



THE ARTHRITIS RESEARCH CENTRE OF CANADA

BOARD MEETING – TUESDAY, SEPTEMBER 9, 2014

QUARTERLY REPORT OF THE SCIENTIFIC DIRECTOR

SALARY AWARDS & SCIENTIFIC AWARDS

TRAINEES

Marie Westby (supervisors: Linda Li and Allyson Jones) was awarded the 2014 Association of Rheumatology Health Professionals Distinguished Clinician Award. The award honors Association members who have demonstrated expert clinical management of persons with rheumatic diseases.

Cam Clayton (supervisor: Linda Li) received funding from The BC Division of The Arthritis Society to pursue a Master's thesis on the topic of using an online monitoring tool to improve physical activity in people with osteoarthritis.

Sharan Rai (supervisors: Hyon Choi and Antonio Aviña) has been awarded a Lupus Canada Scholarship award to pursue her Master's degree.

Arun Agha, Jimmy Guo and **Erin Carruthers** have been accepted by UBC Medical School starting this fall.

FACULTY

UBC has appointed **Jacek Kopec** to be the Head of the newly created Division of Epidemiology, Biostatistics, and Public Health at UBC's School of Population and Public Health.

Charlie Goldsmith, the Milan Ilich/Merck Chair in Biostatistics, was in the top 1% of cited authors for Social Science in Medicine in 2014.

GRANTS

Five of the 11 Canadian Initiative for Outcomes in Rheumatology Care (CIORA) research grants given out by the Canadian Rheumatology Association have been awarded to ARC scientists and an ARC scientist is a key participant in a sixth award.

Charlie Goldsmith, the Maureen and Milan Ilich/Merck Chair in Arthritis Biostatistics at ARC, was a key co-investigator on a funded Canadian Rheumatology Association grant entitled *“Improving patient outcomes in rheumatoid arthritis may require a deeper understanding of medication adherence”*. This grant shows the impact of having the only statistical chair in arthritis at ARC and how it can improve arthritis research nationally.

Glen Hazlewood (Principal Investigator) and **Cheryl Barnabe, Deborah Marshall, Linda Li, Nick Bansback**, Vivian Bykerk and Peter Tugwell were awarded a Canadian Rheumatology Association grant entitled *“Development and usability testing of a personalized risk communication tool to facilitate the shared decision of methotrexate treatment options in early rheumatoid arthritis”*. Since methotrexate is the most commonly used treatment for rheumatoid arthritis and the key drug in rapidly controlling the disease early on, this tool will help patients and rheumatologists decide between methotrexate by pills, subcutaneous methotrexate (i.e., by shot), and methotrexate combined with another drug.

Paul Fortin and **Jean Légaré** (Chair, Laval University APAB) are co-investigators along with Louis Bessette, Anne-Laure Chetaille, and Holly Witteman on a grant entitled *“Measuring the impact of an innovative educational intervention in inflammatory arthritis: a natural evolution of the CHU de Québec’s multidisciplinary information session”*. The Principal Investigator on this grant is Dr. Laëtitia Michou from Laval University. The project will develop an educational program for Eastern-Quebec patients with rheumatoid arthritis, consisting of a DVD with 12 short chapters, presented by a team including health professionals and patients, followed by an in-person session or a teleconference to facilitate key messages understanding. The goal is to make it easier for French speaking patients to find information on inflammatory arthritis.

Mary De Vera received two grants as Principal Investigator. The first was entitled *“Collaborative care involving eHealth to improve treatment adherence and health outcomes of patients with gout”* and has as co-investigators **Carlo Marra, Kam Shojanian, Hyon Choi, Antonio Aviña**, Alison Kydd, and Melissa Baker. This project will use a novel e-health approach with physicians and pharmacists to investigate the epidemic of non-adherence in patients with gout.

Mary de Vera’s second grant is entitled *“Inflammatory arthritis patients’ perspectives, priorities, and opinions on Interventions FOR MEDication adherence (INFORMED)”*. The co-investigators are **Carlo Marra, Antonio Aviña, Anne Townsend** and **Sharan Rai**. This project will use arthritis patient focus groups to gather information aimed at increasing adherence to arthritis treatments.

Diane Lacaille is the Principal Investigator on a grant entitled *“Case managers to improve the management of inflammatory arthritis and associated comorbidities with First Nations communities: A proof of concept study”*. Her co-investigators are **Cheryl Barnabe, Linda Li, Charlie Goldsmith**, Helen Brown, and Lindsay Crowshoe. This project will use a nurse case manager residing in the community to see whether this helps overcome barriers to care, improves health behaviours and is seen as a positive addition by the communities of Old Massett Village, Haida Gwaii, BC, and Siksika, AB.

Linda Li has received a Canadian Institutes of Health Research grant for her application "Supporting Physical activity & Reducing sedentary behaviour in Arthritis (SuPRA)". Co-investigators on this grant include: Greg Noonan (MPAP), Diane Gromala (SFU), Chris Shaw (SFU), Paul Adam (MPAP), Richard Smith (Centre for Digital Media), **Alison Hoens, Antonio Aviña, Catherine Backman, Lynne Feehan, Charlie Goldsmith** and **Anne Townsend**. Consumer collaborators include **Ruta Cummings, Lianne Gulka** and **Cheryl Koehn**.

Linda Li also received two grants from The Arthritis Society (TAS), the first is entitled "Effectiveness of Online Physical Activity Monitoring in Inflammatory Arthritis (OPAM-IA): *A new model of care*". Co-Investigators on this grant include **Antonio Aviña, Catherine Backman, Lynne Feehan, Charlie Goldsmith, Anne Townsend**, Chris Shaw and Diane Gromala.

The second TAS award is for "*Effectiveness of physical activity coaching using Fitbit in people with knee osteoarthritis: A pilot study*".

Linda Li's fourth grant is from the Vancouver Coastal Health Research Institute to initiate a project "*Monitor OA*". Co-investigators on this grant are Greg Noonan, **Alison Hoens, Charlie Goldsmith**, and **Lynne Feehan**.

Salary Awards

The Canadian Institutes of Health Research awarded three ARC scientists the prestigious New Investigator Award. **Cheryl Barnabe** (ARC Calgary) won for her application entitled "*Arthritis care for Indigenous populations*". **Nick Bansback** of (Milan Ilich ARC) successful application is entitled "*Can patient-centred care improve outcomes and save costs?*", and **Michael Hunt's** (Milan Ilich ARC) award is for his application "*Non-invasive treatments to improve disease symptoms and cartilage health for knee osteoarthritis*".

Two ARC scientists were awarded the Career Investigator Award by the Michael Smith Foundation for Health Research. **Mary De Vera** (Milan Ilich ARC) won for her application "*Pharmacoepidemiologic and pharmaceutical outcomes research to improve medication use, adherence, and outcomes in patients with arthritis*". **Antonio Aviña-Zubieta's** award is entitled "Reducing the burden and Gaps IN care for patients with Systemic Autoimmune Rheumatic Diseases (ReGaIN SARDs)". In addition, **Dr. Aviña-Zubieta's** scholarship from the BC Lupus Society was extended for an additional year.

PAPERS AT SCIENTIFIC MEETINGS

Annual European Congress of Rheumatology (EULAR 2014), June 11–14 2014, Paris, France

1. **Barnabe C**, Huang W-T, Sun Y, Boire G, Hitchon CA, Keystone EC, Thorne JC, Haraoui B, Curtis J, Tin D, Pope JE, Bykerk V, CATCH Investigators. Socio-demographic and health status characteristics explain clinical outcome trajectories in early inflammatory arthritis (EIA). *Ann Rheum Dis* 2014;73:Suppl 2:74.

