

UBC Cardiology Research News

Reporting Sep 2021-Feb 2022

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Message from the Research Team

Dear Colleagues: It gives us great pleasure to showcase the research achievements of the UBC Division of Cardiology over the past quarter.

We see the increasing momentum of success in obtaining external grant awards, in having an influential presence in the international and national academic community and in publications of original research through investigator-initiated and world-wide collaborative efforts. These achievements are spread throughout the division insofar as both the senior and more junior faculty are contributing to the research momentum while also imparting substantial impact on the early research successes of our trainees and research staff.

We cannot over emphasize the catalyzing effects of the symbiotic relationship being cultivated by the UBC Division with the Centre for Cardiovascular Innovation through Nicole Carbert and Vishaldeep Sidhu who provide a bridge to access of the kinds of expertise, including insightful review, statistical and financial expertise, all required to create compelling and competitive grants.

We wholeheartedly congratulate the entire academic enterprise and remain ever confident of continued and progressive success.

Sincerely, GBJ Mancini, M Deyell, N Carbert.

Awards, Honors, and Distinctions

Andrade, Jason

- UBC Clinical Faculty Award for Excellence in Research



Luong, Christina

- CCS - HLS Atherosclerosis Research Award



Nair, Parvathy

- Selected to give the inaugural Dr Jim Swan Lecture, CSE 2022
- CSE CREATE Grant recipient



Sathananthan, Janarthanan

- 2021 UBC New Faculty Research Award



Webb, John G

- 2021 CCS Career Achievement Award Recipient
- Successful percutaneous tricuspid replacement program in Vancouver- Recently published results at 1 year follow-up



Yeung, Darwin

- 2022 VCHRI Mentored Clinician Scientist Investigator Award Recipient



Awards, Honors, and Distinctions (Cont'd)

Akodad, Myriam (Fellow)

- Top Oral Abstract, "Balloon-expandable Valve For Treatment Of Evolut Valve Failure: Implications On Neo-skirt Height And Leaflet Overhang," CRT 2022

Kushneriuk, Dominique (Trainee)

- Elected to Board of Directors (trainee representative), CSE 2021

Lu, Nelson (Internal Medicine PGY2)

- Top Research Award, "Deep Learning Model for Accurate Diagnosis of Atrial Fibrillation on Echocardiography," Canadian Society of Echo.

Szeto, Ken (Sonographer)

- Elected to Board of Directors member (sonographer), CSE 2021

Yim, Jeffrey (Student)

- 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

Grants Awarded

Andrade, JG (Co-I), Deyell, M (Co-I), Hawkins, N (Co-I), Tam R (PI), Ho K, & Hague, C

- "Machine Learning Prediction from cardiac scarring from ECGs". Principle Investigator: Roger Tam. Total funds awarded: \$420,000. UBC Supercluster Expansion Grant.

Laksman, Zachary (PI)

- "DNA Nanoball sequencing technology co-funding opportunity". 2021-2022. MGI Canada

Laksman, Zachary (Co-I), de Boer, Carl (PI)

- "Decoding human cis-regulatory logic in development and disease". 2022 -2027. Canadian Institutes of Health and Research Operating Grant.

Luong, Christina

- “Calcified carotid artery atheroma on standard dental radiographs: A public health opportunity for cardiovascular risk reduction”. Total funds awarded: \$15,000. CCS-HLS Atherosclerosis Research Award.

Sathananthan, Gnalini

- Research Awardee. Total funds awarded: \$75,000. GE Healthcare Vivid Ultra Edition: Echocardiography for Structural Heart in October 2021.

Straatman, Lynn

- “Breaking the Glass Ceiling: An Appreciative Inquiry and Recommendations for Faculty Gender Equity and Inclusivity in the UBC Faculty of Medicine”. Strategic Initiative Fund Grant (FOM)

Tsang, Teresa (PI), Purang Abolmaesumi (Co-I), Oscar Benavente (Co-I), Kim McGrail (Co-I), **Christina Luong (Co-I)**, Eric Sayre (Co-I)

- Big Data, atrial imaging, and Stroke Risk Assessment and Management.” Canadian Institutes of Health and Research Project Grant. Total funds awarded: \$581, 401 over 3 years.

