

UBC Cardiology Research News

Reporting April - June 2020

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Message from the Research Team

Dear Colleagues:

In spite of the ongoing pandemic, the group has continued to flourish in the research arena without missing a beat. This demonstrates the skills and commitment of a large and very talented group and so congratulations are due to all, particularly for the strong showing in obtaining grants and in garnering the national and international distinctions that are highlighted. But the COVID-19 crisis has hit the research infrastructure of the Division hard. We acknowledge the financial difficulties that have resulted for many of our research areas. While the financial impact of COVID-19 on research will be felt for years, it underscores the importance of moving forward in a sustainable manner as a Division, through initiatives such as the Centre for Cardiovascular Innovation (CCI), that can streamline research infrastructure and optimize cost recovery. Led by Dr. David Wood, CCI provides a transformative opportunity for everyone in our research community. We are hard at work in crystallizing the duties and responsibilities and in hiring new staff who will markedly augment our ability to develop researchers and run funded projects directly from within CCI. This new effort will require more attention from Dr. Sidhu whose role as Director of Research Operations for CCI is now also supported by Nicole Carbert, our newest hire as Research Manager for the UBC Division of Cardiology Research initiative. We all look forward to welcoming her to our group as she takes over the day to day tasks previously managed by Dr. Sidhu. As the world reshapes itself, cardiovascular sciences in this province will transition into a dynamically new national and international resource for research advances. We are delighted to congratulate all for their participation in this exciting new phase.



Sincerely,
G. B. J Mancini, M. Deyell, V. Sidhu, and N. Carbert

Centre for Cardiovascular Innovation



Centre for
Cardiovascular Innovation
Centre d'Innovation
Cardiovasculaire



We are pleased to announce the creation of Centre for Cardiovascular Innovation- Centre d'Innovation Cardiovasculaire (CCI-CIC) led by Dr. David Wood. Launched with the inclusion of 47 cardiovascular co-investigators, CCI-CIC investigates 16 major domains within cardiovascular medicine including arrhythmia, coronary and structural heart disease interventions, surgery, congenital heart disease, pediatrics, heart function, basic science and imaging. The provision of centralized physical infrastructure, research interventions, surgery, congenital heart disease, pediatrics, heart function, basic science and imaging. The provision of centralized physical infrastructure, research personnel, and institutional expertise will enhance the scope and success of cardiovascular research in BC.

Read more at: [VCHRI Stories](#) and <https://cci-cic.org/>

Awards, Honors, and Distinctions

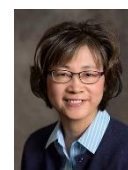
Sedlak, Tara

- 2020/21 Heart and Stroke MCI/SCI Award for Improving Heart and Brain Health for Women in Canada



Tsang, Teresa

- Teresa and the team were awarded CIHR Rapid Research Funding for COVID-19



Yeung, Darwin

- Received MITACS Training Research Award and appointed Assistant Professor



Awards and Honors (Cont'd)

Comber, Drake (Medical Student)

- UBC Faculty of Medicine Summer Student Research Program (\$3200)
PI: Dr. Zachary Laksman

Zhang, Alice (Undergraduate Student)

- 2020 Centre for Blood Research- School of Biomedical Engineering Summer Studentship Award
PI: Dr. Zachary Laksman

Grants Awarded

Deyell M (PI), Hawkins N, Thomas S, Schellenberg D, Kholi K, Reinsberg S, Tran E, Poon J and Thompson R

“Optimization of Radiation Delivery for the Treatment of Refractory Ventricular Tachycardia”. Total funds awarded: \$75,000 over 2 years. 2020 VCHRI Innovation and Translational Research Award.

Fordyce, C

“Variability in NOAC dose eligibility and adjustment dosing according to renal formulae and clinical outcomes: Insights from ORBIT AF.” Total funds awarded- \$76,000. Bayer Grant.

Luong C (PI), Tsang T, Straatman L, McKinney J and Abolmaesumi P

“Automated LVEF in Heart Function Clinic: AI augmented point of care ultrasound”. Total funds awarded: \$75,000 over 2 years. 2020 VCHRI Innovation and Translational Research Award.

Saw, J

“Cardiac CTA for COVID-19 Myocardial Injury Study: PI”. Total funds awarded: \$50,000. Fast Grants 2020.

“Cardiac COVID-19 (Cardiac-COVID) Myocardial Injury Prospective Registry: PI”. Total funds awarded: \$20,000. VCHRI COVID-19 Research Fund.

