



THE ARTHRITIS RESEARCH CANADA
BOARD MEETING – THURSDAY, SEPTEMBER 17, 2015
ANNUAL 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 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**) was awarded a Lupus Canada Scholarship award to pursue her Master's degree. Ms. Rai also received a BC Lupus Society Research Travel Award to attend the 2015 Lupus Congress to be held in Vienna. Finally, Ms. Rai was awarded a Consumer Activity Grant from The Arthritis Society. Ms. Rai is using the grant to create a patient advisory council to support research into improving medication adherence.

Arun Agha, Jimmy Guo and **Erin Carruthers** were accepted by UBC Medical School in September 2014.

Bao Chao Tran (Supervisor: **Linda Li**) started in September as a PhD trainee. Ms. Tran's project is on the *'Use of decision coaching by arthritis-trained physiotherapists in arthritis care'*.

Jenny Leese (Supervisors: **Linda Li, Catherine Backman** and **Anne Townsend**) also started in September as a PhD trainee. Ms. Leese is studying *'The ethical issues on using social networks to support patient self-management'*.

Cam Clayton (Supervisor: **Linda Li**) received funding from the Canadian Institutes of Health Research to pursue a Master's degree at ARC. He is conducting *'A pilot study to test the feasibility and effectiveness of using the Fitbit and online physiotherapy counselling to increase physical activity in people with knee osteoarthritis'*.

Dmitry Vishniakov joined ARC as a new PhD Trainee, (supervisor: **Antonio Aviña**). His project will be on the *"Effect of antirheumatic medications on venous thromboembolism in patients with major rheumatic diseases"*.

Pavan Mehat joined ARC as a new MSc Trainee, (supervisor: **Mary De Vera**). His thesis project title is "*Pharmaceutical outcomes research to better understand medication non-adherence in patients with systemic lupus erythematosus*".

Trainee highlights at the 2015 CRA Meeting:

Two ARC Trainees had their abstracts accepted for podium presentations and they received awards at the Canadian Rheumatology Association (CRA) Annual Scientific Meeting in February 2015.

Claire Barber (supervisors: **John Esdaile** and **Deborah Marshall**) received the Canadian Rheumatology Association 'Best Research Presented as an Abstract by a Rheumatology Resident Award' for her Abstract Podium Presentation titled: "*Developing system-level performance measures for evaluation of models of care for inflammatory arthritis*".

Glen Hazelwood (supervisor: **Deborah Marshall**) was awarded the Canadian Rheumatology Association 'Best Research Presented as an Abstract by Young Faculty - Clinical Research Category' Award for his paper "*Treatment preferences of patients with early rheumatoid arthritis: a discrete-choice experiment*".

Tristan Kerr won the **ARC Sponsored** Best Abstract for Research by an Undergraduate Student award for his paper entitled "*The risk of growth retardation and obesity in children with juvenile idiopathic arthritis (JIA) treated with contemporary treatments: results from the ReACCh-OUT Cohort*".

Pavan Mehat (Supervisor: **Mary De Vera**) was awarded a \$17,500 one year Frederick Banting and Charles Best Canada Graduate Scholarship for his Master's thesis project entitled "*Pharmaceutical outcomes research to better understand medication non-adherence in patients with systemic lupus erythematosus*". Mr. Mehat was also awarded First Place prize in the M.Sc. Competition at the University of British Columbia Pharmaceutical Sciences Research Day. His winning presentation was entitled "*INFORMED Study: A work in Progress*".

Jenny Leese (Supervisor: **Linda Li**) was awarded a three year doctoral fellowship award from the Canadian Institutes of Health Research. The title of her project is "*Using e-health to support the self-management of musculoskeletal diseases: The patient perspective*". Ms. Leese has also received a travel award from the Michael Smith Foundation for Health Research to attend the Knowledge Translation Canada Summer Institute.

Natalie McCormick (Supervisors: **Antonio Aviña**, **Carlo Marra**, **Jacek Kopec**) was awarded the inaugural Dwivedi-Mitchell Graduate Award for the best scientific publication in Pharmaceutical Sciences by the Faculty of Graduate Studies at UBC.

Vanessa Barbosa (Supervisor: **Diane Lacaille**) was awarded a three year CIHR Doctoral Research Award. Her project is entitled *“Braiding the knowledge: A case study examining the health policy implications of implementing the Case Manager project with a First Nations community”*.

2015 ARC/UCSF Scientific Meeting:

The third **Arthritis Research Centre of Canada/University of California at San Francisco Research Meeting** took place on September 4 & 5, 2014 at ARC Richmond. Sixteen trainees (13 from ARC Richmond, 1 from ARC Calgary and 2 from UCSF), the highest number of trainees ever, presented their research at the highly successful meeting. In addition, presentations were given by four ARC scientists and six from UCSF. Although the focus is trainees, the meeting is also an opportunity to learn what others are doing with a chance to chat on topics of mutual interest. In keeping with our goal to engage in Social Media the hashtag #ARCUCSF was created and was widely used by attendees to ‘share’ the meeting experience. The plan is to continue these meetings with UCSF hosting in 2016 in San Francisco. The University of Oregon is joining the program and will host in 2018.

2015 ARC SUMMER STUDENTS

Summer students are always fun to have at ARC. They are potential scientists. The fortunate ones may become ARC scientists.

