Pediatric Rheumatology Research in Canada The Canadian Alliance of Pediatric Rheumatology Investigators: CAPRI is Growing Up

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anadian pediatric rheumatology research has earned attention and respect nationally and internationally, largely due to pediatric rheumatology clinicians and investigators from all across Canada coming together to form a national research network: the Canadian Alliance of Pediatric Rheumatology Investigators (CAPRI). As a group, we had worked together

for many years on issues related to training, education and advocacy. A need for a group to represent and facilitate collaborative research across all Canadian pediatric rheumatology centres was identified in 2006 at a seminal meeting held in Vancouver, BC. We recognized that research in childhood rheumatic disease could only be effectively conducted in a multicentre manner, and decided to start a network. The group decided to focus on childhood arthritis, and out of that meeting, a New Emerging Team grant was submitted to CIHR and was successful. This was the birth of the Research on Arthritis in Canadian Children Emphasizing Outcomes (ReACCh-Out) study and the CAPRI group.

The mission of CAPRI is "pursuit of new knowledge for the benefit of children and adolescents with rheumatic diseases," with objectives to: 1) facilitate research on childhood rheumatic diseases through collaborative multicentre studies involving pediatric rheumatology centres in Canada; 2) build an infrastructure for multicentre pediatric rheumatology research; 3) facilitate and foster pediatric rheumatology research in which single or a few centres participate; 4) facilitate research training for those interested in a career in pediatric rheumatology research and to foster research careers of new investigators; and 5) liaise with other research groups both nationally and internationally.



CAPRI members in Saskatoon.

Since the inception of the ReACCh-Out study, CAPRI has grown in research scope and membership. Our network includes as members all pediatric rheumatologists from every pediatric rheumatology centre in Canada, and has expanded to include research members who are not pediatric rheumatologists but engaged in pediatric rheumatology research, and trainees. Our initial project, ReACCh-

Out, has been a terrific success with 1,500 children with newly diagnosed juvenile idiopathic arthritis (JIA) enrolled from all across Canada. We have creatively utilized the enormous resources from the ReACCh-Out cohort to study predictors of disease course, risk of flares, uveitis, pain, health-related quality of life, and novel genomic/biologic disease clustering. Our research in JIA has continued on from ReACCh-Out, to include studies on biologic basis of disease (Biologically Based Outcome



Predictors in JIA [BBOP]; Principal Investigator [PI] Alan Rosenberg), and physical activity in children with JIA (Linking Exercise Activity and Pathophysiology in Canadian Children with JIA

[LEAP]; PIs Lori Tucker and

Ciaran Duffy). Several CAPRI members are international experts in childhood vasculitis research, and lead major research initiatives which involve CAPRI. These include A Registry of Childhood Vasculitis: E-entry (ArCHIVe) and the Pediatric Vasculitis Initiative (PedVas) (PI for both, David Cabral), and Brainworks (PI Susanne Benseler). Our next large project in develoment is launching a Canadian National JIA Registry, which will allow longitudinal data collection on children and youth with JIA across Canada,

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The Transition from Pediatric-centred to Adult-oriented Care in Rheumatology

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Importance of Adult Rheumatology Involvement

Collaborating with our adult rheumatology colleagues is extremely important to understand and address the needs of our young adult patients. Effective communication, education around psychosocial issues and identifying how to best coordinate our efforts are paramount to achieving this goal.

Challenges we can anticipate include the funding difficulties for additional multidisciplinary staff, longer appointments, and clinic space availability.

Research Initiatives Through the Canadian Alliance of Pediatric Rheumatology Investigators (CAPRI)

CAPRI has created a working group to focus and unite our transition research efforts nationally with our adult colleagues. Currently, there are many collaborative national projects, such as evaluating a transition readiness questionnaire (the Readiness for Adult CarE in Rheumatology [RACER]) and creating a transition toolkit through focus groups with patients, families and adult/pediatric rheumatology practitioners. Our goal is to develop a core set of outcome measures to evaluate the acceptability and effectiveness of transition programs that will be linked with the national registries.

Clinically, we aim to create several models of care that different-sized centres can adopt, with the eventual goal of having a transition program in every major centre in Canada. It is our hope that these initiatives will enhance collaboration between pediatric and adult rheumatologists in order to serve our patients better and to achieve excellent medical and psychosocial outcomes.

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and will be able to be linked to new projects as they come along. The JIA Registry has received start-up funding from The Arthritis Society, and is in a pilot testing phase with full implementation planned for late fall 2016.

The enthusiasm and growth of CAPRI could be best seen at our most recent scientific meeting, which took place in Toronto on April 12-13, 2016. Forty-five members from across the country attended the meeting, and there were sessions reviewing current research, workgroup sessions for established projects as well as emerging programs such as transition research, outside speakers and work sessions on employing knowledge-translation strategies using our research results, and discussion of future directions and goals. Evaluations of the meeting from attendees were very positive, and the excitement and engagement of participants was fantastic.

As a small pediatric research network, CAPRI is doing well with steady growth, while remaining open to new opportunities and driven by our members' interests. CAPRI is a member of the Mother, Infant, Child, and Youth Research Network (MICYRN), a coordination body of Canadian pediatric research networks, and this connection is providing opportunities for infrastructure development. We have good collaboration with U.S. and international pediatric rheumatology researchers and research groups, and we have now become an important voice of Canadian pediatric rheumatology research in a variety of settings. Most importantly, we are a collaborative bunch who recognize the value of working together, and enjoy it. We are fortunate to have within our CAPRI membership tremendous experience, wisdom, creativity and enthusiasm for research. Our most precious asset is our collegiality and ability to work together for common goals, and with that, the future of CAPRI is very bright.

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