

UBC Cardiology Research News

Reporting April – June 2017

In This Issue:

1. **Message from the Research Director**
2. **Awards & Distinctions**
3. **Grants Awarded**
4. **Invited Presentations**
5. **Publications**

Message from Research Director

Dear Colleagues:

I hope you are as impressed as I am with this latest quarterly newsletter showcasing the continuous productivity and achievements of our Division. I am especially pleased to report the great success in externally awarded grants (Tara Sedlak, James McKinney, Karin Humphries, Zachary Laksman) and also offer congratulations to the successful applicants of this cycle's CAPP Pilot Project Awards (Jason Andrade and Jasmine Grewal),

In order to implement the next, large step in the evolution of our research focus, we are developing a job description for an individual that will augment our research infrastructure and who will facilitate the multiple tasks required to get good ideas out for peer review. We are hopeful that this augmented service can take place within this year. This will further strengthen our capacity and competitiveness for external awards.

I appreciate all the ongoing support of Faye Pedersen and the Research Committee, especially in ensuring rigorous peer review of the CAPP Pilot Project proposals which were quite numerous this year. In order to keep up with this task, we have tried to expand our national pool of colleagues who help advise us and a new member, Michael Seidman, has agreed to join our committee.

I would like to wish all of you continued success and a wonderful summer.

Sincerely,
G. B. John Mancini

Awards & Distinctions

- **Brunner, Nathan** – Providence Health Care 2016 Donald M. Whitelaw Award for Outstanding Grand Rounds Presentation, "Pulmonary Hypertension – the other high blood pressure"
- **Krahn, Andrew** – recipient of the Providence Health Care, Department of Medicine Research, and the UBC Martin M. Hoffman Award for Excellence in Research
- **Laksman, Zachary** – recipient of the 2017 Michael Smith Foundation for Health Research Health Professional-Investigator Award for his project "Developing personalized anti-arrhythmic drug therapy for atrial fibrillation"

Grants Awarded

Andrade, Jason (PI)

- "Studying post-translational modification in atrial fibrillation using human atrial samples". UBC Division of Cardiology Academic Practice Plan Pilot Project Competition – May 2017

Grewal, Jasmine (PI)

- "Cardiovascular Outcomes in Pregnancy in Turner Syndrome". UBC Division of Cardiology Academic Practice Plan Pilot Project Competition – May 2017

Laksman, Zachary (PI Liam Brunham)

- "Investigating Pharmacogenetic Mechanisms of Doxorubicin-Induced Cardiotoxicity in Human Pluripotent Stem Cell-Derived Cardiomyocytes". CIHR – June 2017

Humphries, Karin (PI)

- "Leveling the playing field: improved diagnosis and outcomes for young women with myocardial infarction". CIHR Planning and Dissemination Grant - 2017

Mancini, G.B. John (PI N. Bairey-Merz)

- "Women's Ischemia Syndrome Evaluation". Cedars-Sinai Medical Centre - 2017

McKinney, James (PI)

- "Improving perioperative evaluation and management through physician engagement". Funded by the Vancouver Physician Staff Association Engagement Projects Subcommittee - May 2017

Sedlak, Tara (PI)

- "Ranolazine for symptomatic management of microvascular angina, a retrospective study". Gilead Grant Winner – March 2017

Invited Presentations

Krahn, Andrew

- "Integrating Research Into Clinical Work - The Hearts in Rhythm Organization (HIRO) Initiative", Cardiovascular Grand Rounds, University Hospital, London, Ontario, May 2017

Humphries, Karin

- "How Low is Too Low? Analysis of Systolic and Diastolic Blood Pressure in Patients with and without Prior Cardiovascular Disease in the SPRINT Trial". Accepted for 2 presentations at the CCC, October, 2017.

Invited Presentation (cont'd)

Mancini, G.B. John

- "Debate: Approach to LDL Lowering: Treat to Target or Not?", 20th Annual Toronto Ottawa Heart Summit, Toronto, ON, June 2017 (Con: Lloyd-Jones, Chicago)

Saw, Jacqueline

- "LAA Closure Update", EPIC-SEC, Atlanta, April 2017
- "Live case (panelist)", EPIC-SEC, Atlanta, April 2017
- "SCAD case presentation", EPIC-SEC, Atlanta, April 2017
- "Ongoing Multicenter RCTs of LAAC", SPAF, Chicago, May 2017
- "SCAD Update", Intermountain Heart Center Cardiovascular Grant Rounds, Salt Lake City, May 2017
- "Should LAA Closure Devices Be Compared to Warfarin, NOAC's, or Each Other?", HRS, Chicago, May 2017
- "Angiographic diagnosis of SCAD & coronary FMD", FMD & SCAD Conference, Cleveland, May 2017
- "LAA closure evidence update", CSBC Provincial Meeting, Vancouver, May 2017
- "Update on SCAD", UCSD Cardiovascular Grand Rounds, San Diego, May 2017
- "LAA Trials Update", Boston Scientific Canada Implanters Meeting, Montreal, May 2017