ARC Vancouver

Jashn Sidhu, an undergraduate student in Kinesiology, received a UBC Summer Studentship award to study systemic lupus erythematosus (Supervisor: **Antonio Aviña**). Her project is entitled *“Long-term health resource utilization and total economic burden following diagnosis of systemic autoimmune rheumatic diseases: a population-based study”*.

Augusto Estrada, (Supervisors: **Mary de Vera, John Esdaile**), a trained pharmacist and second year UBC medical student, received a Canadian Rheumatology Association-Roche Summer Research Salary Award. His project is *“Quality indicator adherence using data retrieved from electronic medical records (EMR) in gout”*.

Katherine McGuire, (Supervisors: **Diane Lacaille, Antonio Aviña**), an undergraduate sciences student at UBC, was a summer student at ARC. Her project is entitled: *“Is the risk of chronic obstructive pulmonary disease increased in people with rheumatoid arthritis? A population-based study”*.

Garrett Hughes (Supervisor: **Hyon Choi**), a second year kinesiology student at SFU, was a summer student at ARC working with **Sharan Rai**. His project was *‘applying a novel imaging modality (dual energy computed tomography) to determine the presence and volume of gout crystal deposits in gout patients’*.

Jimmy Guo (Supervisor: **Jolanda Cibere**), a second year medical student at UBC, was a summer research student '*evaluating the health of normal appearing joint cartilage in femoroacetabular impingement which is thought to be a precursor of hip osteoarthritis*'.

ARC Calgary

Sujay Nagaraj, (Supervisor: **Cheryl Barnabe**), an undergraduate in life sciences, received an Alberta Innovates-Health Solutions Summer Studentship to work on '*new more sensitive ways to detect bone and joint damage in rheumatoid arthritis using a new generation CT machine*'.

FACULTY

In July 2014 UBC 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.

In September 2014 the Board of Directors of ARC voted unanimously to appoint **Deborah Marshall** a Senior Scientist at ARC. In promoting Dr. Marshall to Senior Scientist the Board recognized her commitment to the success of ARC through her work in health economics and modeling the impact of health systems, as well as her mentoring of young scientists to improve and expand arthritis research in Canada.

After spending a month as a 'visiting researcher' at ARC Richmond in the summer of 2014, **Allyson Jones**, a Professor at the University of Alberta, Department of Physical Therapy was granted affiliate faculty status at ARC effective February 2015. Dr. Jones is the first affiliate faculty member not located at one of the four ARC Universities. Dr. Jones returned to ARC Richmond for a month in July 2015 for further collaboration with ARC PI's.

RECOGNITIONS

In October 2014 **Arthritis Research Canada** was awarded the Canadian Institutes of Health Research prestigious 'Partnership Award' which includes a financial award of \$25,000. ARC was chosen on the basis of their partnership with **Arthritis Consumer Experts (ACE)** and Shopper's Drug Mart/Pharmaprix for their work on the Shoppers Drug Mart Arthritis Screening Tool.

Linda Li was awarded the Arthritis Patient Advisory Board Patient Inclusion Award for 2014. The award was presented by APAB at the ROAR conference on Nov. 22, 2014.

On January 29, 2015, **Antonio Aviña-Zubieta** and **Mary De Vera** were among 32 scientists to be honoured by the Michael Smith Foundation for Health Research as recipients of 2014 Scholar Awards. The honourees were described as “individuals who are among the best in their respective fields and who represent a bright future for health research in BC”.

Paul Fortin was awarded the Jeffrey Shiroky Award at the Laurentian Conference of Rheumatology on May 8, 2015. The award is presented annually in recognition of a significant contribution to research in the field of inflammatory arthritis and related conditions.

GRANTS

July 2014 – June 2015

On September 9, 2014 BC Health Minister, The Honourable Terry Lake attended a special ceremony at ARC to announce \$3 million in funding to ARC from the province to further research in prevention, diagnosis and treatment to improve the lives of British Columbians living with arthritis. The event was also attended by Richmond MLA and Minister of International Trade, The Honourable Teresa Wat, who acted as emcee and Richmond MLA Linda Reid. The event was widely reported in the media.

Five of the 11 2014 research grants awarded by the Canadian Rheumatology Association went 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 Canadian Rheumatology Association 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 Canadian Rheumatology Association 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 Shojania, 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 Canadian Rheumatology Association 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 Rheumatology Association award for her project “*Supporting Patient care with Electronic Resource (SuPER): Efficacy of an online decision aid for patients considering biologic therapy for rheumatoid arthritis*”. Co-Investigators on the projects include **Antonio Aviña, John Esdaile, Charlie Goldsmith, Diane Lacaille, Allyson Jones**, and **Alison Hoens**.

Linda Li 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.

On the second TAS award **Linda Li** is Principal Investigator along with Co-Investigators **Lynne Feehan** and **Charlie Goldsmith**. The award is entitled *“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**.

Glen Hazlewood (Supervisor: **Deborah Marshall**) was also awarded a Canadian Institutes of Health Research grant for for \$99,744 sponsored by the Drug Safety and Effectiveness Network (DSEN) and the Strategy for Patient-Oriented Research (SPOR) entitled *“Bayesian models for synthesizing randomized controlled trials and patients’ preferences for treatment options in early rheumatoid arthritis and Crohn’s disease”*. Gilaad Kaplan is Co-Principal Investigator and **Deborah Marshall,** Claire Bombardier and George Tomlinson are Co-Investigators.