Disease trajectories in early inflammatory arthritis are influenced by socio-demographic and health status factors including age, sex, comorbid disease, smoking status, ethnicity, income, and employment. Differing therapeutic requirements are reflected in these trajectories. To achieve further improvements in early inflammatory arthritis outcomes, population health strategies addressing social determinants of health and patient-tailored treatment strategies are needed.

2. **Barnabe C**, Marotte H, Scharmga A, Kraus S, Burghardt A, Hauge E-M, Boutroy S, Toepfer D, Engelke K, Kocijan R, de Jong J, Li X, Stok K, Finzel S, SPECTRA. Rheumatoid arthritis erosion detection and measurement in longitudinal datasets using High-Resolution peripheral Quantitative Computed Tomography (HR-pQCT): Reliability Exercise-2 (RELEX-2). *Ann Rheum Dis* 2014;73:Suppl 2:654-655.

Agreement for the presence or absence of x-ray damage was 92.9%. Erosion (a measure of x-ray damage) dimensions did not significantly change over 1 year but a trend to reduction in mean size was observed. The case definition for erosions imaged by is valid in longitudinal studies. Despite variability in measurements, a trend towards changes in erosion size was demonstrated.

3. **Barnabe C**, Montpellier O, Manske SL, Boyd SK. Determining optimal hand position for reliable metacarpophalangeal joint width measurements using volumetric methodology by HR-pQCT. *Ann Rheum Dis* 2014;73:Suppl 2:1116.

Our 3D volumetric measurement method of joint space width for x-rays acquired with HR-pQCT technology is best up to 10 degrees of flexion, and care should be given to remaining in this parameter for longitudinal or repeated measures studies.

4. **Barnabe C**, Kraus S, Marotte H, Hauge E-M, Scharmga A, Kocijan R, Toepfer D, Boutroy S, Keller KK, de Jong J, Williams J, Stok KS, Finzel S. Case definition for erosions imaged with High-Resolution Peripheral Quantitative Computed Tomography (HR-pQCT): An international SPECTRA Reliability Exercise-1 (RELEX-1). *Ann Rheum Dis* 2014;73:Suppl 2:473-474.

We have devised a new case definition for x-ray damage with HR-pQCT imaging. Inter-reader reliability for detection is good, yielding promise to use HR-pQCT as an outcome measurement tool for bony damage.

5. **Cibere J**, **Kopec JA**, Wong H, Singer J, **Esdaile JM**, Nicolaou S, Guermazi A. Knee effusion is a risk factor for prevalence and progression of bone marrow lesions: A population-based study. *Ann Rheum Dis* 2014;73:Suppl 2:259.

In this 3-year study of painful early knee osteoarthritis, people with swelling of the knee on examination had a 5-fold increased risk of bone bruising on MRI and had a 3-fold increased risk of worsening of bone bruising over 3 years. Since bone bruises have been linked to subsequent cartilage damage and progression of osteoarthritis, assessment for knee swelling may be a useful and inexpensive test for identifying people with bone bruises, and therefore at risk of osteoarthritis progression, in clinical trials.

6. Creaser C, Harrison T, Martin L, **Barnabe C**. Body mass index and its relationship to disease activity in early rheumatoid arthritis. *Ann Rheum Dis* 2014;73:Suppl 2:1210-1211.

In our study no relationship existed between obesity and disease severity at initial assessment or response to therapy. The cardiovascular risk due to rheumatoid arthritis in these patients overwhelms the already recognized cardiovascular risks associated with obesity.

7. **De Vera M**, Galo J. What are the effects of interventions targeting medication adherence in rheumatic diseases: A systematic review. *Ann Rheum Dis* 2014;73:Suppl 2:459.

Medication adherence has been reported as low as 30% in rheumatoid arthritis, 49% in systemic lupus erythematosus, and 17% in gout. We reviewed studies of medication adherence, to understand how health care providers can improve it. There was almost no information.

8. **Feehan L, Clayton C, Carruthers E, Li LC**. Feasibility of using Fitbit Flex to motivate people with rheumatoid arthritis to be physically active. *Ann Rheum Dis* 2014;73:Suppl 2:1204-1205.

This study examined the feasibility of using a small interactive physical activity monitor worn on the wrist (FitBit Flex™) to monitor daily activities over 4-weeks in ten people living with rheumatoid arthritis. All participants enjoyed using the physical activity monitor; suggesting the FitBit Flex™ may be a promising motivational tool for promoting physical activity in people living with rheumatoid arthritis.

9. Harrison T, Martin L, **Barnabe C**. Should a successful early inflammatory arthritis clinic also address cardiac risk? *Ann Rheum Dis* 2014;73:Suppl 2:163-164.

Patients in our Early Inflammatory Arthritis clinic with a diagnosis of rheumatoid arthritis are well managed from the perspective of their joint pain and swelling. However nearly half had much higher scores for heart risks compared to the Canadian population. The Early Inflammatory Arthritis clinic may be an ideal setting to educate patients about cardiac risk.

10. **Harvard S**. Developing quality criteria from the assessments in Ankylosing Spondylitis Society (ASAS) and European League Against Rheumatism (EULAR) ankylosing spondylitis management recommendations: Towards quantitative definitions of non-compliance. *Ann Rheum Dis* 2014;73:Suppl 2:433.

We report the results of a three round Delphi study in which a set of quality indicators was developed from the Assessment of Spondyloarthritis Society/European League Against Rheumatism clinical guidelines for ankylosing spondylitis. These indicators will be useful in future studies aimed at evaluating the effects of guideline adherence.

11. **Kopec JA**, Heath A, **Sayre EC, Cibere J, Li LC, Marra CA, Liu RR, Esdaile JM**. Prevalence of joint pain and self-reported osteoarthritis in British Columbia, Canada. *Ann Rheum Dis* 2014;73:Suppl 2:257-258.

In a survey of 2,233 randomly selected adult residents of British Columbia, 21% reported osteoarthritis of any joint. Knee osteoarthritis was present in 10% of the population and hip osteoarthritis in 4%. Close to 10% reported osteoarthritis in multiple joints.

12. **Li LC, Kopec JA, Wong H, Cibere J, Zhang C, Sayre EC, Ye J, Barber M, Prlic H, Esdaile J.** Prevalence of femoroacetabular impingement in Caucasians compared to Chinese in Vancouver, Canada: A population-based study. *Ann Rheum Dis* 2014;73:Suppl 2:457-458.

Femoroacetabular impingement is an abnormality of the hip visible on x-ray. It is thought to lead to osteoarthritis of the hip. 201 Chinese aged between 20 and 49 were recruited in Metro Vancouver and femoroacetabular impingement was present in 44/134 women and 32/67 men. Our findings contribute new information on the prevalence of femoroacetabular impingement among Chinese living in North America.

13. Moura C, Abrahamowicz M, Beauchamp M-E, **Lacaille D**, Wang Y, Bombardier C, Widdifield J, Hanly JG, Boire G, Feldman D, Maksymowych W, Peschken C, **Barnabe C**, Edworthy S, **Fortin PR**, Bessette L, Behloul H, Bernatsky S. Is early DMARD use associated with less joint replacement surgery? An analysis of 5,199 incident rheumatoid arthritis (RA) patients. *Ann Rheum Dis* 2014;73:Suppl 2:219-220.

This study using administrative health data from Quebec on people with new onset rheumatoid arthritis with medication coverage under the Quebec provincial drug plan, found that greater use of methotrexate in the first year after diagnosis was associated with a lower risk of joint replacement surgery later on, suggesting that early use of methotrexate may protect the joints and prevent the need for future joint replacement.

14. **Yurkovich M, Sayre EC, Shojanian K, Aviña-Zubieta A.** The risk of myocardial infarction and cerebrovascular accident in patients with Sjögrens syndrome: A general population-based cohort study. *Ann Rheum Dis* 2014;73:Suppl 2:142-143.