Rohling, Robert., **Tsang Teresa**, Abolmaesumi, Purang., Salcudean, Septimiu

- “Intelligent Ultrasound (iUS): A User-Centric Approach for Democratizing Diagnostics” CFI 2023 Innovation fund competition – successful at the UBC VPRI level and moving to Federal level

Invited Presentations

Andrade, Jason

- “Comparing the CCS, EHRA and HRS AF Guidelines,” Canadian Heart Rhythm Society (CHRS) Annual Meeting. September 11, 2021.
- “Point-by-Point vs. One Shot Ablation: Pros and Cons,” Global EP Summit 2021. Cleveland Clinic. September 24, 2021.
- “AF Ablation as First-Line Therapy – Are we there yet?” Taiwan Heart Rhythm Meeting. September 25, 2021.
- “First Paroxysmal AF - Rate and Risk Control Is the First Choice,” FAFA 2021, Frankfurt, Germany. September 25, 2021.
- “Atrial Fib & ATTR-CM” Vancouver BC. September 27, 2021.
- “How early can we consider AF ablation in a patient?” Adam Fitzpatrick Plenary Session. Heart Rhythm Congress. Bristol UK October 6, 2021.
- “Cryo ablation should be the index ablation for all (Pro),” Heart Rhythm Congress. Bristol UK October 6, 2021

- “COMPARING AF GUIDELINES: Management of patients with concomitant AF and CAD,” “AF Ablation as First-Line Therapy: An overview of the evidence,” “My Worst Arrhythmia Nightmare: Secondary Atrial Fibrillation,” “DELIVERY OF VIRTUAL HEALTHCARE PLENARY: Providing Virtual Healthcare To The Arrhythmia Patient,” “CCS AF Guidelines Symposia: Secondary Atrial Fibrillation,” “The Benefits of Early Detection of Cardiac Amyloidosis,” Canadian Cardiovascular Congress. October 22, 2021.
- “Cryoballoon Ablation as Initial Treatment for Atrial Fibrillation,” Medtronic Scientific Exchange. November 11, 2021.
- “Medical Management or Ablation for Atrial Fibrillation,” St. Paul's CME conference for Primary Care Physicians. November 16, 2021.
- “State of AF Ablation,” Abbott EnSite University. November 22, 2021.
- “Canadian Perspectives on the AHA 2021,” Canadian Cardiovascular Society. December 1, 2021.
- “Cryoballoon Ablation of Atrial Fibrillation with Concomitant LAAC,” Rhythm Interventions Online. December 1, 2021.
- “AMAZE-AF,” Canadian AF Summit 2021. December 11, 2021.
- “The evidence supporting: EARLY Ablation for Atrial Fibrillation,” Electrophysiology Collaborative Medicine Conference. San Diego, USA December 11, 2021.
- “The evidence supporting: EARLY Ablation for Atrial Fibrillation,” AF Symposia. New York, January 13, 2022.
- “Management of VT/VF in association with SCAD,” VanSCAD Conference. February 19, 2022.
- “How Often & How Should I Re-Ablate My AF Patient: Examples From My Practice,” Western AF Park City Utah. February 25, 2022.
- “Early is Better,” Western AF. Park City Utah. February 25, 2022.
- “First-Line Cryoablation Trials for PAF: STOP-AF FIRST, EARLY AF and CRYO. FIRST JACC,” Asia. February 25, 2022.
- “If I Were To Design The Next AF In HF Trial,” Western AF. Park City Utah. February 26, 2022.
- “Cryoablation for Atrial Fibrillation,” State of the Art in Cardiovascular Medicine Plenary Lecture. CADECI: Congreso Anual de Cardiología Internacional. Mexico. February 26, 2022.

Krahn, Andrew

- “Management of the Patient with a Prolonged QT Interval,” Canadian Cardiovascular Congress. Quebec City. October 21, 2021.
- “Evaluation and Management of Sudden Cardiac Death,” Great Wall International Congress of Cardiology, Beijing. October 31, 2021.
- Moderator: Future of CIED, Asia Pacific Heart Rhythm Society (APHRs), Suzhou, China. November 12, 2021.
- “Electrical Mass & Atrial Fibrillation: Implications for Therapy,” 15th annual Western A-Fib Symposium, Utah. February 26, 2022.

Laksman, Zachary

- Cardiogenetics Workshop Invited Speaker, Canadian Cardiovascular Society. 2021

- Expert EP SCD Implant Techniques Invited Speaker, National SCD Webinar Series. 2021
- Invited Speaker - Canadian Heart Rhythm Society, Online. 2021
- Interpretation of Genetic Variants in Arrhythmias and Cardiomyopathies - Opening Plenary

Mancini, GB John

- Perspectives in Clinical Cardiology - Lipids & Atherosclerosis "When Close is Not Enough," Canadian Cardiovascular Society Webinar. Sep 22, 2021.
- "New Lipid Thresholds," 18th Annual Hot Topics in Cardiology, Vancouver (and Virtual), Feb 26, 2022.

Sathananthan, Gnalini

- "Green Light: Transcatheter Mitral Valve Repair," Transcatheter Cardiovascular Therapeutics 2021.