Diane Lacaille and **Paul Fortin** were also Co-Investigators along with Sasha Bernatsky, Anick Berard and Corrine Hohl on a Canadian Institutes of Health Research Team grant entitled *“Canadian network for advanced interdisciplinary methods for prospective studies of drug safety and effectiveness”*. The Principal Investigator on this grant is Dr. Michal Abrahamowicz of McGill University, a long term ARC collaborator and statistical guru.

Charlie Goldsmith is a collaborator on a Canadian Institutes of Health Research CAN-AIM DSEN Team grant entitled *“MAGIC Collaborating Centre. (Methods and Applications Group for Indirect Comparisons)”*. Principal Investigators on this grant are Brian Hutton, David Moher, Sharon Straus, Andrea Tricco and George Wells.

Antonio Aviña-Zubieta and **Kam Shojan** are Co-Investigators on a \$50,000 grant from The Vasculitis Foundation (USA) titled *“Immune regulation by IL-6 in giant cell arteritis”*. The Principal Investigator is Jonathan Choy from Simon Fraser University.

Aslam Anis is the Principal Investigator on a one year grant awarded by the Spondyloarthritis Research Consortium of Canada. Co-Investigators include **Nick Bansback** and Dr. Anis’ Trainee **Stephanie Harvard** as well as Bruno Fautrel (Paris). The title of the grant is *“Restrictions on access to anti-TNF agents among spondyloarthritis patients: Which international criteria are most cost-effective?”*

Charlie Goldsmith is a Co-Investigator on two recent grants awarded by Worksafe BC and Fraser Health.

Charlie Goldsmith and **Lynn Feehan** are Co-Investigators on a grant from the Vancouver Coastal Health Research Challenge in conjunction with the Mary Pack Arthritis Program, titled *“Do inflammatory arthritis patients receiving group music therapy*

improve pain compared to music listening over 6 weeks using a randomised control trial?"

For the fifth year running ARC received a grant from the Gaming Branch of the Ministry of Finance to pursue knowledge translation. The \$40,000 grant, which will go towards ARC website improvements, knowledge translation videos and APAB's ROAR event, was written by **Helen Prlic** with assistance from **Shauneen Kellner**.

The team of **Cheryl Barnabe** and **Glen Hazlewood**, as well as **Antonio Aviña** were awarded grants from the inaugural ARC Clinical Outcomes Research Grants competition. Dr.'s Barnabe's and Hazlewood's was entitled, *"Indigenous patient preferences for rheumatoid arthritis pharmacotherapy"*. Dr. Aviña's project was entitled, *"The risk of cardiovascular disease in patients with ankylosing spondylitis: A population-based study"*.

Cheryl Barnabe also received an Alberta Innovates – Health Solutions Conference Grant which was used to fund a meeting of the Group for Research with Aboriginal Peoples for Health (GRAPH). It hosted delegates from Aboriginal organizations, Alberta Health Services, and university and community colleges from across the province to discuss a new initiative to support Aboriginal community-driven, community-performed and community-owned research.

Cheryl Barnabe was awarded a five year Canadian Institutes of Health Foundation Scheme Grant entitled *'Arthritis care for indigenous populations'*. Program Experts and Collaborators include **Deborah Marshall**, **Glen Hazlewood**, **Diane Lacaille**, Sasha Bernatsky, Lisa Lix, Walter Maksymowiych and others.

Glen Hazlewood was been awarded a 3-year Canadian Institutes of Health Research Grant entitled *"Bridging the evidence gap: Understanding patient and physician choices for treatment in early rheumatoid arthritis"*. His Co-Investigators include **Cheryl Barnabe**, **Deborah Marshall**, **Linda Li** and **Nick Bansback**.

Jacek Kopek was awarded three Canadian Institutes of Health Research grants, two as Principal Investigator and a third as a Co-Investigator. The first is a 3-year grant entitled *"A comparison of strategies to reduce the burden of osteoarthritis: A population-based microsimulation study"*. His Co-Investigators are **John Esdaile**, **Jolanda Cibere**, **Linda Li**, **Hubert Wong**, **Nick Bansback** and **Eric Sayre**.

The second grant headed by **Jacek Kopek** and Mark Fitzgerald is a 5-year award entitled *"Development and validation of Canadian health literacy measurement tool for chronic disease management"*. Co-Investigators on this one include Irving Rootman, Shawn Aaron, Céline Bergeron, Louis-Philippe Boulet, Jean Bourbeau and others.

Jacek's third award as Co-Investigator is a three year grant entitled *"Interventions for undiagnosed and early-stage COPD: Informing policy, practice, and research through an Evaluation Platform in COPD (EPIC)"*.

Arthritis Research Canada has received a grant from the Vancouver Foundation for a proposal entitled *“It IS About Us”*. The Principal Applicant was **Patti Nakatsu** who had support in the writing from **Linda Li, Jenny Leese, Bao Chau Tran** and **Agnes Jamont**.

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’s** (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 a 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.

ARC Annual Scientific Meeting

The Annual ARC Scientific Meeting & Retreat was held in Vancouver on June 18th and 19th. There were a record seventeen presentations by trainees. Four ARC scientists also presented as well. Dr. Mark Harrison, a UBC Professor in Sustainable Health Care was a guest presenter. The honoured guest for the ARC Retreat lecture was ARC Board member and former BC Minister of Health **Colin Hansen**.