We tested whether having an inflammatory disease such as lupus would increase the risk of having another inflammatory disease such as COPD (chronic inflammation of the lung) compared to people of the same age and gender from the general population. Our results showed that lupus patients have 2 times more risk of developing COPD than people without lupus. Moreover, the risk was 6 times more within the first year after lupus onset. These results confirm the role of inflammation in the development of COPD.

15. **Yurkovich M, Sadatsafavi M, Sayre EC, Esdaile J, Aviña-Zubieta A.** Elevated risk of chronic obstructive pulmonary disease in systemic lupus erythematosus: A population-based study. *Ann Rheum Dis* 2014;73:Suppl 2:180.

This is the first large study assessing the risk of heart attacks and strokes in people living with Sjögrens disease (a disease that is related to lupus, but mainly characterized by dry eyes, dry mouth and non-destructive arthritis). We found that patients with this disease have a two times greater risk of heart attacks (240% more risk) and 60% greater risk of strokes than people without Sjögrens.

Canadian Physiotherapy Association Congress, June 19-22, 2014, Edmonton, Alberta

1. **Westby MD, Carr S, Kennedy D, Brander V, Bell M, & Backman CL.** Post-acute physiotherapy for primary total hip arthroplasty: A Cochrane systematic review. CPANC: <http://myorthoevidence.com/ace/6682/>.

We assessed whether people who had undergone a total hip or total knee replacement within the previous six months could make further improvements in their day-to-day activities, quality of life and physical activity levels by participating in a 6-week land and pool-based exercise program. People who completed the exercise program had clinically important improvements in their walking and stair climbing speed and quality of life and that 50% improved their overall physical activity level. We concluded that a community-based exercise program is safe and may enhance further physical recovery after hip and knee replacement.

NEW STAFF AND STAFF CHANGES

Erin Carruthers, who has worked as a research assistant for both **Diane Lacaille** and **Linda Li** as well as being the ARC liaison to the APAB left ARC at the end of August to start medical school at UBC. **Aliya Haji** who has been working as Research Coordinator for **Linda Li** on the ICON project also left ARC at the end of August to pursue full-time studies towards her Master's degree. They will both be greatly missed and we wish them well.

Agnes Jamont has joined ARC in Fund Development on a part-time basis to assist with research and proposal writing for corporates and foundations. **Louise Walker**, who was working at the Fund Development Coordinator, left ARC in August and has been replaced on a temporary basis by **Kelly Baldwin** as the new Fund Development Assistant.

Signed:



John M. Esdaile, MD, MPH, FRCPC, MAHS
Scientific Director, Arthritis Research Centre of Canada

Appendix I: ACTIVE GRANT FUNDING UP TO JUNE 30, 2014

Appendix II: PUBLICATIONS & ABSTRACTS FROM JULY 1, 2013 TO JUNE 30, 2014

Appendix I
FUNDING FROM JULY 1, 2013 TO JUNE 30, 2014

| SCIENTIST FUNDING | | | | |
|---|---|-----------------------|--|--|
| Funding Source | Project Title | Funding Period | PI | Co-Is |
| CIHR | Knowledge translation to optimize mobility independence in older adults: Improving Cognitive & Joint health Network (ICON) | 2014/04 - 2017/03 | JM Esdaile, LC Li, D Gromala, T Liu-Ambrose | P Adam, A Hoens, CA Jones, F Legare, C Shaw, R Smith, S Straus |
| CIHR | Supporting Physical activity & Reducing sedentary behaviour in Arthritis (SuPRA) | 2014/06 - 2016/05 | LC Li, G Noonan, D Gromala | A Avina-Zubieta, C Goldsmith, C Backman, A Townsend, L Feehan, R Smith, C Shaw, A Hoens |
| Apogee/net CanGene TesNetwork | Developing and evaluation of a patient decision aid for genomic sequencing | 2012/10 - 2013/09 | JM Friedman | A Townsend, S Adam, P Birch, F Legare, F Rousseau |
| CIHR | Towards improving treatment adherence and of patients with gout | 2013/11 - 2014/10 | M de Vera | H Choi, J Esdaile, A Kydd, C Marra, K Shojanja |
| CIHR | Antidepressant use during pregnancy and the risk of pregnancy induced hypertension, gestational diabetes, and post-partum depression. | 2011/10 - 2013/09 | A Bérard | L Blais, M De Vera , E Rey, F Santos, M St-André |
| TAS Model of Care catalyst | Arthritis care in the: Understanding the context of and barriers to integrating online tools to optimize physical activity | 2014/1 - 2014/12 | L Li | JA Avina-Zubieta, C Backman, A Davis, D Gromala, A Jones, A Townsend |
| Canadian Foundation for Innovation | Health Decision Technology (HD-Tech) Lab | 2013 - 2015 | LC Li | |
| Networks of Centres of Excellence (NCE) | Administrative data for rheumatic disease research and surveillance | 2010/09 - 2013/08 | S Bernatsky | JA Avina-Zubieta, D Lacaille, L Lix |

Appendix I continued
FUNDING

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|------------------------------------|---|-------------------|---|--|
| TAS | Effects of toe-out gait modification on clinical and biomechanical measures in people with medial compartment knee osteoarthritis | 2013/10 – 2015/09 | MA Hunt | CH Goldsmith , DR Wilson |
| Physiotherapy Foundation of Canada | Pre-operative strength training for people with femoroacetabular impingement | 2013 – 2014 | MA Hunt | |
| CIHR | Canadian longitudinal study on aging: Mobility initiative | 2008/10 – 2014/9 | P Raina, S Kirkland, C Wolfson | J Kopec et al |
| CIHR | The CIHR team in driving in older persons (CanDRIVE II) Research Program | 2008/10 – 2013/09 | MG Man-Soon-Hing, S Marshall | P Boase, A Byszewaki, M Bedard, AB Cranney, LC Li , BL Mazer, NA Korner-Bitensky, G Naglie, JA Polgar, MM Porter, MJ Rapoport, IG Stiell, HA Tuokko, BH Vrkljan, GA Wells |
| CIHR | CIHR Team in microsimulation modeling: of the Impact of Health Interventions and Policies | 2008/12 – 2013/11 | J Kopec | M Abrahamowicz, D Buckeridge, P Fines; W Flanagan, S Harper, J Lynch, D Manuel, J Oderkirk, M Wolfson |
| CIHR | Centre for Hip Health and Mobility: A team approach to mobility in vulnerable seniors | 2008/10 – 2014/09 | K Miran-Khan, LC Li , TY Liu-Ambrose, CA Marra , HA McKay | M Ashe, PM Brashea, ML Cook, MS Snyder, JJ Eng, JM Fitzgerald, DA Hart, JA Kopec , JA Kornelsen, VJ Scott, RE Rhodes, H Feldman, B Lillies, AL MacKay, JE Mcelhaney |
| CIHR Training Grant | Enhancing existing capacity in applied health services and policy research in Western Canada | 2009/04 – 2015/03 | S Sheps, M Barer | A Casebeer, H Quan, DA Marshall |
| CIHR | CIHR Team in Models of Care in Arthritis (MoCA) | 2008/12 – 2014/11 | AM Davis, EM Badley | CA Cott, LC Li , GA Hawker, MD Landry, CB Frank |

