

UBC Cardiology Research News

Reporting February-August 2021

In this Issue:

1. **Message from the Research Team**
2. **Awards, Honors, & Distinctions**
3. **Grants Awarded**
4. **Invited Presentations**
5. **Upcoming Funding Deadlines**
6. **Publications**

Message from the Research Team

Dear Colleagues: We are delighted to update you on the research achievements over the past 7 months. Our quarterly cycle has slipped a bit due to the incredible pace and progress in the development of the Cardiovascular Centre for Innovation which has further enhanced access to high quality grant development and grant execution capabilities for the Division.

Even so, we document the continued productivity of all members both in publications and in promulgation of their successes through national and international speaking invitations. It is especially rewarding to note the Faculty's recognition of this research transformation of the UBC Division through the recognition of Dr. Sidhu's tremendous efforts as Administrative Research Director for the Division and now for CCI-CIC. She continues to be an integral support to Nicole Carbert, her successor, and continues to meet with us to ensure optimal synergy between the Division and CCI-CIC. Moreover, the Division remains strongly represented in all key CCI-CIC decision-making committees including, for example, the Operations Committee.

We are also delighted to showcase our career development role through CAPP Pilot Project funding success of Dr. Christina Luong and the continued national and international success of her research mentor, Dr. Teresa Tsang. We sincerely congratulate the entire research enterprise for these tremendous achievements.

Sincerely, G B John Mancini, Marc Deyell, Nicole Carbert.

Awards, Honors, and Distinctions

Andrade, Jason

- 2021 Donald M Whitelaw Award for Outstanding Grand Rounds



Luong, Christina

- CAPP Pilot Award - \$60,000



Sathananthan, Janarthanan

- 2021 Donald M Whitelaw Award for Outstanding Grand Rounds



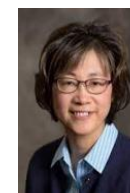
Sidhu, Vishaldeep

- 2021 Staff Early Career Excellence Award



Tsang, Teresa

- Appointed Liaison for Canadian Society of Echo Asia Pacific Association of Echocardiography
- Awarded \$150,000 from COVID-19 Rapid Research Fund



Awards, Honors, and Distinctions (Cont'd)

Balthazaar, Shane (PhD)

- PhD Thesis Defence, Cardiac Function in Spinal Cord Injuries, UBC Department of Experimental Medicine & UBC/VGH Echo Lab

Lee, Christopher (Echocardiology Fellow)

- Top Prize, "COVID-19 Diagnosis by Point of Care Lung Ultrasound: A Novel Deep Learning Artificial Intelligence Method!", CSE Conference 2021

Wong, Eric (Resident)

- John Mancini Award Winner, UBC Resident Research Day

Yim, Jeffrey (Resident)

- Featured Research Award Finalist, "Cardiac Phenotyping OF SARS-COV-2 IN BC: A PROSPECTIVE ECHO STUDY WITH STRAIN IMAGING", CCC 2021
PI: Dr. Teresa Tsang
- Dodek Cardiology Award Winner, UBC Resident Research Day

Poznanski, Olivia (Resident)

- Dodek Cardiology Award Winner, UBC Resident Research Day

Grants Awarded

Reed J, **Andrade, JG (Co-I)**, Wells GA, Parkash R, Dorian P

- "A Multi-Site Population Health Study Evaluating the Physical Activity Levels of Patients with Atrial Fibrillation (CANSURVEY-AF)". 2021 Co-Applicant. Total funds awarded: \$549,936. Canadian Institute of Health Research.

Joza J, **Andrade JG (Co-I)**, Verma A

- "Left Bundle Pacing vs. Standard Right Ventricular Pacing for Heart Failure". 2021 Co-Applicant. Total funds awarded: \$288,185. Heart and Stroke.

Rivard L, **Andrade JG (Co-I)**, Dorian P, Healey J

- “Blinded Randomized trial of Anticoagulation to prevent Ischemic stroke and Neurocognitive impairment in Atrial Fibrillation study”. 2021-2026 Co-Applicant. Total funds awarded: \$1,372,410. CIHR Project Grant.

Brunham L (PI), **Fordyce C (Co-PI)**

- “The Advancing Cardiac Care-based Rapid Assessment and Treatment of hypercholesterolemia (the ACCURATE study)”. Total funds awarded: \$75,000. 2021 VCHRI Innovation & Translational Research Award.

Hawkins, N (PI), Andrade, JG (Co-I), Deyell, M (Co-PI), Ho K

- “Atrial Ectopy for the Prediction of Incident Atrial Fibrillation”. Principle Investigator: Nathaniel Hawkins. Total funds awarded: \$90,000. CCS.