Paul Fortin of ARC Laval attended and accompanying him was France Légare of the Laval CAP. Dr. Fortin’s presentation at the retreat was a comprehensive report on the scientific activities to date of ARC Laval Investigators as well as a presentation of a strategy to develop ARC Québec. Ms. Légare attended all the scientific sessions at the retreat and was hosted at a dinner by members of the Vancouver APAB group.

ARC Calgary retreat attendees included **Deborah Marshall, Cheryl Barnabe** and trainees **Glen Hazlewood** and **Behnam Sharif**. Deborah Marshall also visited Vancouver in March to speak at the ARC Board meeting and be honoured for achieving status as a Senior Scientist at ARC. She scored a hat trick by also presenting to the Vancouver APAB group at their October 2014 meeting via webcast from Calgary.

NEW STAFF AND STAFF CHANGES

Agnes Jamont joined ARC in Fund Development on a part-time basis to assist with research and proposal writing for corporates and foundations.

ARC Research Affiliate **Anne Townsend** took a post in the Medical School at Exeter University, UK where she is a Research Fellow working in the Psychology Department. Anne continues to work on projects and papers with ARC scientists and is meeting weekly with Catherine Backman via Skype.

Kevin Allen joined ARC in September 2014 as the new Marketing and Communications Coordinator. Kevin has an Applied Sciences Degree from University of Guelph, and a Law and Security Administration Diploma and Liberal Arts and Sciences Certificate from Humber College. Over the past four years he has worked in marketing and communications roles, specializing in digital design and information management. Kevin has become a lead on the Social Media and Website Committees as well as providing assistance with the newsletter and other collateral materials for fund development as well as working on ARC branding and external communications.

Jasmina Memetovic was hired as the new research coordinator for the ICON and ANSWER-2 initiatives led by Dr. Linda Li. Ms. Memetovic has been involved in health behavior research for over five years, and holds an MSc in Health Care and Epidemiology from UBC. She has an interest in applying web and mobile-based aids towards chronic disease management and knowledge translation.

Navi Grewal was hired as the new Research Coordinator for the FIBIT studies, led by Dr. Linda Li. Ms. Grewal holds an MSc in Experimental Medicine, and was involved in a number of projects at the Centre of Hip Health and Mobility, including the LEAP project for juvenile idiopathic arthritis. She has an interest in clinical research, and keen on learning about knowledge translation.

Brendan Van As was hired as the new Research Assistant for the Arthritis Health Journal and OMERACT study, led by Dr. Diane Lacaille. Mr. Van As holds a BSc in Biological Sciences and an MPH in Population Health from SFU. He has an interest in chronic illness research and case management.

Lalji Halai was hired in October to be the new Research Team Coordinator for the IMPAKT Hip project. Lalji has an MD from the University of Nairobi where he managed a very busy inpatient and outpatient clinic. However, he left ARC on June 18th after being accepted into the Family Medicine Residency Program at UBC.

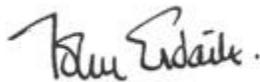
Lynn Nowoselski was hired as the new Research Assistant for the PRECISION project, led by John Esdaile and a score of other ARC scientists/patients and Cheryl Koehn. Ms. Nowoselski holds a BSc in Health Science from the University of Waterloo and a MPH in Population Health from SFU. She has an interest in chronic illness research and knowledge translation.

Xiang Chuin (Ariel) Seah was hired as a UBC Science Co-op student to provide research support for the “Making it Work” study, led by Diane Lacaille, and Pamela Rogers. Ms. Seah is a 3rd year Faculty of Land & Food Systems student at the

University of British Columbia and she is majoring in Nutritional Sciences. She has strong interest in health, nutrition and education.

Graham Macdonald was hired as both a Research Coordinator for Catherine Backman and a Research Assistant for Linda Li. He is currently working primarily on the Knowledge Translation and Ethics aspect of the PRECISION project (a study of the impact of inflammation from many different types of arthritis on adverse outcomes such as heart attack, infection and cancer). Mr. Macdonald earned a BA (Honours) in Political Science and International Development at Carleton University, and a Master's from the Institute of Political Economy, also at Carleton University. He has a strong interest in disability, healthcare policy and social theory.

Signed:



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

Appendix I: ACTIVE GRANT FUNDING UP TO JUNE 30, 2015

Appendix II: PUBLICATIONS & ABSTRACTS FROM JULY 1, 2014 TO JUNE 30, 2015

Appendix 1

FUNDING FROM JULY 1, 2014 TO JUNE 30, 2015

AIHS - Alberta Innovates Health Solutions; AHPA - Arthritis Health Professions Association; BCSMRP - 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; 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

SCIENTIST FUNDING - Operating Grants

Funding Agency	Title	PI(s)	Co-I(s)	Start Date	End Date
CIHR	New statistical methods for population-based studies of comparative effectiveness and safety of medications: development, validation and application	Abrahamowicz M	Bernatsky S, Brophy J, Buckeridge D, Capek R, Delaney J, Dixon W, Ionescu-Iltu R, Lacaille D , Levesque L, Levy A, Moride Y, Pilote L, Tamblyn R	Jul-11	Sep-16
CIHR	Canadian network for advanced interdisciplinary methods for prospective studies of drug safety and effectiveness	Abrahamowicz M	Lacaille D , Berard A, Bernatsky S, Hoh C, Levesque L, Levy A, Moride Y, Pilote L, Bessette L, Blais L, Boire G, Bombardier C, Buckeridge D, Cadarette S, Capek R, Fortin P et al	Sep-14	Aug-19
CIHR	Developing system-level arthritis performance measures for AAC Framework	Arthritis Alliance of Canada	Barber C, Lacaille DV, Marshall DA , Mosher D	Mar-14	Feb-15
CIHR	The risk of pulmonary embolism and deep Vein thrombosis in major rheumatic disorders	Avina-Zubieta A	M Abrahamowicz, H Choi, D Lacaille, L Li	Apr-13	Mar-15

