

UBC Cardiology Research News

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:

We are very pleased to provide the latest update on cardiovascular research accomplishments of our members, including our provincial colleagues who remain vital to our overall impact on the heart health of the citizens we serve. We showcase prestigious awards to Drs. Chou, Humphries, Krahn and Webb and also extend congratulations to Dr. Sedlak who is the latest recipient of a new CAPP Pilot Project Award. This award will help advance her research focus in sex-specific cardiovascular issues, this one pertaining to presentation of CAD. The group's work has been showcased from Victoria to France, as far south as Mexico City and numerous diverse points in between, indicating an international impact of our research and global interest. You will also note acknowledgement of the excellent work of Dr. Fordyce who is our newest appointee in Cardiology. We welcome him and hope that he contributes to this update frequently as his career develops here.

The major new initiative of the Research Committee has been to begin to dissect the elements of "augmented research" support as expressed by many members. This request means many things to many different researchers, often colored by experience and stage of career development. This initiative was spearheaded by Dr. Deyell. His vision statement was critiqued through a survey that will help guide next steps by prioritizing research support of greatest need and impact, within the constraints of feasibility and while ensuring concordance with the Strategic Plan orchestrated for the entire Division by Dr. Krahn. We look forward to actively supporting these initiatives and ensuring that they come to fruition.

Deepest and warmest congratulations on another very active and successful round of research achievements!

Sincerely,

G.B. John Mancini
UBC Division of Cardiology
Research Director

Reporting April - June 2016

Awards & Distinctions

Annie Chou. The 2016 Vancouver Board of Trade Wendy McDonald Woman of Promise Award, presented by Global BC's News Director Jill Krop.

Humphries, Karin. Fellow of the American Heart Association (FAHA) conferred by the Quality of Care and Outcomes Council. May 6, 2016.

Krahn, Andrew. 2016 Bringing Clinical Renown to Vancouver Hospital Award. (May 2016)

Webb, John. Ethica Award, European Associations of Percutaneous Coronary Interventions (EAPCI), EuroPCR, Paris, May 2016.

Grants Awarded

Sedlak T (Principal Applicant), Humphries K, Mancini J. Sex specific assessment of chest pain. UBC Division of Cardiology Academic Practice Plan (CAPP) Pilot Project (\$30,000)

Invited Presentations

Humphries, Karen

- "An Update on What We've Learned About Sex Differences and Heart Disease." Heart and Stroke Foundation Donor Event, May 18th, 2016. Victoria, BC.
- "Sex-Related Differences in Pathophysiology of Cardiovascular Disease." Canadian Women's Heart Health Summit, University of Ottawa Heart Institute, April 14, 2016. Ottawa, ON.
- "Sex-Related Differences in Pathophysiology of Cardiovascular Disease." First Annual Women's Health Research Symposium, Women's Health Research Institute, April 27, 2016. Vancouver, BC.
- Invited speaker. "Lucy and the Iceman: Epidemiology of Ischemic Heart Disease," and "Around the Fire: Shared Decision-Making." Heart Centre Nursing Education Day, June 10, 2016. Vancouver, BC
- Abstract oral presentation, "Sex Differences in Medication Use by Cardiac Troponin Level in Patients Admitted to the Emergency Department", EuroPRevent Meeting 2016, June 14, 2016. Sophia Antipolis, France.

Invited Presentations Cont'd

Krahn, Andrew

- Invited to Grand Rounds in Ottawa, Ontario: TOPIC: Cardiogenetics 2016 – The Curious Clinician's Approach to Cardiac Arrest
- HIRO Symposium - April 22, Host for event
- VGH Nursing and Allied Health Education session - June 27

Mancini, G.B. John

- Management of Goal-Inhibiting Statin Intolerance. World Heart Federation and World Congress of Cardiology and Cardiovasclar Health. Mexico City, Mexico. June 6, 2016.
- Debate on PCSK9: All High Risk Patients with Residual Elevation of LDL should be on PCSK9 Inhibitors-Pro. Ottawa Heart Conference, Ottawa, ON. June 4, 2016.
- Let's Have a Heart to Heart: Cardiovascular considerations in T2D. Alliance of Best Practices in Health Education, Hot Topics in Diabetese, New guidelines Update in Diabetes, What Does it Mean to You. Vancouver, May 28, 2016.