Luong, Christina

- “Artificial Intelligence Empowered Cardiac Ultrasound in the Setting of CAD”. 2021-2023. Total funds awarded: \$60,000. UBC Division of Cardiology's Academic Practice Plan.

Abolmaesumi P, **Tsang T (Co-PI)**

- “Next generation machine learning technologies for democratizing healthcare through point of care ultrasound”. 2021-2024 Co-Applicant. Total funds awarded: \$495,000. NSERC.

Invited Presentations

Andrade, Jason

- “Top 10 Take-aways from the CCS AF Guidelines,” LHSC Grand Rounds, February 8, 2021.
- “Early Intervention for AF,” Radcliffe Europe, February 24, 2021.
- “Early Intervention for AF,” Asia-Pacific Scientific Exchange. February 26, 2021
- “AF Classification,” Western AF, February 27, 2021.
- “Relationship between AF burden and Quality of Life”; “Biophysics of Cryoablation,” CryoSummitt 2021, March 6, 2021.
- “Atrial Fibrillation Ablation in 2021: Lessons from the CIRCA-DOSE and EARLY-AF Randomized Clinical Trials,” Stanford Cardiovascular Grand Rounds, March 25, 2021.
- “Cold or heat for ablation of AF?”; “Clinical trials that shaped or will shape clinical practice,” 2nd Annual Iasi Arrhythmia Forum 2021, April 2, 2021.
- “Atrial Fibrillation Ablation in 2021: Lessons from the CIRCA-DOSE and EARLY-AF Randomized Clinical Trials,” University of Chicago Grand Rounds, April 16, 2021.
- “PVI Alone should be the first ablation for persistent AF,” Great Debates 2021, April 22, 2021.

- “Rate vs. Rhythm for the HF patient – debate,” Virtual Heart Failure and Rhythm Summit: Moving towards Success, April 29, 2021.
- “AF Burden should as an efficacy parameter,” European Heart Rhythm Association, April 24, 2021.
- “Rate vs. Rhythm in 2021,” Heart Failure Update, May 07, 2021.
- “Early AF ablation – the evidence is starting to build,” London Arrhythmia Summit 2021. UK, May 07, 2021.
- “AF Ablation as First-Line Therapy: Benefit vs Risk,” Virtual EP Connect, May 21, 2021
- “Telemedicine and NOACs: A risk worth taking?” Cardiovascular Update, May 29, 2021.
- “Atrial fibrillation 2021 guidelines update,” 12th Annual State of the Heart Symposium, June 9, 2021.
- “AF Ablation as First-Line Therapy,” Sacre-Coeur Grand Rounds, June 11, 2021
- “New Approaches to the Management of Atrial Fibrillation,” Heart Rhythm Association of the Spanish Society of Cardiology, June 22, 2021.
- “EARLY-AF - AF Ablation as a First Line Therapy,” Scientific Exchange, July 15, 2021.
- “AF Ablation as First-Line Therapy – Are we there yet?”; “The Evolution of Early Detection and Rhythm Treatment of Atrial Fibrillation”; “Early AF ablation,” Heart Rhythm Scientific Sessions, July 28, 2021.
- “Anticoagulation in Obese Patients with AF”; “Managing AF in Younger Patients and Athletes”; “Wearable Technology for Heart Rate Monitoring,” The Wave: CV Conversation Series, August 13, 2021.
- “Early Recurrence of AF after PVI,” Heart Rhythm TV, August 13, 2021.
- “First-line cryoablation for Atrial Fibrillation: Turning evidence into practice,” ESC Congress, August 27, 2021.
- “Balloon-Based Options”; “Same Day Discharge after AF Ablation,” Catheter and Surgical Therapeutics Chicago, August 28, 2021.

Grewal, Jasmine

- “Plumbing Snafud – Intracardiac Shunts,” CSE 2021 Virtual Annual Echo Weekend, April 17 – 18, 2021.

Krahn, Andrew

- “AF in Inherited Arrhythmias- A Different Beast?” 14th Western A-Fib Symposium (virtual), Park City Utah, February 27, 2021.
- “Current Controversies in the Management of Inherited Arrhythmia Syndrome.” American College of Cardiology (virtual), May 15, 2021.
- “ECGs With the Experts: Practical Considerations for the Cardiovascular Clinician (co-chair),” American College of Cardiology (virtual), May 15, 2021.

Luong, Christina

- “Stress and Contrast echo for diagnosis of CAD,” CSE 2021 Virtual Annual Echo Weekend, April 17 – 18, 2021.