Sedlak, Tara

- "Cardiac Prevention in Women", Burnaby Annual Cardiac Symposium
- "Update on Women and Heart Disease", VGH Foundation Annual Event
- "Women and Heart Disease: Chest pain with open arteries", 13th Annual Hot Topics in Cardiology (UBC)
- "Approach to Chest Pain in the Office", CME on the Run (UBC)

Wood, David

- "Emerging Solutions and Future Directions (3M Trial Updates)" Physician Training Seminar 2: Integrating the TAVR Minimalist Approach Into Clinical Practice, TCT 2017, Chicago, June 16, 2017
- "SAPIEN 3 Snapshots I - The New Sapien 3 ULTRA System", New Technology Forum: TAVR II. TAVR Systems, Part 1: Most Frequently Used TAVR Systems, TCT 2017, Chicago, June 16, 2017
- "Outpatient Elective Heart Valve Surgery: The Future has Arrived", Lumira Capital Partners Vancouver General Hospital Foundation, April 6, 2017
- "Transcatheter Aortic Valve Implantation", Heart & Lung Health FEST 2017, Vancouver, March 16, 2017

PUBLICATIONS

1. Abdi AH, Luong C, **Tsang T**, Allan G, Nouranian S, **Jue J**, Hawley D, Fleming S, **Gin K**, Swift J, Rohling R, Abolmaesumi P. Automatic Quality Assessment of Echocardiograms Using Convolutional Neural Networks: Feasibility on the Apical Four-Chamber View. *IEEE Trans Med Imaging*. 2017 Jun;36(6):1221-1230. doi:10.1109/TMI.2017.2690836. Epub 2017 Apr 4. PubMed PMID: 28391191.
2. Adatia F, Galway S, Grubisic M, Lee M, Daniele P, **Humphries KH, Sedlak TL**. Cardiac Medication Use in Patients with Acute Myocardial Infarction and Nonobstructive Coronary Artery Disease. *J Womens Health (Larchmt)*. 2017 Apr 6. doi: 10.1089/jwh.2016.5984. [Epub ahead of print] PubMed PMID: 28384014.
3. Alnasser S, Cheema AN, Simonato M, Barbanti M, Edwards J, Kornowski R, Horlick E, Wijesundera HC, Testa L, Bedogni F, Amrane H, Walther T, Pelletier M, Latib A, Laborde JC, Hildick-Smith D, Kim WK, Tchetché D, Agrifoglio M, Sinning JM, van Boven AJ, Kefer J, Frerker C, van Mieghem NM, Linke A, Worthley S, Asgar A, Sgroi C, Aziz M, Danenberg HD, Labinaz M, Manoharan G, Cheung A, **Webb JG**, Dvir D; Valve-in-Valve International Data Registry Investigators. Matched Comparison of Self-Expanding Transcatheter Heart Valves for the Treatment of Failed Aortic Surgical Bioprosthesis: Insights From the Valve-in-Valve International Data Registry (VIVID). *Circ Cardiovasc Interv*. 2017 Apr;10(4). pii: e004392. doi:10.1161/CIRCINTERVENTIONS.116.004392. PubMed PMID: 28400461.
4. **Andrade JG**. MY APPROACH to Atrial Fibrillation: Rate vs Rhythm Control. *Trends Cardiovasc Med*. 2017 Apr;27(3):226-227. doi: 10.1016/j.tcm.2016.09.009. Epub 2016 Oct 6. PubMed PMID: 28161145.
5. Blanke P, Pibarot P, Hahn R, Weissman N, Kodali S, Thourani V, Parvataneni R, Dvir D, Naoum C, Nørgaard BL, Douglas P, Jaber W, Khalique OK, Jilaihawi H, Mack M, Smith C, Leon M, **Webb J, Leipsic J**. Computed Tomography-Based Oversizing Degrees and Incidence of Paravalvular Regurgitation of a New Generation Transcatheter Heart Valve. *JACC Cardiovasc Interv*. 2017 Apr 24;10(8):810-820. doi: 10.1016/j.jcin.2017.02.021. PubMed PMID: 28427598.
6. Blanke P, Park JK, Grayburn P, Naoum C, **Ong K**, Kohli K, Nørgaard BL, **Webb JG**, Popma J, Boshell D, Sorajja P, Muller D, **Leipsic J**. Left ventricular access point determination for a coaxial approach to the