The Arthritis Society of Canada	Promoting preference based decision-making: evaluating the effect of an interactive decision aid in adults choosing between medications for knee osteoarthritis	Bansback N,	Bryan S, Brasher P, Cibere J, L Li, Marra C, Lynd L	Dec-12	Dec-14
TAS	Erosion healing and restoration of function in rheumatoid arthritis	Barnabe C, Boyd S		Jul-13	Jun-16
AIHS	Aboriginal Albertans perceptions of health service delivery for osteoarthritis and total joint replacement	Barnabe C	Marshall DA, Jones CA	Sep-12	Aug-14
CIHR	Arthritis care for indigenous populations'	Barnabe C		Mar-15	Feb-16
CIORA	Improving patient outcomes in rheumatoid arthritis may require deeper understanding of medication adherence	Bell MJ	Goldsmith CH, Sandhu S, Lathia N, Sweezie R	Jul-14	Jun-16
CIHR	Neurodevelopmental disorders in children born to women with systemic lupus erythematosus	Bernatsky S, Vinet E	Clarke AE, Fombonne E, Joseph L, Pineau CA, Platt RW	Apr-11	Sep-15
National Institutes of Health (US)	Cancer risk: advancing knowledge in systemic rheumatic disease	Bernatsky S	Ramsey-Goldman R, Clarke AE	Jan-13	Dec-15
CIHR	Cancer risk: advancing knowledge in systemic rheumatic disease	Bernatsky S, Clarke AE, Foulkes WD	Joseph L	Mar-13	Feb-14
Canadian Foundation for Innovation	An integrative approach for translating research to improve musculoskeletal health	Boyd S	Marshall DA, Aglin C, Duncan N, Frank C, Fritzler M, Herzog W et al	Jan-13	Dec-17
NIH	Impact of cardiovascular and weight loss diets on uric acid and gout risk	Choi H		Jul-13	Jun-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		Jan-14	Dec-17
CIHR	Towards improving treatment adherence and outcomes of patients with gout	De Vera M	Choi H, Esdaile JM, Kydd A, Marra C, Shojania K	Nov-13	Oct-14

The Arthritis Society	The impact of arthritis medications during pregnancy on maternal and neonatal health	De Vera M	Avina-Zubieta A, Marra C, D Lacaille, Janssen P	Jul-13	Jun-16
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	Shojania K, Marra C, Choi H, Avina-Zubieta JA, Kydd A, Baker M	Jul-14	Jan-17
CIHR	A multidisciplinary approach to target chronic inflammation of the gut, liver and joint	Eksteen J	Barnabe C, Beck P, Bernier F, Fritzier M, Ghosh S, Kamath B, G Kaplan G, Reimer R, Swain M	Jul-14	Jun-19
CIHR	Consequences of knee joint injury in youth sport: Implications for knee osteoarthritis and other health outcomes	Emery, C	Brussoni M, Ferber R, Krawetz R, Ronsky J, Woodhouse L, Doyle-Bake P, Jaremko J, Marshall DA	Apr-14	Mar-17
CIHR	CIHR team in IMPAKT-HIP – investigations of mobility, physical activity, and knowledge translation in hip pain	Esdaille J	L LiC, Cibere J, Emery C, Forester B, Garbuz D, Gilbert M, Kopec J, Lehman A, Mackay A, McKay H, Wilson D, Wong H, Abrahamowicz M	Sep-10	Aug-15
CIHR	PRECISION: Preventing Complications from Inflammatory Skin, Joint and Bowel Conditions	Esdaille J	Abrahamowicz M, Avina-Zubieta JA, Barnabe C, De Vera M, Dutz J, Kaplan G, D Lacaille, L LiC, Marra CA	Jul-14	Jun-19
CIORA	The Early Arthritis Screening & Treatment (EAST) program for Eastern Quebec	Fortin P		Jul-13	Jun-15
Alliance for Lupus Research	Identification of biomarkers for patient stratification and lupus nephritis	Wither J	Fortin P	Jul-12	Jun-15

