



*CANADIAN SOCIETY OF  
CARDIAC SURGEONS*

*SOCIÉTÉ CANADIENNE DES  
CHIRURGIENS CARDIAQUES*

2019

# Annual Report



## President's Report



**Dr. Jean-François Légaré**  
CSCS President

Dear CSCS Members,

I have just completed my first year as your President of The Canadian Society of Cardiac Surgeons (CSCS). First and foremost, I would like to thank you for your support, but I am also encouraging you and your colleagues to renew your commitment to the CCS and CSCS. With a membership of 117 physicians and 115 trainees, the CSCS is truly the voice of cardiac surgery in Canada and strives to continue to do so through your support, engagement and input.

Important changes are occurring at the CCS level and will likely include significant restructuring. Specifically, the CCS is promoting a "ONE HEART TEAM" model which represents efforts from the CCS to better integrate all CCS and Affiliate members in all of its activities. The details of these changes and its implications for CSCS remain to be fully explained but should become apparent within this calendar year. You should know that your CSCS Executive is striving to represent its members and has remained engaged with the CCS during this process.

Our flagship meeting as part of the CCS will be in Montreal this year and will provide excellent opportunities for CSCS members from across Canada to meet with other Canadian cardiovascular specialists. **Dr. Denis Bouchard** is our new Scientific Director and has worked hard to provide an excellent program while following the restrictions associated with the CCC. Of interest will be the Bigelow Lecture which will be given by **Sir Magdy Yacoub**. There will also be a faculty diner with Dr. Yacoub that is available with registration (note that numbers are limited and require registration).

We have promoted, under the leadership of **Dr. Vivek Rao**, the concept of a Spring Meeting, with another successful meeting in 2019. This year's Spring Meeting was a joint meeting of the CSCS with the Canadian Society of Clinical Perfusion (CSCP) on June 13-16 at the Algonquin Resort in St-Andrews-by-the-Sea, NB. The meeting was a tremendous success and I am proud to report that we were able to register more than 150 attendees and had a strong participation by trainees who competed for 3 poster prizes. The commitment of the CSCS to education and mentorship is also exemplified by the annual Bootcamp. For the second year, the Bootcamp was held in Winnipeg under the guidance of **Dr. Rakesh Arora and Dr. Kanwal Kumar** and by all accounts was a success.

In summary I am looking forward to continuing to represent the interests of all CSCS members. I think having strong sense of community and belonging to the society will be beneficial to all of us. There is no other association in Canada that speaks on our behalf as cardiovascular surgeons.

Respectfully,

Jean-Francois Légaré, President, CSCS

*CSCS is an Affiliate Society of the*



**Canadian Cardiovascular Society**  
*Leadership. Knowledge. Community.*

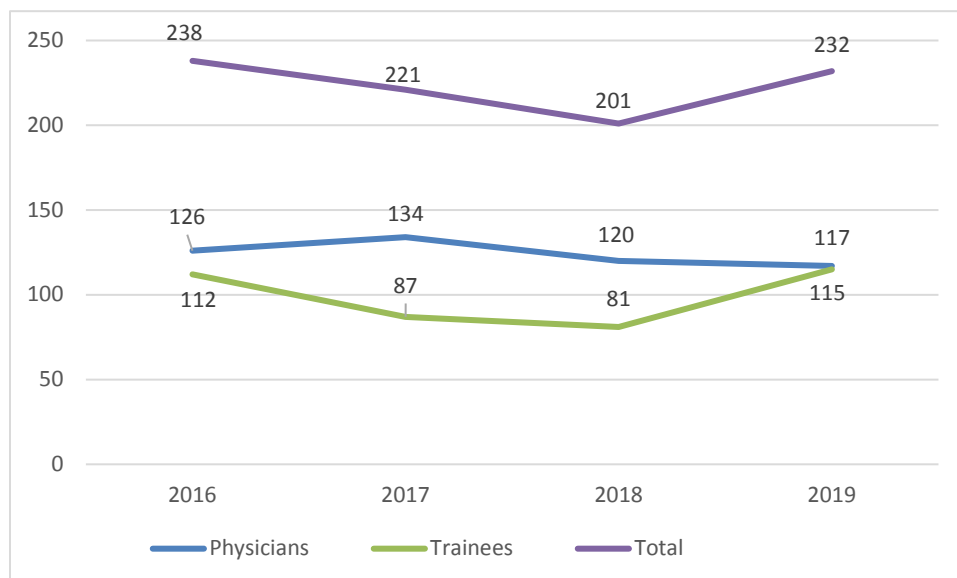
**Société canadienne de cardiologie**  
*Communauté. Connaissances. Leadership.*