- mitral annular landing zone in transcatheter mitral valve replacement. *J Cardiovasc Comput Tomogr.* 2017 Jul - Aug;11(4):281-287. doi: 10.1016/j.jcct.2017.04.002. Epub 2017 Apr 7. PubMed PMID:28396198.
7. Cho I, Ó Hartaigh B, Gransar H, Valenti V, Lin FY, Achenbach S, Berman DS, Budoff MJ, Callister TQ, Al-Mallah MH, Cademartiri F, Chinnaiyan K, Chow BJW, Dunning AM, DeLago A, Villines TC, Hadamitzky M, Hausleiter J, **Leipsic J**, Shaw LJ, Kaufmann PA, Cury RC, Feuchtner G, Kim YJ, Maffei E, Raff G, Pontone G, Andreini D, Chang HJ, Min JK. Prognostic implications of coronary artery calcium in the absence of coronary artery luminal narrowing. *Atherosclerosis.* 2017 Jul;262:185-190. doi: 10.1016/j.atherosclerosis.2016.12.006. Epub 2016 Dec 3. PubMed PMID: 28385391.
 8. Correa N, Rajaraman D, Swaminathan S, Vaz M, Jayachitra KG, **Lear SA**, Punthakee Z. Perceptions of healthy eating amongst Indian adolescents in India and Canada. *Appetite.* 2017 May 18;116:471-479. doi: 10.1016/j.appet.2017.05.029. [Epub ahead of print] PubMed PMID: 28529114.
 9. Cressman S, Peacock SJ, Tammemägi MC, Evans WK, Leigh NB, Goffin JR, Tremblay A, Liu G, Manos D, MacEachern P, Bhatia R, Puksa S, Nicholas G, McWilliams A, **Mayo JR**, Yee J, English JC, Pataky R, McPherson E, Atkar-Khattra S, Johnston MR, Schmidt H, Shepherd FA, Soghrati K, Amjadi K, Burrowes P, Couture C, Sekhon HS, Yasufuku K, Goss G, Ionescu DN, Hwang DM, Martel S, Sin DD, Tan WC, Urbanski S, Xu Z, Tsao MS, Lam S. The Cost-Effectiveness of High-Risk Lung Cancer Screening and Drivers of Program Efficiency. *J Thorac Oncol.* 2017 May 10. pii:S1556-0864(17)30354-4. doi: 10.1016/j.jtho.2017.04.021. [Epub ahead of print] PubMed PMID: 28499861.
 10. **Deyell MW**. MY APPROACH to frequent ventricular extrasystoles(□). *Trends Cardiovasc Med.* 2017 Jul;27(5):380-381. doi: 10.1016/j.tcm.2017.02.008. Epub 2017 Feb 24. PubMed PMID: 28648248.
 11. **Deyell MW, Andrade JG**. Tracking Syncope in Canada Using Administrative Data: What Lessons Can We Learn? Where Do We Need to Be? *Can J Cardiol.* 2017 Apr;33(4):428-429. doi: 10.1016/j.cjca.2016.12.015. Epub 2016 Dec 24. PubMed PMID: 28343604.
 12. Expert Panels on Cardiac and Thoracic Imaging; Kirsch J, Brown RKJ, Henry TS, Javidan-Nejad C, Jokerst C, Julsrud PR, Kanne JP, Kramer CM, **Leipsic JA**, Panchal KK, Ravenel JG, Shah AB, Mohammed TL, Woodard PK, Abbara S. ACR Appropriateness Criteria(®) Acute Chest Pain-Suspected Pulmonary Embolism. *J Am Coll Radiol.* 2017 May;14(5S):S2-S12. doi: 10.1016/j.jacr.2017.02.027. PubMed PMID: 28473076.
 13. Expert Panel on Cardiac Imaging; Vogel-Claussen J, Elshafee ASM, Kirsch J, Brown RKJ, Hurwitz LM, Javidan-Nejad C, Julsrud PR, Kramer CM, Krishnamurthy R, Laroia AT, **Leipsic JA**, Panchal KK, Shah AB, White RD, Woodard PK, Abbara S. ACR Appropriateness Criteria(®) Dyspnea-Suspected Cardiac Origin. *J Am Coll Radiol.* 2017 May;14(5S):S127-S137. doi: 10.1016/j.jacr.2017.01.032. PubMed PMID:28473068.