Appendix I continued
FUNDING

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| NHMRC (Australia) | Addressing pain in knee osteoarthritis: physiotherapist delivered exercise and Cognitive Behavioural Intervention | 2010 – 2013 | KL Bennell | FJ Keefe, G Jull, M Nicolas, MA Hunt , C Bryant |
| NIH / MSFHR | Leadership and health system redesign | 2010 – 2013 | G Dickson | A Anis , A Backman, R Baker, C Black, R Blais, JL Denis, J Lavis, R Lindstrom, D Persaud, D Philippon, R Tamblyn |
| CIHR | Empowering patients as active partners in their care: lupus interactive navigator (LIN) | 2011/04 – 2014/03 | P Fortin | E Aghdassi, S Barr, A Avina-Zubieta |
| CIHR | Natural History of Femoroacetabular Impingement. CIHR Team in IMPAKT-HIP sub-project #5 | 2010/10 – 2015/09 | J Cibere | J Esdaile , J Kopec , R Poole, LC Li , D Wilson, B Forster, M Abrahamowicz, H Wong |
| CIHR | CIHR Team in IMPAKT-HIP – Investigations of Mobility, Physical Activity, and Knowledge Translation in Hip Pain | 2010/10 – 2015/09 | J Esdaile | LC Li , J Cibere , C Emery, B Forester, D Garbuz, M Gilbert, J Kopec , A Lehman , A Mackay, H McKay, D Wilson, H Wong, M Abrahamowicz |
| Vancouver Foundation | Development and pilot testing of a culturally relevant family-based self-management program for first nations peoples | 2011 – 2013 | A Lehman | P McGowan, LC Li , J Esdaile , D Lacaille , C Backman , A Aviña-Zubieta |
| GSK | The epidemiology of systemic lupus erythematosus | 2011 – 2013 | A Avina-Zubieta | |
| Networks of Centres of Excellence (NCE) | Burden and co-morbidity of systemic autoimmune rheumatic diseases | 2010 – 2013 | A Avina-Zubieta | S Bernatsky, D Lacaille , J Esdaile , M Abrahamowicz, C Marra , J Kopec , A Lehman |
| CIHR Operating Grant | Arthritis in First Nations people in Alberta: prevalence and health care utilization | 2011/10 – 2013/09 | B Hemmelgarn | C Barnabe , S Bernatsky, J Esdaile , C Goldsmith , L Joseph, C Peschken |

Appendix I continued
FUNDING

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| CHSRF | Engaging patients as collaborators to improve osteoarthritis care in Alberta | 2011 – 2013 | T Wasylak | DA Marshall , N Marlett, T Noseworthy |
| EULAR | Towards a patient global measure to assess at-work limitations / productivity loss in patients with inflammatory arthritis and osteoarthritis | 2011 – 2014 | S Verstappen | B Fautrel, S Dadoun, A Boonen I. Petersson, D Lacaille , D Beaton, K Tang, M Gignac |
| CIHR | RCT evaluating the effectiveness of the Program at preventing work loss and improving at work productivity in employed people with inflammatory arthritis | 2011/10 – 2016/09 | D Lacaille | C Backman, J Esdaile , M Gignac, CH Goldsmith, LC Li, CA Marra |
| CIHR | New statistical methods for population-based studies of comparative effectiveness and safety of medications: Development, validation and application | 2011/10 – 2016/09 | M Abrahamowicz | S Bernatsky, J Brophy, D Buckeridge, R Capek, J Delaney W Dixon, R Ionescu-Ittu, D Lacaille , L Levesque, A Levy, Y Moride, L Pilote, R Tamblyn |
| CAN | Interpretability of measures of worker productivity: A study defining meaningful benchmarks and changes in scores for use in clinical trials and clinical practice in arthritis | 2012 – 2013 | D Beaton | K Tang, P Smith, D Lacaille , R Escorpizo, C Hofstetter, P Montie, S Verstappen, A Boonen |
| CIORA | The window of opportunity: Seizing the opportunity for positive lifestyle modifications in early inflammatory arthritis | 2012 – 2013 | C Barnabe | L Martin, C Creaser, C Johns, T Fenton |
| CIORA | Access and utilization of healthcare for rheumatoid arthritis in Aboriginal People in Alberta | 2012 – 2013 | C Barnabe, CA Jones | D Voaklander, J Homik, DA Marshall , W Thurston, |
| TAS | Erosion healing and restoration of function in rheumatoid arthritis | 2013 – 2016 | C Barnabe | SK Boyd |
| TAS | Urban Aboriginal arthritis detection and management strategy | 2013 – 2014 | C Barnabe | L Crowshoe |

Appendix I continued
FUNDING

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| TAS | Promoting preference-based decision making: A proof-of-concept study to evaluate the effect of an enhanced decision aid for medication choices in knee osteoarthritis | 2012 – 2013 | N Bansback | S Bryan, LC Li , L Lynd, J Cibere , P Brascher, CA Marra |
| CIORA | Development and pilot testing of a patient passport for rheumatoid arthritis | 2012 – 2013 | D Lacaille | P Adam, LC Li , A Townsend , CH Goldsmith , B Mitchell, G Ellert, N Prestley |
| CIORA | From prediction to proof: Using linked data to observe reductions in RA costs following expansion on biologic therapies | 2011-2013 | A Anis | D Lacaille N Bansback |
| CIORA | Does early, aggressive, and persistent use of DMARD therapy reduce downstream healthcare care costs attributable to RA: an instrumental variable approach using observational administrative data | 2013-2014 | N Bansback A Anis | D Lacaille K Shojania |
| CIHR Operating Grant | An international, multi-center, prospective, inception cohort study of neuropsychiatric systemic lupus erythematosus (NPSLE) | 2013/04 – 2018/03 | JG Hanley | V Farewell, D Gladman, M. Urowitz, A Clarke , P Fortin |
| CIORA | The Early Arthritis Screening & Treatment (EAST) program for Eastern Quebec | 2013-2015 | P Fortin | |
| CIHR | From skin to joints common mechanism of damage due to chronic inflammation | 2013/03 – 2014/02 | P Fortin | E Boilard, S Bourgoin, JP Dutz , L Germain |
| CIHR DSEN TEAM Grant | Developing advanced methods for population-based comparative effectiveness studies. | 2011 09 - 2014 08 | MA Abrahamowicz, SR Bernatsky, A Berard, D Lacaille , AR Levy, Y Moride, L Pilote, et al | P Fortin , C Marra et al |
| Alliance for Lupus Research | Identification of biomarkers for patient stratification and lupus nephritis | 2012 - 2015 | J Wither | P Fortin |

Appendix I continued
FUNDING

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|---|--|-------------------|--------------------------------|---|
| AIHS | Aboriginal Albertan's perceptions of health service delivery for osteoarthritis and total joint replacement | 2012 – 2014 | C Barnabe | DA Marshall, CA Jones |
| HSFC | Effectiveness of Fast muscle Activation and Stepping Training (FAST) on balance and mobility post stroke | 2012 – 2015 | SJ Garland | MA Hunt, D Bryant |
| CIHR Planning Grant | Evidence based planning of an optimal triaging strategy for arthritis care in Alberta | 2013/07 - 2014/06 | DA Marshall | J Greenwood-Lee, G Wild, L Woodhouse |
| AIHS/CRIO | Alberta program in youth sport and recreational injury prevention | 2013 - 2018 | C Emery | DA Marshall, et al |
| CIHR Healthcare Renewal Policy Analysis | A post-policy implementation review of the Winnipeg Central Intake Service (WCIS): a single-entry model to manage referral and waiting times for hip and knee replacement | 2013/03 – 2014/02 | DA Marshall, E. Bohm | Z Damani, T Noseworthy, B DeMone, B Wright, J Holroyd-Leduc |
| CIHR Operating Grant | Developing an innovative evidence-based decision support tool to improve osteoarthritis care planning and health service management for diverse patients populations in Alberta, Saskatchewan and Manitoba | 2013/04 – 2016/03 | DA Marshall, S Vanderby | C Barnabe, M Carter, C Frank, L. Lix, D Mosher, T Noseworthy, C Peschken |
| CIHR Planning Grant | Developing system-level arthritis performance measures for AAC Framework | 2014/03 – 2015/02 | Arthritis Alliance of Canada | C Barber, D Lacaille, DA Marshall, D Mosher |
| CFI | An integrative approach for translating research to improve musculoskeletal health | 2013/01 - 2017/12 | S Boyd | DA Marshall, C Anglin, N Duncan, J Dunn, C Frank, M Fritzler, W Herzog, J Ronsky, N Shrive, R Walker |
| TAS | Creating an optimal model of care for the efficient delivery of appropriate and effective arthritis care | 2013/10 - 2014/09 | DA Marshall | C Frank, C Barnabe, S Barr, E Bohm, T Noseworthy, P Barton, L Woodhouse, W Maksymowych |