VCH/MPAC	Do inflammatory arthritis patients receiving group music therapy improve pain compared to music listening over 6 weeks using a randomised control trial? "One good thing about music, when it hits you, you feel no pain"	Goldsmith CH	Feehan L	Jan-15	Dec-15
CIORA	Development and usability testing of a personalized risk communication tool to facilitate the shared decision of methotrexate treatment options in early rheumatoid arthritis	Hazlewood G	Marshall DA, Barnabe C, L LiC, Bansback N, Bykerk V, Tugwell P	Oct-14	Sep 15
CIHR - Drug Safety and Effectiveness Network (DSEN)	Bayesian models for synthesizing randomized controlled trials and patients' preferences for treatment options in early rheumatoid arthritis and Crohn's disease	Hazlewood G, Kaplan G	Marshall D, Bombardier C, Tomlinson G	Mar15	Feb16
Natural Sciences and Engineering Research Council of Canada	Neuromuscular mechanisms governing knee joint biomechanics during normal gait	Hunt M		Jul-13	Jun-18
TAS	Effects of toe-out gait modification on clinical and biomechanical measures in people with medial compartment knee osteoarthritis	Hunt M	Wilson DR, Goldsmith CH	Jul-13	Jun-16
CIHR	A randomized controlled trial evaluating the effectiveness of the Making It Work program at preventing work loss and improving at work productivity in employed people with inflammatory arthritis	D Lacaille	Backman C, Esdaile J, Gignac M, Goldsmith CH, L Li, Marra C	Aug-11	Jul-16
CIHR	Assessing the quality of care for rheumatoid arthritis at a population level	D Lacaille,	Abrahamowicz M, Anis A, Bansback N, Esdaile J	Oct-13	Sep-16
CIHR	Developing advanced methods for population-based comparative effectiveness studies	D Lacaille, Abrahamowicz M, Bernatsky S, Berard A, Levy A, Moride Y, Pilote L	Bessett L, Blais L, Fortin P, Marra C, et al	Sep-11	Aug-14

TAS	Arthritis care in the digital age: Understanding the context of and barriers to integrating online tools to optimize physical activity	L LiC	Davis AM, Jones CA , Townsend AF , Backman CL , Avina-Zubieta JA , Gromala D	Oct-13	Sep-14
BC Knowledge Development Fund	Health Decision Technology (HD-Tech) Lab	L LiC		Jan-14	Dec-16
Canadian Foundation for Innovation	Health Decision Technology (HD-Tech) Lab	L LiC		Jan-14	Dec-16
CIHR	Knowledge translation to optimize mobility independence in older adults: Improving Cognitive & Joint health Network (ICON)	L LiC , Liu Ambrose, T, Esdale JM , Gromala D	Straus S, Légaré F, Shaw C, Smith R, Jones CA , Hoens A , Adam P	Apr-14	Mar-17
The Arthritis Society of Canada	Effectiveness of physical activity coaching using Fitbit in people with knee OA: A pilot study	L LiC ,		Jul-14	Jun-15
VCHRI (Innovation & Translational Research award)	Improving physical activity using an online monitoring tool: a new model of care for knee OA	L LiC , Noonan G	Feehan L , Goldsmith CH , Hoens A	Jan-15	Dec-16
CIHR	Supporting Physical activity & Reducing sedentary behaviour in Arthritis (SuPRA)	L LiC , Noonan G, Gromala D	Avina-Zubieta A , Goldsmith C , Backman CL , Townsend A , Feehan L , Smith R, Shaw C, Hoens A	Jun-14	May-16
The Arthritis Society	Effectiveness of online Physical Activity Monitoring in Inflammatory Arthritis (OPAM-IA): A new model of care	Li LC , Avina-Zubieta JA , Goldsmith C , Backman C , Townsend A , Feehan L , Shaw C, Gromala D	Noonan G, Adam P, Callahan L	Oct-14	May-17
CIHR	Consortium to improve physical activity across the adult lifespan: maximizing the potential of digital technologies	Liu-Ambrose T, Li LC , Graham N	Best J	Apr-15	Mar-16

CIHR	Developing a Canadian Framework for evaluation and decision-making for expensive drugs for rare diseases through innovation, value, and priority setting	Lynd L	Bryan S, Clarke L, Clifford T, Coyle D, Friedman J, Marra C et al	Feb-12	Jan-17
Genome Canada	Clinical implementation and outcomes evaluation of blood-based biomarkers for COPD management	Marra C	Sin D, Ng R	Jul-13	Jun-18
TAS	Creating an optimal model of care for the efficient delivery of appropriate and effective arthritis care	Marshall DA , Vanderby S	Barnabe C	Jul-13	Jul-14
CIHR	Developing an innovative evidence-based decision support tool to improve osteoarthritis care, planning and health service management for diverse patient populations in Alberta, Saskatchewan and Manitoba	Marshall DA , Vanderby S	Barnabe C , Carter M, Frank C, Lix L, Mosher D, Noseworthy T, Peschken C	Apr-13	Mar-16
AIHS/PRIHS Grant	Optimizing centralized intake to improve arthritis care for Albertans	Marshall, DA	Barber C , L Phillips, J Homik, Barnabe C et al	Jan-14	Jan-17
CIHR	Towards better surgical outcomes through improved decision making about appropriateness for total knee arthroplasty in patients with knee osteoarthritis	Marshall, DA	Bohm E, Dunbar M, Faris P, Jones CA , Noseworthy T, Ravi B, Woodhouse L	Apr-14	Mar-19
CIHR	Enhancing Participation in the Community by Improving Wheelchair Skills (EPIC WheelS): A feasibility study	Miller WC	Goldsmith CH , Eng J, Giesbrecht E, Mitchell I, Woodgate R	Oct-12	Sep-14
CIHR	Evaluation of the WiiFit to enhance walking in older adults with lower limb amputation	Miller WC	CH Goldsmith	Oct-13	Sep-16
CIHR	Centre for Hip Health and Mobility: A team approach to mobility in vulnerable seniors	Miran-Khan K, Li L , Liu-Ambrose T, Marra C , McKay H	Ashe M, Brasher P, Cook W, Cynade M, Eng J, Feldman H, Fitzgerald J, Hart D, Kopec JA , Kornelsen J, Lillies B, MacKay A, McElhaney J, Rhodes R, Scott V	Oct-08	Sep-14