Saw, Jacqueline

- SCAD & ACS: ACC Chicago (Apr2016)
- Integrating CT into procedural planning for LAA closure: ACC Chicago (Apr2016)
- SCAD: female preponderance & outcomes: Canadian Women's Heart Health Ottawa (Apr2016)
- LAA imaging essentials (TEE & CT): SCAI Orlando (May2016)
- LAA closure session panelist: SCAI Orlando (May2016)

Wood, David

- The Evolving Minimalist Approach, Code TAVR, Door-to-TAVR Time, and Other Emerging Concepts", TAVR Bootcamp Session, Transcatheter Valve Therapies 2016, June 18, 2016, Chicago
- Live Operator, Aortic Valve-in-Valve 3M TAVR, Transcatheter Valve Therapies, June 17, 2016, Chicago
- "Solutions based approach to the Heart Team", TAVI Today Meeting, May 30, 2016, Toronto, Ontario.
- Complex PCI Case Based Clinical Decision Making, "STEMI Pt with multivessel disease: Rationale for COMPLETE culprit", SCAI Annual Scientific Meeting, May 4, 2016, Orlando, Florida
- Multivessel PCI in STEMI", A Case-Based Approach to PCI. SCAI Annual Scientific Meeting, May 4, 2016, Orlando, Florida
- TAVI in Frail Patients – An Interdisciplinary Perspective", 36th Annual Scientific Meeting of the Canadian Geriatrics Society, April 16, 2016, Vancouver, BC
- Is it Time for the Minimalist Approach to TAVR?", Minnesota Valve Symposium, April 14, 2016
- The 3M Pathway and what it means for the Heart Team", American College of Cardiology Scientific Meeting, Chicago, April 4, 2016
- TAVR, Sechelt Rotary Club, Sechelt, BC, May 25, 2016
- TAVI Update: Late Breaking Trials at ACC 2016", Vancouver General Hospital Cardiac Anesthesia and Perfusion, Vancouver, BC, May 10, 2016
- The 3M TAVR Study: Implications for Local Practice" Edwards Optimalments Training Course, St. Paul's Hospital, Vancouver, BC, April 22, 2016

PUBLICATIONS

1. **Andrade JG, Krahn AD**, Skanes AC, Purdham D, Ciaccia A, Connors S. Values and Preferences of Physicians and Patients With Nonvalvular Atrial Fibrillation Who Receive Oral Anticoagulation Therapy for Stroke Prevention. *Can J Cardiol.* 2016 Jun;32(6):747-53. doi: 10.1016/j.cjca.2015.09.023. Epub 2015 Nov 10. PMID: 26774235
2. Asgar A, Chandrasekhar J, Mikhail G, **Webb J**, Lefevre T, Tamburino C, Hildick-Smith D, Hambrecht R, Van Belle E, Widder J, Dumonteil N, Hink U, Jeger R, Linke A, Dellargyris E, Gao P, Mehran R, Hengstenberg C, Anthopoulos P, Dangas G; BRAVO-3 Investigators. Sex-Based Differences In Outcomes With Bivalirudin Or Unfractionated Heparin For Transcatheter Aortic Valve Replacement: Results From The BRAVO 3 Randomized Trial. *Catheter Cardiovasc Interv.* 2016 May 6. doi:10.1002/ccd.26607. [Epub ahead of print] PubMed PMID: 27152677
3. Attinger A, **Webb JG**. Transcatheter mitral valve implantation. In: *Percutaneous Treatment of Left Side Cardiac Valves: A Practical Guide for the Interventional Cardiologist – 3rd Edition*. Editors C Tamburino, M Barbanti, D Capodanno. Springer. 2016. in press