# Financial Report

**Canadian Society of Cardiac Surgeons**  
**Société canadienne des chirurgiens cardiaques**  
**Statement of Operations and Changes in Net Assets**  
**For the year ended March 31, 2019**

	2019	2018
<b>ASSETS</b>		
<b>Current</b>		
Cash	\$ 240,334	\$ 162,858
Trade accounts	8,815	25,283
Harmonized Sales Tax receivable	115	892
Prepaid expenses	82	7,110
	\$ 249,346	\$ 196,143
 <b>LIABILITIES</b>		
<b>Current</b>		
Accounts payable and accrued liabilities	\$ 13,884	\$ 1,550
Deferred revenue	63,500	76,350
	77,384	77,900
 <b>NET ASSETS</b>		
Unrestricted	171,962	118,243
	\$ 249,346	\$ 196,143

# Membership Report



# Canadian Cardiac Surgery Residents Forum (Bootcamp) Report

Winnipeg was once again honoured to host the Canadian Junior Cardiovascular Surgery Forum this past July. Building on the success of last year, we once again focused on the primary goals of the Forum. Furthermore, to give a comprehensive experience, we introduced a series of practice management sessions that the residents could use to build upon.

This year we had 16 residents from the various programs across the country. As in years past, the residents were exposed to an intense 4-day program involving didactic sessions, standardized patients, simulation sessions, and large animal web labs. The goal of the practice management sessions was to give the



residents a well-rounded exposure to entering residency. Dr. Mimeault from CMPA gave a session on consent, documentation, teamwork, and disclosure of adverse events. Dr. Brooks, a performance psychologist, discussed how to overcome adversity. Finally, Dr. Osler from the CMA examined professionalism in the current medical environment. Evening events to promoting networking and bonding included a tour of the Canadian Museum for Human Rights and a box suite to watch the local professional baseball team.

Once again, this event could not have been possible without tremendous effort and participation by numerous individuals. Firstly, thank-you to Dr. Legare and the CSCS for their support of the event. In addition to local faculty, many thanks to the out-of-town faculty who participated heavily in the sessions including Vivek Rao (Toronto), Bobby Yanagawa (Toronto), Mac Quantz (London), Michael Moon (Edmonton), and Teresa Kieser (Calgary). A special recognition and thank-you to Dr. Paul Sergeant from Belgium for his time and effort in mentoring the residents as they learned the basics of coronary anastomoses.

Finally, this event could not have happened without the financial support from numerous sponsors who continue to participate in the educational activities for the residents. This year, we had a record number of sponsors who supported the Forum and what we were trying to achieve. This year, Edwards Lifesciences was the Platinum sponsor. Medtronic was a Gold sponsor. Silver sponsors included LivaNova, Abbott, Baxter, Cook Medical, Johnson and Johnson, and MD Management. Minogue Medical and Medela were the bronze sponsors.

Entering Cardiac Surgery residency remains an exciting but potentially challenging evolution. Our hope is that this Forum will continue to be a holistic event for all involved, and more importantly an invaluable experience for the surgeons of the future.

Sincerely,

Kanwal Kumar, On behalf of the organizing committee Rakesh Arora and Alan Menkis.

# Spring Meeting Report



This year a Joint Spring Meeting of the Canadian Society of Clinical Perfusion (CSCP) and Canadian Society of Cardiac Surgeons (CSCS) was held on June 13-16 at the Algonquin Resort in New Brunswick. By all accounts, the meeting was a huge success, nearly 150 registered attendees from across Canada including cardiac surgeons, clinical perfusionists, cardiac anaesthesiologists, nurses and members of industry. Plenary sessions focused on minimally invasive approaches to cardiac surgery, thoracic aortic disease, novel aspects of myocardial protection, critical care, mechanical circulatory support and evolving topics related to residency education.

Highlights from the meeting included: 1. Moderated poster presentations by ten cardiac surgery trainees as part of the opening event for the meeting. Winners of this event included Dr. Sabin Bozso from University of Alberta (1<sup>st</sup> prize - \$500), Dr. Ed Percy from University British Columbia (2<sup>nd</sup> prize - \$250) and Dr. Roberto Ribeiro from University of Toronto (3<sup>rd</sup> prize - \$100). Congratulations!!

2. Two excellent talks on Competency by Design and Medical Assistance in Dying by our invited speaker for the education session from the University of Ottawa, Dr. Viren Naik.