Sedlak, T

"2020/21 Mid-Career/Senior Career Investigator for Improving Heart and Brain Health for Women in Canada". Total funds awarded- \$50,000. Heart and Stroke Foundation of Canada.

Tsang, T (PI), Abolmaesumi P (co-PI), McGrail K (co-PI), Dhingra V, **Gin K**, Leong-Poi H, **Luong C** and **Tsang M**

"Point of Care Heart-Lung Imaging for Patients Presenting with COVID-19 Symptoms: Artificial Intelligence Precision Modeling for Prediction of Outcomes". Total funds awarded: \$260,326. CIHR Rapid Research Funding Competition.

Tsang T, Tsang M, Luong C, Gin K, Jue J, Nair P, Arishenkoff S, Lindsay H, Dhingra V, Abolmaesumi P, Mahasti E, **Vyselaar J**, Meneilly G and **Mayo J**

"Big Data and Artificial Intelligence for Risk Stratification of patients presenting with COVID symptoms Using Heart-Lung Ultrasound: A VCH Initiative Built for Frontline Workers". Total funds awarded: \$20,000. VCHRI COVID-19 Research Fund.

Tsang T (PI), Yeung D (co-PI), Gin K, Jue J, Luong C and **Nair P**

"Atrial Myopathy in Fabry Research Grant". Total funds awarded: \$260,000. Sanofi Grant.

Invited Presentations

Krahn, Andrew

- "Late Breaking Clinical Trials- Randomized Trials", Heart Rhythm Society, San Diego, USA (virtual), May 2020.
- "Late Breaking Clinical Trials- All about AFib- Meet the Trialists, Heart Rhythm Society," San Diego, USA (virtual), May 2020.
- "Late Breaking Clinical Trials- This Could Change My Practice- Meet the Trialists," Heart Rhythm Society, San Diego, USA (virtual), May 2020.

Laksman, Zachary

- "Ventricular Arrhythmias in Athletes", Heart Rhythm Society, San Diego, USA (virtual), May 2020.

Saw, Jacqueline

- "COVID-19 Cardiovascular Manifestations & Complications," CCS Webinar, April 2020.
- "Update on SCAD", University of Cleveland Cardiovascular Rounds Webinar, April 2020.
- "SCAD: All you need to know", "PCI in SCAD", "Antithrombotic Therapy and Surveillance Post- LAAC", SCAI Virtual, May 2020.
- "Post- Watchman Care- Anti-thrombotic Therapy and Echo Surveillance", TVT Connect, June 2020.
- "Update on SCAD" Shaare Zedek Medical Center, Jerusalem, Webinar, June 2020.
- "Cardiac-COVID and NACMI Registries", UBC Cardiology Grand Rounds, June 2020.

Tsang, Teresa

- "How to Assess the Atria", Canadian Society of Echocardiography 2020 Virtual Meeting, May 30, 2020.
- "Supercluster Project—Live Interview", CKNW Jill Bennett Radio Show.

Wood, David

- "TAVR and COVID-19: Experiences from Across the US and Latest Society Guidance", Webinar SCAI, April 2, 2020.
- "Impact of COVID-19 on the In-Hospital Management of TAVI Patients", Webinar Edwards Global, April 7, 2020.
- "Best Practice Sharing for Interventional Cardiologists during Covid-19", International Webinar, April 8, 2020.
- "Conversations with Leading Cardiovascular Specialists on the Front Line: Preparing for the Coming Surge", Webinar CAIC-ACCI/SCAI, April 8, 2020.
- "TAVI in the Time of COVID-19", Webinar Europe, April 14, 2020.
- "Impact of COVID-19 on the In-Hospital Management of Cardiovascular Interventions, Webinar, New Zealand, April 14, 2020.
- "Impact of COVID-19 on the In-Hospital Management of TAVI", Webinar, Australia, April 2020.
- "Minimalist TAVR During the Pandemic", "A new era for TAVR: Lessons learned from the pandemic", Video Podcast, SCAI & CAIC-ACCI, April 2020.
- "COVID-19 and Acute Myocardial Infarction" Webinar, SCAI & CAIC-ACCI, April 23, 2020.
- "Podcast with the Presidents #1: Safe reintroduction of cardiovascular services during the pandemic", "Podcast with the Presidents #2: Safe reintroduction of cardiovascular services during the pandemic: Focus on Invasive Procedures", "Podcast with the Presidents #3: Safe reintroduction of cardiovascular services during the pandemic: Focus on Diagnostic Procedures", Video Podcast, SCAI/CAIC-ACCI, April-May 2020.