 14. Fitchett D, Cheng A, Connelly K, Goldenberg R, Goodman SG, Leiter LA, Lonn E, Paty B, Poirier P, Stone J, Thompson D, Yale JF, **Mancini GBJ**. A Practical Guide to the Use of Glucose-Lowering Agents With Cardiovascular Benefit or Proven Safety. *Can J Cardiol.* 2017 Jul;33(7):940-942. doi: 10.1016/j.cjca.2017.04.012. Epub 2017 May 9. PubMed PMID: 28668144.
 15. Franco C, Starovoytov A, Heydari M, **Mancini GB, Aymong E, Saw J**. Changes in left ventricular function after spontaneous coronary artery dissection. *Clin Cardiol.* 2017 Mar;40(3):149-154. doi: 10.1002/clc.22640. Epub 2017 Feb 20. PubMed PMID: 28218398.
 16. Galway S, Adatia F, Grubisic M, Lee M, Daniele P, **Humphries KH, Sedlak TL**. Sex Differences in Cardiac Medication Use Post-Catheterization in Patients Undergoing Coronary Angiography for Stable Angina with Nonobstructive Coronary Artery Disease. *J Womens Health (Larchmt).* 2017 Apr 6. doi: 10.1089/jwh.2016.5983. [Epub ahead of print] PubMed PMID: 28384013.
 17. **Hawkins NM, Grubisic M, Andrade JG**, Huang F, Ding L, Gao M, Bashir J. Long term complications, reoperations and survival following cardioverter-defibrillator implant. Accepted by Heart June 28, 2017. In press.
 18. Hoffmann U, Ferencik M, Udelson JE, Picard MH, Truong QA, Patel MR, Huang M, Pencina M, Mark DB, Heitner JF, **Fordyce CB**, Pellikka PA, Tardif JC, Budoff M, Nahhas G, Chow B, Kosinski AS, Lee KL, Douglas PS; PROMISE Investigators. Prognostic Value of Noninvasive Cardiovascular Testing in Patients With Stable Chest Pain: Insights From the PROMISE Trial (Prospective Multicenter Imaging Study for Evaluation of Chest Pain). *Circulation.* 2017 Jun 13;135(24):2320-2332. doi: 10.1161/CIRCULATIONAHA.116.024360. Epub 2017 Apr 7. PubMed PMID: 28389572.
 19. **Humphries KH**, Izadnegahdar M, **Sedlak T, Saw J**, Johnston N, Schenck-Gustafsson K, Shah RU, Regitz-Zagrosek V, **Grewal J**, Vaccarino V, Wei J, Bairey Merz CN. Sex differences in cardiovascular disease - Impact on care and outcomes. *Front Neuroendocrinol.* 2017 Jul;46:46-70. doi: 10.1016/j.yfrne.2017.04.001. Epub 2017 Apr 18. Review. PubMed PMID: 28428055.
 20. **Humphries KH, Mancini GBJ**. Reduction of LDL-C-related residual cardiovascular risk with ezetimibe: are mechanistic considerations warranted in practice? *Eur Heart J.* 2017 May 19. doi: 10.1093/eurheartj/ehx275. [Epub ahead of print] PubMed PMID: 28525583.
 21. Jensen JM, Bøtker HE, Mathiassen ON, Grove EL, Øvrehus KA, Pedersen KB, Terkelsen CJ, Christiansen EH, Maeng M, **Leipsic J**, Kaltoft A, Jakobsen L, Sørensen JT, Thim T, Kristensen S, Krusell LR, Nørgaard BL. Computed tomography derived fractional flow reserve testing in stable patients with typical angina