3. Traditional maritime entertainment with music, drinks, comedy and dancing east coast style.

On behalf of the organizers of the Spring Meeting, we want to thank everyone who attended and participated in making the event such a success.

Dr. Jean-François Légaré



CANADIAN SOCIETY OF  
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**SAVE THE DATE!**

**2020 Spring Meeting**

**June 25-28, 2020**

**Prince of Wales Hotel**

**Niagara-on-the-Lake, Ontario**

# Scientific Program Committee Report



After the success of our Spring Meeting in June, the upcoming CCC in Montréal promises to be very exciting. We have Sir Magdi Yacoub as the Bigelow lecturer as well as speaking in our very interesting Post-Graduate Course.

A Year in Review session will bring light to new pieces of literature concerning cardiac surgery and post-operative ICU care. A new session on practical aspects of cardiac surgery technical teaching has been created to answer the growing challenges of accompanying our residents in an era of TAVI, MIS surgery and elderly patient population. The oral and e-poster abstract session will bring forward our society research effort and will give us a unique occasion to discuss research ideas.

Sunday will feature a new all-day event – Cardiogenic Shock Day – where cardiologists, surgeons, interventionalists and perfusionists will discuss the full spectrum of cardiogenic shock and possible support therapies.

The lovers of fine wine should enjoy themselves at the Friday night dinner at Hoogan et Beaufort, an innovative French restaurant in Montréal. Looking forward to sipping champagne with all!

Dr. Denis Bouchard  
Chair, Scientific Program Committee

## 2019 Dr. Paul Cartier Cardiac Surgery Resident Award goes to Dr. Derrick Tam

*This award was created in honour of Dr. Paul Cartier, who was highly regarded as an outstanding Canadian Cardiac Surgeon. It is annually given to a Cardiac Surgery Resident who has made an outstanding contribution to the field of cardiac surgery through basic science or clinical research.*



## Examination Board Committee Report

The exam board is pleased to report that the 2018 exam was again reviewed favourably at the Royal College in January. The performance of our exam is in line with that of the other specialty exam boards. The Royal College policy of not releasing single year results remains the same, and the running 3-year average pass rate was not significantly changed by the performance of this year's exam, at 68.2%. The 3-year pass rate for CMDPG (Canadian medical degree and Canadian post-graduate training) candidates was 94.7%. As with previous years, we will continue to refine the exam, using new analysis tools provided by the College, with the aim of continuously improving the exam. The membership of the exam board will remain the same as last year as there are no members whose mandate was completed last year.

Respectfully submitted,

Richard C. Cook, MD  
Chair, Cardiac Surgery Exam Board

## Cardiac Surgery Resident Report

It was a busy year for residency training programs across the country as we transitioned our curricula and training evaluations to Competency by Design. Despite only being a few months into this new paradigm for Canadian cardiac surgery training, it is important to acknowledge the hard work and dedication of all involved in the implementation of this training model, especially from members of our specialty committee and program directors at each training site (not to mention our new cohort of trainees who adopted CBD as of July 1<sup>st</sup>).

Certainly, one of the highlights of the year so far has been our joint Spring Meeting with the Canadian Society of Clinical Perfusionists held in St. Andrews this June. After dedicating an evening of programming for presentations by trainees, a call for abstracts was sent to all trainees and fellows at Canadian training programs. We received and reviewed abstracts from across the country and, thanks to the society and event sponsors, 10 trainees received financial support to travel to New Brunswick and present their original science to the conference's attendees.

In addition to providing a platform for trainees to present their research, the meeting also facilitated incredible networking opportunities for all who were present, and we have received wonderful reviews from the members-in-training who were able to attend.

We look forward to incorporating our trainees into the program for next year's CSCS Spring Meeting once again and welcome any suggestions for continued involvement of trainees into our national society's activities.

Philippe Tremblay  
Cardiac Surgery Resident Representative



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## Specialty Committee Report



use going forward.

