



THE ARTHRITIS RESEARCH CANADA
BOARD MEETING – TUESDAY, SEPTEMBER 20, 2018
ANNUAL REPORT OF THE SCIENTIFIC DIRECTOR

Trainees

Siyi Zhu (Supervisor: **Linda Li**) completed a year at Arthritis Research Canada as a visiting international PhD student from the Sichuan University in Chengdu, China. His project was *'Evaluating the effectiveness of a remote physical activity counselling program for people with knee osteoarthritis'*.

Mohan Zhong (Stewart) (Supervisor: **Jacek Kopec**) started as a Master's level trainee in July 2017. Her project is *'Efficacy of commonly prescribed analgesics in the management of osteoarthritis'*.

Kelsey Chomistek is a new Master's trainee at Arthritis Research Canada Calgary. (Supervisor: **Cheryl Barnabe**). Her thesis project is *"Development of an adolescent patient education program for juvenile idiopathic arthritis: a pilot feasibility and acceptability study"*.

Ross Duncan is a new trainee doing a Master's in Pharmaceutical Sciences at UBC. (Supervisor: **Mark Harrison**). His project is *'Evaluating the impact of the addition of an MSP billing code to enable rheumatologists to bill for nurse care in the multidisciplinary care of people with complex rheumatic diseases.'*

Jenny Leese was awarded the inaugural Trainee Patient Engagement in Research award by the Arthritis Patient Advisory Board (APAB). APAB recognized Ms. Leese as "one of the new generation of scientists for whom patient inclusion in research is embedded in the research process and who has already made an outstanding contribution to patient involvement".

Alix St-Aubin (Supervisor: **Paul Fortin**) spent a day at Arthritis Research Canada in Richmond after the Canadian Rheumatology Association meeting discussing possible future collaboration with **Linda Li** and her team.

Elly Park is a new Postdoctoral Fellow (Supervisor: **Allyson Jones**). She will be researching obesity and osteoarthritis. She has received a fellowship from the Alberta Bone & Joint Health Institute/Mitacs of \$65,000 a year for two years.

Serena Chen (Supervisor: **Allyson Jones**) has successfully defended her Masters of Science in Epidemiology from the School of Public Health at the University of Alberta this spring.

Jasmin Ma (Supervisor: **Linda Li**) started as a new Post-doctoral Fellow in September. Her project is *“Resistance training in rheumatoid arthritis”*. Jasmin has already met with the Patient Advisory Board and included patient involvement in her project from the early planning stages.

Alyssa Howren (Co-Supervisors: **Mary De Vera & Antonio Avina**) has returned to Arthritis Research Canada as a PhD student. Her project is *“Mapping onset and treatment of mental health conditions in patients with inflammatory arthritis: population-based studies. (MATTERS)”*.

Darren Mazzei (Supervisor: **Deborah Marshall**) is a new PhD trainee in Calgary. He is joining the PhD program in Health Economics and will be evaluating *“The cost-effectiveness and budget impact of the GLA:D (Good Life with Arthritis) exercise and education program for patients with osteoarthritis”*.

André Luquini (Supervisor: **Diane Lacaille**) is a new PhD trainee in Experimental Medicine. His project has not been finalized but it will be connected with *“Making it Work”*.

Nevena Rebic (Supervisor: **Mary De Vera**) is a new Masters trainee. She obtained a BSc(Pharm) from UBC and is starting her MSc in Pharmaceutical Sciences. The working title for her project is *“Decision-making on medications during pregnancy among women with rheumatoid arthritis”*.

Rashedul Hoque (Supervisor: **Hui Xie**) is a new PhD trainee in the Faculty of Health Sciences at Simon Fraser University. Rashed’s project is *“Competing event survival analysis in arthritis studies”*.

Kai Zhao (Supervisor: **Hui Xie**) is a new Master’s trainee also based at Simon Fraser. His Master’s project is still to be determined.

Summer Students

Chance Park (Supervisor: **Linda Li**) has received a CIHR Summer Studentship Award for a second time. In 2017, he analyzed the pilot study data on a physical activity counselling program. The program used a new Fitbit-compatible app, FitViz, which was created through funding from the PRECISION team. Chance identified important issues (and potential solutions) regarding participant recruitments from the pilot, and presented the findings at the 2018 Canadian Rheumatology Association meeting. With his 2018 award, he analyzed the qualitative interview data from patients and physiotherapists from the pilot. The goal is to understand the experiences with the intervention from the two perspectives.

Kiran Dhiman, a Masters of Public Health student from the University of Saskatchewan completed a summer practicum at Arthritis Research Canada (Supervisor: **Diane Lacaille**). Her project was *“Adapting the existing Making it Work program made for those with inflammatory arthritis for use by people with osteoarthritis.”*

Kiera Lee-Pii (Supervisor: **Diane Lacaille**) completed a summer studentship conducting a research project entitled: *“Evaluating physical activity in people living with rheumatoid arthritis”*.

Ryan Lewinson (Supervisor: **Cheryl Barnabe**) was awarded a CIHR-CAPP summer Studentship Award of \$5,000 for his project *“Biomechanics in the pathogenesis of psoriatic arthritis”*.

TRAINEE SALARY AWARDS & SCIENTIFIC AWARDS

Five Arthritis Research Canada trainees were recipients of the 2017 Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarship for the American College of Rheumatology annual meeting in San Diego. The successful applicants were: **Nicole Tsao**, (\$1,700, Supervisor: **Mary De Vera**). **Natalie McCormick** (\$1,510, Supervisor: **Antonio Avina-Zubieta**).. **Clayon Hamilton** and **Graham MacDonald** (\$1,000 and \$1,345 respectively, both Supervised by **Linda Li**) and **Alix St-Aubin** (\$2,200, Supervisor: **Paul Fortin**). Mr. MacDonald and Ms. St-Aubin were selected to give oral presentations of their research at the meeting. Oral presentations are less common and hence more prestigious.

The Arthritis Alliance of Canada Research Awards were presented at their Annual Meeting in Vancouver on October 26, 2017. **Natalie McCormick** received the PhD award (\$750), as well as the Best Trainee Poster Award (\$200). Ms. McCormick is also the recipient of the UBC Faculty of Pharmaceutical Sciences Graduate Award (\$1,000). **Natalie** successfully defended her PhD at UBC in July and was awarded a postdoctoral award from the Canadian Institutes of Health Research (\$150,000 over 3 years) to work at Harvard Medical School (supervisor: **Hyon Choi**). Her project is titled *“Prospective, population-based studies of antimalarials and their impact on vision loss, quality of life, disease activity and mortality in patients with systemic lupus erythematosus”*.

Flora To-Miles (Supervisor: **Catherine Backman**) was recipient of the 2018 Arthritis Health Professions Association-Arthritis Society Grant Competition for her study *“The health promoting potential of social and creative activities: An exploratory study of adults with and without inflammatory arthritis.”* The \$5000 grant will contribute to Flora’s thesis project examining how social activities (doing things with or for others) and creative activities (making or designing projects) are associated with health outcomes.

