

UBC Cardiology Research News

Reporting July-September 2020

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Message from the Research Team

Hot on the heels of another wave in the COVID-19 pandemic and the social distancing edicts, it is very gratifying to see the continued progress in our research efforts during these daunting times. It is especially delightful to see distinction spanning the spectrum of our Division, from its leader to its newest members and right into the wellspring of the future, namely the successful researchers being mentored by our faculty. The Centre for Cardiovascular Innovation- Centre d'Innovation Cardiovasculaire (CCI-CIC) also continues to mature and has allowed the Division to begin to associate with a growing number of research experts with whom the Division members can flourish in the future. It is important for us to reinforce the philosophy of parallel but interdependent development of the Division (notably CAPP) and CCI-CIC. The Division will continue to focus primarily on research mentorship that helps to bring good ideas to a level of strength that achieves funding, while CCI-CIC will provide the sophisticated machinery that ensures successful execution of these funded ideas. In the process, the vast array of knowledgeable personnel who can advise and help with everything from statistics to off-site ethics approvals will be much more readily available to all of us, right in our own backyard. It has been a very exciting few months and the fruits of this effort now will be plentiful for decades to come. Congratulations to all who have continued to expand the Division's research and who continue to optimize clinical care through their impactful ideas.

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

Awards, Honors, and Distinctions

Krahn, Andrew

- 2020 CCS Covid-19 Humanitarian Award
- 2020 Dr. Harold Segall Award of Merit
- 2020 HRS COVID-19 Task Force



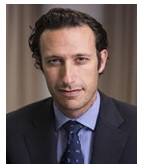
Laksman, Zachary

- 2020 CCS Young Investigator Award, Runner Up
- UBC tenured Cardiology/Biomedical Engineering Academic Faculty Position



Leipsic, Jonathan

- 2020 Distinguished Achievement Award for overall excellence- Senior Faculty in areas of research, education, and service



Luong, Christina

- Awarded UBC Faculty of Medicine New Faculty Research Award (\$10,000)



Ashraf, Mishal (MSc Candidate)

- MITACS research training award, "Morphological profiling in human stem cell derived cardiomyocytes" (\$45,000 per annum).
- Second place, Rapid Fire Presentation, BC Regenerative Medicine Conference 2020 Supervisor: Dr. Zachary Laksman

Huang, Kate (PhD Candidate)

- First place, Rapid Fire Presentation, BC Regenerative Medicine Conference 2020 Supervisor: Dr. Zachary Laksman

Grants Awarded

Arbour L, Swayne L and **Krahn A**

- “When Rare Becomes Common: The impact of the AnkB p.S646F variant on heart disease in a Northern BC First Nation.” 2020-2025 Co-Applicant. Total funds awarded: \$1,384,650. Canadian Institute of Health Research.

Lettre G, Tadros R, Dubé M, Talajic M, Tardiff JC, Mongeon FP, Tournoux F, Cadrin-Tournoux J, Fournier A, Adler A, Arbour L, Crean A, Grant A, Healey J, **Krahn A, Laksman Z**, Roberts J, Seifer C and Steinberg C

- “Complex genetics of hypertrophic cardiomyopathy: Towards an integration of polygenic risk in clinical care”. 2020–2025 Co-Applicant. Total funds awarded: \$1,038,180. Canadian Institute of Health Research.

Protze S, **Laksman Z (Co-PI)**, Laflamme M, Bader G and Efimov I

- “Developing stem cell-based biological pacemakers for patients with sick sinus syndrome”. Total funds awarded: \$150,000. Stem Cell Network.

Tsang T (PI), Palepu A, Granville D, Knight Meredith A, Clough D, Neilly M, Grenier A

- “Pandemic Preparedness for COVID Wave 2”. Total funds awarded: \$98,000. Special COVID-19 Strategic Investment Fund (SIF).

Tsang T (PI), Yeung D (Co-PI), Gin K, Jue J, Tsang M, Luong C, Nair P

- “Cardiomyopathy and Strain Imaging,” Principle Investigator: Teresa Tsang. Total funds awarded: \$212,000. Sanofi Genzyme Grant.

Invited Presentations

Andrade, Jason

- “Ask the Expert.” iMedicus Broadcast. July 15, 2020
- “AF and CAD.” CCRN. July 16, 2020
- “Redefining AF categorisation.” Arrhythmia Academy – UK. July 21, 2020
- “Innovative approaches to arrhythmia management in COVID.” Medtronic Webinar. July 21, 2020
- “Cryoballoon Ablation.” Catheter and Surgical Therapeutics, Chicago. August 22, 2020.