The past several years has provided great opportunity for our specialty to demonstrate leadership and our continuing academic commitment to cardiovascular health in Canada. We volunteered early in the Competency by Design (CBD) process to be an early adopter and assist the Royal College to refine the workshop and document development process. The specialty committee, which includes all of the program directors from across the country, worked diligently to prepare the Royal College document suite (Competencies, Training Experiences, and Standards of Accreditation) as well as the Entrustable Professional Activities (EPAs) and milestones that now constitute the new Cardiac Surgery curriculum that our programs will

The specialty committee met several times prior to implementing CBD which helped to facilitate national collaboration to ensure that all the programs had all the appropriate resources necessary for roll out. The work of the program directors should be recognized in terms of their dedication and commitment to bring CBD into reality. The specialty committee will continue to monitor CBD, not just in terms of resource allocation at each university, but also to validate that in fact we are seeing positive outcomes for our trainees. There have been early surveys from other specialties that have identified significant positives but also some negatives and unforeseen challenges (e.g. faculty buy-in, resource allocation and additional time/administrative support required to monitor resident progression) and hopefully we can incorporate their comments into the ongoing structure of our programs. The Royal College and specialty committee are committed to honing the document suite, EPAs and milestones as CBD evolves, to ensure Canadian training remains among the best in the world.

The specialty committee has advocated that, at least for the immediate future, to continue to coordinate its face-to-face meetings with CSCS Spring Meeting. The most recent opportunity, at the meeting in New Brunswick, provided a very suitable space and an unhurried setting without the stress of having to complete the meetings prematurely due to the harried Canadian Cardiovascular Congress timetable. We will continue to have meetings by teleconference in the interim including at the time of the CCC, however the next face-to-face meeting will occur at the CSCS Annual General Meeting on October 25.

We would like to extend our thanks to Shahzad Karim, MD, FRCSC, who represented Region 1 (British Columbia, Alberta, and the Yukon) on the specialty committee as a voting member, for his multiyear contribution. Dr. Karim recently stepped down from this position and Daniel Wong, MD, FRCSC (University of British Columbia) has taken over this vital role. We welcome Dr. Wong and look forward to his contributions on behalf of Western Canada.

We would like to extend our congratulations to Kenny Kumar, MD, FRCSC (program director, University of Manitoba) and David Horne, MD, FRCSC (program director, Dalhousie University).



Both program directors lead successful accreditation reviews of their respective programs and we look forward to their ongoing participation to mentor other programs in the years to come.

The examination process in Canada continues to be a source of pride for the Cardiac Surgery examination board as well as the Royal College. On review of the results of the past years, it is clear that there has been a consistent reproducible process that has very effectively identified competence in our candidates. The specialty committee commends the leadership of Richard Cook, MD, FRCSC, and the entire examination board for their continuing contribution to cardiovascular excellence in Canada.

As many of you may be aware, the Royal College supports ongoing development of non-accredited fellowships/subspecialties through a program referred to as the Areas of Focused Competence (AFC). The specialty committee recognizes that our discipline needs to take a greater leadership role in the areas of mechanical circulatory support and cardiac transplantation. The development of an AFC in this area would provide a great deal of credibility to relatively high-volume centres. This process would also support recruitment of international specialists who could get a formal Diplomate certificate from the Royal College in this area of specialty training.

Hadi Toeg, MD, FRCSC, from the University of Ottawa has agreed to lead experts from across Canada in the development of an AFC. The process will involve national collaboration as well as participation from our Cardiology colleagues, including the Cardiology AFCs, in order to prepare an application that will be submitted to the Royal College's Committee on Specialties (COS); a panel of Royal College Fellows comprising all disciplines, tasked with monitoring the health of current specialties and considering new specialties, subspecialties, and AFCs. It is our expectation that they will recognize the importance of an AFC of this nature in order to improve the quality of care we provide for patients by standardizing this training nationally. If successful, this could potentially become a certified AFC program within two years, at which point current non-accredited fellowship programs can apply for formal accreditation. There are other areas that this innovation can contribute including the potential of other AFCs related to our specialty, and I hope I have more information on this in the near future.

Dr. Fraser Rubens  
Chair, Speciality Committee

August 2019 Volume 35, Number 8

**cjc** Canadian Journal of Cardiology  
Journal canadien de cardiologie

Journal of the  Canadian Cardiovascular Society Société canadienne de cardiologie



**FOCUS ISSUE: Challenging Issues in Myocardial Revascularization**  
**Guest Editors:** Stephen E. Fries, Marc Jolicoeur, Hung Q. Ly, Vivek Rao

- 948** Completeness of Revascularization as a Determinant of Outcome
- 983** Modality Selection for Left Main Revascularization
- 1002** Coronary Revascularization in Advanced CKD
- 1030** Antiplatelet Therapy and CABG: Focus on ACS
- 1047** Early Complete Revascularization in Hemodynamically-Stable STEMI With Multivessel Disease