Clayon Hamilton (Supervisor: **Linda Li**) was awarded the AHPA Best Trainee Abstract Award at the Canadian Rheumatology Association meeting in February. **Clayon** also received a \$60,000 Canadian Institutes of Health Research Fellowship Award for ongoing work on his project *“Developing and testing of the Patient Engagement In Research Scale (PEIRS)”*.

Nicole Tsao (Supervisor: **Mary De Vera**) received a Travel Award to present "*Maternal and neonatal outcomes in women with autoimmune disease using biologics in pregnancy: A systematic review and meta-analysis of observational studies*" at JCR 2018 in Tokyo Japan. **Nicole** was also awarded the Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarship for travel to present her abstract at the European Rheumatology Congress (EULAR) in Amsterdam in June.

In July **Nicole** successfully defended her PhD at UBC and received a \$180,000 CIHR Fellowship Award to complete a Post-Doctoral Fellowship at the Brigham and Women's Hospital (Boston) where she will continue her work on medications and pregnancy. Her project title is "*Safety and effectiveness of anti-diabetic drugs in pregestational diabetes*".

Three Arthritis Research Canada Trainees were awarded \$105,000 each over three years for the Canadian Institutes of Health Research Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award. The three recipients are: 1) **Alyssa Howren** (Co-Supervisors: **Mary De Vera** and **Antonio Avina**) who will begin her PhD as an Arthritis Research Canada Trainee in September for her project "*Mapping onset and treatment of mental health conditions in patients with inflammatory arthritis: Population-based studies (MATTERS)*"; 2) **Elena Lopatina** (Supervisor: **Deborah Marshall**) for her project "*Evaluation of an alternative model of care for stable rheumatoid arthritis patients: collaborative nurse-led shared care model*"; 3) **Jesse Charlton** (Supervisor: **Michael Hunt**) for his project "*Real world gait analysis and modification of people with knee osteoarthritis using a novel instrumented shoe*". The three were also featured in an article in the September Arthritis Research Canada Newsletter on up and coming researchers.

Sharan Rai (Co-Supervisors: **Hyon Choi** & **Qi Sun**) received a Canadian Institutes of Health Research Doctoral Foreign Study Award of \$105,000 over three years for her project "*Bidirectional association of gout and diabetes and the development of a dietary urate index*".

Logan Trenaman (PhD Supervisor: **Nick Bansback**) was awarded a Canadian Institutes of Health Research Postdoctoral Fellowship award of \$150,000 over three years. He will complete his Postdoc at the University of California at Davis and his project title is: "*Evaluating the impact of a financial incentive for shared decision-making on lung cancer screening rates in the US Medicare population*".

Dylan Kobsar (Supervisor: **Michael Hunt**) received a Canadian Institutes of Health Research Postdoctoral Fellowship award of \$120,000 over three years. His project is titled "*Predicting response to biomechanical treatment in people with knee osteoarthritis*".

Masoud Pourahmat (Supervisors: **Linda Li** and **Mary De Vera**) was awarded the Arthritis Research Canada/Lilly Early Rheumatology Researcher Scholarship for travel to present his abstract at the European Rheumatology Congress (EULAR) in Amsterdam. **Masoud** was also the recipient of a CIHR Travel Award of \$1,500 for the EULAR meeting.

Alyssa Howren (Supervisor: **Mary De Vera**) has received a \$105,000 Canadian Institutes of Health Research Doctoral Research Award over three years. Her project is *“Mapping onset and treatment of mental health conditions in patients with inflammatory arthritis: population-based studies. (MATTERS)”*.

Jasmin Ma (Supervisor: **Linda Li**) has been awarded a three-year \$124,500 Research Trainee Award from the Michael Smith Foundation for Health Research for her project *“Resistance training in rheumatoid arthritis”*. Jasmin has also been awarded a Post-doctoral Fellowship from The Arthritis Society of \$40,000/year for three years.

Graham MacDonald (Supervisor: **Linda Li**) has been awarded a \$63,000 three year PhD award from The Arthritis Society. His project is *“Beyond training: understanding patient/public experience of power dynamics as engaged partners in arthritis research”*.

FACULTY

Glen Hazlewood was named one of City Live Calgary’s Top 40 under 40 for 2017 for his “groundbreaking research in the field of rheumatic arthritis advocating for treatment guidelines that take into account patient preferences along with medical need”.

Mary De Vera was awarded the Arthritis Alliance of Canada Early Career Research Award (\$750). **Dr. De Vera** was also profiled as a Woman Leader in Science, Technology, Engineering and Mathematics by the Government of Canada in their 2018 budget, released on February 27th. As the Canada Research Chair in Medication Adherence, Utilization and Outcomes Dr. De Vera was recognized as someone whose research will help improve the health and quality of life of millions of Canadians who rely on medications to manage their chronic conditions while helping to reduce costs across the health care system.

Marie Westby was awarded the Arthritis Alliance of Canada Knowledge Translation (KT) Practice Award (\$750).

Cheryle Barnabe has been accepted to the Royal Society of Canada College of New Scholars. The Members of the College are Canadians who, at an early stage in their career, have demonstrated a high level of achievement. The criteria for election is excellence, and membership is for seven years. **Cheryl** was also awarded a University of Calgary Award for Peak Scholars in Entrepreneurship, Innovation and Knowledge Engagement.

Dr. Paul Fortin was appointed a Senior Scientist of Arthrite-recherche Canada/Arthritis Research Canada.

Diane Lacaille has been appointed as a member of the Canadian Institutes of Health Research Institute of Musculoskeletal Health and Arthritis Advisory Board effective September 1, 2018. The term is three years, renewable for an additional three years.

SALARY AWARDS & SCIENTIFIC AWARDS

Antonio Avina received a two year \$115,000 Canadian Rheumatology Association/Canadian Initiative for Outcomes in Rheumatology Care Award for his project “Proof of concept study of an EMR reminder intervention to optimize the primary and secondary prevention of comorbidities in people with inflammatory arthritis”. Co-Investigators include **Diane Lacaille, Claire Barber, John Esdaile, Linda Li, Hui Xie, Cheryl Koehn, Kam Shojanja**, Jason Kur and others.

Antonio Avina is also a Co-Investigator on a five-year \$772,650 Canadian Institutes of Health Research grant entitled “*Air pollution and systemic autoimmune rheumatic diseases*”. Principal Investigators are Sasha Bernatsky and Audrey Smargiassi, and Michal Abrahamowicz is a Co-Investigator. The project will evaluate air pollution’s role in causing systemic autoimmune rheumatic diseases and in making the outcomes worse.

Jolanda Cibere was awarded a three year Canadian Institutes of Health Research Grant of \$531,675 for her project “*Population-based longitudinal cohort study of femoroacetabular impingement of the hip using magnetic resonance imaging outcomes*”. Co-investigators include **John Esdaile, Jacek Kopec, Linda Li** and others.

Linda Li and **John Esdaile** are Co-Principal Investigators on another successful Canadian Rheumatology Association/Canadian Initiative for Outcomes in Rheumatology Care Award entitled “*Power to the patients: reshaping knee osteoarthritis diagnosis and secondary prevention with e-health*”. Co-investigators on this project are **Jolanda Cibere, Hui Xie, Cheryl Koehn**, Gillian Hawker and Andres Fajardo as the Technology Partner.