4. Bagai A, Bhatt DL, Eikelboom JW, **Mancini GBJ**, Cohen EA, Vijayaraghavan R, Cheema AN, Udell JA, Niznick J, Tanguay JF, Verma S, Mehta SR. Individualizing Duration of Dual Antiplatelet Therapy After Acute Coronary Syndrome or Percutaneous Coronary Intervention. *Circulation.* 2016;133:2094-2098. DOI: 10.1161/CIRCULATIONAHA.115.021158
5. Bates MG, **Krahn AD**. Learning to Make Decisions: Are Medical Postgraduate Trainees Getting With the Atrial Fibrillation Guidelines? *Can J Cardiol.* 2015 Oct 22. pii: S0828-282X(15)01489-0. PMID: 26777266
6. Bilbey N, Blanke P, Naoum C, Arepalli CD, Norgaard BL, **Leipsic J**. Potential impact of clinical use of noninvasive FFRCT on radiation dose exposure and downstream clinical event rate. *Clin Imaging.* 2016 May 26;40(5):1055-1060. doi: 10.1016/j.clinimag.2016.05.005. [Epub ahead of print] PubMed PMID: 27388817
7. Bogale N, Lempereur M, **Fung AY**. A 2-step optical coherence tomography guided therapeutic approach to acute myocardial infarction secondary to stent thrombosis. *Cardiovasc. Revasc. Med.* 2016 May 4. doi:10.1016/j.carrev.2016.04.003. PMID:27156200
8. **Cairns JA**. Oral Anticoagulant Prescription for Atrial Fibrillation in the Veterans Administration Health System: National and International Differences. *Am Heart J.* 2016. In press
9. Campbell RT, Willox GP, Jhund PS, **Hawkins NM**, Huang F, Petrie MC, McMurray JJ. Reporting of Lost to Follow-Up and Treatment Discontinuation in Pharmacotherapy and Device Trials in Chronic Heart Failure: A Systematic Review. *Circ Heart Fail.* 2016 May;9(5). pii: e002842. doi: 10.1161/CIRCHEARTFAILURE.115.002842. PubMed PMID: 27162229
10. **Chou AY**, Liu Chia-Jen, Chao Tze-Fan, et al. Presence of diabetic microvascular complications does not incrementally increase risk of ischemic stroke in diabetic patients with atrial fibrillation. *Medicine* 2016 [In Press Accepted Manuscript]
11. **Chou AY**, Prakash R, **Rajala J**, Birnie T, **Isserow S**, **Taylor CM**, **Ignaszewski A**, Chan S, Starovoytov A, **Saw J**. The First Dedicated Cardiac Rehabilitation Program for Patients With Spontaneous Coronary Artery Dissection: Description and Initial Results. *Can J Cardiol.* 2016 Apr;32(4):554-60. doi: 10.1016/j.cjca.2016.01.009. Epub 2016 Jan 18. PubMed PMID: 26923234
12. Choudhary N, Tompkins C, Polonsky B, McNitt S, Calkins H, Mark Estes NA 3rd, **Krahn AD**, Link MS, Marcus FI, Towbin JA, Zareba W. Clinical Presentation and Outcomes by Sex in Arrhythmogenic Right Ventricular Cardiomyopathy: Findings from the North American ARVC Registry. *J Cardiovasc Electrophysiol.* 2016 May;27(5):555-62. doi: 10.1111/jce.12947. Epub 2016 Mar 21. PMID: 26840461
13. Cury RC, Abbara S, Achenbach S, Agatston A, Berman DS, Budoff MJ, Dill KE, Jacobs JE, Maroules CD, Rubin GD, Rybicki FJ, Schoepf UJ, Shaw LJ, Stillman AE, White CS, Woodard PK, **Leipsic JA**. CAD-RADS(TM) Coronary Artery Disease -Reporting and Data System. An expert consensus document of the Society of Cardiovascular Computed Tomography (SCCT), the