Mancini, John

- “South Asian Women's Heart Health Presentations - The New Dyslipidemia Guidelines and Women's Health,” What You Need to Know About Indigenous and South Asian Women's Heart Health (Virtual), Apr 10, 2021.
- “What do ISCHEMIA and COURAGE mean to current practice?”, Cardiology Clinical Conundrums Journal Club, The Durham Regional Cardiology Journal Club, May 12, 2021.
- “2021 Lipid Guidelines,” UBC Division of Cardiology Grand Rounds, Vancouver BC, May 13, 2021.
- “2021 CCS Lipid Guideline & Implications for Secondary Prevention CVD,” University of Saskatchewan College of Medicine Cardiology Grand Rounds (Virtual), May 14, 2021.
- “New 2021 CCS Lipid Guidelines,” Kelowna Cardiology Journal Club, June 3, 2021.
- “2021 CCS Guidelines For The Management Of Dyslipidemia In Adults: Highlights For Practitioners,” UBC Cerebrovascular Conferences, Vancouver (Virtual) June 22, 2021.

Saw, Jacqueline

- “Update on SCAD,” Women's Heart Health Program by Bayer, Feb 2021.
- “SCAD imaging on angiography and OCT,” CRF CLIMB Imaging Session, Feb 2021.
- “SCAD: You can only treat what you recognize,” CRT Online, Feb 2021.
- “Left Atrial Appendage Closure Update,” UBC Hot Topics, Feb 2021.
- “CT Imaging for LAA closure review,” Watchman Implant Meeting Boston Scientific, Mar 2021.
- “CT Imaging Pre & Post-Procedure,” International Dead Sea Symposium, Mar 2021.
- “ICE for challenging LAA anatomy”; “ICE-guided LAAC Live Case (Primary Operator),” LAAO Summit Webinar, Mar 2021.
- “SCAI Live LAAC Case from Emory (panelist),” SCAI Virtual Webinar, Mar-April 2021.
- “Basics of ICE imaging for transseptal puncture”; “Transseptal puncture equipment and techniques”; “Transseptal puncture with LAAC,” Baylis Fellows Course, Mar 2021.
- “Indications and Steps for LAAC,” IASI Conference, Apr 2021.
- “Update on SCAD,” UBC cardiology resident half-day teaching, Apr 2021.
- “How to prevent and manage LAAC device embolization,” ISLAA, Apr 2021.
- “New transseptal wire, Versacross,” CRT Online, Apr 2021.
- “LAAC Step-by-step,” SCAI On Demand, Apr 2021.
- “Case Selection: Indications & New Devices,” SCAI, Apr 2021.
- “Is LAAC Ever an Urgently Needed procedure?”; “SCAD Long Term Management & Future Imaging. ACC, May 2021.
- “Update on SCAD,” Western University (London, Ont) Cardiovascular Grand Rounds, May 2021.
- “Use of FEops computer simulation to aid LAAC,” EuroPCR, May 2021.
- “LAA Anatomy (the basics),” CLIMB, Jun 2021.
- “LAA Closure Update,” SCAI Seminar India, Jun 2021.
- “Left atrial appendage occlusion,” ACC CathSAP, July 2021.
- “Preprocedural Planning with CT for LAAC,” APCASH Hong Kong Webinar, July 2021.

- “Periprocedural CTA for LAAC and Computer Simulation,”; “ICE Imaging for LAAC,” CLIMB, July 2021.
- “SCAD How to treat”; “LAAC Device Embolization: Snare, Retrieve, and Save,” CVI Webinar, July 2021.
- “LAAC Stroke Risk Management in AF, how and for everybody?”. ACC Asia Singapore, July 2021.
- “What is the best sizing strategy? Echo, angiography, CTA, 3D printing?”, CICT Symposium, July 2021.
- “Top 1-5 Recommendations from the Lancet Women & Cardiovascular Disease Commission,” ESC, July 2021.
- “Peri-Device Leaks: Do They Need to Be Plugged or Left Alone - A Proposed Strategy,” TVT, July 2021.
- “Top 1-5 Recommendations Lancet Women CVD Commission (interview),” ACCEL, July 2021.
- “LAAC Tips/Tricks, ICE, Steerable Sheath with Amulet,” Abbott Team Webinar, Aug 2021.
- “Amulet, Steerable Sheath, VersaCross Large Access (Live Case),” SPAF Virtual Conference, Aug 2021.

Tsang, Michael

- “Post MI Complications: VSD, free wall rupture,” CSE 2021 Virtual Annual Echo Weekend, April 17 – 18, 2021.
- “Machine Learning-Empowered Echocardiography for Assessment of Aortic Stenosis,” President’s Circle ePoster presentation at American Society of Echocardiography, June 18 - 21, 2021.