Linda Li is a Co-PI on a \$16,000,000 Strategy for Patient Oriented Research (SPOR) Grant (\$5M Canadian Institutes of Health Research & \$11M matching funds) entitled “*SPOR Evidence Alliance Network (SPOR Guidelines and Systematic Reviews)*”. Dr. Andrea Tricco of St. Michael’s Hospital is lead on the operating grant along with eleven other ‘Co-Leads’ from centres across Canada. **Cheryl Barnabe** is one of more than 100 Co-Investigators on this grant. Linda Li will co-lead a BC project with patients to study patient engagement within the network and Cheryl Barnabe will help support the involvement of Indigenous patients and networks in the project.

Linda Li received a second Canadian Institutes of Health Research award of \$200,000 over two years for her project “*An app-based intervention to empower self-management for people with rheumatoid arthritis*”. **Diane Lacaille** is a Co-Principal Investigator on the grant and Co-Applicants include **Catherine Backman, John Esdaile, Lynne Feehan, Hui Xie** and others. **Cheryl Koehn** and **Kelly English** are patient partners on the project.

Additionally, Linda Li received a \$10,000 Michael Smith Foundation for Health Research Implementation Science Team Grant for the project “*Implementing an evidence-based exercise program to reduce falls in community-dwelling seniors*”. The \$10,000 gives them 6 months to complete pilot work and write the full application which

could lead to a further \$500,000 over 3 years to work on the implementation project. Co-Investigators include Teresa Liu-Ambrose as well as **Hui Xie, Cheryl Koehn**, and Linda's trainee **Jasmine Ma**.

Jacek Kopec was been awarded \$200,000 over two years from the Canadian Institutes for Health Research for his project "*Development of a new life-expectancy and quality of life prediction model*". His co-applicants are **Maureen and Milan Ilich Chair Hui Xie, Harold Robinson Chair Linda Li** as well as **Lynne Feehan** and **John Esdaile**.

Kam Shojan received a \$75,000 planning grant from the Vancouver Foundation to hold meetings to develop a project entitled "*Early Arthritis Triage Strategy (EATS)*". Strategy. EATS is a provincial solution to getting the right arthritis patient to the right health care practitioner as early as possible.

Hui Xie has been awarded a five year Natural Sciences and Engineering Research Council (NSERC) Discovery Grant of \$75,000 for his project "*Statistical methods for controlling bias in the analysis of rich data*". This is the first NSERC grant to be awarded to an Arthritis Research Canada/Arthrite-recherche Canada Researcher.

Claire Barber was awarded The Arthritis Society Young Investigator Operating Grant of \$298,108 for a two year project entitled "*Enhancing the use of rheumatology electronic medical records to evaluate and optimize care and management of arthritis*." **Diane Lacaille** is a Co-Principal Investigator along with Jessica Widdifield, Diane Mosher, Carter Thorne and others.

Anne Clarke is a Co-Investigator on a \$19,874 Canadian Institutes of Health Research Planning Grant entitled "*Developing a research agenda to address the economic impacts of SLE: A planning meeting of key stakeholders to identify key intervention opportunities and establish a viable implementation and evaluation plan*".

Glen Hazlewood is a Co-Principal investigator with Vivian Bykerk on a Canadian Institutes of Health Research grant entitled "*A pragmatic registry-based randomized trial of drug tapering in rheumatoid arthritis*". They were awarded \$638,776 over four years. Co-investigators include **Nick Bansback, Claire Barber, Deborah Marshall**, Janet Pope, Carter Thorne and several others.

Glen Hazlewood is also a Co-Primary Investigator along with Sasha Bernatsky on a five year \$342,340 Canadian Institutes of Health Research Project Grant entitled "*Hydroxychloroquine in systemic lupus*". Co-Investigators include **Anne Clarke, Linda Li** and **Paul Fortin**.

Deborah Marshall is a Co-Investigator on a \$10 million grant from the Ontario Genomics/Genome Canada, LSARP Genomics & Precision Health Competition entitled "*UCAN-CURE precision decisions for childhood arthritis*". The team will develop the first genomics-based, low-cost biomarker blood test to rapidly identify the best treatment for each child, thus completely transforming the treatment of childhood arthritis.

Paul Fortin is a Collaborator on two two-year Canadian Rheumatology Association Canadian Initiative for Outcomes in Rheumatology (CIORA) grants. The first \$120,000 grant is *'Aspirin patterns of use and adherence for prevention of preeclampsia in systemic lupus erythematosus pregnancies'*, and the second \$120,000 grant is *'Bringing patients and therapies together sooner: building clinical trial capacity in myositis to facilitate early access to treatments and improved outcomes'*

Dr. Fortin was also awarded \$115,000 Canadian Rheumatology Association/Canadian Initiative for Outcomes in Rheumatology Care Award as Principal Applicant for his project *"MyArthritisGuide for rheumatoid arthritis will improve patient's activation towards self-care"*.

Clinician Investigators

In August 2018 a new Category of Arthritis Research Canada Investigator was created. The Clinician Investigator position "requires that an individual be a health care professional with research training, a curriculum vitae consistent with this training, and a focus on arthritis" and that they want to join Team/Equipe Arthritis Research Canada/Arthrite-recherche Canada. In September 2018 the first two Clinician Investigators were appointed.

Dr. Shahin Jamal is a rheumatologist practicing in Vancouver and is a Clinical Assistant Professor of Medicine and Program Director for Adult Rheumatology at the University of British Columbia. After completing her rheumatology training in 2004 she completed a Master's Degree in Clinical Epidemiology at the University of Toronto. Her thesis work focused on the delays in treatment for patients with rheumatoid arthritis and barriers to care. Dr Jamal is studying a new group of anticancer drugs called check point inhibitors. In some people they are causing arthritis as a side-effect.

Dr. Mollie Carruthers is a rheumatologist practicing in Vancouver and is a Clinical Associate Professor of Medicine at the University of British Columbia, Division of Rheumatology. She completed medical school at Tulane University and rheumatology training at Harvard Medical School. Dr. Carruthers is an international authority on a new group of disorders called IgG4 related diseases.