- American College of Radiology(ACR) and the North American Society for Cardiovascular Imaging (NASCI). Endorsed by the American College of Cardiology. *J Cardiovasc Comput Tomogr.* 2016 Jun 15. pii: S1934-5925(16)30048-X. doi: 10.1016/j.jcct.2016.04.005. [Epub ahead of print] PubMed PMID: 27318587
14. Cury RC, Abbara S, Achenbach S, Agatston A, Berman DS, Budoff MJ, Dill KE, Jacobs JE, Maroules CD, Rubin GD, Rybicki FJ, Schoepf UJ, Shaw LJ, Stillman AE, White CS, Woodard PK, **Leipsic JA.** CAD-RADS™: Coronary Artery Disease - Reporting and Data System.: An Expert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Radiology (ACR) and the North American Society for Cardiovascular Imaging (NASCI). Endorsed by the American College of Cardiology. *J Am Coll Radiol.* 2016 Jun 15. pii: S1546-1440(16)30236-8. doi: 10.1016/j.jacr.2016.04.024. [Epub ahead of print] PubMed PMID: 27318576
15. Dvir D, Cheung A, **Boone R, Leipsic J**, Blanke P, Perlman G, **Moss R, Toma M**, Stub D, Banai S, **Webb J.** Transapical mitral valve implantation after unclipping of a MitraClip: a glimpse into the future and treatment considerations in mitral regurgitation. *EuroIntervention.* 2016 June 12;12(2):e244-9. doi:10.4244/EIJV12I2A38. PMID:27290683
16. Fahmy P, Prakash R, Starovoytov A, **Boone R, Saw J.** Pre-Disposing and Precipitating Factors in Men with Spontaneous Coronary Artery Dissection. *JACC Cardiovasc Inter.* 2016 Apr 25;9(8):866-8. doi:10.1016/j.jcin.2016.02.024. PMID:27101917
17. Figulla HR, **Webb JG**, Lauten A, Feldman T. The transcatheter valve technology pipeline for treatment of adult valvular heart disease. *Eur Heart J.* 2016 May 8. pii: ehw153. [Epub ahead of print] Review. PubMed PMID: 27161617
18. **Fordyce CB, Cairns JA**, Singer J, Park JE, Vandegriend RA, Perry M, Gao M, **Ramanathan K, Wong GC.** Evolution and impact of a regional reperfusion system for ST elevation myocardial infarction on in-hospital outcomes: The Vancouver Coastal Health Authority STEMI reperfusion model. *Can J Cardiol.* 2016. In press
19. Gaur S, Øvrehus KA, Dey D, **Leipsic J**, Bøtker HE, Jensen JM, Narula J, Ahmadi A, Achenbach S, Ko BS, Christiansen EH, Kaltoft AK, Berman DS, Bezerra H, Lassen JF, Nørgaard BL. Coronary plaque quantification and fractional flow reserve by coronary computed tomography angiography identify ischaemia-causing lesions. *Eur Heart J.* 2016 Apr 14;37(15):1220-7. doi: 10.1093/eurheartj/ehv690. Epub 2016 Jan 12. PubMed PMID: 26763790; PubMed Central PMCID: PMC4830909
20. Guerrero M, Dvir D, Himbert D, Urena M, Eleid M, Wang DD, Greenbaum A, Mahadevan VS, Holzhey D, O'Hair D, Dumonteil N, Rodés-Cabau J, Piazza N, Palma JH, DeLago A, Ferrari E, Witkowski A, Wendler O, Kornowski R, Martinez-Clark P, Ciaburri D, Shemin R, Alnasser S, McAllister D, Bena M, Kerendi F, Pavlides G, Sobrinho JJ, Attizzani GF, George I, Nickenig G, Fassa AA, Cribier A, Bapat V, Feldman T, Rihal C, Vahanian A, **Webb J**, O'Neill W. Transcatheter Mitral Valve Replacement in Native Mitral Valve Disease With Severe Mitral Annular Calcification: Results From the First Multicenter Global Registry. *JACC Cardiovasc Interv.* 2016 Jul 11;9(13):1361-71. doi: 10.1016/j.jcin.2016.04.022. PubMed PMID: 27388824
21. Hartley-Rayner E, **Sedlak T.** Ranolazine: A contemporary review. *Journal of the American Heart Association* 2016;5:e003196
22. Herman AR, Cheung C, Gerull B, Simpson CS, Birnie DH, Klein GJ, Champagne J, Healey JS, Gibbs K, Talajic M, Gardner M, **Bennett MT**, Steinberg C, Janzen M, Gollob MH, Angaran P, Yee R, **Leather R, Chakrabarti S**, Sanatani S, Chauhan VS, **Krahn AD.** Response to Letter Regarding Article, "Outcome of Apparently Unexplained Cardiac Arrest: Results From Investigation and Follow-Up of the Prospective Cardiac Arrest Survivors With Preserved Ejection Fraction Registry". *Circ Arrhythm Electrophysiol.* 2016 Apr;9(4). pii: e004012. doi: 10.1161/CIRCEP.116.004012. PMID: 27069091

