

UBC Cardiology Research News

Reporting Apr-Jun 2015

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Message from Research Director

Dear Colleagues:

We are delighted to announce a second, successful CAPP Pilot Project competition that was supported by reviewers locally, provincially and nationally. The awardees are Drs. Ramanathan and Tsang and we all provide our best wishes for successful progress of their research ideas.

We extend our sincerest condolences to the family and colleagues of Dr. Jan Kornder, a member of the Research Committee, who passed away recently. Dr. Kapil Bhagirath has graciously agreed to take over Dr. Kornder's role. Dr. Kornder was a willing and active participant in our deliberations and in the pilot project reviews in spite of his personal health issues. He will be missed.

We are delighted to announce that Dr. Marc Deyell has agreed to serve as Associate Director Research to assist me in trying to understand and fulfill research needs as the UBC Division continues to expand and succeed in this critical mission. The updated organizational chart outlining the structure of the Research Program within the Division, can be found on the UBC Cardiology website under the research tab: www.ubccardio.com

The Terms of Reference for the CAPP Pilot Projects have been updated and expanded. In particular, useful tips are included as well as a sample timeline for how to approach development of a research idea through to the submission of a fully completed grant. Look for these documents also under the Research tab at www.ubccardio.com. The commitment is to continue to explore more and better ways to facilitate each critical step in the process. Feedback on this or any other aspect of our Research Program would be greatly welcomed.

Congratulations to the awardees and all the successful authors included in this latest report. It continues to be a humbling honor to be involved in showcasing your many successes.

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

Grants Awarded:

- **Ramanathan, Krishnan: CAPP Pilot Project May 2015:** "Evaluation of coronary atherosclerosis and vascular inflammation in South Asians using CT Angiography and quantification of inflammatory monocytes"
- **Tsang, Michael: CAPP Pilot Project May 2015:** "Quantitative determinants of the outcomes of tricuspid regurgitation".
- **Isserow, Saul:** "Evaluation of Pre-Participation Screening and Cardiovascular Risk Assessment in Masters Athletes in British Columbia". Funding through VGH & UBC Hospital Foundation.
- **Sanatani, Shu and Krahn, Andrew: Co-Applicants:** "Understanding the risk of sudden death in families: cascade screening in CPVT" \$260,000 HSF.

Awards and Distinctions:

- **Gin, Ken:** Clinical Faculty Award for Career Excellence in Clinical Teaching 2015, UBC FoM
- **Gin Ken:** Master Teacher Award (VGH) 2015, UBC Department of Medicine
- **Isserow, Saul:** Best Clinical Mentor Award 2015, UBC Cardiology Postgraduate Program.
- **Jue, John:** CSE Annual Achievement Award 2015. Canadian Society of Echocardiography.
- **Leipsic, Jonathon:** Donald M. Whitelaw Award 2015 for Outstanding Grand Rounds (SPH), UBC Department of Medicine
- **Sedlak, Tara:** Donald M. Whitelaw Award 2015 for Outstanding Grand Rounds (VGH). UBC Department of Medicine

Invited Lectures:

- **Isserow, Saul:** Grand Rounds, Victoria: Sports Cardiology BC. May 2015

DISCLAIMER: This newsletter is not guaranteed to be complete. It is based on voluntary submissions by Division Members and PubMed (NLM) literature search for the relevant period.