Signed:



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

Appendix I

FUNDING FROM JULY 1, 2017 TO JUNE 30, 2018

AIHS - Alberta Innovates Health Solutions; CAN - Canadian Arthritis Network; CIORA - Canadian Initiative for Outcomes in Rheumatoid Arthritis; CIHR - Canadian Institutes of Health Research; CRA - Canadian Rheumatology Association; CHHM - Centre for Hip Health and Mobility; HSFC - Heart and Stroke Foundation of Canada; EULAR - European League Against Rheumatism; MSFHR - Michael Smith Foundation for Health Research; NCI - National Cancer Institute; NIH - National Institutes of Health; NCE - Networks of Centres of Excellence; TAS - The Arthritis Society;; UBC - University of British Columbia; SPARTAN - Spondyloarthritis research and treatment network ; SRCC - Spondyloarthritis Research Consortium of Canada

SCIENTIST FUNDING - Operating Grants

Funding Agency	Title	PI(s)	Co-I(s)	Annual Amount	Total Awarded	Start Date	End Date
CIHR	The pricing of generic drugs and its impact on market structure, competitiveness and security of supply	Anis A	P Grootendorst, A Hollis, C Ingram, L Lynd, W Zhang	\$80,325	\$240,975	Apr-17	Mar-20
CIHR/SPOR Support Units/BC SUPPORT	Support for People and Patient-Oriented Research and Trials (SUPPORT) - CHEOS	Anis A		\$329,384	\$1,646,920	Nov-16	Oct-21
CIORA	Proof of concept study of an EMR reminder intervention to optimize the primary and secondary prevention of comorbidities in people with inflammatory arthritis	Avina-Zubieta A	C Barber, J Esdaile, LC Li, O Tseng, H Xie, M Dawes, B Hobson, C Koehn, J Kur, L Nasmith, K Shojania, S Singh	\$47,500	\$95,000	Jul-18	Jun-18
10K from SPARTAN and 10K from SRCC	Validation of administrative billing codes for the diagnosis of axial spondyloarthritis	Avina-Zubieta A, Chan J	A So	\$20,000	\$20,000	May-18	Apr-19
CIORA	Bringing patients and therapies together sooner: building clinical trial capacity in myositis to facilitate early access to treatments and improved outcomes	Hudson M	Avina-Zubieta A, Fortin P	\$60,000	\$120,000	Oct-17	Sep-19
CIHR	Improving access to medicines in Canada and abroad	Law M	N Bansback, L Goldsmith, M Harrison, AM Holbrook, S Majumdar, M Mamdani, S Wong	\$89,214	\$624,498	Jul-16	Jun-23

CIHR	Design for better health: user-centred design and evaluation of interactive media for health education, communication and decision-making	Witteaman H	J Ancker, P Archambault, N Bansback , MD Beaulieu, J Bender, J Bettinger, C Chambers, D Chan, H Colquhoun, S Desroches, et al	\$8,510.40	\$544,538	Jul-16	Jun-21
CIHR	Development of a patient-centered balanced scorecard approach to improve quality of care in rheumatoid arthritis patients in Canada	Barber C, Lacaille D	C Barnabe, G Hazlewood, J Homik, L Li, P MacMullan, DA Marshall, D Mosher, J Rankin, K Then, K English, K Tsui	\$91,800	\$183,600	Apr-18	Mar-18
CIORA	Testing of system-level performance measures for inflammatory arthritis	Barber C	D Lacaille, C Barnabe, D Marshall, S Bensler, G Hazlewood, D Mosher, V Bykerk, J Burt, C Thorne, V Ahluwalia, L Denning, N Shiff, S Katz, J Homik	\$55,000	\$110,000	Jan-15	Dec-17
CIHR	Arthritis Care for Indigenous Populations'	Barnabe C	D Marshall, S Bernatsky, L Lis, W Maksymowych, V Bykerk, G Hazlewood, J Jull, L Crowshoe et al	\$115,000	\$575,000	Jul-15	Jun-20
CIHR	Alberta Indigenous Mentorship in Health Innovation Network (AIM-HI Network)	Barnabe C, Healy B, Tailfeathers E, Crowshoe L, Currie C, Fellner k, Henry R, Voyageur C	R Weasel Fat, J Baker, B Bastien, S Chisan, A Greenshaw, R Henderson, A Kennedy, S Kutz, A Loyola-Sanchez, L ManyGuns, T Oosterbroek, M Rock, W Shotyk	\$200,000	\$1,000,000	Apr-17	Mar-22

CIORA	An initiative to address Indigenous patient and community educational needs in rheumatic diseases	Barnabe C, Loyola-Sanchez A	T Bear Chief, V Bear Chief, C Brough, S Calf Robe, L Crane, L Crowshoe, R Greenslade, R Henderson, T Linkert, B Little Chief, H Melting Tallow, S Samanani, T Scalplock, C Sorensen, T White	\$57,500	\$115,000	Jul-18	Jun-18
McCaig Institute for Bone and Joint Health	Inflammation and bone damage in rheumatoid arthritis	Manske S	C Barnabe , P Salat	\$30,000	\$30,000	Apr-17	Mar-18
CIHR	Brain dysfunction in chronic inflammatory disease: reciprocal effects of CNS and periphery crosstalk	Swain M	C Barnabe , B Goodyear, S Hirota, G Kaplan, G Macqueen, E Mayer, R Myers, Q Pittman, K Sharkey	\$8,364.20	\$335,646	Jul-14	Jun-19
NIH	Impact of cardiovascular and weight loss diets on uric acid and gout risk	Choi H		\$448,141	\$1,792,564	Jul-13	Jun-17
Rheumatology Research Foundation Innovative Research Award	Effect of the DASH diet on serum uric acid in gout patients	Choi H		\$249,750	\$499,500	Jul-17	Jun-16
CIHR	Workshop on early knee osteoarthritis: novel biomarkers, diagnostics, therapeutics and clinical cohorts for early detection and intervention	Kapoor M	F Beier, J Chahal, J Cibere , P Cram, R Gandhi, I Jurisca, R Krawetz, J Pelletier, P Perruccio, J Rockel, S Viswanathan, G Zhai	\$9,916	\$9,916	Oct-16	Sep-17

The Arthritis Society	Open MRI for assessing joint biomechanics – applications for osteoarthritis	Wilson DR	J Cibere, M Hunt	\$120,000	\$360,000	Apr-15	Mar-18
CIHR	Development and validation of a new method for measuring cartilage load using upright open Magnetic Resonance Imaging (MRI)	Wilson D	J Cibere	\$118,500	\$474,000	Jul-16	Jun-20
CIORA	The Economic Challenges of SLE: Measuring and Mitigating the Impact	Clarke AE	Elliot S, Farewell V, Hanly J, Urowitz M	\$55,900	\$111,800	Oct-15	Sep-17
Systemic Lupus International Collaborating Clinics	Quantifying the Risk and Economic Burden of Steroid-Related Damage in SLE: The SLICC Inception Cohort Study	Clark AE		\$58,000	\$174,000	Jan-14	Dec-17
Calgary Clinical Research Fund: Pre-submission Grant-University of Calgary	Non-pharmacological interventions for enhancing the working life of people with Systemic Lupus Erythematosus (SLE) : A knowledge synthesis project	Clarke AE		\$10,000	\$10,000	Nov-16	Oct-17
Alliance for Lupus Research	Calgary Site PI & Lupus Clinical Investigators Network (LuCIN)	Clarke AE, Barr S		\$80,000	\$160,000	Aug-16	open ended
CIHR	The Lupus prEGnAnCY (LEGACY) Cohort	Vinet E, Buyon J, Clowse M, Laskin C, Salmon J	A Clarke , S Bernatsky, E Chakravarty, P Fortin , P Hanly, C Peschken, M Urowitz	\$100,000	\$100,000	Mar-17	Feb-18