Saw, Jacqueline

- "SCAD case management (Panelist)," EPIC Live, Sep 2021
- "Preprocedural CT imaging for LAAC," Boston Scientific Team Singapore, Sep 2021
- "Current data on endovascular LAAC," CLIMB, Sep 2021
- "Management of Patients with AF and Hemorrhagic Risk," AHA Virtual, Oct 2021.
- "MINOCA: An Interventionist's Perspective," "It's not all obstructive CAD, spectrum of ischemic heart disease," CCC Virtual, Oct 2021
- "LAO Device Embolization," CLIMB, Oct 2021.
- "Featured Clinical Research Session (Guest discussant)," "SCAD, MINOCA, INOCA, Takotsubo Syndrome (Moderator)," "Antiplatelet Therapy Is Sufficient for DRT Prevention After LAAC", "Key Controversies in Transcatheter LAA closure (Discussant)," TCT, Nov2021.
- "Watchman FLX - 3 different morphologies: Tips and tricks," CSI LAA, Nov 2021.
- "The latest registry and clinical trial data on LAAO," CSI America, Dec 2021.
- "The value of FEops HEARTguide as a new preoperative support in LAAO," CSI America, Dec 2021.
- "LAAC complications and DRT," "FEops for LAAC," AF Symposium NY, Jan 2022.
- "LAA device closure with Watchman Predictive Modeling & Imaging," iImagine Echo NY, Jan 2022.
- "Amulet case discussions (panelist): CATALYST study discussion," Abbott Vascular, Jan 2022
- "Optimizing outcomes with Amulet," "ICE-guidance for LAAC (panelist)," "Optimizing treatment for non-valvular AF," "Amulet live case implant (live discussant)," SCRIPPS Structural Conference, Feb 2022.
- "Angiographic diagnosis of SCAD," "VanSCAD Conference (Moderator)," VanSCAD Virtual, Feb 2022.

- “LAAC live case (panelist),” “Is Antiplatelet Therapy Sufficient for DRT & Stroke Prevention after LAAC,” “Current Trends in LAAC: Safety & Performance,” “Watchman update on trial data (panelist),” CRT Washington, Feb 2022.

Tsang, Teresa SM

- “State of the Art 2021 Echo Imaging of Patients with Increased Wall Thickness: Focus on Fabry Cardiomyopathy”, CCS Hub Talk, October 2021
- “State of the Art Artificial Intelligence in Echo Imaging”, 31st International Symposium on Adult Congenital Heart Disease, October 2021.
- Workshop on Strain Imaging: Invited by St. Mary’s Cardiac Centre, Waterloo, Ontario December 2021
- Interviewed for AM 1320 (Vancouver radio station) regarding research and clinical work at VGH UBC Echo Lab, December 2021
- “Deep Video Networks for Automatic Assessment of Aortic Stenosis in Echocardiography,” ASMUS2021.
- “Assessment of Atria”, Canadian Society of Echo 2022 Annual Meeting, Feb 2022
- “Echo reporting and Strain Imaging”, Hot Topics In Cardiology 2022, Feb 2022