Appendix I continued
FUNDING

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|------------------------------------|--|-------------------|------------------------------|--|
| CIHR Operating Grant | Consequences of knee joint injury in youth sport: Implications for knee osteoarthritis and other health outcomes. | 2014/04 – 2014/03 | CA Emery | M Brussoni, P Doyle-Baker, A Ezzat, R Ferber, J Jaremko, J Kang, R Krawetz, DA Marshall , et al |
| CIHR Operating Grant | Towards better surgical outcomes through improved decision making about appropriateness for total knee arthroplasty in patients with knee osteoarthritis | 2014/04 – 2019/03 | G Hawker, DA Marshall | ER Bohm, MJ Dunbar, PD Faris, CA Jones, T Noseworthy, B Ravi, L Woodhouse |
| MSI Foundation | Rheumatoid arthritis management in Alberta's Aboriginal population | 2012 - 2014 | C Barnabe | |
| CIHR Operating Grant | The risk of pulmonary embolism and deep vein thrombosis in major rheumatic disorders | 2013/04 - 2015/03 | JA Avina-Zubieta | MM Abrahamowicz, H Choi , D Lacaille , LC Li |
| Savient Pharmaceuticals | Serum uric acid and risk of cardio-metabolic events and chronic kidney disease among patients with gout | 2013 - 2014 | H Choi | |
| NIH | Impact of cardiovascular and weight loss diets on uric acid and gout risk | 2013 – 2014 | H Choi | |
| Takeda Pharmaceuticals | Risk of recurrent gout attacks and determinants of gout management patterns in the US | 2011 - 2013 | Y Zhang | H Choi |
| CIHR Emerging Team Grant | The scleroderma patient-centered intervention network | 2012/02 – 2017/01 | B Thombs | C Marra + 30 others |
| Physiotherapy Foundation of Canada | Pre-operative strength training for people with femoroacetabular impingement | 2013 - 2014 | MA Hunt | |

Appendix I continued
FUNDING

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|---|--|-------------------|--------------------------|---|
| Natural Sciences and Engineering Research Council of Canada | Neuromuscular mechanisms governing knee joint biomechanics during normal gait | 2013 – 2018 | MA Hunt | |
| Arthritis Health Professions Association | The effect of dynamic balance training on balance and physical function in those with knee osteoarthritis | 2013 – 2014 | MA Hunt, J Takacs | SJ Garland, MG Carpenter |
| CIHR | ANSWER 2: A biologic decision aid for patients with rheumatoid arthritis | 2013/03 – 2014/02 | LC Li | D Lacaille, N Bansback, P Adam, A Townsend , CA Jones, D Yacyshyn, S Lineker |
| CIHR Planning Grant | Advance practice physiotherapy in Canada: A model for building a pan-Canadian research initiative to improve healthcare delivery | 2013/03 – 2014/02 | F Desmeules | A Aiken, B Bath, R Booth, JO Dyer, D Feldman, C Frank, L Hébert, D Kennedy, M Landry, LC Li , K London, S Roy, J Swinamer, L Woodhouse |
| CIHR Operating Grant | Candrive Prospective Older Driver Study | 2014/01 – 2017/03 | S Marshall | M Bedard, I Gelinias, G Naglie, M Porter, H Tuokko, B Vrkljan, S Gagnon, L Li , B Mazer, A Myers, M Rapoport, I Stiell, G Wells |
| Graphics, Animation & New Media | FitBit Pilot (NCE Collaborating Network Investigator fund) | 2013 – 2014 | LC Li | |
| CIHR | From face-to-face to cyber space: Managing arthritis in the digital age (Café Scientifique) | 2012/09 – 2013/08 | LC Li, P Sherwin | |
| AIHS | Moving research to practice: Development of quality indicators for hip and knee arthroplasty rehabilitation | 2013 – 2014 | CA Jones | MD Westby, LC Li, D Marshall |

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FUNDING

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|--|---|-------------------|---|--|
| CIHR | Post market drug safety and effectiveness: ankylosing spondylitis | 2013/03 – 2014/02 | S Bernatsky M Abrahamowicz | D Lacaille , E Rahma W Maksymowych, C Moura |
| CIHR | Administrative data in rheumatic disease research and surveillance – CanRad Network | 2013/03 – 2014/3 | D Lacaille , .L Lix A Avina-Zubieta S Bernatsky | C Peshken, C Barnabe , S Jean L Svenson |
| CIHR Operating Grant | Assessing the care for rheumatoid arthritis at a population level | 2013/10 – 2016/09 | D Lacaille | M. Abrahamowicz, A. Anis , N. Bansback , J. Esdaile |
| CIHR Operating Grant | Striking a balance: Health and employment outcomes related to role overload and role balance among people with arthritis | 2010/10 – 2013/09 | MAM Gignac | C Backman , DM Badley, D Beaton, D Lacaille |
| CIHR Operating Grant | Evaluation of the WiiFit to enhance walking in older adults with Lower Limb Amputation | 2013/10 – 2016/09 | WC Miller | L McLaren, IM Mitchell, MW Payne, P Cox, AB Death, JJ Eng, HC Finlayson, CH Goldsmith , B Iman, T Jarus |
| CIHR Operating Grant | Enhancing Participation In the Community by improving Wheelchair Skills (EPIC Wheels): A feasibility study | 2012/10 – 2014/09 | WC Miller | JJ Eng, E Giesbrecht, CH Goldsmith , IM Mitchell, RL Woodgate |
| CIHR Operating Grant | Wheelchair Self-Efficacy Enhanced training program to improve wheelchair Use in older adults: The WheelSeeU feasibility study | 2013/04 – 2015/03 | WC Miller | KL Best, JJ Eng, CH Goldsmith , F Routhier |
| Physiotherapy Foundation of Canada | Clinical and biological responses of people with neck pain being treated with manual therapy of varying duration and frequency: A pilot study | 2013-2014 | J Miller | MR Perrynowski, J MacDermid, AR Gross, DM Walton, CH Goldsmith |

Appendix I continued
FUNDING

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|----------------------------------|---|-------------------|--|--|
| CIHR Operating Grant | Neurodevelopmental disorders in children born to women with systemic lupus erythematosus | 2013/04 – 2015/09 | SR Bernatsky, E Vinet | AE Clarke , E Fombonne, L Joseph, CA Pineau, RW Platt |
| CIHR Planning Grant | COPD as a systemic disease: Mapping the clinical research agenda to improve patient and societal outcomes | 2013/03 – 2014/02 | M Sadatsafavi | A Avina-Zubieta , L Lynd, D Sin, W Leslie, V Schuckel, S Bryan, G Mancini, W Tan, J Fitzgerald, C Marra , S Virani |
| TAS | Pharmacist-initiated collaborative care for knee osteoarthritis: A pilot study | 2013/10 – 2014/09 | C Marra | J Esdaile , L Li, J Cibere, M De Vera |
| Genome Canada | Clinical implementation and outcomes evaluation of blood-based biomarkers for COPD management | 2013 – 2014 | C Marra | D Sin, R Ng |
| CIHR Emerging Team Grant | Developing a Canadian framework for evaluation and decision-making for expensive drugs for rare diseases through innovation, value, and priority setting. | 2012/02 – 2017/01 | L Lynd | S Bryan, L Clarke, T Clifford, D Coyle, J Friedman, Y Joly, B Jones, P Kelin, B Knoppers, E Lun, CA Marra et al |
| CIHR Operating Grant | Cancer risk: Advancing knowledge in systemic rheumatic disease | 2013/03 – 2014/02 | S Bernatsky, AE Clarke , WD Foulkes | J Lawrence |
| CIHR Team Grant | The Canadian Atherosclerosis Inflammation Research Initiative (CAIRI), A novel trans-disciplinary team approach for the evaluation of the immune risk phenotype as the underlying shared mechanism of accelerated cardiovascular pathology in chronic inflammatory diseases | 2013/03 – 2014/02 | CM Tsoukas | JP Antel, AE Clarke , M Friedrich, CA Piccirillo |
| CIHR Knowledge Translation Prize | Nomination of the Arthritis Research Centre of Canada (INZR) to the Knowledge Translation Prize | 2012/11 – 2013/10 | JM Esdaile | J Cibere , PR Fortin, D Lacaille, LC Li, DA Marshall |