Publications

1. Ahmadi A, **Leipsic J**, Blankstein R, **Taylor C**, Hecht H, Stone GW, Narula J. Do Plaques Rapidly Progress Prior to Myocardial Infarction? The Interplay Between Plaque Vulnerability and Progression. *Circ Res*. 2015;117:99-104.
2. **Andrade JG**, Field T, Khairy P. Detection of occult atrial fibrillation in patients with embolic stroke of uncertain source: a work in progress. *Front Physiol*. 2015;6:100.
3. Blanke P, Dvir D, Cheung A, Levine RA, **Thompson C**, **Webb JG**, **Leipsic J**. Mitral Annular Evaluation With CT in the Context of Transcatheter Mitral Valve Replacement. *JACC Cardiovasc Imaging*. 2015;8:612-5.
4. Blanke P, Dvir D, Naoum C, Cheung A, Ye J, Theriault-Lauzier P, Spaziano M, **Boone RH**, **Wood DA**, Piazza N, **Webb JG**, **Leipsic J**. Prediction of fluoroscopic angulation and coronary sinus location by CT in the context of transcatheter mitral valve implantation. *J Cardiovasc Comput Tomogr*. 2015;9:183-92.
5. **Brunner NW**, Zamanian RT, Ikeno F, Mitsutake Y, Connolly AJ, Shuffle E, Yuan K, Orcholowski M, Lyons J, de Jesus Perez VA. Optical Coherence Tomography of Pulmonary Arterial Walls in Humans and Pigs (*Sus scrofa domestica*). *Comp Med*. 2015;65:217-24.
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7. Chakravarty T, Van Belle E, Jilaihawi H, Noheria A, Testa L, Bedogni F, Ruck A, Barbanti M, Toggweiler S, Thomas M, Khawaja MZ, Hutter A, Abramowitz Y, Siegel RJ, Cheng W, **Webb J**, Leon MB, Makkar RR. Meta-analysis of the impact of mitral regurgitation on outcomes after transcatheter aortic valve implantation. *Am J Cardiol*. 2015;115:942-9.
8. Chou AY, **Mancini GB**. Warfarin Monotherapy in Atrial Fibrillation Patients With Stable Coronary Disease One Year After Myocardial Infarction/Stent: Two Birds With One Stone? *Can J Cardiol*. 2015.
9. Daskalopoulou SS, Rabi DM, Zarnke KB, Dasgupta K, Nerenberg K, Cloutier L, Gelfer M, Lamarre-Cliche M, Milot A, Bolli P, McKay DW, Tremblay G, McLean D, Tobe SW, Ruzicka M, Burns KD, Vallee M, Ramesh Prasad GV, Lebel M, Feldman RD, Selby P, Pipe A, Schiffrin EL, McFarlane PA, Oh P, Hegele RA, Khara M, Wilson TW, Brian Penner S, Burgess E, Herman RJ, Bacon SL, **Rabkin SW**, Gilbert RE, Campbell TS, Grover S, Honos G, Lindsay P, Hill MD, Coutts SB, Gubitza G, Campbell NR, Moe GW, Howlett JG, Boulanger JM, Prebtani A, Laroche P, Leiter LA, Jones C, Ogilvie RI, Woo V, Kaczorowski J, Trudeau L, Petrella RJ, Hiremath S, Stone JA, Drouin D, Lavoie KL, Hamet P, Fodor G, Gregoire JC, Fournier A, Lewanczuk R, Dresser GK, Sharma M, Reid D, Benoit G, Feber J, Harris KC, Poirier L, Padwal RS. The 2015 Canadian Hypertension Education Program recommendations for blood pressure measurement, diagnosis, assessment of risk, prevention, and treatment of hypertension. *Can J Cardiol*. 2015;31:549-68.
10. De Ferrari GM, Dusi V, Spazzolini C, Bos JM, Abrams DJ, Berul CI, Crotti L, Davis AM, Eldar M, Kharlap M, Khoury A, **Krahn AD**, Leenhardt A, Moir CR, Otero A, Olde Nordkamp L, Paul T, Roses INF, Shkolnikova M, Till J, Wilde AA, Ackerman MJ, Schwartz PJ. Clinical Management of Catecholaminergic Polymorphic Ventricular Tachycardia: The Role of Left Cardiac Sympathetic Denervation. *Circulation*. 2015;131:2185-93.
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12. Ebtia M, Murphy D, **Gin K**, **Lee PK**, **Jue J**, **Nair P**, **Mayo J**, Barnes ME, Thompson DJ, **Tsang TS**. Best method for right atrial volume assessment by two-dimensional echocardiography: validation with magnetic resonance imaging. *Echocardiography*. 2015;32:734-9.
13. Franco C, Eng L, **Saw J**. Optical Coherence Tomography in the Diagnosis and Management of Spontaneous Coronary Artery Dissection. *Interventional Cardiology Clinics*. 2015;4:309-320.
14. Haddad F, Spruijt OA, Denault AY, Mercier O, **Brunner N**, Furman D, Fadel E, Bogaard HJ, Schnittger I, Vrtovec B, Wu JC, de Jesus Perez V, Vonk-Noordegraaf A, Zamanian RT. Right