- pectoris: influence on downstream rate of invasive coronary angiography. *Eur Heart J Cardiovasc Imaging*. 2017 Apr 20. doi: 10.1093/ehjci/jex068. [Epub ahead of print] PubMed PMID: 28444153.
22. Jolly SS, James S, Džavík V, **Cairns JA**, Frøbert O. Response by Jolly et al to Letters Regarding Article, "Thrombus Aspiration in ST-Segment-Elevation Myocardial Infarction: An Individual Patient Meta-Analysis: Thrombectomy Trialists Collaboration". *Circulation*. 2017 May 30;135(22):e1103-e1104. doi:10.1161/CIRCULATIONAHA.117.028198. PubMed PMID: 28559506.
 23. Kragholm K, Malta Hansen C, Dupre ME, Xian Y, Strauss B, Tyson C, Monk L, Corbett C, **Fordyce CB**, Pearson DA, Fosbøl EL, Jollis JG, Abella BS, McNally B, Granger CB. Direct Transport to a Percutaneous Cardiac Intervention Center and Outcomes in Patients With Out-of-Hospital Cardiac Arrest. *Circ Cardiovasc Qual Outcomes*. 2017 Jun;10(6). pii: e003414. doi: 10.1161/CIRCOUTCOMES.116.003414. PubMed PMID: 28615177.
 24. Lauck SB, Kwon JY, **Wood DA**, Baumbusch J, Norekvål TM, Htun N, Stephenson L, **Webb JG**. Avoidance of urinary catheterization to minimize in-hospital complications after transcatheter aortic valve implantation: An observational study. *Eur J Cardiovasc Nurs*. 2017 Jun 1:1474515117716590. doi: 10.1177/1474515117716590. [Epub ahead of print] PubMed PMID: 28649851.
 25. **Leipsic J**, Blanke P. Cardiac CT: a coming of age. *Minerva Cardioangiol*. 2017 Jun;65(3):199-200. doi: 10.23736/S0026-4725.16.04307-3. PubMed PMID: 28406278.
 26. Lempereur M, Aminian A, **Saw J**. Rebuttal with regards to "Device-associated thrombus formation after left atrial appendage occlusion: A systematic review of events reported with the Watchman, the Amplatzer Cardiac Plug and the Amulet". *Catheter Cardiovasc Interv*. 2017 May 22. doi: 10.1002/ccd.27135. [Epub ahead of print] PubMed PMID: 28544491.
 27. Leung AA, Daskalopoulou SS, Dasgupta K, McBrien K, Butalia S, Zarnke KB, Nerenberg K, Harris KC, Nakhla M, Cloutier L, Gelfer M, Lamarre-Cliche M, Milot A, Bolli P, Tremblay G, McLean D, Tobe SW, Ruzicka M, Burns KD, Vallée M, Prasad GVR, Gryn SE, Feldman RD, Selby P, Pipe A, Schiffrin EL, McFarlane PA, Oh P, Hegele RA, Khara M, Wilson TW, Penner SB, Burgess E, Sivapalan P, Herman RJ, Bacon SL, **Rabkin SW**, Gilbert RE, Campbell TS, Grover S, Honos G, Lindsay P, Hill MD, Coutts SB, Gubitz G, Campbell NRC, Moe GW, Howlett JG, Boulanger JM, Prebtani A, Kline G, Leiter LA, Jones C, Côté AM, Woo V, Kaczorowski J, Trudeau L, Tsuyuki RT, Hiremath S, Drouin D, Lavoie KL, Hamet P, Grégoire JC, Lewanczuk R, Dresser GK, Sharma M, Reid D, **Lear SA**, Moullec G, Gupta M, Magee LA, Logan AG, Dionne J, Fournier A, Benoit G, Feber J, Poirier L, Padwal RS, Rabi DM; Hypertension Canada. Hypertension Canada's 2017 Guidelines for Diagnosis, Risk Assessment, Prevention, and Treatment of Hypertension in Adults. *Can J Cardiol*. 2017 May;33(5):557-576. doi: 10.1016/j.cjca.2017.03.005. Epub 2017 Mar 10. PubMed PMID: 28449828.
 28. Linke A, Chandrasekhar J, Sartori S, Lefevre T, van Belle E, Schaefer U, Tchetché D, Sardella G, **Webb J**, Colombo A, Windecker S, Vogel B, Farhan S, Sorrentino S, Sharma M, Snyder C, Asgar A, Dumonteil N, Tamburino C, Hink U, Violini R, Stella P, Bernstein D, Deliargyris E, Hengstenberg C, Baber U, Mehran R, Anthopoulos P, Dangas G; BRAVO-3 Investigators. Effect of valve design and anticoagulation strategy on 30-day clinical outcomes in Transcatheter Aortic Valve Replacement: Results From The BRAVO 3 Randomized Trial. *Catheter Cardiovasc Interv*. 2017 May 12. doi: 10.1002/ccd.27154. [Epub ahead of print] PubMed PMID:28498562.
 29. Lu MT, Ferencik M, Roberts RS, Lee KL, Ivanov A, Adami E, Mark DB, Jaffer FA, **Leipsic JA**, Douglas PS, Hoffmann U. Noninvasive FFR Derived From Coronary CT Angiography: Management and Outcomes in the PROMISE Trial. *JACC Cardiovasc Imaging*. 2017 Apr 7. pii: S1936-878X(17)30262-0. doi: 10.1016/j.jcmg.2016.11.024. [Epub ahead of print] PubMed PMID: 28412436.
 30. Mackay MH, Singh R, **Boone RH**, Park JE, **Humphries KH**. Outcomes following percutaneous coronary revascularization among South Asian and Chinese Canadians. *BMC Cardiovasc Disord*. 2017 Apr 19;17(1):101. doi: 10.1186/s12872-017-0535-0. PubMed PMID: 28420368; PubMed Central PMCID: PMC5395833.
 31. Mackle T, Pistawka K. Atrioesophageal Fistula after Ablation for Atrial Fibrillation. *J Emerg Med*. 2017 May 10. pii: S0736-4679(17)30254-8. doi:10.1016/j.jemermed.2017.03.025. [Epub ahead of print] PubMed PMID: 28501386.
 32. MacMahon H, Naidich DP, Goo JM, Lee KS, Leung ANC, **Mayo JR**, Mehta AC, Ohno Y, Powell CA, Prokop M, Rubin GD, Schaefer-Prokop CM, Travis WD, Van Schil PE, Bankier AA. Guidelines for Management of Incidental Pulmonary Nodules Detected on CT Images: From the Fleischner Society 2017. *Radiology*. 2017 Jul;284(1):228-243. doi: 10.1148/radiol.2017161659. Epub 2017 Feb 23. PubMed PMID: 28240562.
 33. **Mancini GBJ**, Gupta M, Tsigoulis M, Cannon CP, Genest J, Ray KK, Santos RD, Watts GF, Raggi P. Detection of atherosclerotic cardiovascular disease influences the perceived need for aggressive lipid management. *Atherosclerosis*. 2017 Jun 3;263:112-118. doi: 10.1016/j.atherosclerosis.2017.06.006. [Epub ahead of print] PubMed PMID: 28623740.
 34. **Mancini GBJ**, Farkouh M, Verma S. Revascularization for patients with diabetes mellitus and stable ischemic heart disease: an update. *Curr Opin Cardiol*. 2017 May 19. doi: 10.1097/HCO.0000000000000421. [Epub ahead of print] PubMed PMID:28538000.