*Continued inside*

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Impact Factor **5.592**

Be sure to check out Dr. Stanley Nattel's, Editor-in-Chief of the *Canadian Journal of Cardiology (CJC)*, top article pick published in the CJC over the past year:

### Modality Selection for the Revascularization of Left Main Disease

Tam DY et al, Can J Cardiol 35(8):983-992, 2019

# CANCARE Highlights



## BOARD OF DIRECTORS

### Executive Committee

Chair: Dr. Yoan Lamarche (QC)  
Vice-Chair: Dr. Gurmeet Singh (AB)  
Secretary: Dr. Gregory Schnell (AB)  
Treasurer: Dr. Dave Nagpal (ON)  
Past President: Dr. Rakesh Arora (MB)

### Board Members

Membership Director:  
Dr. Ansar Hassan (NB)  
Members-At-Large:  
Dr. Rizwan Manji (MN)  
Dr. Michael Goldfarb (QC)  
Dr. Warren Luksun  
Dr. Sheldon Magder MD (QC)  
Dr. Bernard McDonald (ON)  
Dr. Sean Van Diepen (AB)  
Dr. Christopher Fordyce (BC)

### Trainee Representatives

Dr. Lior Babas  
Dr. Erin Rayner-Hartley



The following report is respectfully submitted on behalf of the (CANCARE) Society.

### Scientific Activities

#### ECMO Day 2018:

CANCARE Society held our third ECMO Day Workshop in Toronto. ECMO Day is a 1-day interdisciplinary workshop on Friday Oct. 19th, 2018 just prior to the Canadian Cardiovascular Congress at the Michener Institute in conjunction with the Canadian Society of Clinical Perfusion. As for our two first year's workshops iteration, ECMO Day 2018 sold out. Multidisciplinary teams including Perfusion, Nursing, Anaesthesiologists, Cardiovascular Surgeons, Intensivists, Emergency Physicians, and Cardiologists could exchange and learn on State-of-the-Art use of ECMO.

#### CCC 2019 (Montréal):

- **Scientific Program Committee (SPC) Plenary Session:** Cardiogenic Shock – A Heart Team Approach. Thursday October 24, 2019 10:30-12:00 (517D)
- **CANCARE Board Meeting.** (invitation only) Thursday, Oct 24, 2019. 12:30-13:30 (518A)
- **CANCARE Society Spotlight:** CANCARE Cup 2019: Cardiac Critical Care Jeopardy. Thursday, Oct 24, 2019 14:00-15:30 (520CF)
- **CANCARE AGM:** Thursday, Oct 24, 2019 15:30-16:30 (518B)
- **The Top Five ICU Trials Of 2019 for The Clinical Cardiologist in Five Minutes:** Thursday, Oct 24, 2019 16:30-17:30 (522).
- **CANCARE Society Limelight Session:** Pain, Agitation/Sedation, Delirium, Immobility, And Sleep in Cardiovascular Critical Care: New Guidelines and Updates from The Society of Critical Care Medicine Location. Friday Oct 25. 12:00-12:30. (Community Forum Theatre B)
- **Controversies in The Surgical Timing of Patients in The Coronary Intensive Care Unit:** A CANCARE And CSCS Mini-Debate Session. Saturday, Oct 26. 9:00-10:00 (519A)
- **CANCARE Trainee Workshop** on Critical Care Cardiology/Cardiac Surgery Training. Saturday Oct 26th 14:00-15:00 (524c).
- **Cardiogenic Shock Day:** New for 2019! Multi-affiliate full day on Sunday, Oct 27th 7:00-15:00 (517c). Collaboration with CCS, CHFS, CCTN, CAIC, CSCS, CSCP and Trainees  
BRING YOUR CARDIOGENIC SHOCK TEAM WITH YOU (adjusted day rate. Program, Attached)
- The 5th Annual **"The CANCARE Society Excellence in Cardiac Critical Care Research"**: An award to recognize excellence in cardiac critical care research. The award will be presented at the Canadian Cardiovascular Congress (CCC) and the recipient will receive \$500.00

#### Virtual Journal Clubs:

Year 2018-19 was the occasion to launch a new trainee led initiative on our Zoom web platform to discuss key new literature in cardiac critical care. Landmark papers in Cardiology and Cardiac Surgery Critical Care were presented by CANCARE Trainee members and commented live by CANCARE members and Paper authors. 15-30 participants from Canada, US and abroad were present to our 6 events.