Canadian Initiatives for Outcomes in Rheumatology Care (CIORA)	Collaborative care model supported by eHealth technologies on health outcomes and medication adherence among patients with gout	De Vera M	K Shojania, C Marra, H Choi, JA Avina-Zubieta, A Kydd, M Baker	\$40,000	\$120,000	Jul-14	Jan-17
CIHR	Perinatal Use of Immunosuppressant Therapies and Risk of Infections in Mothers and Babies	De Vera M	G Hanley, L Lynd, N Tsao	\$74,443	\$74,443	Mar-17	Feb-18
CIHR	Evidence to action for Canadian and global mobile health (mHealth) communication to promote patient engagement in care: a rigorous implementation science approach	Lester R	V Cook, M De Vera , J Fitzgerald, N Ford, J Johnston, A Kazi, M Murray, L Mwai, A Patel, M Schechter, S Skinner, P Spittal, M VanDerKop	\$80,593	\$402,966	Jul-15	Jun-20
CIHR	PRECISION: Preventing Complications from Inflammatory Skin, Joint and Bowel Conditions	Esdale J	C Goldsmith, M De Vera, J Dutz, D Lacaille, LC Li	\$484,538	\$2,422,690	Jul-14	Jun-19
CIHR	Dissemination of the Lupus Interactive Navigator - Measuring its uptake and impact on global health and self-care.	Fortin P	D DaCosta, V Haroun	\$100,000	\$200,000	Sep-16	Aug-18
CIORA	MyArthritisGuide for rheumatoid arthritis will improve patient's activation towards self-care	Fortin P	D DaCosta, M Rochon	\$57,500	\$115,000	Jul-18	Jun-18
CIHR - Foundation Scheme	Platelets and their microparticles: versatile players of inflammation	Boilard, E	P Fortin	\$286,979	\$1,434,894	Sep-14	Aug-19
CIHR - Operating Grant	Role of novel microparticle subtypes derived by platelets in SLE	Boilard, E	P Fortin	\$151,525	\$757,624	Mar-14	Feb-19

CIHR- Operating Grant	Role of autotoxin bound to platelet-derived microparticles to development of vascular damage in	Bourgoin S	E Boilard, P Fortin	\$157,781	\$788,904	Mar-15	Feb-20
CIHR	Preventing adverse tissue reactions in total hip replacement, from mechanisms to new implant designs	Masri B, Wang R	M Cox, C Duncan, D Garbuz, N Greidanus, T Ng, D Wang	\$14,154	\$200,000	Apr-16	Mar-19
CIHR	A population-based analysis of multi-disciplinary rheumatology nursing care for people with complex rheumatic diseases.	Harrison M	K Shojania , M Law, K McGrail, M De Vera, JA Avina-Zubieta, R Sawatzky, C Koehn, J Kur, H Davidson	\$90,465.67	\$271,397	Jul-16	Jun-19
CIHR	Bridging the Evidence Gap: Understanding Patient and Physician Choices for Treatment in Early Rheumatoid Arthritis	Hazlewood G	C Barnabe, D Marshall, L Li, N Bansback	\$86,000	\$258,000	Oct-15	Sep-18
CIORA	Incorporating patients' preferences into Canadian Rheumatology Association treatment recommendations for rheumatoid arthritis	Hazlewood G		\$46,970	\$46,970	Oct-16	Sep-17
CIHR	Establishing the foundation for a patient-centered pragmatic registry-randomized trial of treatment tapering in rheumatoid arthritis	Hazlewood G, D Marshall	N Bansback, C Barber, C Barnabe, A Loyola-Sanchez	\$99,724	\$99,724	May-17	Apr-18
CIHR	A pragmatic registry-based randomized trial of drug tapering in rheumatoid arthritis	Hazlewood G, Bykerk V	N Bansback , R Deardon, L Proulx, G. Tomlinson, C Barber , E Keystone, D Richards, P Tugwell, S Bartlett, D Marshall , O Schier, G Boire, J Pope, C Thorne	\$159,694	\$638,776	Apr-18	Mar-21

CIHR	Hydroxychloroquine in systemic lupus	Hazlewood G, Bernatsky S	Abrahamowicz M, Bartlett S, Clarke A, Fortin P, Hanly J, Li LC, Peschken C, Vinet E,	\$68,468	\$342,340	Apr-18	Mar-18
CIHR	Innovating healthcare delivery for sustainable management of the inflammatory bowel diseases	Kaplan G, A Fernandes, B O'Neill	G Hazlewood, E Benchimol, F Clement, S Coward, K McBrien	\$100,000	\$100,000	Apr-17	Mar-18
Natural Sciences and Engineering Research Council of Canada	Neuromuscular mechanisms governing knee joint biomechanics during normal gait	Hunt M		\$29,000	\$145,000	Jul-13	Jun-18
Physiotherapy Foundation of Canada	The immediate effects of running on tibiofemoral cartilage integrity in people with and without knee osteoarthritis	Hunt MA, Esculier JF	D Wilson, A Rauscher, J Taunton	\$4,000	\$4,000	Jul-17	Jun-18
Canadian Academy of Sports and Exercise Medicine	The immediate effects of running on tibiofemoral cartilage integrity in people with and without knee osteoarthritis	Hunt MA, Esculier JF	D Wilson, A Rauscher, J Taunton	\$10,000	\$10,000	Jul-17	Jun-18
CIHR	Shoe insoles designed to target foot and knee symptoms in people with knee osteoarthritis: A randomized controlled study	Hunt MA		\$100,000	\$100,000	Mar-18	Feb-19
CIHR	GaitNet Osteoarthritis - Canada: Engaging researchers, clinicians and stakeholders to mobilize gait biomechanics research aimed at improving knee osteoarthritis management.	Hunt MA, Astephen- Wilson, J, Birmingham T, Kozey CL, Maly M, Rutherford D	R Moyer	\$10,000	\$10,000	May-17	Apr-18

CIHR	Canadian MSK Rehab Research Network	Astephen Wilson JL, Birmingham T, Lyddiatt A, Macdermid J, Robinovitch S, Roy JS	M Ashe, D Beaton, L Beaupre, M Begon, L Bouyer, L Carlesso, M Choiniere, J Cote, N Dahan-Oliel, K Deluzio, F Desmeules, C Dionne, CA Emery, F Feldman, MA Hunt, DA Marshall et al	\$14,204.67	\$366,667	Sep-16	Aug-19
Covenant Health (Alberta)	Coaching for older adults with OA for community health (COACH Study)	Jones CA	L Beaupre, LC Li , H Hanson, S Kumar	\$88,286	\$176,572	Jul-16	Jun-18
CIHR	Getting Older adults OUTdoors (GO-OUT): A randomized controlled trial of a community-based outdoor walking program	Barclay R, Chilibeck P, Salbach N	D Brooks, T Grant, CA Jones , L Lix, N Mayo, J Ripat, C Van Ineved, S Webber	\$178,101	\$178,101	Apr 17	Mar 18
CIHR	A comparison of strategies to reduce the burden of osteoarthritis: A population-based microsimulation study	Kopec J A	J Esdaile, J Cibere, L. Li , H Wong, N Bansback, E Sayre	\$72,313	\$216,939	Mar-15	Feb-18
CIHR	Development of a new life expectancy and quality of life prediction model	Kopec J	J Esdaile, LC Li, L Feehan, H Xie	\$100,000	\$200,000	Oct-17	Sep-19
CIHR	Development and validation of Canadian health literacy measurement tool for chronic	Fitzgerald M, Kopec JA	I Rootman, SD Aaron, C Bergeron, LP Boulet, J Bourbeau, R Goldstein, S	\$160,601	\$803,004	Jul-15	Jun-20
CIHR	Interventions for undiagnosed and early-stage COPD: Informing policy, practice, and research through an Evaluation Platform in COPD (EPIC)	Sadatsafavi M	S Aaron, J Bourbeau, F MacPherson, P Brasher, S Bryan, JM Fitzgerald, J Kopec et al	\$58,694	\$176,083	Jul-15	Jun-18