23. Herman AR, Gardner M, Steinberg C, **Yeung-Lai-Wah JA**, Healey JS, Leong-Sit P, **Krahn AD**, **Chakrabarti S**. Long term right ventricular implantable cardioverter defibrillator lead performance in arrhythmogenic right ventricular cardiomyopathy. *Heart Rhythm*. 2016 Jun 16; pii: S1547-5271(16)30439-8. doi: 10.1016/j.hrthm.2016.06.021. [Epub ahead of print] PMID: 27321245
24. Htun NM, **Webb JG**. Evaluation of the Edwards SAPIEN 3 Transcatheter Valve For Aortic Stenosis. *Expert Rev Med Devices*. 2016;13(3):225-32. doi:10.1586/17434440.2016.1149288. Epub 2016 Feb 24. PubMed PMID: 26878548
25. Jilaihawi H, Chen M, **Webb J**, Himbert D, Ruiz CE, Rodés-Cabau J, Pache G, Colombo A, Nickenig G, Lee M, Tamburino C, Sievert H, Abramowitz Y, Tarantini G, Alqoofi F, Chakravarty T, Kashif M, Takahashi N, Kazuno Y, Maeno Y, Kawamori H, Chieffo A, Blanke P, Dvir D, Ribeiro HB, Feng Y, Zhao ZG, Sinning JM, Klinger C, Giustino G, Pajerski B, Imme S, Grube E, **Leipsic J**, Vahanian A, Michev I, Jelnin V, Latib A, Cheng W, Makkar R. A Bicuspid Aortic Valve Imaging Classification for the TAVR Era. *JACC Cardiovasc Imaging*. 2016 Jun 23; pii: S1936-878X(16)30261-3. doi: 10.1016/j.jcmg.2015.12.022. [Epub ahead of print] PubMed PMID: 27372022
26. Jolly SS, James S, Dzavik V, **Carins JA**, et al for the Thrombectomy Trialist Collaboration. Thrombus Aspiration in ST elevation Myocardial Infarction: An Individual Patient Meta-analysis. Submitted to *JAMA*. June 2016
27. **Krahn AD**, Bashir J, Birnie DH, Brown J, Spencer JH, Leander C, Estes NA. Impact of generator replacement on the risk of Fidelis lead fracture. *Heart Rhythm*. 2016 May 3; pii: S1547-5271(16)30263-6. doi: 10.1016/j.hrthm.2016.05.001. [Epub ahead of print] PMID: 27154229
28. Lauck SB, Gibson JA, Baumbusch J, Carroll SL, Achtem L, Kimel G, Nordquist C, Cheung A, **Boone RH**, Ye J, **Wood DA**, **Webb JG**. Transition to palliative care when transcatheter aortic valve implantation is not an option: opportunities and recommendations. *Curr Opin Support Palliat Care*. 2016 Mar;10(1):18-23. doi:10.1097/SPC.0000000000000180. PubMed PMID: 26716394; PubMed Central PMCID:PMC4927321
29. **Leipsic JA**. Change is the law of life. And those who look only to the past or present are certain to miss the future. - John F. Kennedy. *J Cardiovasc Comput Tomogr*. 2016 May-Jun;10(3):195-6. doi: 10.1016/j.jcct.2016.04.003. Epub 2016 Apr 16. PubMed PMID: 27145696
30. **Leipsic J**, Naoum C, Blanke P. Diagnostic Algorithms for Stable Chest Pain: From Opinion to Science Lessons From PROMISE. *J Am Coll Cardiol*. 2016 Jun 7;67(22):2617-9. doi: 10.1016/j.jacc.2016.04.013. PubMed PMID: 27256832
31. **Leipsic JA**. President's Page. *J Cardiovasc Comput Tomogr*. 2016 Mar-Apr;10(2):193-4. doi: 10.1016/j.jcct.2016.01.010. Epub 2016 Jan 22. PubMed PMID: 26837234
32. Leung AA, Nerenberg K, Daskalopoulou SS, McBrien K, Zarnke KB, Dasgupta K, Cloutier L, Gelfer M, Lamarre-Cliche M, Milot A, Bolli P, Tremblay G, McLean D, Tobe SW, Ruzicka M, Burns KD, Vallée M, Prasad GV, Lebel M, Feldman RD, Selby P, Pipe A, Schiffrin EL, McFarlane PA, Oh P, Hegele RA, Khara M, Wilson TW, Penner SB, Burgess E, Herman RJ, Bacon SL, **Rabkin SW**, Gilbert RE, Campbell TS, Grover S, Honos G, Lindsay P, Hill MD, Coutts SB, Gubitz G, Campbell NR, Moe GW, Howlett JG, Boulanger JM, Prebtani A, Larochelle P, Leiter LA, Jones C, Ogilvie RI, Woo V, Kaczorowski J, Trudeau L, Petrella RJ, Hiremath S, Drouin D, Lavoie KL, Hamet P, Fodor G, Grégoire JC, Lewanczuk R, Dresser GK, Sharma M, Reid D, **Lear SA**, Moullec G, Gupta M, Magee LA, Logan AG, Harris KC, Dionne J, Fournier A, Benoit G, Feber J, Poirier L, Padwal RS, Rabi DM; CHEP Guidelines Task Force. Hypertension Canada's 2016 Canadian Hypertension Education Program Guidelines for Blood Pressure Measurement, Diagnosis, Assessment of Risk, Prevention, and Treatment of Hypertension. *Can J Cardiol*. 2016 May;32(5):569-88. doi: 10.1016/j.cjca.2016.02.066. Epub 2016 Mar 10. PubMed PMID: 27118291