CIHR	Canadian Longitudinal Study on Aging (CLSA) Mobility Initiative (CMI)	Raina P	Balion C, Bergman H, Chamber L, Chappell N, Corriveau H, Dionne I, Kopec JA , Hepple R, Fulop T, Menec V, et al	Oct-08	Sep-14
CIHR	Innovative knowledge synthesis methods collaborative at the La Ka Shing Knowledge Institute	Straus S, Beyene J	Goldsmith CH , Hemmelgarn B, Juurlink D, Majumdar S, Mamdani J, Perrier L, Tricco A	Sep-11	Aug-14
CIHR	Methods and Applications Group for Indirect Comparisons (MAGIC)	Straus S, Hutton B, Moher D, Tricco A, Wells G	Bjerre L, Cameron C, Clifford T, Coyle D, Fergusson D, Finkelstein Y, Grimshaw J, Goldsmith CH et al	Sep-14	Aug-19
CIHR	Brain dysfunction in chronic inflammatory disease: reciprocal effects of CNS and periphery crosstalk	Swain M	Barnabe C , Goodyear B, Hirota S, Kaplan G, MacQueen G, Mayer E, Myers R, Pittman Q, Sharkey K	Jul-14	Jun-19
CIHR	The scleroderma patient-centre intervention network	Thombs B	Marra C & 30 others	Jul-12	Jun-17

SCIENTIST FUNDING - Salary Grants

Peer Review				
Funding Agency	Title	Faculty	Start Date	End Date
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
CRA/CIORA/TAS	Clinician Investigator Award; Service delivery models for triage and targeted treatment to improve patient and health system outcomes in rheumatoid arthritis	Barnabe C	Jul-13	Jun-15
CRA	Young Investigator Award	Barnabe C	Jul-14	Jul-14
CIHR	New Investigator Award - Arthritis Care For Indigenous Populations	Barnabe C	Jul-14	Jul-19
CIHR	New Investigator Award - Can Patient-Centred Care Improve Outcomes And Save Costs?	Bansback N	Jul-14	Jul-19
Govt of Can	Tier II Canada Research Chair in Pharmaceutical Outcomes (renewal)	Marra C	Oct-11	Oct-16
TAS	Investigator Award	Cibere J	Sep-12	Aug-16
CAN/TAS	Network Scholar Award	De Vera M	Jul-13	Jun-15
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
MSFHR	Career Clinical Scholar	Hunt M	Jul-12	Jul-20
CIHR	New Investigator Award - Non-invasive treatments to improve disease symptoms and cartilage health for knee osteoarthritis	Hunt M	Jul-14	Jul-19
MSFHR	Career Investigator Award	Li L	Sep-11	Aug-19
Canada Research Chair Program	Canada Research Chair in Patient-Oriented Knowledge Translation	Li L	Jan-14	Dec-19

Govt of Can	Canada Research Chair in Systemic Autoimmune Rheumatic Diseases	Fortin P	Jul-12	Jun-19
Govt of Can	Canada Research Chair in Health Services and Systems Research (renewal)	Marshall D	Mar-13	Feb-18
UofC	Arthur J.E. Child Chair in Rheumatology Outcomes Research	Marshall D	Jul-12	Jun-17
Non Peer Review				
BC Lupus Society	Scholar Award	Avina A	Jul-10	Jun-15
UBC	Mary Pack Chair	Lacaille D	Sep-11	Aug-16
UBC	Harold Robinson-Arthritis Society Chair in Rehabilitation Sciences	L Li	Jul-11	
SFU	Maureen and Milan Illich Chair in Statistics and Information Sciences for Arthritis and Musculoskeletal Disease	Goldsmith C	Sep/10	Aug-15

TRAINEE AWARDS

Funding Agency	Title	Trainee	Supervisor	Start Date	End Date
CIHR	Effectiveness of a commercially available activity monitor for increasing physical activity in people with knee osteoarthritis: a randomized controlled trial - Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award	Clayton C	L Li	Nov-14	Oct-15
TAS	Trak-OA	Clayton C	L Li	Sep-14	Aug-15
UBC	UBC Four Year Fellowship for PhD Students	McCormick N	JA Avina, Marra C	Sep-14	Aug-18
CIHR	Long-term health resource utilization and total economic burden following diagnosis of systemic autoimmune rheumatic diseases: a population-based study - Frederick Banting and Charles Best Canada Graduate Scholarship Doctoral Award	McCormick N	JA Avina, Marra C	Sep-14	Aug-17
UofC	Eyes High postdoctoral award	Sharif B	Marshall D	May-14	Apr-16
MITACS	MITACS Elevate postdoctoral award	Sharif B	Marshall D	May-14	Apr-15
UBC	UBC Faculty of Medicine Graduate Award	Rai S	Choi H	May-14	May-14
Lupus Canada	Lupus Canada Scholarship	Rai S	Choi H	Oct-14	Oct-14
CRA	CRA Summer Studentship	Warwas M	Li L, Esdaile J	Jul-14	Aug-14
ACR/ARHP	Association of Rheumatology Health Professionals Distinguished Clinician Award	Westby M	Jones CA, Li L	Jul-14	Jul-14
University of Alberta	Assessing the quality of rehabilitation for total joint arthroplasty along the continuum of care; CIHR Fellowship	Westby M	Jones CA, Li L	Oct-12	May-15