Appendix I continued
FUNDING

| Salary Awards | | | | |
|-----------------------|---|-----------------------|-------------------------|--|
| Funding Source | Project Title | Funding Period | PI | Supervisors |
| CIHR Fellowship | The impact of arthritis medications during pregnancy on maternal and neonatal health outcomes. | 2011/09 – 2015/08 | M De Vera | Marra C |
| TAS | Young Investigator Operating Grant - The impact of arthritis medications during pregnancy on maternal and neonatal health | 2014/1 – 2016/12 | M De Vera | JA Avina-Zubieta, P Janssen, D Lacaille, C Marra, |
| TAS | Network Scholar Award | 2013/07 – 2015/07 | M De Vera | |
| CIHR | Postdoctoral Fellowship | 2011/09 – 2014/09 | M De Vera | |
| CIHR New Investigator | Early Rheumatoid Arthritis Help-Seeking Experience (ERAHSE) project | 2009/03 – 2014/02 | LC Li | |
| CRA/CIORA /TAS | Clinician Investigator Salary Award | 2013/07 – 2015/06 | C Barnabe | |
| BC Lupus Society | Scholar Award | 2010/07 – 2015/06 | JA Avina-Zubieta | |
| TAS | Investigator Award | 2013/09 - 2016/08 | J Cibere | |

Appendix I continued
FUNDING

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|---------------------------------|---|-----------------------|------------------------|-------------------------------|
| MSFHR | Career Clinical Scholar | 2012/07 – 2020/06 | M Hunt | |
| TRAINEE FUNDING | | | | |
| Funding Source | Project Title | Funding Period | PI | Supervisors |
| CIHR | Doctoral Research Award - Economic impact of spondyloarthropathies: Estimates from the DESIR cohort of patients with early, undifferentiated spondylarthropathy | 2012/05 – 2014/04 | S Harvard | A Anis, B Fautrel |
| Rx&D Health Research Foundation | Pharmaceutical Sciences Research Scholarship | 2013/09 – 2014/08 | N McCormick | A Avina |
| CIHR | Travel Award – Longitudinal analysis of direct medical costs for systemic sclerosis patients: A population-based study | 2014/01 – 2014/03 | N McCormick | A Avina |
| UBC | Andrew Nord Fellowship in Rheumatology | 2013/09 – 2014/08 | N McCormick | A Avina |
| CAN | Graduate Student Award | 2010 – 2013 | B Sharif | J Kopec, A Anis |
| CIHR | The impact of price-caps on the generic pharmaceutical industry and provincial drug plan costs in Canada | 2012 - 2014 | A Anis, C Marra | L Lynd, B Wilmer |
| AIHS | Post-doctoral Fellowship Award – Analysis of preventable infections in patients with systemic autoimmune rheumatic diseases (SARDs) | 2011/09 – 2014/08 | C Barber | DA Marshall, J Esdaile |

Appendix I continued
FUNDING

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|---------------------|---|-------------------|-------------------|--|
| CIHR Planning Grant | Developing cardiovascular quality indicators for rheumatoid arthritis | 2013/07 – 2014/06 | C Barber | DA Marshall, C Barnabe, J Esdaile |
| CIHR | Frederick Banting and Charles Best Canada Graduate Scholarships – Doctoral Award – Impact of osteoarthritis on developing comorbid conditions and mortality in British Columbia, Canada | 2011 – 2014 | M Rahman | J Kopec |
| CIHR Fellowship | Development of a protocol for the use of electromyography arrays in the assessment and treatment of neuromuscular impairment in those with knee osteoarthritis | 2014 01 – 2016 12 | G Hatfield | MA Hunt |
| CIHR Fellowship | Assessing the quality of rehabilitation for total joint arthroplasty along the continuum of care | 2012/10 – 2015/05 | MD Westby | CA Jones, LC Li |

AIHS - Alberta Innovates Health Solutions; AHPA - Arthritis Health Professions Association; BCSMRF – British Columbia Sports Medicine Research Foundation; CAN – Canadian Arthritis Network; CHSRF – Canadian Health Services Research Foundation; CIORA – Canadian Initiative for Outcomes in Rheumatoid Arthritis; CIHR – Canadian Institutes of Health Research; CRA - Canadian Rheumatology Association; CCO – Cancer Care Ontario; CHHM – Centre for Hip Health and Mobility; HSFC – Heart and Stroke Foundation of Canada; EULAR – European League Against Rheumatism; GSK – Glaxo Smith Kline Inc; MSFHR – Michael Smith Foundation for Health Research; MOHLTC – Ministry of Health and Long Term Care; NCI – National Cancer Institute; NIH – National Institutes of Health; NHMRC – National Health and Medical Research Council (Australia); NCE – Networks of Centres of Excellence; OICR – Ontario Institute for Cancer Research; TAS - The Arthritis Society; PFC - Physiotherapy Foundation of Canada; UBC – University of British Columbia

Appendix II

FULL PUBLICATIONS FROM JULY 1, 2013 TO JUNE 30, 2014

1. Akkineni R, Tapp S, Tosteson AN, Lee A, Miller KL, Tosteson AN, **Choi HK**, Zhu Y, Albert DA. Treatment of asymptomatic hyperuricemia and prevention of vascular disease: a decision analytic approach.. *J Rheumatol*. 2014 Apr;41(4):739-48.
2. Allaire SJ, **Backman CL**, Alheresh R, Baker NA. Ergonomic intervention for employed persons with rheumatic conditions. *Work*. 2013 Jan1;46(3):355-61.
3. Almousa S, Greidanus NV, Masri BA, Duncan CP, **Garbuz DS**. The natural history of inflammatory pseudotumors in asymptomatic patients after metal-on-metal hip arthroplasty. *Clin Orthop Relat Res*. 2013 Dec;471(12):3814-21.
4. Andrus BS, **Lacaille D**. Letter to the Editor re: 2013 ACC/AHA Guideline on the assessment of cardiovascular risk. *J Am Coll Card*. 2014 Jul 1;63(25 Pt A):2886.
5. **Aviña-Zubieta JA**, Abrahamowicz M, **Choi HK**, **Rahman MM**, Sylvestre MP, **Esdale JM**, **Lacaille D**. Immediate and past cumulative effects of oral glucocorticoids on the risk of acute myocardial infarction in rheumatoid arthritis. A population-based study. *Rheumatology* 2013 Jan;52(1):68-75.
6. Bacher A, Mittoo S, Hudson M, Tatibouet S, **Fortin PR**, the Canadian Scleroderma Research Group, Baron M. Systemic sclerosis in Canada's North American Native population: Assessment of Clinical and Serological Manifestations. *J Rheumatol* 2013; 40:7.
7. **Barber C**, **Lacaille D**, **Fortin PR**. A systematic review of validation studies of the use of administrative data to identify serious infections. *Arthritis Care Res (Hoboken)*. 2013 Aug;65(8):1343-57.
8. **Barnabe C**, Buie H, Kan M, Szabo E, Barr SG, Martin L, Boyd SK. Reproducible metacarpal joint space width measurements using 3D analysis of images acquired with high-resolution peripheral quantitative computed tomography. *Med Eng Phys*. 2013 Oct;34(10):1540-4.
9. **Barnabe C**, Homik J, Barr SG, Martin L, Maksymowych WP. The Impact of different remission definitions on identification of predictors of both point and sustained remission in rheumatoid arthritis. *J Rheumatol* 2014 Aug;41(8):1607-13.
10. **Barnabe C**, Thanh N, Ohinmaa A, Homik J, Barr SG, Martin L, Maksymowych WP. Effect of remission definition on cost savings estimates for rheumatoid arthritis patients treated with biologic therapies. *J Rheumatol* Aug;41(8):1600-6.