33. Lourenco P, Brown J, **Leipsic J**, Hague C. The current utility of ultrasound in the diagnosis of acute appendicitis. *Clin Imaging*. 2016 Apr 2;40(5):944-948. doi:10.1016/j.clinimag.2016.03.012. [Epub ahead of print] PubMed PMID: 27203288
34. Macle L, **Cairns J**, LeBlanc K et al for the CCS Atrial Fibrillation Guidelines Committee. 2016 Focused Update of the Canadian Cardiovascular Society Guidelines for the Management of Atrial Fibrillation. *Can J Cardiol* 2016. In press
35. Mak GJ, Blanke P, **Ong K**, Naoum C, **Thompson CR**, **Webb JG**, **Moss R**, **Boone R**, Ye J, Cheung A, **Munt B**, **Leipsic J**, **Grewal J**. Three-dimensional Echocardiography Compared with Computed Tomography to Determine Mitral Annulus Size Before Transcatheter Mitral Valve Implantation. *Circ. Cardiovasc. Imaging*. 2016 June;9(6). pii:d004176. doi:10.1161/CIRCIMAGING.115.004176. PMID:27307549
36. McMurry MS, **Cairns JA**. Anticoagulating Elderly Patients with Chronic Kidney Disease: How Safe Is It? *Can J Cardiol* 2016. In press
37. Mellor G, Steinburg C, **Laksman Z**, **Deyell MW**. Short coupled ventricular fibrillation: concealed Purkinje Depolarization. *J Cardiovas. Electrophysiol.* 2016 Apr 27. doi:10.1111/jce.12999. PMID:27120521 [Epub ahead of print]
38. Mente A, O'Donnell M, Rangarajan S, Dagenais G, **Lear S**, McQueen M, Diaz R, Avezum A, Lopez-Jaramillo P, Lanas F, Li W, Lu Y, Yi S, Rensheng L, Iqbal R, Mony P, Yusuf R, Yusoff K, Szuba A, Oguz A, Rosengren A, Bahonar A, Yusufali A, Schutte AE, Chifamba J, Mann JF, Anand SS, Teo K, Yusuf S; PURE, EPIDREAM and ONTARGET/TRANSCEND Investigators. Associations of urinary sodium excretion with cardiovascular events in individuals with and without hypertension: a pooled analysis of data from four studies. *Lancet*. 2016 May 20. pii: S0140-6736(16)30467-6. doi: 10.1016/S0140-6736(16)30467-6. [Epub ahead of print] PubMed PMID: 27216139
39. Morrison BN, **Isserow S**, **McKinney J**, Nazari H, Lithwick D, **Heilbron B**, Taunton J, Warburton DE. Evaluation of Pre-Participation Screening and Risk Assessment in Masters Athletes in British Columbia: 388 Board #225 June 1, 11: 00 AM - 12: 30 PM. *Med Sci Sports Exerc.* 2016 May;48(5 Suppl 1):105. doi:10.1249/01.mss.0000485319.98112.25. PubMed PMID: 27359643
40. Motwani M, Dey D, Berman DS, Germano G, Achenbach S, Al-Mallah MH, Andreini D, Budoff MJ, Cademartiri F, Callister TQ, Chang HJ, Chinnaian K, Chow BJ, Cury RC, Delago A, Gomez M, Gransar H, Hadamitzky M, Hausleiter J, Hindoyan N, Feuchtner G, Kaufmann PA, Kim YJ, **Leipsic J**, Lin FY, Maffei E, Marques H, Pontone G, Raff G, Rubinshtein R, Shaw LJ, Stehli J, Villines TC, Dunning A, Min JK, Slomka PJ. Machine learning for prediction of all-cause mortality in patients with suspected coronary artery disease: a 5-year multicentre prospective registry analysis. *Eur Heart J*. 2016 Jun 1. pii: ehw188. [Epub ahead of print] PubMed PMID: 27252451
41. Nakazato R, Arsanjani R, Shalev A, **Leipsic JA**, Gransar H, Lin FY, Gomez M, Berman DS, Min JK. Diagnostic Accuracy, Image Quality, and Patient Comfort for Coronary CT Angiography Performed Using Iso-Osmolar versus Low-Osmolar Iodinated Contrast: A Prospective International Multicenter Randomized Controlled Trial. *Acad Radiol*. 2016 Jun;23(6):743-51. doi: 10.1016/j.acra.2016.02.005. PubMed PMID:27178781
42. Naoum C, **Leipsic J**, Cheung A, Ye J, Bilbey N, Mak G, Berger A, Dvir D, Arepalli C, **Grewal J**, Muller D, Murphy D, Hague C, Piazza N, **Webb J**, Blanke P. Mitral Annular Dimensions and Geometry in Patients With Functional Mitral Regurgitation and Mitral Valve Prolapse: Implications for Transcatheter Mitral Valve Implantation. *JACC Cardiovasc Imaging*. 2016 Mar;9(3):269-80. doi:10.1016/j.jcmg.2015.08.022. Epub 2016 Feb 17. PubMed PMID: 26897676
43. Nørgaard BL, Hjort J, Gaur S, Hansson N, Bøtker HE, **Leipsic J**, Mathiassen ON, Grove EL, Pedersen K, Christiansen EH, Kaltoft A, Gormsen LC, Mæng M, Terkelsen CJ, Kristensen SD, Krusell LR, Jensen JM. Clinical Use of Coronary CTA-Derived FFR for Decision-Making in Stable CAD. *JACC Cardiovasc Imaging*. 2016 Apr 7. pii: S1936-878X(16)30040-7. doi: 10.1016/j.jcmg.2015.11.025. [Epub ahead of print] PubMed PMID: 27085447