Appendix II

PUBLICATIONS

1. **Aviña-Zubieta JA, Bhole VM, Amiri N, Sayre EC, Choi HK.** Response to: 'Venous thromboembolic events in systemic vasculitis' by Novikov et al. *Ann Rheum Dis.* 2015 Mar;74(3):e28.
2. **Aviña-Zubieta JA, Bhole VM, Amiri N, Sayre EC, Choi HK.** The risk of deep venous thrombosis and pulmonary embolism in giant cell arteritis: a general population-based study. *Ann Rheum Dis.* 2014 Sep 29. pii: annrheumdis-2014-205665. doi: 10.1136/annrheumdis-2014-205665. [Epub ahead of print].
3. **Bansback N, Li LC,** Lynd L, Bryan S. Development and preliminary user testing of the DCIDA (Dynamic computer interactive decision application) for 'nudging' patients towards high quality decisions. *BMC Med Inform Decis Mak.* 2014 Aug 1;14:62.
4. **Bansback N, Li LC,** Lynd L, Bryan S. Exploiting order effects to improve the quality of decisions. *Patient Educ Couns.* 2014 Aug;96(2):197-203.
5. **Bansback N,** Hole AR, Mulhern B, Tsuchiya A. Testing a discrete choice experiment including duration to value health states for large descriptive systems: addressing design and sampling issues. *Soc Sci Med.* 2014 Aug;114:38-48.
6. **Bansback N, Trenaman L,** Harrison M. How important is mode of administration in treatments for rheumatic diseases and related conditions? *Curr Rheumatol Rep.* 2015 Jun;17(6):514.
7. **Barber CE,** Smith A, **Esdaile JM, Barnabe C,** Martin LO, Faris P, **Hazlewood G,** Noormohamed R, Alvarez N, Mancini GB, **Lacaille D,** Keeling S, **Aviña-Zubieta JA, Marshall D.** Best practices for cardiovascular disease prevention in rheumatoid arthritis: A systematic review of guideline recommendations and quality indicators. *Arthritis Care Res (Hoboken).* 2015 Feb;67(2):169-79.
8. **Barnabe C,** Hemmelgarn B, **Jones CA,** Preschken CA, Voaklander D, Joseph L, Bernatsky S, **Esdaile JM, Marshall DA.** Imbalance of prevalence and specialty 2015 Feb;42(2):323-8.
9. Beaton DE, Dyer S, Boonen A, Verstappen SMM, Escorpizo R, **Lacaille D,** Bosworth A, Gignac MAM, Leong A, Purcaru O, Leggett S, Hofstetter C, Petersson IF, Tang K, Fautrel B, Bombardier C, Tugwell P. OMERACT filter evidence supporting the measurement of at-work productivity loss as an outcome measure in rheumatology research. *J Rheumatol.* (Accepted for publication May 22, 2015).

10. Bennell KL, Dobson F, Roos EM, Skou ST, Hodges P, Wrigley TV, Kyriakides M, Metcalf B, **Hunt MA**, Hinman RS. The influence of biomechanical characteristics on pain and function outcomes from exercise in medial knee osteoarthritis and varus malalignment: exploratory analyses from a randomised controlled trial. *Arthritis Care Res (Hoboken)*. 2015 Jan 26. doi: 10.1002/acr.22558. [Epub ahead of print]
11. Bourré-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*. 2015 Jan;67(1):128-135.
12. Bourre-Tessier J, **Clarke AE**, Kosinsky M, Mikolaitis R, Bernatsky S, Block J, Meenakshi J. The French Canadian validation of a disease specific patient reported outcome measure for Lupus. *Lupus*. June 2014 Dec;23(14):1452-9.
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14. **Carruthers EC, Rogers P, Backman CL, Goldsmith CH**, Gignac MA, **Marra C**, Village J, **Li LC, Esdaile JM, Lacaille D**. "Employment and arthritis: making it work" a randomized controlled trial evaluating an online program to help people with inflammatory arthritis maintain employment (study protocol). *BMC Med Inform Decis Mak*. 2014 Jul 21;14:59.
15. **Carruthers E, Choi HK, Sayre EC, Aviña-Zubieta JA**. Risk of deep venous thrombosis and pulmonary embolism in individuals with polymyositis and dermatomyositis: A general population-based study. *Ann Rheum Dis*. Sept 2014 doi:10.1136/annrheumdis-2014-205800. [Epub ahead of print].
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22. Ezzat AM, MacPherson K, **Leese J, Li LC**. The effectiveness of interventions to increase exercise adherence in people with arthritis: A systematic review. *Musculoskeletal Care.* 2015 Mar;13:1-18.
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25. Goobie GC, Bernatsky S, Ramsey-Goldman R, **Clarke AE**. Malignancies in systemic lupus erythematosus: a 2015 update. *Curr Opin Rheumatol.* 2015 Jun 26. [Epub ahead of print].
26. Guillemin F, **Carruthers E, Li LC**. Determinants of MSK health and disability – Social determinants of inequities in MSK health. *Best Pract Res Clin Rheumatol.* 2014 28(3):411-433.
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