35. **Mancini GBJ**, Cheng AY, Connelly K, Fitchett D, Goldenberg R, Goodman SG, Leiter LA, Lonn E, Paty B, Poirier P, Stone J, Thompson D, Yale JF. Diabetes for Cardiologists: Practical Issues in Diagnosis and Management. *Can J Cardiol*. 2017 Mar;33(3):366-377. doi: 10.1016/j.cjca.2016.07.512. Epub 2016 Jul 26. Review. PubMed PMID: 28340996.
36. Masoudkabar F, Sarrafzadegan N, Gotay C, Ignaszewski A, Krahn AD, Davis MK, Franco C, Mani A. Cardiovascular disease and cancer: Evidence for shared disease pathways and pharmacologic prevention. *Atherosclerosis*. 2017 Jun 2. pii:S0021-9150(17)30248-4. doi: 10.1016/j.atherosclerosis.2017.06.001. [Epub ahead of print] Review. PubMed PMID: 28624099.
37. Mayosi BM, Fish M, Shaboodien G, Mastantuono E, Kraus S, Wieland T, Kotta MC, Chin A, Laing N, Ntusi NB, Chong M, Horsfall C, Pimstone SN, Gentilini D, Parati G, Strom TM, Meifinger T, Pare G, Schwartz PJ, Crotti L. Identification of Cadherin 2 (CDH2) Mutations in Arrhythmogenic Right Ventricular Cardiomyopathy. *Circ Cardiovasc Genet*. 2017 Apr;10(2). pii: e001605. doi:10.1161/CIRCGENETICS.116.001605. PubMed PMID: 28280076.
38. Mellor G, **Laksman ZWM**, Tadros R, Roberts JD, Gerull B, Simpson CS, Klein GJ, Champagne J, Talajic M, Gardner M, Steinberg C, Arbour L, Birnie DH, Angaran P, **Leather R**, Sanatani S, Chauhan VS, Seifer C, Healey JS, **Krahn AD**. Genetic Testing in the Evaluation of Unexplained Cardiac Arrest: From the CASPER (Cardiac Arrest Survivors With Preserved Ejection Fraction Registry). *Circ Cardiovasc Genet*. 2017 Jun;10(3). pii: e001686. doi: 10.1161/CIRCGENETICS.116.001686. PubMed PMID:28600387.
39. Murdoch D, **Boone RH**, **Moss R**, **Webb J**, **Wood DA**. Update on Transcatheter Mitral Valve Repair. *Cardiac Interventions Today*, July 2017. In press.
40. Nakanishi R, Baskaran L, Gransar H, Budoff MJ, Achenbach S, Al-Mallah M, Cademartiri F, Callister TQ, Chang HJ, Chinnaiyan K, Chow BJW, DeLago A, Hadamitzky M, Hausleiter J, Cury R, Feuchtner G, Kim YJ, **Leipsic J**, Kaufmann PA, Maffei E, Raff G, Shaw LJ, Villines TC, Dunning A, Marques H, Pontone G, Andreini D, Rubinshtein R, Bax J, Jones E, Hindoyan N, Gomez M, Lin FY, Min JK, Berman DS. Relationship of Hypertension to Coronary Atherosclerosis and Cardiac Events in Patients With Coronary Computed Tomographic Angiography. *Hypertension*. 2017 Jun 12. pii: HYPERTENSIONAHA.117.09402. doi: 10.1161/HYPERTENSIONAHA.117.09402. [Epub ahead of print] PubMed PMID: 28607128.
41. Parvand M, Starovoytov A, **Sedlak TL**. Yield of Cardiac Magnetic Resonance Imaging in Patients With Acute Coronary Syndrome and No Obstructive Coronary Artery Disease. *Crit Pathw Cardiol*. 2017 Jun;16(2):58-61. doi:10.1097/HPC.0000000000000110. PubMed PMID: 28509705.