Publications

- Heart Score for Predicting Outcome in Idiopathic, Familial, or Drug- and Toxin-Associated Pulmonary Arterial Hypertension. *JACC Cardiovasc Imaging*. 2015;8:627-38.
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 16. Herman A, **Bennett MT**, **Chakrabarti S**, **Krahn AD**. Life threatening causes of syncope: channelopathies and cardiomyopathies. *Auton Neurosci*. 2015;184:53-9.
 17. Jolly SS, **Cairns JA**, Yusuf S, Meeks B, Pogue J, Rokoss MJ, Kedev S, Thabane L, Stankovic G, Moreno R, Gershlick A, Chowdhary S, Lavi S, Niemela K, Steg PG, Bernat I, Xu Y, Cantor WJ, Overgaard CB, Naber CK, Cheema AN, Welsh RC, Bertrand OF, Avezum A, Bhindi R, Pancholy S, Rao SV, Natarajan MK, ten Berg JM, Shestakovska O, Gao P, Widimsky P, Dzavik V. Randomized trial of primary PCI with or without routine manual thrombectomy. *N Engl J Med*. 2015;372:1389-98.
 18. Ke C, Khosla A, **Davis MK**, Hague C, **Toma M**. A case of coronary vasospasm after repeat rituximab infusion. *Case Rep Cardiol*. 2015;2015:523149.
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 20. Latib A, Naganuma T, Abdel-Wahab M, Danenberg H, Cota L, Barbanti M, Baumgartner H, Finkelstein A, Legrand V, de Lezo JS, Kefer J, Messika-Zeitoun D, Richardt G, Stabile E, Kaleschke G, Vahanian A, Laborde JC, Leon MB, **Webb JG**, Panoulas VF, Maisano F, Alfieri O, Colombo A. Treatment and clinical outcomes of transcatheter heart valve thrombosis. *Circ Cardiovasc Interv*. 2015;8.
 21. Leetmaa T, Hansson NC, **Leipsic J**, Jensen K, Poulsen SH, Andersen HR, Jensen JM, **Webb J**, Blanke P, Tang M, Norgaard BL. Early aortic transcatheter heart valve thrombosis: diagnostic value of contrast-enhanced multidetector computed tomography. *Circ Cardiovasc Interv*. 2015;8.
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 27. O'Neill BP, Guerrero M, Thourani VH, Kodali S, Heldman A, Williams M, Xu K, Pichard A, Mack M, Babaliaros V, Herrmann HC, **Webb J**, Douglas PS, Leon MB, O'Neill WW. Prognostic value of serial B-type natriuretic peptide measurement in transcatheter aortic valve replacement (from the PARTNER Trial). *Am J Cardiol*. 2015;115:1265-72.
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 29. **Rabkin SW**, Moe G. The case against using hypertension as the only criterion for oral anticoagulation in atrial fibrillation. *Can J Cardiol*. 2015;31:576-9.

Publications

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31. **Saw J**, Fahmy P, DeJong P, Lempereur M, Spencer R, **Tsang M**, **Gin K**, **Jue J**, **Mayo J**, McLaughlin P, Nicolaou S. Cardiac CT angiography for device surveillance after endovascular left atrial appendage closure. *Eur Heart J Cardiovasc Imaging.* 2015.
32. Scheuermeyer FX, Pourvali R, Rowe BH, Grafstein E, Heslop C, MacPhee J, McGrath L, Ward J, **Heilbron B**, Christenson J. Emergency Department Patients With Atrial Fibrillation or Flutter and an Acute Underlying Medical Illness May Not Benefit From Attempts to Control Rate or Rhythm. *Ann Emerg Med.* 2015;65:511-522 e2.
33. Sheldon RS, Grubb BP, 2nd, Olshansky B, Shen WK, Calkins H, Brignole M, Raj SR, **Krahn AD**, Morillo CA, Stewart JM, Sutton R, Sandroni P, Friday KJ, Hachul DT, Cohen MI, Lau DH, Mayuga KA, Moak JP, Sandhu RK, Kanjwal K. 2015 heart rhythm society expert consensus statement on the diagnosis and treatment of postural tachycardia syndrome, inappropriate sinus tachycardia, and vasovagal syncope. *Heart Rhythm.* 2015;12:e41-63.
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35. **Tsang TS**, Jones M, Meneilly GS. Analysis of research ethics board approval times in an academic department of medicine. *J Empir Res Hum Res Ethics.* 2015;10:145-50.
36. **Tung S**, **Lemaire J**. His bundle pacing: in pursuit of the "sweet spot". *Pacing Clin Electrophysiol.* 2015;38:537-9.
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The next quarterly **UBC Cardiology Research News** will come out mid-October 2015 and will include July – September 2015 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 2015 for the next issue – deadline end of September, 2015

Your research achievements welcomed at any time

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