- “Fundamental Minimalist Principles in TAVR for Same or Next-Day Discharge”, “TAVR – Large Bore Vascular Closure Techniques and New Devices”, “Balloon Expandable Sapien TVR System”, TVT Connect, May-June 2020.
- “Shaping Care Pathways for Severe Aortic Stenosis Patients in a COVID-19 Context”, euroPCR, June 26, 2020.

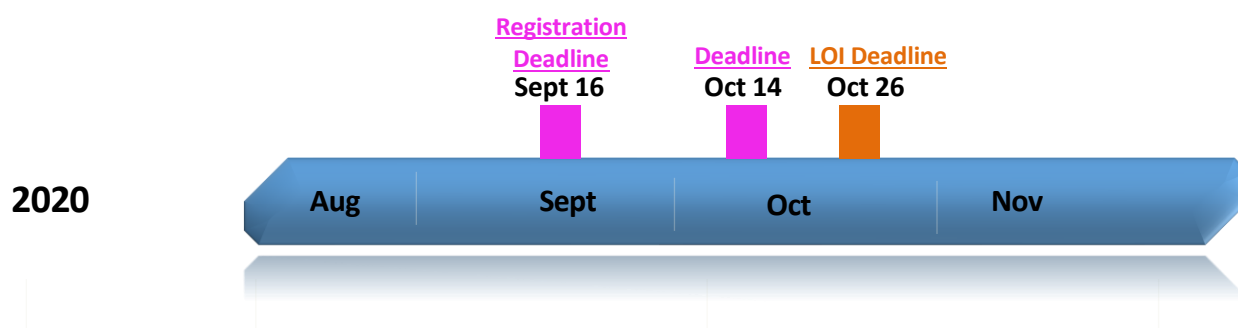
Upcoming Grant Competitions

CIHR Project Grant

~ 1 month

VCHRI ITA Award

~ 2 months



PUBLICATIONS

1. Allan KS, Aves T, Henry S, Banfield L, Victor JC, Dorian P, Healey JS, **Andrade JG**, Carroll SL, McGillion MH. Health-Related Quality of Life in Patients With Atrial Fibrillation Treated With Catheter Ablation or Antiarrhythmic Drug Therapy: A Systematic Review and Meta-analysis. *CJC Open*. 2020 Apr 2; 2(4): 286-295. doi: 10.1016/j.cjco.2020.03.013. PMID: 32695978; PMCID: PMC7365832.
2. **Andrade JG**, **Deyell MW**, Verma A, Macle L, Khairy P. The Cryoballoon vs Irrigated Radiofrequency Catheter Ablation (CIRCA-DOSE) Study Results in Context. *Arrhythm Electrophysiol Rev*. 2020 Jun 3; 9(1):34-39. doi:10.15420/aer.2019.13. PMID: 32637118; PMCID: PMC7330729.
3. **Andrade JG**, Godin R, Nault I. Large-scale implementation of a pragmatic atrial fibrillation screening program in Canadian community practice. *Pacing Clin Electrophysiol*. 2020 May 27. doi: 10.1111/pace.13966. Epub ahead of print. PMID: 32460368.14.
4. **Andrade JG**. Cryoballoon ablation for pulmonary vein isolation. *J Cardiovasc Electrophysiol*. 2020 Apr 1. doi: 10.1111/jce.14459. Epub ahead of print. PMID:32239557.

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6. Baine KR, Engström T, Smits PC, Gershlick AH, James SK, Storey RF, **Wood DA**, Mehran R, **Cairns JA**, Mehta SR. Complete vs Culprit-Lesion-Only Revascularization for ST-Segment Elevation Myocardial Infarction: A Systematic Review and Meta-analysis. *JAMA Cardiol*. 2020 May 20: e201251. doi: 10.1001/jamacardio.2020.1251. Epub ahead of print. PMID: 32432651; PMCID: PMC7240651.
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14. Chandrasekhar J, Thakkar J, Starovoytov A, **Mayo J, Saw J.** Characteristics of spontaneous coronary artery dissection on cardiac magnetic resonance imaging. *Cardiovasc Diagn Ther.* 2020 Jun;10(3):636-638. doi: 10.21037/cdt.2020.02.01. PMID: 32695643; PMCID: PMC7369282.
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