42. Price N, Namdari R, Neville J, Proctor KJ, Kaber S, Vest J, Fetell M, Malamut R, Sherrington RP, **Pimstone SN**, Goldberg YP. Safety and Efficacy of a Topical Sodium Channel Inhibitor (TV-45070) in Patients With Postherpetic Neuralgia (PHN): A Randomized, Controlled, Proof-of-Concept, Crossover Study, With a Subgroup Analysis of the Nav1.7 R1150W Genotype. *Clin J Pain*. 2017 Apr;33(4):310-318. doi: 10.1097/AJP.0000000000000408. PubMed PMID: 28266963; PubMed Central PMCID: PMC5348105.
43. Rabbat MG, Berman DS, Kern M, Raff G, Chinnaiyan K, Koweek L, Shaw LJ, Blanke P, Scherer M, Jensen JM, Lesser J, Nørgaard BL, Pontone G, De Bruyne B, Bax JJ, **Leipsic J**. Interpreting results of coronary computed tomography angiography-derived fractional flow reserve in clinical practice. *J Cardiovasc Comput Tomogr*. 2017 Jun 23. pii: S1934-5925(17)30161-2. doi:10.1016/j.jcct.2017.06.002. [Epub ahead of print] Review. PubMed PMID: 28666784.
44. Rodés-Cabau J, Masson JB, Welsh RC, Garcia Del Blanco B, Pelletier M, **Webb JG**, Al-Qoofi F, Généreux P, Maluenda G, Thoenes M, Paradis JM, Chamandi C, Serra V, Dumont E, Côté M. Aspirin Versus Aspirin Plus Clopidogrel as Antithrombotic Treatment Following Transcatheter Aortic Valve Replacement With a Balloon-Expandable Valve: The ARTE (Aspirin Versus Aspirin + Clopidogrel Following Transcatheter Aortic Valve Implantation) Randomized Clinical Trial. *JACC Cardiovasc Interv*. 2017 May 11. pii: S1936-8798(17)30812-9. doi:10.1016/j.jcin.2017.04.014. [Epub ahead of print] PubMed PMID: 28527771.
45. Ross ES, Sakakibara BM, Mackay MH, Whitehurst DG, Singer J, **Toma M**, Corbett KK, Van Spall HG, Rutherford K, Gheorghiu B, Code J, **Lear SA**. The Use of Text Messaging to Improve the Hospital-to-Community Transition in Acute Coronary Syndrome Patients (Txt2Prevent): Intervention Development and Pilot Randomized Controlled Trial Protocol. *JMIR Res Protoc*. 2017 May 23;6(5):e91. doi:10.2196/resprot.6968. PubMed PMID: 28536088; PubMed Central PMCID: PMC5461423.
46. Roston TM, Cunningham T, Lehman A, **Laksman ZW**, **Krahn AD**, Sanatani S. Beyond the Electrocardiogram: Mutations in Cardiac Ion Channel Genes Underlie Nonarrhythmic Phenotypes. *Clin Med Insights Cardiol*. 2017 Mar 16;11:1179546817698134. doi: 10.1177/1179546817698134. eCollection 2017. Review. PubMed PMID: 28469493; PubMed Central PMCID: PMC5392026.
47. Roversi S, **Hawkins NM**. Time to move from prognostication to diagnosis and treatment of heart disease in acute exacerbation of COPD. *Eur Respir J*. 2017 Jun 29;49(6). pii: 1700912. doi: 10.1183/13993003.00912-2017. Print 2017 Jun. PubMed PMID: 28663321.
48. Ruiz CE, Hahn RT, Berrebi A, Borer JS, Cutlip DE, Fontana G, Gerosa G, Ibrahim R, Jeltnin V, Jiliahawi H, Jolicoeur EM, Kliger C, Kronzon I, **Leipsic J**, Maisano F, Millan X, Nataf P, O'Gara PT, Pibarot P, Ramee SR, Rihal CS, Rodes-Cabau J, Sorajja P, Suri R, Swain JA, Turi ZG, Tuzcu EM, Weissman NJ, Zamorano JL, Serruys PW, Leon MB; Paravalvular Leak Academic Research Consortium. Clinical Trial Principles and Endpoint