TAS	Case Managers to Improve Management of Arthritis and Associated Comorbidities with First Nations Communities : A Proof of Concept Study	Lacaille D	H Brown, LC Li, C Barnabe , L FJ Crowshoe, C Goldsmith	\$119,667	\$359,000	Jul-14	Jun-17
CIORA	Hip fracture in patients with rheumatoid arthritis: incidence, complications and health services used	Lacaille D, Jones CA	H Xie , P Guy	\$54,872	\$54,872	Oct-16	Sep-17
CIORA	Understanding the barriers to self-management support for underserved populations living with arthritis and co-morbidities and developing patient-derived tools for healthcare policy and practice	Lacaille D, Mills S	S Koehn, GP Flores, N Clark, C Koehn , M Fong, A Louie	\$58,450	\$116,900	Oct-16	Sep-18
CIHR	Canadian network for advanced interdisciplinary methods for prospective studies of drug safety and effectiveness	Abrahamowicz M	D Lacaille , A Berard, S Bernatsky, C Hohl, L Levesque, A Levy, Y Moride, L Pilote, L Bessette, L Blais, G Boire, C Bombardier, D Buckeridge, S Cadarette, R Capek, P Fortin et al.	\$250,000	\$1,250,000	Sep-14	Aug-19
CIHR	New statistical methods for cohort studies of adverse effects of medications	Abrahamowicz M	Bernatsky S, Blais L, Brophy J, Buckeridge D, Bérard A, Capek R, De Vera M , Dixon W, Durand M, Fortin P , Klein M, Lacaille D , Moodie E, Moura C, Pilote L	\$55,724.60	\$278,623	Jul-16	Jun-21

CIORA	Supporting Patient care with Electronic Resource (SuPER): Efficacy of an online decision aid for patients considering biologic therapy for rheumatoid arthritis	Li LC, Lacaille D	N Bansback, C Goldsmith, E Yacyshyn, CA Jones, P Adam, A Hoens, D Sholter, H Choi	\$25,565	\$51,130	Oct-15	Sep-17
The Arthritis Society	Empowering active self-management of arthritis: Raising the bar with OPERAS (an On-demand Program to Empower Active Self-management)	Li LC	T Liu-Ambrose, C Backman, C Shaw, J Esdaile, K Miller, R Petrella, L Feehan, C Koehn, C Goldsmith, P Adam	\$120,000	\$360,000	Oct-16	Sep-19
CIHR	Patient engagement with designing total knee arthroplasty intervention strategies: continuing a patient-oriented research agenda in total knee arthroplasty	Li LC, D Brown, A Garg, Goldsmith L, M Muldoon, Bryan S	D Brown, S Hejazi, K Juck, D Langford, M Muldoon, E Cameron, R Sawatzky	\$25,000	\$25,000	Mar-17	Feb-18
CIHR	Listening to voices not often heard: An exploration of research needs of South Asian knee replacement patients	Li LC, Bryan S, Divine HA, Goldsmith L, McAllister P	S Bains, J Chande, R Gandhi, K Juck, D Moorthy, I Poireslamim Iraj,	\$25,000	\$25,000	Mar-17	Feb-18
CIHR	An app-based intervention to empower self-management for people with rheumatoid arthritis	Li LC, Lacaille D	C Backman, JM Esdaile, LM Feehan, H Xie, K Miller, C Shaw Patient Partners: C Koehn, K English Collaborator: P Adam Tech Partner: Tactica Interactive	\$100,000	\$200,000	Sep-17	Aug-19

CIHR	SPOR Evidence Alliance	Tricco A, Straus S, Abou-Setta AM, Barker K, Clement F, Clifford TJ, Colquhoun H, Curran J, Godfrey C, Isaranuwatcha i W, LeBlanc A, Li LC , Moffitt P, Moher D,	Barnabe C , Graham I, Ivers N, Klassen T, Legare F, Mitton C, Morin S, Scott S, Sibely K, Snelgrove-Clarke E, Squires J, plus > 100 investigators	\$999,378	\$4,996,890	Jul-17	Jun-22
CIORA	Power to the Patients: Reshaping Knee Osteoarthritis Diagnosis and Secondary Prevention with E-Health	Li LC, Esdaile J	J Cibere , G Hawker, H Xie , C Koehn , A Fajardo	\$57,500	\$115,000	Jul-18	Jun-18
CIHR	Physical Activity for Precision Health: A Multi-disciplinary Research Planning Collaboration	Li LC , Liu-Ambrose T, Puterman E	J Adams, K Allen, CL Backman , C Carlsten, S Cox, MA De Vera , L Galea, D Gromala, J Leese et al	\$10,000	\$10,000	May-18	Apr-18
CIHR	Transforming the practices of KT: Embedding Gender	Straus S, Moore J	A Chambers, L Giangregorio, A Giguere, I Graham, J Hamid, J Holroyd Leduc, C Kelly, LC Li , J Presseau, P Rochom et al	\$150,000	\$450,000	May-17	Mar-20
The Arthritis Society	Helping adolescents with juvenile arthritis and their parents to make informed and valued-based decisions about pain relief modalities: development of a novel decision support intervention	Toupin-April K	LC Li , J Stinson, P Tugwell, C Duffy, A Huber, P Fortin , I Gaboury, J S Cohen, L Brosseau	\$95,942.67	\$287,828	Apr-15	Mar-18