44. Nørgaard BL, **Leipsic J**, Koo BK, Zarins CK, Jensen JM, Sand NP, **Taylor CA**. Coronary Computed Tomography Angiography Derived Fractional Flow Reserve and Plaque Stress. *Curr Cardiovasc Imaging Rep.* 2016;9(2). Epub 2016 Jan 5. Review. PubMed PMID: 26941886; PubMed Central PMCID: PMC4751165
45. Nørgaard BL, **Leipsic J**. From Newton to the Coronaries: Computational Fluid Dynamics Has Entered the Clinical Scene. *JACC Cardiovasc Imaging.* 2016 Jun;9(6):700-2. doi: 10.1016/j.jcmg.2015.11.018. Epub 2016 Feb 17. PubMed PMID:26897680
46. Parkash R, **Bennett MT**. Managing Advisories of Cardiac Implantable Electronic Devices. *Clinical Cardiac Pacing, Defibrillation, and Resynchronization Therapy.* Elsevier: Chapter 42. 2016
47. Perlman GY, Blanke P, Dvir D, Pache G, Modine T, Barbanti M, Holy EW, Treede H, Ruile P, Neumann FJ, Gandolfo C, Saia F, Tamburino C, Mak G, **Thompson C, Wood D, Leipsic J, Webb JG**. Bicuspid Aortic Valve Stenosis: Favorable Early Outcomes With a Next-Generation Transcatheter Heart Valve in a Multicenter Study. *JACC Cardiovasc Interv.* 2016 Apr 25;9(8):817-24. doi: 10.1016/j.jcin.2016.01.002. PubMed PMID: 27101906
48. Pibarot P, **Webb J**. The Complex Interaction Between Left Ventricular Ejection Fraction, Flow, and Gradient in Patients Undergoing TAVR. *J Am Coll Cardiol.* 2016 May 24;67(20):2359-63. doi: 10.1016/j.jacc.2016.02.072. PubMed PMID: 27199059
49. Prakash R, Starovoytov A, Heydari M, **Mancini GBJ, Saw J**. Catheter-induced iatrogenic coronary artery dissection in patients with spontaneous coronary artery dissection. *JACC Cardiovasc Interv* (in press)
50. **Rabkin SW, Shiekh IA, Wood DA**. The Impact of Left Ventricular Mass on Diastolic Blood Pressure Targets for Patients with Coronary Artery Disease. *Am J Hypertension.* 2016 Jun 16 [Epub ahead of Print]
51. Raggi P, **Mancini GBJ**. Myocardial perfusion with single photon emission computed tomography, multidetector computed tomography or neither? *J Nuclear Cardiol.* 2016 doi:10.1007/s12350-016-0528-x
52. Rodes-Cabau J, Jolly SS, Dzavik V, **Cairns JA** et al. Sealing Intermediate Non-Obstructive Coronary Saphenous Vein Graft Lesions with Drug-Eluting Stents as a New Approach to Reducing Cardiac Events. The VELETI II Randomized Controlled Trial Submitted to Circulation Interventions. June 2016
53. **Saw J, Humphries K, Mancini GBJ**. Contemporary Comprehensive Review on Spontaneous Coronary Artery Dissection. *JACC* 2016 (in press)
54. **Saw J**. Letter to the Editor: with regards to "Angiographic Appearance of Spontaneous Coronary Artery Dissection with Intramural Hematoma Proven on Intracoronary Imaging. *Cath Cardiovasc Interv* 2016 (in press)
55. Schulman-Marcus J, Ó Hartaigh B, Gransar H, Lin F, Valenti V, Cho I, Berman D, Callister T, DeLago A, Hadamitzky M, Hausleiter J, Al-Mallah M, Budoff M, Kaufmann P, Achenbach S, Raff G, Chinnaiyan K, Cademartiri F, Maffei E, Villines T, Kim YJ, **Leipsic J**, Feuchtner G, Rubinshtain R, Pontone G, Andreini D, Marques H, Shaw L, Min JK. Sex-Specific Associations Between Coronary Artery Plaque Extent and Risk of Major Adverse Cardiovascular Events: The CONFIRM Long-Term Registry. *JACC Cardiovasc Imaging.* 2016 Apr;9(4):364-72. doi:10.1016/j.jcmg.2016.02.010. PubMed PMID: 27056154
56. **Sedlak T, Guan M, Lee M, Humphries KH**, Johnson BD, Pepine CJ, Bairey Merz N. Ischemic predictors of outcomes in women with signs and symptoms of ischemia but no obstructive coronary artery disease. *JAMA Cardiology* 2016; doi:10.1001/jamacardio.2016.0740
57. **Sedlak TL, Humphries KH**. Cardiac Rehabilitation Adherence: Another Gender-Treatment Paradox. *Can J Cardiol.* 2016 Apr 22. [Epub ahead of print]
58. Sekhon MS, Smielewski P, Bhate TD, Brasher PM, Foster D, Menon DK, Gupta AK, Czosnyka M, Henderson WR, **Gin K, Wong G**, Griesdale DE. Using the relationship between brain tissue regional saturation of oxygen and mean arterial pressure to determine the optimal mean arterial pressure in patients following cardiac arrest. *Resuscitation.* 2016 May 30. doi:10.1016/j.resuscitation.2016.05.019. PMID:27255957. [Epub ahead of print]