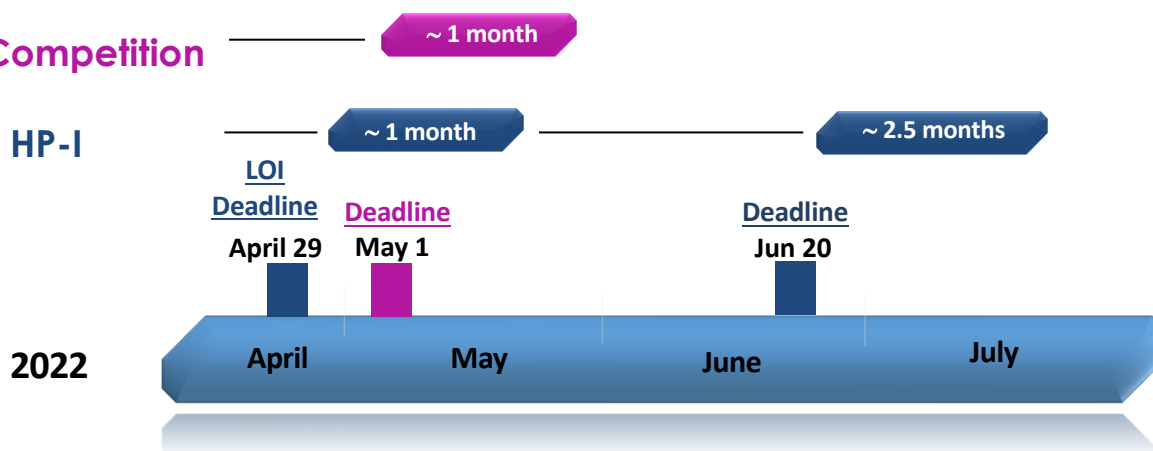
Wood, David

- “Unresolved Questions in Structural Heart Disease,” 4TS Conference 2022- Digital, Dubai, Feb 11, 2022.
- “Optimizing TAVI Results in Patients with Small Aortic Annuli,” Gulf PCR, Dubai, Dec 15, 2021.
- “Lifetime Management of Severe AS and when/if to perform repeat TAVI,” Innovation in Cardiovascular Interventions (ICI) 2021, Tel Aviv, December 5-7, 2021.
- “What Matters in the long-term? Transcatheter Heart Valve Durability and Physiological Performance,” PCR London Valves, London, Nov 22, 2021.
- Late-Breaking Trial: Standardized Invasive Hemodynamics Monitors Acute and Long-Term Valve Performance: DISCORDANCE TAVR, PCR London Valves, London, Nov 21, 2021.
- “Prosthetic Valve Selection and Implant Techniques for Prevention of PPM/High Residual Gradients Following SAVR, TAVR or Valve-in-Valve,” TCT, Orlando, Nov 6, 2021
- Discussant, TCT Live Case, Orlando, Nov 5, 2021
- Discussant, ACS, STEMI & Cardiogenic Shock, TCT, Orlando, Nov 4, 2021
- Moderator Live Cases Canadian Cardiovascular Congress Virtual, October 22, 2021
- “The Clinical Impact of High Residual Gradients Post AVR is: Minimal,” Virtual Heart Valve Collaboratory, Oct 1, 2021.
- “TAVR Repeatability: Current Considerations & Future Directions. Lifetime Management in Patients with Aortic Stenosis,” Virtual Mahidol TAVI 2021, Thailand, Sept 24, 2021

Upcoming Funding Deadlines

CAPP Competition

MSFHR HP-I



PUBLICATIONS

1. Aguilar M, Macle L, **Deyell MW**, Yao R, **Hawkins NM**, Khairy P, **Andrade JG**. Influence of Monitoring Strategy on Assessment of Ablation Success and Postablation Atrial Fibrillation Burden Assessment: Implications for Practice and Clinical Trial Design. *Circulation*. 2022 Jan 4;145(1):21-30. doi: 10.1161/CIRCULATIONAHA.121.056109. Epub 2021 Nov 24. PMID: 34816727.
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3. Akodad M, Sellers S, Gulsin GS, Tzimas G, Landes U, Chatfield AG, Chuang A, Meier D, **Leipsic J**, Blanke P, Ye J, Cheung A, **Wood DA**, Khan JM, **Webb JG**, **Sathananthan J**. Leaflet and Neoskirt Height in Transcatheter Heart Valves: Implications for Repeat Procedures and Coronary Access. *JACC Cardiovasc Interv*. 2021 Oct 25;14(20):2298-2300. doi: 10.1016/j.jcin.2021.07.034. Epub 2021 Sep 29. PMID: 34600879.
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- cardiac MRI and hemoglobin in end-stage renal disease. *J Nephrol*. 2021 Oct;34(5):1561-1563. doi: 10.1007/s40620-021-01123-w. Epub 2021 Jul 19. PMID: 34279812.
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 8. Alipour P, Azizi Z, Norris CM, Raparelli V, McMurtry MS, Macle L, **Andrade J**, Pilote L. Representation of Women in Atrial Fibrillation Clinical Practice Guidelines. *Can J Cardiol*. 2022 Jan 7:S0828-282X(22)00002-2. doi: 10.1016/j.cjca.2021.12.017. Epub ahead of print. PMID: 35007706.
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 10. **Andrade JG**, Macle L. Reply to Reed et al.-Exercise Targets in the 2020 CCS Guidelines for the Management of Patients With Atrial Fibrillation. *Can J Cardiol*. 2021 Oct;37(10):1680. doi: 10.1016/j.cjca.2021.05.005. Epub 2021 May 18. PMID: 34015464.
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- Nicolau J, Phreaner N, Roswell RO, Sinha SS, Jeffrey Snell R, Solomon MA, Van Diepen S, Morrow DA. De Novo vs Acute-on-Chronic Presentations of Heart Failure-Related Cardiogenic Shock: Insights from the Critical Care Cardiology Trials Network Registry. *J Card Fail.* 2021 Oct;27(10):1073-1081. doi: 10.1016/j.cardfail.2021.08.014. PMID: 34625127; PMCID: PMC8514080.
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