Tsang, Teresa SM

- “AI: A Time to Pump – Systolic Function,” CSE 2021 Virtual Annual Echo Weekend, April 17 – 18, 2021.
- “Deep Video Networks for Automatic Assessment of Aortic Stenosis in Echocardiography,” ASMUS2021, September 27, 2021.
- “Clinical Pathologic Conference: Case Records of the Massachusetts General Hospital,” ASE 2021, June 19, 2021.

Wood, David

- “TAVI in young patients: coronary access and valve durability,” Virtual SOLACI CACI Symposium, Buenos Aires, August 2, 2021.
- TAVR Master Class: TAVR My Way – Start to Finish & Tips n’ Tricks. TVT, Miami, July 20, 2021.
- “How Do We Manage CAD and Aortic Stenosis?”, Virtual American College of Cardiology Conference, May 15, 2021.
- Panelist, North American COVID-19 Myocardial Infarction (NACMI) Registry SCAI & CAIC-ACCI Webinar, May 6, 2021.

- “Modern Day Management of Aortic Stenosis in Younger Patients,” SCAI 2021 Virtual Scientific Sessions, April 30, 2021.
- “TAVI Haemodynamics and Outcomes: Are We Measuring Appropriately?”, Transcatheter Interventions Online, Apr 14, 2021.
- “Percutaneous Access and Repair During TAVR: Results and How to Treat Complications,” Top to Toe Transcatheter Solutions Conference 2021, Feb 11-13, 2021.

Upcoming Funding Deadlines

CAPP Pilot Competition

~ 2 weeks

VCHRI ITA Award

~ 2 months



PUBLICATIONS (June - August)

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2. Alqarawi W, Dewidar O, Tadros R, Roberts JD, Steinberg C, MacIntyre CJ, **Laksman ZWM**, Green MS, Nair G, Wells G, **Krahn AD**. Defining idiopathic ventricular fibrillation: A systematic review of diagnostic testing yield in apparently unexplained cardiac arrest. *Heart Rhythm*. 2021 Jul;18(7):1178-1185. doi: 10.1016/j.hrthm.2021.03.030. Epub 2021 Mar 26. PMID: 33781978
3. **Andrade JG**, Wazni OM, Kuniss M, **Hawkins NM**, **Deyell MW**, Chierchia GB, Nissen S, Verma A, Wells GA, Turgeon RD. Cryoballoon Ablation as Initial Treatment for Atrial Fibrillation: JACC State-of-the-Art Review. *J Am Coll Cardiol*. 2021 Aug 31;78(9):914-930. doi: 10.1016/j.jacc.2021.06.038. PMID: 34446164. Review.
4. Asgar AW, Ouzounian M, Adams C, Afilalo J, Fremes S, **Lauck S**, **Leipsic J**, Piazza N, Rodes-Cabau J, Welsh R, Wijeyesundera HC, **Webb JG**. Clarifying Transcatheter Aortic Valve Implantation Training Requirement Recommendations for Individuals Currently in Practice. 2019 CCS TAVI Position

