

RESEARCH SCHOLAR PROGRAM 2017
SUPERVISOR/PROJECT INFORMATION FORM



Due on or before **October 21 2016**. Forms received after this date will not be posted on the website.

SUPERVISOR INFORMATION

Supervisor Name: Brian McCrindle

Mailing Address: 555 University Avenue, The Hospital for Sick Children, Toronto, ON M5G 1X8

Telephone Number: 416-813-7609

Email Address: brian.mccrindle@sickkids.ca

Degree (MD, PhD, MD/PhD): MD, MPH

Academic Rank: Professor of Pediatrics

Field of Research: Pediatric Cardiology, Preventive Cardiology (Clinical Research)

Graduate School Appointment (IMS, IHPME etc.): Full appointment in IMS, IHPME and Dept of Nutritional Sciences

Please note that you must be appointed to the SGS in order to be a supervisor in the Scholar Program

Research Institute Affiliation (if applicable): HSC Research Institute – Senior Scientist

Allocation of student contact time (# of hours per week you are available to the student for any concerns or to review progress): As per the project and the student, but available every day except Wednesdays.

Do you have a student that you have already agreed to work with? No

Please note, you may go ahead with a self-initiated project with a student of your choosing. If you choose this option, your project will not be posted online, meaning it will not be open to student applicants.

PROJECT INFORMATION

Project Title: **Long-Term Outcomes After Kawasaki Disease**

Project Description (max 500 words): Kawasaki disease is a rare, self-limited vasculitis of unknown etiology affecting ~25-30/100,000 children <5 years old/year in Canada. Necrotizing arteritis leads to coronary artery aneurysms in ~25% if untreated, making KD the leading cause of acquired heart disease in children. Flow stasis predisposes to aneurysm thrombosis, and ongoing vasculitis with luminal myofibroblastic proliferation progresses to coronary artery stenoses, causing occlusions and premature cardiovascular events. Predicting risk is difficult, since the pattern and pathology of involvement differs from patient to patient, and has not been comprehensively characterized. This has been shown to lead to patient uncertainty and anxiety regarding the future outlook, negatively impacting psychosocial outcomes. The project will be to determine risk factors for both thrombosis and stenosis, as well as adverse psychosocial outcomes. The student will have the opportunity to learn about Kawasaki disease, and aspects of pediatric cardiology in general. A novel and relevant research question regarding long-term outcomes and possible interventions will be developed that leverages existing SickKids and international databases, with some primary data collection. The project will be clinical research, not laboratory based, and projects with direct patient contact can be considered. The project will be appropriate to the knowledge level and timeline feasibility for the student.

If human subjects are involved, has Ethics been obtained?

☒ YES

☐ NO

☐ Application Submitted

☐ N/A

Do you expect this work will be published within 20 months?

☐ YES

☐ NO

☒ Uncertain

Student's Roles / Responsibilities (Please be as specific as possible) Please indicate who will serve as the student's direct report. (PI, PDF, PhD student, technician etc...):

The student will report to the PI and the research program manager. The student will be responsible for coming up with a research question, drafting a protocol and analysis plan, contribute to data collection/abstraction, data entry and cleaning, analysis, and preparation for presentation and publication. The student will work with other students as applicable. Similar to prior students, significant contribution and successful completion of the project will afford the student the opportunity to present their work at the 12th International Kawasaki Disease Symposium to be held in June, 2018 in Yokohama, Japan.