- “Artificial intelligence and electrophysiology – New frontiers.” European Society of Cardiology. August 29, 2020.
- “BC AF Clinics - ESC update.” September 23, 2020
- “ECGs & Heart Patient.” CRASH 2020. September 24, 2020
- “Invasive monitor and AF ablation.” Medtronic Webinar. September 29, 2020.
- “AF and Diabetes.” September 30, 2020

Krahn, Andrew

- “Big data analysis and artificial intelligence in unravelling inherited arrhythmia syndromes”. 8th Annual Meeting of the Canadian Heart Rhythm Society (CHRS), (virtual), September 11, 2020.
- “What the Clinician Needs to know about Genetic Testing,” Kansas City Heart Rhythm Symposium 2020 (virtual), August 14, 2020.

Saw, Jacqueline

- “A case of nameless LAA anatomy for closure,” CVI Digital 2020, July 2020
- “Lost in the cardiac chambers,” CVI Digital 2020, July 2020.
- “Complications with LAA Closure,” CVI Digital 2020, July 2020.
- “Planning and follow-up of LAA occlusion,” SCCT 2020 (virtual), July 2020.
- “Challenging Amulet Case,” CSI 2020 (virtual), July 2020.
- “Complications with LAAC,” TCT Connect (virtual), September 2020.
- “Controversies in LAAC (panelist),” TCT Connect (virtual), September 2020.
- “Challenging Watchman FLX cases from Belfast (discussant),” TCT Connect (virtual), September 2020.
- “How to assess and treat SCAD,” TCT Connect (virtual), September 2020.
- “Use of ICE for LAA Closure,” TCT Connect (Abbott sponsored) (virtual), September 2020.
- “Optimal approach with Amulet Implant,” TCT Connect (Abbott sponsored) (virtual), September 2020.
- “Epidemiology of AF and Stroke,” CRT Online, September 2020.

Tsang, Teresa and Luong, Christina

- “CSE Spotlight Session: Future of Echocardiography in a Post-Pandemic World,” Canadian Cardiovascular Congress (virtual), September 9 and 11, 2020.

Wood, David

- “Streamlined TAVR: Previously Optional But Now Essential”, Interventional Cardiology, International Grand Rounds, Shaare Zedek Medical Center, Jerusalem, July 13, 2020.

PUBLICATIONS

1. Anastasius M, Godoy M, Weir-McCall JR, Bapat V, **Sathananthan J**, Hensey M, Sellers SL, Cheung A, Ye J, **Wood DA**, **Leipsic J**, **Webb J**, Blanke P. Reference dimensions of stented surgical aortic bioprostheses for valve size determination. *EuroIntervention*. 2020 Aug 7;16(6):e502-e506. doi: 10.4244/EIJ-D-19-00921. PMID: 32011284.
2. Anastasius M, Maggiore P, Huang A, Blanke P, Patel MR, Nørgaard BL, Fairbairn TA, Nieman K, Akasaka T, Berman DS, Raff GL, Hurwitz Koweek LM, Pontone G, Kawasaki T, Rønnow Sand NP, Jensen JM, Amano T, Poon M, Øvrehus KA, Sonck J, Rabbat MG, Mullen S, De Bruyne B, Rogers C, Matsuo H, Bax JJ, **Leipsic J**. The clinical utility of FFR_{CT} stratified by age. *J Cardiovasc Comput Tomogr*. 2020 Sep 23:S1934-5925(20)30414-7. doi: 10.1016/j.jcct.2020.08.006. Epub ahead of print. PMID: 33032976.
3. **Andrade JG**, Cheung CC, **Deyell MW**. Hemoptysis and Cryoballoon Ablation: Is it Crystal Clear? *JACC Clin Electrophysiol*. 2020 Jul;6(7):783-785. doi: 10.1016/j.jacep.2020.05.033. PMID: 32703559.
4. **Andrade JG**, **Deyell MW**, Verma A, Macle L, Champagne J, Leong-Sit P, **Novak P**, Badra-Verdu M, Sapp J, Khairy P, Nattel S. Association of Atrial Fibrillation Episode Duration With Arrhythmia Recurrence Following Ablation: A Secondary Analysis of a Randomized Clinical Trial. *JAMA Netw Open*. 2020 Jul 1;3(7):e208748. doi: 10.1001/jamanetworkopen.2020.8748. PMID: 32614422; PMCID: PMC7333024.
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6. Banach M, Duell PB, Gotto AM Jr, Laufs U, Leiter LA, **Mancini GBJ**, Ray KK, Flaim J, Ye Z, Catapano AL. Association of Bempedoic Acid Administration With Atherogenic Lipid Levels in Phase 3 Randomized Clinical Trials of Patients With Hypercholesterolemia. *JAMA Cardiol*. 2020 Jul 1;5(10):1-12. doi: 10.1001/jamacardio.2020.2314. Epub ahead of print. PMID: 32609313; PMCID: PMC7330832.
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8. Bennett MT, Roston TM, Sanatani S, **Krahn AD**. Chapter 9: Bradycardias and Tachycardias: Acquired and Inheritable. In: *Syncope An Evidence-Based*

- Approach (2nd Edition) (editors: Michele Brignole, David G. Benditt). Publisher: Springer Nature Switzerland AG (Gewerbstrasse, Switzerland) 2020.
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