- Definitions for Paravalvular Leaks in Surgical Prosthesis: An Expert Statement. *J Am Coll Cardiol.* 2017 Apr 25;69(16):2067-2087. doi: 10.1016/j.jacc.2017.02.038. Review. PubMed PMID:28427582.
49. **Saw J, Humphries K, Aymong E, Sedlak T,** Prakash R, Eng L, Starovoytov A, **Mancini BGJ.** Spontaneous coronary artery dissection (SCAD): Cardiovascular outcomes and risk of recurrent SCAD. *JACC.* In press.
 50. **Saw J.** Intracardiac Echocardiography for Endovascular Left Atrial Appendage closure. Is it Ready for Primetime? Invited editorial, *JACC Cardiovasc Interv* 2017. In press.
 51. **Sedlak T,** Schriver A. What you need to know about heart disease and stroke. *Canadian Living Magazine.* January 2017.
 52. Sellers SL, Murphy DT, **Leipsic JA.** Indexed Aortic Area in Bicuspid Valve Disease: An Important Step Toward a More Personalized Approach to Risk Prediction and Clinical Decision Making. *Circ Cardiovasc Imaging.* 2017 Jun;10(6):e006593. doi: 10.1161/CIRCIMAGING.117.006593. PubMed PMID: 28592596.
 53. Shaw LJ, **Mancini GBJ.** New Promises for Refining Risk Stratification From Anatomical and Functional Assessment of Stable Chest Pain. *Circulation.* 2017 Jun 13;135(24):2333-2335. doi: 10.1161/CIRCULATIONAHA.117.028637. PubMed PMID:28606947.
 54. Silberberg A, Tan MK, Yan AT, Angaran P, Dorian P, Bucci C, Gregoire JC, Bell AD, Gladstone DJ, Green MS, Gross PL, Skanes A, Demchuk AM, **Kerr CR,** Mitchell LB, Cox JL, Talajic M, Essebag V, **Heilbron B,** Ramanathan K, Fournier C, Wheeler BH, Lin PJ, Berall M, Langer A, Goldin L, Goodman SG; FREEDOM AF and CONNECT AF Investigators. Use of Evidence-Based Therapy for Cardiovascular Risk Factors in Canadian Outpatients With Atrial Fibrillation: From the Facilitating Review and Education to Optimize Stroke Prevention in Atrial Fibrillation (FREEDOM AF) and Co-ordinated National Network to Engage Physicians in the Care and Treatment of Patients With Atrial Fibrillation (CONNECT AF). *Am J Cardiol.* 2017 Jun 1. pii: S0002-9149(17)30863-9. doi: 10.1016/j.amjcard.2017.05.027. [Epub ahead of print] PubMed PMID: 28666577.
 55. Soon J, Pibarot P, Blanke P, Ohana M, **Leipsic J.** Multimodality Imaging for Planning and Follow-up of Transcatheter Aortic Valve Replacement. *Can J Cardiol.* 2017 Apr 4. pii: S0828-282X(17)30146-0. doi: 10.1016/j.cjca.2017.03.024. [Epub ahead of print] Review. PubMed PMID: 28666614.
 56. Soofi MA, Ignaszewski MT, **Ashton TH,** Miyagishima RT. Longest follow-up of in situ working Bjork Shiley valve: 42-year follow-up. *Interact Cardiovasc Thorac Surg.* 2016 Mar;22(3):375-7. doi: 10.1093/icvts/ivv348. Epub 2015 Dec 18. PubMed PMID: 26686528.
 57. Sugumar H, Tung M, **Leather R, Lane C, Sterns LD, Novak PG.** Atrioventricular Nodal Non Re-Entrant Tachycardia (AVNNT). *Heart Lung Circ.* 2017 May;26(5):524-525. doi: 10.1016/j.hlc.2016.07.014. Epub 2016 Aug 30. PubMed PMID:27769757.
 58. Tabarsi N, Guan M, Simmonds J, **Toma M, Kiess M,** Tsang V, Ruygrok P, Konstantinov I, Shi W, **Grewal J.** Meta-Analysis of the Effectiveness of Heart Transplantation in Patients With a Failing Fontan. *Am J Cardiol.* 2017 Apr 15;119(8):1269-1274. doi: 10.1016/j.amjcard.2017.01.001. Epub 2017 Jan 25. Review. PubMed PMID: 28233535.
 59. **Webb JG,** Mack MJ, White JM, Dvir D, Blanke P, Herrmann HC, **Leipsic J,** Kodali SK, Makkar R, Miller DC, Pibarot P, Pichard A, Satler LF, Svensson L, Alu MC, Suri RM, Leon MB. Transcatheter Aortic Valve Implantation Within Degenerated Aortic Surgical Bioprostheses: PARTNER 2 Valve-in-Valve Registry. *J Am Coll Cardiol.* 2017 May 9;69(18):2253-2262. doi: 10.1016/j.jacc.2017.02.057. PubMed PMID: 28473128.
 60. **Wood DA, Cairns JA,** Mehta SR. Multivessel Revascularization and ST-Segment-Elevation Myocardial Infarction: Do We Have the Complete Answer? *Circ Cardiovasc Interv.* 2017 Apr;10(4). pii: e005215. doi: 10.1161/CIRCINTERVENTIONS.117.005215. PubMed PMID: 28404625.
 61. You JJ, Aleksova N, Ducharme A, MacIver J, Mielniczuk L, Fowler RA, Demers C, Clarke B, Parent MC, **Toma M,** Strachan PH, Farand P, Isaac D, Zieroth S, Swinton M, Jiang X, Day AG, Heyland DK, Ross HJ. Barriers to Goals of Care Discussions with Patients Who Have Advanced Heart Failure: Results of a Multi-Centre Survey of Hospital-Based Cardiology Clinicians. *J Card Fail.* 2017 Jun 22. pii:S1071-9164(17)30188-4. doi: 10.1016/j.cardfail.2017.06.003. [Epub ahead of print] PubMed PMID: 28648852.
-

*The next quarterly **UBC Cardiology Research News** will come out mid-October 2017 and will include July to September 2017 achievements.*

You are invited to submit brief details of any Publications, Grants awarded, Invited Lectures at Other Institutions and any Awards or Distinctions received during July-September 2017 for the next issue – deadline end of September 2017

Your research achievements welcomed at any time

Please send to Faye Pedersen (faye.pedersen@vch.ca)

UBC Division of Cardiology Research Office

Diamond Health Care Centre, 2775 Laurel Street – 9th Floor, Vancouver, BC V5Z 1M9

Tel: 604-875-4111 Ext 69821