- Statement Committee. *Can J Cardiol*. 2021 Jun 17;S0828-282X(21)00308-1. doi: 10.1016/j.cjca.2021.06.006. Online ahead of print. PMID: 34147621
5. Berti S, Pastormerlo LE, Korsholm K, **Saw J**, Alkhouli M, Costa MP, Odenstedt J, Packer EJ, Tondo C, Santoro G, Nielsen-Kudsk JE. Intracardiac echocardiography for guidance of transcatheter left atrial appendage occlusion: An expert consensus document. *Catheter Cardiovasc Interv*. 2021 Jun 4. doi: 10.1002/ccd.29791. Online ahead of print. PMID: 34086394
 6. Bocchino PP, Angelini F, Franchin L, D'Ascenzo F, Fortuni F, De Filippo O, Conrotto F, Alfonso F, **Saw J**, Escaned J, Liu C, De Ferrari GM. Invasive versus conservative management in spontaneous coronary artery dissection: A meta-analysis and meta-regression study. *Hellenic J Cardiol*. 2021 Jul-Aug;62(4):297-303. doi: 10.1016/j.hjc.2021.02.013. Epub 2021 Mar 6. PMID: 33689856
 7. Bouchard K, Coutinho T, Reed J, Lalande K, Tarannum CN, So D, **Saw J**, Mulvagh S, Tulloch H. Recovering from spontaneous coronary artery dissection: Patient-reported challenges and rehabilitative intervention needs. *Health Psychol*. 2021 Jul;40(7):472-479. doi: 10.1037/hea0001086. PMID: 34435799
 8. Brooks SG, **Cheung A**. A Call for Climate Justice in Medical Curricula. *Acad Med*. 2021 Aug 10. doi: 10.1097/ACM.0000000000004344. Online ahead of print. PMID: 34380927
 9. **Brunner NW**, Legkaia L, Al-Ahmadi F, Lee L, Norena M, Lam CSM, Yim JJ, **Luong C**, Weatherald J, Nador RG, Levy RD, Swiston JR. Does community size or commute time affect severity of illness at diagnosis or quality of care in a centralized care model of pulmonary hypertension? *Int J Cardiol*. 2021 Jun 1;332:175-181. doi: 10.1016/j.ijcard.2021.03.035. Epub 2021 Mar 18. PMID: 33746049
 10. Cammann VL, Sarcon A, Szawan KA, Würdinger M, Azam S, Shinbane J, Seifert B, Ghadri JR, **Saw J**, Templin C. Clinical characteristics and outcomes of patients with takotsubo syndrome versus spontaneous coronary artery dissection. *Cardiol J*. 2021 Jun 24. doi: 10.5603/CJ.a2021.0065. Online ahead of print. PMID: 34165180
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 12. **Cheung CC**, Nattel S, Macle L, **Andrade JG**. Atrial Fibrillation Management in 2021: An Updated Comparison of the Current CCS/CHRS, ESC, and AHA/ACC/HRS Guidelines. *Can J Cardiol*. 2021 Jun 26;S0828-282X(21)00313-5. doi: 10.1016/j.cjca.2021.06.011. Online ahead of print. PMID: 34186113 Review.
 13. **Cheung CC**, Roston T, Davies B, **Grewal J**, **Laksman ZW**, **Krahn AD**. Process of Care and a Practical Toolkit for Evaluating and Managing Arrhythmic Risk in the Cardiogenetic Pregnant Patient. *Can J Cardiol*. 2021 Aug 17;S0828-282X(21)00647-4. doi: 10.1016/j.cjca.2021.08.004. Online ahead of print. PMID: 34416260 Review.

14. **Cheung C**, Scheinman M, Hsia H. A Heartwarming Story. *JACC Clin Electrophysiol.* 2021 Jul 21:S2405-500X(21)00540-5. doi: 10.1016/j.jacep.2021.06.007. Online ahead of print. PMID: 34332875
15. Chuang MA, Akodad M, Chatfield AG, **Wood D**, **Sathananthan J**, **Leipsic JA**, Blanke P, **Cheung A**, **Webb JG**, Ye J. Stent Frame Fracture and Late Atrial Migration of a Mitral SAPIEN 3 Transcatheter Valve. *JACC Cardiovasc Interv.* 2021 Jul 26;14(14):1610-1612. doi: 10.1016/j.jcin.2021.05.031. Epub 2021 Jun 30. PMID: 34217626
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17. Dezaki FT, **Luong C**, Ginsberg T, Rohling R, **Gin K**, Abolmaesumi P, **Tsang T**. Echo-SyncNet: Self-Supervised Cardiac View Synchronization in Echocardiography. *IEEE Trans Med Imaging.* 2021 Aug;40(8):2092-2104. doi: 10.1109/TMI.2021.3071951. Epub 2021 Jul 30. PMID: 33835916
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19. Davies B, Bartels K, Hathaway J, Xu F, Roberts JD, Tadros R, Green MS, Healey JS, Simpson CS, **Sanatani S**, Steinberg C, Gardner M, Angaran P, Talajic M, Hamilton R, Arbour L, Seifer C, Fournier A, Joza J, **Krahn AD**, Lehman A, **Laksman ZWM**. Variant Reinterpretation in Survivors of Cardiac Arrest With Preserved Ejection Fraction (the Cardiac Arrest Survivors With Preserved Ejection Fraction Registry) by Clinicians and Clinical Commercial Laboratories. *Circ Genom Precis Med.* 2021 Jun;14(3):e003235. doi: 10.1161/CIRCGEN.120.003235. Epub 2021 May 7. PMID: 33960826
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22. Fowokan A, Frankfurter C, Dobrow MJ, Abrahamyan L, McDonald M, **Virani S**, Harkness K, Lee DS, Pakosh M, Ross H, Grace SL. Referral and access to heart function clinics: A realist review. *J Eval Clin Pract*. 2021 Aug;27(4):949-964. doi: 10.1111/jep.13489. Epub 2020 Oct 5.PMID: 33020996 Review.
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