11. **Barnabe C**, Thanh NX, Ohinmaa A, Homik J, Barr SG, Martin L, Maksymowych WP. Healthcare service utilisation costs are reduced when rheumatoid arthritis patients achieve sustained remission. *Ann Rheum Dis*. 2013 Oct;72(10):1664-8.
12. **Barnabe C**, Xiong J, Pope JE, Boire G, Htichon C, Haraoui B, Carter TJ, Tin D, Keystone EC, Bykerk VP; Canadian early Arthritis CoHort Study Investigators. Factors associated with time to diagnosis in early rheumatoid arthritis. *Rheumatol Int*. 2014 Jan;34(1):85-92.
13. Bennell KL, Kyriakides M, Metcalf B, Egerton T, Wrigley TV, Hodges PW, **Hunt MA**, Roos EM, Forbes A, Ageberg E, Hinman RS. Neuromuscular versus quadriceps strengthening exercise in people with medial knee osteoarthritis and varus malalignment: A randomized controlled trial. *Arthritis Rheum*. 2014 Apr;66(4):950-9.
14. Bernatsky S, **Clarke AE**, Labrecque J, von Scheven E, Schanberg LE, Silverman ED, Brunner HI, Haines KA, Cron RQ, O'Neil KM, Oen K, Rosenberg Am, Duffy CM, Joseph L, Lee JL, Kale M, Turnbull EM, Ramsey-Goldman R. Cancer risk in childhood-onset systemic lupus. *Arthritis Res Ther*. 2013 Nov;15(6):R198.
15. Bernatsky S, Ramsey-Goldman R, Labrecque J, Joseph L, Boivin JF, Petri M, Zoma A, Manzi S, Urowitz MB, Gladman D, **Fortin PR**, Ginzler E, Yelin E, Bae SC, Wallace DJ, Edworthy S, Jacobsen S, Gordon C, Dooley MA, Peschken CA, Hanly JG, Alarcón GS, Nived O, Ruiz-Irastorza G, Isenberg D, Rahman A, Witte T, Aranow C, Kamen DL, Steinsson K, Askanase A, Barr S, Criswell LA, Sturfelt G, Patel NM, Sénécal JL, Zimmer M, Pope JE, Ensworth S, El-Gabalawy H, McCarthy T, Dreyer L, Sibley J, St Pierre Y, Clarke AE. Cancer risk in systemic lupus: An updated international multi-centre cohort study. *J Autoimmun*. 2013;42:130-5.
16. Bernatsky S, Ramsey-Goldman R, Joseph L, Boivin JF, Costenbader KH, Urowitz MB, Gladman DD, Fortin PR, Nived O, Petri MA, Jacobsen S, Manzi S, Ginzler EM, Isenberg D, Rahman A, Gordon C, Ruiz-Irastorza G, Yelin E, Bae SC, Wallace DJ, Peschken CA, Dooley MA, Edworthy SM, Aranow C, Kamen DL, Romero-Diaz J, Askanase A, Witte T, Barr SG, Criswell LA, Sturfelt GK, Blanco I, Feldman CH, Dreyer L, Patel NM, St Pierre Y, **Clarke AE**. Lymphoma risk in systemic lupus: Effects of disease activity versus treatment. *Ann Rheum Dis*. 2014 Jan;73(1):138-42.
17. Bourré-Tessier J, Peschken CA, Bernatsky S, Joseph L, **Clarke AE**, **Fortin PR**, Htichon C, Mittoo S, Smith CD, Zimmer M, Pope J, Tucker L, Hudson M, Arbillaga H, **Esdaille J**, Silverman E, Chédeville G, Huber AM, Belisle P; Canadian Network for Improved Outcomes in Systemic Lupus Erythematosus 1000 Canadian Faces of Lupus Investigators, Pineau CA. Association of smoking with cutaneous

manifestations in systemic lupus erythematosus. *Arthritis Care Res* 2013;65(8):1275-80.

18. Bourré-Tessier J, **Clarke AE**, Mikolaitis-Preuss RA, Kosinski M, Bernatsky S, Block JA, Jolly M. Cross-cultural validation of a disease-specific patient-reported outcome measure for systemic lupus erythematosus in Canada. *J Rheumatol* 2013 Aug;40(8):1327-33.
19. Bourre-Tessier J, Urowitz M, **Clarke AE**, Bernatsky S, Krantz MJ, Huynh T, Joseph L, Belisle P, Bae SC, Hanly JG, Wallace DJ, Gordon C, Isenberg D, Rahman A, Gladman DD, Fortin PR, Merrill JT, Romero-Diaz J, Sanchez-Guerrero J, Fessler B, Alarcon GS, Steinsson K, Bruce IN, Ginzler E, Dooley MA, Nived O, Sturfelt G, Kalunian K, Ramos-Casals M, Petri M, Zoma A, SLICC investigators, Pineau CA. Electrocardiographic findings in Systemic Lupus Erythematosus: data from an international inception cohort. *Arthritis Care Res* 2014 May 16. doi: 10.1002/acr.22370. [Epub ahead of print].
20. Broten L, **Aviña-Zubieta JA**, **Lacaille D**, Joseph L, Hanly JG, Lix L, O'Donnell S, **Barnabe C**, **Fortin PR**, Hudson M, Jean S, Peschken C, Edworthy SM, Svenson L, Pineau CA, **Clark AE**, Smith M, et al. Systemic autoimmune rheumatic disease prevalence in Canada: Updated analyses across seven provinces. *J Rheumatol* 2014 Apr;41(4):673-9.
21. Chan K, Dekis A, **Clarke AE**, Pineau CA, Vinet E, Nashi E, Bernatsky S. Brief Report: Hospitalizations in a clinical systemic lupus erythematosus cohort, 1999-2011. *J Autoimmune Dis* June 2014 53-57.
22. Chhina H, Bhole VM, **Goldsmith CH**, Hall W, Kaczorowski J, **Lacaille D**: Effectiveness of academic detailing to optimize medication prescribing behaviour of family physicians. *J Pharmacy Pharmaceut Sci* 2013;16(4):511-529.
23. **Choi HK**, Rho YH, Zhu Y, Soriano LC, **Aviña-Zubieta A**, Zhang Y. The risk of pulmonary embolism and deep vein thrombosis in rheumatoid arthritis: A UK population-based outpatient cohort study. *Ann Rheum Dis* 2013 Jul;72(7):1182-7.
24. **Choi HK**, **Burns LC**, Zhang Y, **Rai S**, Curhan G. Physical activity adiposity, and the risk of gout in women: the Nurses' Health Study. *Arthritis Rheum* 2013;65(10):S2661.
25. **Choi HK**, Zhang Y. Bariatric surgery as urate-lowering therapy in severe obesity. *Ann Rheum Dis*. 2014 May 1;73(5):791-3.
26. **Choi HK**, Nguyen US, Niu J, Danaei G, Zhang Y. Selection bias in rheumatic disease research. *Nat Rev Rheumatol*. 2014 Jul;10(7):403-12.