CIHR	Towards better surgical outcomes through improved decision making about appropriateness for total knee arthroplasty in patients with knee osteoarthritis	Marshall DA, Hawker G	E Bohm, M Dunbar, P Faris, A Jones, T Noseworthy, B Ravi, L Woodhouse	\$208,848	\$1,044,241	Apr-14	Mar-19
CIHR	Building partnerships to improve care of early knee osteoarthritis patients: Co-developing a risk management tool	Marshall DA, Cibere J, Teare S	B Sharif, J Kopec, S, Miller, D Campbell-Scherer, P Fearis, L Green, K Mrklas, T Wasylak	\$100,000	\$200,000	Jun-16	May-18
CIORA	Measuring geographic variation in access to care for rheumatoid arthritis patients and related outcomes: A patient-centred approach	Marshall DA, Barber CE	S Bertazzon, A Patel, D Mosher, J Homik, S Katz, M Nasr	\$59,000	\$118,000	Aug-16	Jul-18
Alberta Innovates; APHI Development Grant	Alberta Precision Health Initiative for Arthritis and Complex Immune Diseases	Marshall DA	Muruve D, Mosher DP, Barber CE, Benselar S, Twilt M, Kubes P, Boyd S, Scott B, Fritzler M, Wiebe S, Faris P, Dean S, Tsuyuki R, Scott-Douglas N, Kathol B, Miller J, Teare S	\$212,667	\$319,000	Jul-17	Dec-18
CIHR	UCAN CAN-DU: Canada-Netherlands Personalized Medicine Network in Childhood Arthritis and Rheumatic Disease	Benseler S, Swart J, Wulffraat N, Yeung R	C Bombardier, J Cafazzo, N Eijkelkamp, A Goldenberg, J Guzman, M Ijzerman, DA Marshall et al	\$8,553.40	\$1,023,753	Feb-17	Jan-22
Canadian Foundation for Innovation	An integrative approach for translating research to improve musculoskeletal health	Boyd S	DA Marshall, C Aglin, N Duncan, C Frank, M Fritzler, W Herzog et al	\$1,184,750	\$4,739,000	Jan-13	Dec-17
CIHR	Alberta program in youth sport and recreational injury prevention	Emery C	DA Marshall et al	\$500,000	\$2,500,000	Apr-13	Mar-18

The Vancouver Foundation	Early Arthritis Triage Strategy.	Shojania K		\$75,000	\$75,000	Apr-18	Mar-19
Natural Sciences & Engineering Research Council (NSERC)	Statistical Methods for bias controlling in the analysis of rich data	Xie, H		\$15,000.00	\$75,000	Apr-18	Mar-23

SCIENTIST FUNDING - Salary Grants

Peer Review

Funding Agency	Title	Faculty	Start/End Date	Annual Amount	Total Awarded
MSFHR	Career Investigator Award - Reducing the burden and gaps in care for patients with systemic autoimmune rheumatic diseases (ReGaIN SARDs)	Avina A	Jul 14 - Jun 19	\$90,000	\$450,000
CIHR	New Investigator Award - Arthritis care for Indigenous populations	Barnabe C	Jul 14 - Jul 19	\$60,000	\$300,000
CIHR	New Investigator Award - Can patient-centred care improve outcomes and save costs?	Bansback N	Jul 14 - Jul 19	\$60,000	\$300,000
MSFHR	Career Investigator award - Pharmacoepidemiologic and pharmaceutical outcomes research to improve medication use, adherence, and outcomes in patients with arthritis	De Vera M	Jul 14 - Jun 19	\$90,000	\$450,000
CIHR	Canada Research Chair in Medication Adherence, Utilization, and Outcomes (Scientist)	De Vera M	Apr 17 - Mar 22	\$100,000	\$500,000
MSFHR	Scholar Award - Incentivizing the delivery of sustainable care of chronic diseases in Canada: case studies in musculoskeletal disease	Harrison M	Jul 17 - Jun 22	\$90,000	\$450,000

CIHR	New Investigator Salary Award - Bridging the gap between research evidence and patient-centered treatment approaches for chronic immune-mediated diseases	Hazlewood G	Jul 16 - Jun 21	\$60,000	\$300,000
TAS	New Investigator Salary Award - Impacts of integrating the patients' voice into the process of treatment selection for rheumatoid arthritis	Hazlewood G	Aug 16 - Jul 19	\$60,000	\$180,000
MSFHR	Career Clinical Scholar	Hunt M	Jul-12 - Jul-20	\$79,375	\$635,000
CIHR	New Investigator Award - Non-invasive treatments to improve disease symptoms and cartilage health for knee osteoarthritis	Hunt M	Jul-14 - Jul-19	\$60,000	\$300,000
MSFHR	Career Investigator Award	Li L	Sep-11 - Aug-19	\$79,375	\$635,000
Canada Research Chair	Canada Research Chair in Patient-Oriented Knowledge Translation	Li L	Jan-14 - Dec-19	\$100,000	\$500,000
Government of Canada	Canada Research Chair in Systemic Autoimmune Rheumatic Diseases	Fortin P	Jul-12 - Jun-19	\$200,000	\$1,400,000
Government of Canada	Canada Research Chair in Health Services and Systems Research (renewal)	Marshall D	Mar-13 - Feb-18	\$100,000	\$500,000
UofC	Arthur J.E. Child Chair in Rheumatology Outcomes Research	Marshall D	Jul-12 - Jun-17	\$75,000	\$750,000
Non Peer Review					
BC Lupus Society	Scholar Award	Avina A	Jul-10 - Jun-18	\$50,000	\$350,000
UBC	Mary Pack Chair	Lacaille D	Sep-11 -	\$164,759	\$823,799
UBC	Harold Robinson-Arthritis Society Chair in Rehabilitation Sciences	Li L	Jul-11 -	\$94,333	\$283,000
SFU	Maureen and Milan Illich Chair in Statistics and Information Sciences for Arthritis and Musculoskeletal Disease	Xie H	Sep-15 - Aug-20	\$172,000	\$4,000,000

TRAINEE AWARDS						
Funding Agency	Title	Trainee	Supervisor	Start/End Date	Annual Amount	Total Awarded
CIHR	Postdoctoral Fellowship - The effects of running on knee cartilage measures in people with and without knee osteoarthritis	Esculier JF	M Hunt	Jul 16 - Jun 19	\$55,000	\$165,000
MSFHR	Postdoctoral Fellowship Award - Development and validation of the Patient Engagement In Research Scale (PEIRS)	Hamilton C	L Li	Jul 16 - Jun 19	\$41,500	\$124,500
Arthritis Health Professions Association (AHPA)/The Arthritis Society Research Grant	The PEIRS Study: Development of a measure of meaningful patient engagement	Hamilton C	L Li	Feb 17 - Jan 18	\$5,000	\$5,000
CIHR	Using e-health to support the self-management of musculoskeletal diseases: the patient perspective - Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award	Leese J	L Li	Jul 15 - Jun 18	\$35,000	\$105,000
CIHR	Frederick Banting and Charles Best Canada Graduate Scholarships - Doctoral Award - Sustainability in arthritis management programs for Indigenous populations of Canada and Mexico'	Loyola-Sanchez A	C Barnabe	Feb 16 - Jan 18	\$70,000	\$140,000

CIHR	CIHR Allied Health Professionals Fellowship award -Safety of biologics use during pregnancy: a population-based study of women and infants.	Tsao N	M De Vera	May 17 - Apr 19	\$50,000	\$100,000
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Appendix II