1. December 5, 2018: Epinephrine versus Norepinephrine for Cardiogenic Shock After Acute Myocardial Infarction (JACC 2018)
2. February 7, 2019: Vasopressin versus Norepinephrine in Patients with Vasoplegic Shock after Cardiac Surgery (Anesthesiology 2017)
3. March 7, 2019: LV unloading during ECMO in patients with Cardiogenic Shock (JACC 2019)
4. April 4, 2019: Coronary Angiography after Cardiac Arrest without ST-Segment Elevation: The COACT Trial (NEJM 2019)
5. May 9, 2019: Standardized Team-Based Care for Cardiogenic Shock (JACC 2019)
6. September 5 2019. Demographics, Care Patterns, and Outcomes of Patients Admitted to Cardiac Intensive Care Units: The Critical Care Cardiology Trials Network Prospective North American Multicenter Registry of Cardiac Critical Illness. (JAMA Cardiology 2019)

## Educational Activities

### **Society Website and Social Media:**

Our current webmaster, Dr. Ansar Hassan, continues to manage the site, and oversees these activities. We are continually updating the website and our Facebook and Twitter feeds with new content.

**Facebook** (<https://www.facebook.com/pages/The-Canadian-Cardiovascular-Critical-Care-Society/209248575759718?ref=hl>)

**Twitter** (@CANCAREsociety)

## Research Activities

### **CANCARE Society Investigator Group (CSIG):**

Ongoing CANCARE Society Investigator Group Activities:

- The CANCARE Society will be engaging with international researchers (led by Dr. Christian Stoppe) on a joint initiative with the CCTN/CHFS entitled the EFFORT study. This study seeks to improve nutrition in the ECMO and VAD patients.

## National and International Collaborations

### **Canadian ECMO Interest Group:**

In 2015, the CANCARE Society has facilitated the initial meeting of a group of multidisciplinary partners, to openly share and participate in the generation of a national Canadian collaborative with the purpose of defining standard terminology, technique, protocols and data collection as they relate to the implementation, management and discontinuation of short term mechanical circulatory support (MCS) strategies in patients with cardiorespiratory collapse of varied etiologies. This group will again meet in Montreal to organize the Canadian group of ECMO-interested clinicians. Current and ongoing initiatives are to develop a minimum dataset for collaboration, and to present results of a survey of ECMO programs across Canada.

### **Society of Thoracic Surgery Critical Care Workforce:**

Dr. Arora continues to sit on this international workforce and was the Co-chair of the STS CC Symposium held in January 2019.

### **Enhanced Recovery after Surgery – Cardiac Surgery:**

Dr. Arora continues to sit on the Board of Directors of the Enhanced Recovery After Surgery – Cardiac Surgery ([www.erascardiac.org](http://www.erascardiac.org)). This group shares alignment with the CANCARE Society on improving perioperative outcomes in the vulnerable cardiac surgery patient.

## Membership and Elections

We currently have 56 regular members and 20 members-in-training.

CANCARE Society held its elections for Board of Director positions the AGM in Toronto at CCC 2018. Additional elections will be held at the CCC 2020 in Edmonton for positions that have come available over this past year.

## Future Directions

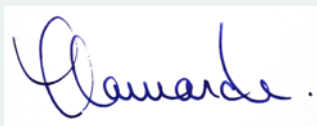
Key areas that CANCARE will seek to address over the coming 1-5 years:

Formalization of CSU-ALS training in Canada; Increased participation and collaboration to Canadian Critical Care Conferences; Development of Guidelines on Perioperative Care for Cardiac Surgery in collaboration with CCS, CSCS and the CJC; Creation and Mobilisation of the CANCARE QI Taskforce; Develop a strategy for an RCPSC Area of Focus Competency in Cardiovascular Critical Care (3-5 yr plan).

## Acknowledgements

The Board of Directors would like to address our sincere congratulations and gratefulness to Dr. Rakesh Arora for his endless enthusiasm and energy as Past President of CANCARE Society. As the President of our Society from its less than formal creation in 2009, to a much stronger 80-member society in 2018, Dr. Arora was a visionary who brought to the table key members of the interdisciplinary ICU team. He was the driver of our Society through its incorporation and recognition as an affiliate of the CCS. He now serves as Past President since 2018, but he continues to advocate for **crostalk** between cardiology, cardiac surgery and the critical care community. I would also wish to express my sincere thanks to the CCS staff members Sara Faubert, Danielle Hurtubise, Megan Amicone and Linda Palmer for their great support and collaboration during the past year.

Submitted Respectfully,



Yoan Lamarche, Co-Founder and President – The CANCARE Society

## **CONTACT US**

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