27. Clark RA, Pua Y, Bryant AL, **Hunt MA**. Validity of the Microsoft Kinect for providing lateral trunk lean feedback during gait retraining. *Gait Posture*. 2013 Sep;36(4):1064-6.
28. Cochrane CK, Takacs J, **Hunt MA**. Biomechanical mechanisms of toe-out gait performance in people with and without knee osteoarthritis. *Clin Biomech (Bristol, Avon)*. 2014 Jan;29(1):83-6.
29. Creaby MW, **Hunt MA**, Hinman RS, Bennel KL. Sagittal plane joint loading is related to knee flexion in osteoarthritic gait. *Clin Biomech (Bristol, Avon)* 2013 Oct;28(8):916-20.
30. Crema MD, **Cibere J, Sayre EC**, Roemer FW, Wong H, Thorne A, Singer J, **Esdale JM, Marra MD, Kopec JA**, Nicolaou S, Guermazi A. The relationship between subchondral sclerosis detected with MRI and cartilage loss in a cohort of subjects with knee pain: the knee osteoarthritis progression (KOAP) study. *Osteoarthritis Cartilage*. 2014 Apr;22(4):540-6.
31. Davis EM, Lynd LD, Grubisic M, **Kopec JA, Sayre EC, Cibere J, Esdaile JM, Marra CA**. Responsiveness of health state utility values in knee osteoarthritis. *J Rheumatol* 2013;40(12):2075-82.
32. Deved V, Jette N, Quan H, Tonelli M, Manns B, Soo A, **Barnabe C**, Hemmelgarn BR, Alberta Kidney Disease Network. Quality of care for First Nations and non-First Nations People with diabetes. *Clin J Am Soc Nephrol*. 2013 Jul;8(7):1188-94.
33. **De Vera MA**, Marcotte G, **Rai S**, Galo JS, Bhole V. Medication adherence in gout : A systematic review. *Arthritis Care Res (Hoboken)*. 2014 Apr 1. doi: 10.1002/acr.22336.
34. Dubreuil M, Rho YH, Man A, Zhu Y, Zhang Y, Love T, Ogdie A, Gelfand J, **Choi HK**. Diabetes incidence in psoriatic arthritis, psoriasis and rheumatoid arthritis: A UK population based cohort study. *Rheumatology (Oxford)*. 2014 Feb;53(2):346-52.
35. Dubreuil M, Chen C, Chaisson CE, Hunter DJ, **Choi HK**, Neogi T, Zhang Y. Increased risk of recurrent gout attacks during hospitalization. *Am J Med* 2013 Dec;126(12):1138-41.e1.
36. Dubreuil M, Zhu Y, Zhang Y, Seeger JD, Lu N, Rho YH, **Choi HK**. Allopurinol initiation and all-cause mortality in the general population. *Ann Rheum Dis*. 2014 Mar 24. doi: 10.1136/annrheumdis-2014-205269.

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38. **Ezzat A, Li LC**. Occupational Physical Loading Tasks and Knee Osteoarthritis: A Review of the Evidence. *Physiotherapy Canada*. 2014 Winter;66(1):91-107.
39. **Feehan L**, Buie H, **Li LC**, McKay H. A customized protocol to assess bone quality in the metacarpal head, metacarpal shaft and distal radius: A high resolution peripheral quantitative computed tomography precision study. *BMC Musculoskelet Disord*. 2013 Dec14:367.
40. Ford ES, **Choi HK**. Associations between concentrations of uric acid with concentrations of vitamin A and beta-carotene among adults in the United States. *Nutr Res*. 2013 Dec;33(12):995-1002.
41. Fyie K, Frank C, Noseworthy T, Christiansen T, **Marshall DA**. Evaluating the primary-to-specialist referral system for elective hip and knee arthroplasty. *J Eval clin Pract*. 2014 Feb;20(1):66-73.
42. Gianola SE, Gasparini, M, Agostini,M, Castellini G, Corbetta, D, Gozzer P, **Li LC**, Sirtori V, Taricco M, Tetzlaff JM, Turolla A, Moher D, Moja L. Survey of the reporting characteristics of systematic reviews in rehabilitation. *Physical Therapy*. 2013 93(11):1456-1466.
43. Giesbrecht EM, Miller WC, Eng JJ, Mitchell AM, Woodgate RL, **Goldsmith CH**. Feasibility of the Enhancing participation in the community by improving wheelchair skills (EPIC-Wheels) program: study protocol for a randomized controlled trial. *Trials*. 2013 Oct 24;14:350.
44. Gignac MAM, **Lacaille D**, Beaton DE, **Backman CL**, Cao X, Badley M. Striking a Balance: work-health-personal life conflict in women and men with arthritis and its association with work outcomes. *J Occup Rehabil* 2014 Sep;24(3):573-84.
45. Gianola S, Gasparini M, Agostini M, Castellini G, Corbetta D, Gozzer P, **Li LC**, Sirtori V, Taricco M, Tetzlaff JM, Turolla A, Moher D, Moja L. Survey of the reporting characteristics of systematic reviews in rehabilitation. *Phys Ther*. 2013 Nov;93(11):1456-66.
46. Gross AR, Peloso PMJ, Galway E, Navasero N, van Essen K, Graham N, **Goldsmith CH**, Gzeer W, Shi Q, Haines AT and COG: Physician delivered injection therapies for mechanical neck disorders: A systematic review update (non-oral, non-intravenous pharmacological interventions for neck pain). *Open Orthop J*. 2013, 7(Suppl 4: M13):562-581

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48. Hanly JG, Urowitz MB, O'Keefe AG, Gordon C, Bae SC, Sanchez-Guerrero J, Romero-Diaz J, **Clarke AE**, Bernatsky S, Wallace DJ, Ginzler EM, Isenberg DA, Rahman A, Merrill JT, Petri M, **Fortin PR**, Gladman DD et al. Headache in systemic lupus erythematosus: results from a prospective international inception cohort study. *Arthritis Rheum.* 2013 Nov;65(11):2887-97.
49. Heintzbergen S, Kulin NA, Ijzerman MJ, Steuten LMG, Werle J, Khong H, **Marshall DA**. Cost-utility of metal-on-metal hip resurfacing compared to conventional total hip arthroplasty in young active osteoarthritis patients. *Value Health* 2013 Sep-Oct;16(6):942-52.
50. **Hoens AM, Li LC**. The Knowledge Broker's "Fit" in the World of Knowledge Translation. *Physiother Can.* 2014 Summer;66(3):223-7.
51. Hoffman AS, Volk RJ, Saarimaki A, Stirling C, **Li LC**, Härter M, Kamath GR, Llewellyn-Thomas H. Delivering patient decision aids using the internet: Definitions, theories, current evidence and emerging research areas. *BMC Med Inform Decis Mak.* 13(Suppl 2):S13, DOI: 10.1186/1472-6947-13-S2-S13.
52. Hudson M, **Avina-Zubieta A, Lacaille D**, Bernatsky S, Lix L, Jean S. The validity of administrative data to identify hip fractures is high—a systematic review. *J Clin Epidemiol.* 2013 Mar;66(3):278-85.
53. Jaremko JL, Lambert RG, Zubier V, Weber U, Loeuille D, Roemer FW, **Cibere J**, Planta M, Gracey D, Conaghan P, Ostergaard M, Maksymowych WP. Methodologies for semiquantitative evaluation of hip osteoarthritis by magnetic resonance imaging: Approaches based on the whole organ and focused on active lesions. *J Rheumatol.* 2014 Feb;41(2):359-69.
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