PUBLICATIONS – July 2017 – June 2018

1. Abrahamowicz M, **Esdaile JM**, Ramsey-Goldman R, Simon LS, Strand V, Lipsky PE. Development and validation of a novel evidence-based Lupus Multivariable Outcome Score for clinical trials. *Arthritis Rheumatol*. 2018 Sep;70(9):1450-1458.
2. Amlani A, **Hazlewood GS**, Hamilton L, Satoh M, Fritzler MJ. Autoantibodies to the survival of motor neuron complex in a patient with necrotizing autoimmune myopathy. *Rheumatology (Oxford)*. 2018 Jan 1;57(1):199-200.
3. **Aviña-Zubieta JA**, Jansz M, **Sayre EC**, **Choi HK**. The risk of deep venous thrombosis and pulmonary embolism in primary Sjögren syndrome: a general population-based study. *J Rheumatol*. August 2017, 44 (8) 1184-1189.
4. **Aviña-Zubieta JA**, Mai A, **Amiri N**, **Dehghan N**, **Tan JA**, **Sayre EC**, **Choi HK**. Risk of myocardial infarction and stroke in patients with granulomatosis with polyangiitis (Wegener's): a population-based study. *Arthritis Rheumatol*. 2016 Nov;68(11):2752-2759.
5. **Bansback N**, Fu E, Sun H, Guh D, **Zhang W**, **Lacaille D**, Milbers K, **Anis AH**, **Aviña-Zubieta JA**. Do biologic therapies for rheumatoid arthritis offset treatment-related resource utilization and cost? A review of the literature and an instrumental variable analysis. *Curr Rheumatol Rep*. 2017 Sep;19(9):54.
6. **Barber CEH**, Nasr M, **Barnabe C**, Badley EM, **Lacaille D**, Pope J, Cividino A, Yacyshyn E, Baillie C, Mosher D, Thomson JG, Charnock C, McGowan C, Thorne C, Zimmer M, Brophy J, Ruban T, Ahluwalia V, McDougall R, **Marshall DA**. Planning for the rheumatologist workforce: factors associated with work hours and volumes. *J Clin Rheum* 2017. *J Clin Rheumatol*. 2018 May 25. doi: 10.1097/RHU.0000000000000803. [Epub ahead of print].
7. **Barber CEH**, Schieir O, **Lacaille D**, **Marshall DA**, **Barnabe C**, **Hazlewood G**, Nadeau L, Thorne JC, Ahluwalia V, Bartlett SJ, Boire G, Haraoui B, Hitchon C, Keystone E, Tin D, Pope JE, Denning L, Bykerk VP, CATCH Investigators. High adherence to system-level performance measures for rheumatoid arthritis in a national early arthritis cohort over eight years of follow-up. *Arthritis Care Res* 2018 Jun; 70(6): 842–850.
8. **Barber CEH**, Mosher DP, Ahluwalia V, Zimmer M, **Marshall DA**, Choquette D, **Lacaille D**, Bombardier C, Lyddiatt A, Chandran V, Khodyakov D, Dao E, **Barnabe C**; for the RACCD Working Group. Development of a Canadian core clinical dataset to support high-quality care for Canadian patients with rheumatoid arthritis. *J Rheumatol*. 2017 Dec;44(12):1813-1822.
9. **Barber CEH**, Thorne JC, Ahluwalia V, Burt J, **Lacaille D**, **Marshall D**, **Hazlewood G**, Mosher D, Denning L, Szamko I, Chin R, Hamilton S, Benseler S, Twilt M, Schiff N, Bykerk V, Homik J, **Barnabe C**. Feasibility of measurement and adherence to system performance measures for rheumatoid arthritis in 5 models of care. *J Rheumatol* 2018. 2018 Jun 15. doi: 10.1002/acr.23620. [Epub ahead of print].

10. **Barber MRW, Clarke AE.** Socioeconomic consequences of systemic lupus erythematosus. *Curr Opin Rheumatol.* 2017 Sep;29(5):480-85. \
11. **Barber MRW,** Hanly JG, Su L, Urowitz MB, Pierre YS, Romero-Diaz J, Gordon C, Bae SC, Bernatsky S, Wallace DJ, Isenberg DA, Rahman A, Ginzler EM, Petri M, Bruce IN, **Fortin PR,** Gladman DD, Sanchez-Guerrero J, Ramsey-Goldman R, Khamashta MA, Aranow C, Mackay M, Alarcón GS, Manzi S, Nived O, Jönsen A, Zoma AA, van Vollenhoven RF, Ramos-Casals M, Ruiz-Irastorza G, Sam Lim S, Kalunian KC, Inanc M, Kamen DL, Peschken CA, Jacobsen S, Askanase A, Theriault C, Farewell V, **Clarke AE.** Economic evaluation of lupus nephritis in the Systemic Lupus International Collaborating Clinics inception cohort using a multistate model approach. *Arthritis Care Res (Hoboken).* 2018 Sep;70(9):1294-1302.
12. **Barnabe C,** Crane L, White T, Hemmelgarn B, Kaplan GG, Martin L, Maksymowych W. Patient reported outcomes, resource use, and social participation of rheumatoid arthritis patients treated with biologics in Alberta: experience of Indigenous and Non-Indigenous patients. *J Rheumatol.* 2018 Jun;45(6):760-765.
13. **Barnabe C,** Zheng Y, Crane L, White T, Hemmelgarn B, Kaplan G, Martin L, Maksymowych WP. Effectiveness, complications and costs of rheumatoid arthritis treatment with biologics in Alberta: experience of Indigenous and Non-Indigenous patients. 2018 Jun 1. pii: jrheum.170779. doi: 10.3899/jrheum.170779. [Epub ahead of print].
14. Belot M, **Hoens AM,** Kennedy C, **Li LC.** Does every patient after cervical spine trauma need an x-ray? Description of the process undertaken for a knowledge translation project to support evidence-informed practice for physiotherapists. *Physiotherapy Canada.* 69(4):280-289, 2017.
15. Bernatsky S, **Clarke AE,** Niaki OZ, Labrecque J, Schanberg LE, Silverman ED, Hayward K, Imundo L, Brunner HI, Haines KA, Cron RQ, Oen K, Wagner-Weiner L, Rosenberg AM, O'Neil KM, Duffy CM, von Scheven E, Joseph L, Lee JL, Ramsey-Goldman R. Malignancy in pediatric-onset systemic lupus erythematosus. *J Rheumatol.* 2017 Oct;44(10):1484-1486.
16. Bernatsky S, Ramsey-Goldman R, Petri M, Urowitz MB, Gladman DD, **Fortin PR,** Yelin EH, Ginzler E, Hanly JG, Peschken C, Gordon C, Nived O, Aranow C, Bae SC, Isenberg D, Rahman A, Hansen JE, St Pierre Y, **Clarke AE.** Smoking is the most significant modifiable lung cancer risk factor in systemic lupus erythematosus. *J Rheumatol.* 2018;45(3):393-396.
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20. Bursill D, Taylor WJ, Terkeltaub R, Kuwabara M, Merriman TR, Grainger R, Pineda C, Louthrenoo W, Edwards NL, Andrés M, Vargas-Santos AB, Roddy E, Pascart T, Lin CT, Perez-Ruiz F, Tedeschi SK, Kim SC, Harrold LR, McCarthy G, Kumar N, **Choi HK**, Hershfield MS, Czegley C, Choi SJ, Dalbeth N et al. Gout, Hyperuricemia and Crystal-Associated Disease Network (G-CAN) consensus statement regarding labels and definitions for disease elements in gout. *Arthritis Care Res (Hoboken)*. 2018 May 25. doi: 10.1002/acr.23607. [Epub ahead of print]
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Appendix II

ABSTRACTS - July 2017 – June 2018

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