59. Simonato M, **Webb J**, Kornowski R, Vahanian A, Frerker C, Nissen H, Bleiziffer S, Duncan A, Rodés-Cabau J, Attizzani GF, Horlick E, Latib A, Bekeredjian R, Barbanti M, Lefevre T, Cerillo A, Hernández JM, Bruschi G, Spargias K, Iadanza A, Brecker S, Palma JH, Finkelstein A, Abdel-Wahab M, Lemos P, Petronio AS, Champagnac D, Sining JM, Salizzoni S, Napodano M, Fiorina C, Marzocchi A, Leon M, Dvir D. Transcatheter Replacement of Failed Bioprosthetic Valves: Large Multicenter Assessment of the Effect of Implantation Depth on Hemodynamics After Aortic Valve-in-Valve. *Circ Cardiovasc Interv.* 2016 Jun;9(6). pii: e003651. doi: 10.1161/CIRCINTERVENTIONS.115.003651. PubMed PMID: 27301396
60. Sugumar H, Tung M, Lane C, **Sterns LD**, **Novak PG**, **Leather R**. Ejectable loop recorders? *Heart Rhythm.* 2016 May 31. pii: S1547-5271(16)30375-7. doi:10.1016/j.hrthm.2016.05.027. [Epub ahead of print] PubMed PMID: 27261071
61. Sulo E, Nygård O, Vollset SE, Igland J, Sulo G, Ebbing M, Egeland GM, **Hawkins NM**, Tell GS. Coronary angiography and myocardial revascularization following the first acute myocardial infarction in Norway during 2001-2009: Analyzing time trends and educational inequalities using data from the CVDNOR project. *Int J Cardiol.* 2016 Jun 1;212:122-8. doi: 10.1016/j.ijcard.2016.03.050. Epub 2016 Mar 19. PubMed PMID: 27043059
62. Vahanian A, Urena M, Walther T, Treede H, Wendler O, Lefèvre T, Spence MS, Redwood S, Kahlert P, Rodes-Cabau J, **Leipsic J**, **Webb J**. Thirty-day outcomes in patients at intermediate risk for surgery from the SAPIEN 3 European approval trial. *EuroIntervention.* 2016 Jun 12;12(2):e235-43. doi: 10.4244/EIJV12I2A37. PubMed PMID: 27290682
63. **Webb JG**, Lauck S. Transcatheter Aortic Valve Replacement in Transition. *JACC Cardiovasc Interv.* 2016 Jun 13;9(11):1159-60. doi: 10.1016/j.jcin.2016.03.029. Epub 2016 May 18. PubMed PMID: 27209248
64. Wijesekera VA, Raju R, Precious B, Berger AJ, **Kiess MC**, **Leipsic JA**, **Grewal J**. Sequential Right and Left Ventricular Assessment in Posttetralogy of Fallot Patients with Significant Pulmonary Regurgitation. *Congenit Heart Dis.* 2016 May 26. doi: 10.1111/chd.12354. [Epub ahead of print] PubMed PMID: 27225732

The next quarterly **UBC Cardiology Research News** will come out mid-October 2016 and will include July to September 2016 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 2016 for the next issue – deadline end of September 2016

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