewarding careers as clinician-scientists.”



Distinguished Career Achievement Award

Dr. Julian Dobranowski
Chair, Department of Radiology,
McMaster University

“I am pleased, honored and thrilled to accept the 2021 CAR Distinguished Career Achievement Award and to join a group of past recipients who I have long admired and respected. Throughout my career I have been focused on improving patient outcomes. This has led me on an incredible journey of discovery that has been both challenging and rewarding. I would like to use this opportunity to appeal to all radiologists to continue supporting the CAR and to support your local physician leadership. In these challenging COVID times we need to work together to help transform our healthcare system to be better prepared for the future.”

Departing Board Members

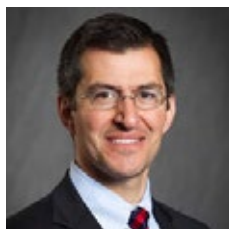
We thank the following individuals for their dedication and hard work.



Dr. Emil Lee
CAR Past President

Regional Medical Director/ Regional Department Head of Medical Imaging Group in the Fraser Valley, Vancouver

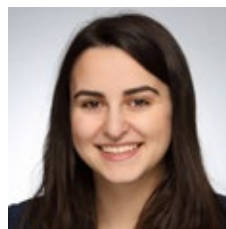
Dr. Lee is a community/interventional radiologist with the Valley Medical Imaging group in the Fraser Valley, Vancouver, BC. Prior to that, he was Head of the Department of Medical Imaging of Langley Memorial Hospital for 13 years. He is an honoured Fellow of the Canadian Association of Radiologists and served on the ACR Board of Chancellors for two years. Dr. Lee is also a Past President of the British Columbia Radiological Society and the Doctors of BC Section of Radiology, having been executive member since 2007 and serving as President from 2010–2012. He has been a member of, and continues to serve on, many national, provincial, health authority and local committees.



Dr. Alexander Norbash
American College of Radiology Representative

Chair and Professor of Radiology at the University of California

Dr. Norbash is the founding faculty director for Blue LINC, a team-based biodesign certificate course that includes students from the schools of engineering, business, and medicine. He served as Associate Vice-Chancellor for Diversity, Equity and Inclusion with principal responsibilities for Climate and Professional Development across the university campus from 2017-2020. Previously, he served as Chair and Professor of Radiology at Boston University School of Medicine from 2004-2015, where he also served as Assistant Dean for Diversity and Multicultural Affairs from 2011-2015. He is an interventional and diagnostic neuroradiologist with translational research interests including engineering collaborations creating novel tools and materials for endovascular neurologic therapies, and interventional robotics. Management topics of greatest familiarity include leadership, strategic planning, teamwork, and healthcare reform.



Dr. Aline Khatchikian
Resident Representative

McGill University

Dr. Khatchikian completed her medical degree at Université Laval in 2018. She has a great interest in global health, medical education, and health systems. Dr. Khatchikian has developed unique international experience giving training sessions in Switzerland, Brazil, Mexico, Peru, Uruguay, and Macedonia, amongst other countries, to encourage the next generation of medical students to become health advocates. In 2015, she was appointed Regional Director for Public Health in the Americas' region for the International Federation of Medical Students' Association. In 2017, she organized the Youth Pre-World Health Assembly on human resources for health, in collaboration with the World Health Organization. That same year, she was appointed to the Board of Directors of the Quebec Medical Association. In 2018, she received the Canadian Medical Association Award for Young Leaders. Dr. Khatchikian pioneered the first global outreach network for Canadian radiologists and interventional radiologists to address the gap in access to medical imaging worldwide.



Membership Engagement

Expansion of Membership Across the Country

At the end of 2021, we had a total of **2,817 members**. This is **an increase of 13%** from last year, showing a positive trend in the CAR's membership. This new high was directly linked to membership by Fellows and medical students. Expansion and engagement of our membership is always a top priority for the CAR, allowing us to solidify our position as the national voice of radiologists. Members are central to the CAR, as we work first and foremost to provide resources to make members more successful in their roles.

Connecting with and Listening to Our Members

Year after year the CAR expands its presence on social media and in 2021, we continued to see considerable growth on these platforms. We revitalized our presence on LinkedIn at the tail end of 2020 and have seen a **55% increase** in engagements in 2021 across all social media channels compared to the previous year.

The CAR newsletters continue to rise above industry averages in engagement metrics, communicating our advocacy, educational opportunities, quality improvement initiatives and focusing on members who have made a positive contribution radiology. On average, the CAR's *Beyond the Image* monthly newsletters has an open rate of more than double that of other national speciality societies. The CAR also publishes a *Weekly Scan* more than 40 weeks of the year. This bulletin has replaced one-off messages with a consolidated email that contains timely and important information.

Our association has once again increased the number of benefits for membership, including discounted resources, reduced Annual Scientific Meeting registration, complimentary subscription to the CAR Journal and exclusive access to RAD Academy, our learning management system.

Our 2021 Partners

We are pleased to acknowledge the CAR's corporate partners. The CAR has benefited from our relationships with these organizations from a financial perspective, knowledge sharing and in-kind contributions. Without their support, we would not be able to fulfill our goals and objectives.



For more information about the CAR or our programs and services please visit car.ca or our social accounts on LinkedIn, Facebook and Twitter @CARadiologists.



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