

Supervisor & Project Information Form

Please complete and return via email ONLY to gdip.hres@utoronto.ca by **Monday September 30, 2019**

Supervisor Information

MUST have unrestricted SGS appointment (appointment to supervise graduate students)

Name: Padmaja Subbarao	Email: Padmaja.subbarao@sickkids.ca
SGS Department: Department of Physiology, Dalla Lana School of Public Health	Field of Research: Asthma, epidemiology, intervention studies, infant pulmonary function, respiratory medicine
Research Institution affiliation (if applicable): SickKids Research Institute	Location of Work: Hospital for Sick Children
Student contact time (number of hours per week YOU are available to the student for any concerns or to review progress:	2 hrs

Project Information (will be posted on GDipHR website for student access)

TITLE:

The effects of frequency, time of onset and severity of early respiratory viral infections on preschool children's lung function and wheeze.

DESCRIPTION (MAX 500 WORDS):

The CHILD cohort study is a multi-centre (Vancouver, Edmonton, Winnipeg and Toronto) longitudinal, prospective, general population birth cohort study following over 3500 infants and their families from pregnancy to 8 years of age. The primary hypothesis of the CHILD cohort study is that genetic, environmental, and host factors (in utero and post-partum) interact in the developing fetus and infant to alter the risk of subsequent asthma and allergy. This hypothesis recognizes the complex nature of asthma and allergy development; no single factor leads to allergy or asthma in all individuals. Understanding what factors identify a susceptible individual, what factors constitute a risky exposure, and how these factors relate to the developing infant is the goal of the CHILD cohort study.

The CHILD cohort study has collected data on spirometry and viral infections at multiple time points since birth up to 5 years of age. The project aims to study the associations of early respiratory viral infections with wheeze and worsened lung function, based on 3 parameters: time of onset, severity and frequency of infection.

If human subjects are involved, have the appropriate Research Ethics Board approvals been obtained?

Yes No Application Submitted (Date: _____)

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

Yes No Uncertain / Other

Student Roles & Responsibilities (please be as specific as possible)

Please indicate who will serve as the student's direct report for daily oversight (PI, PhD student, technician, etc...)

The student will be supervised by the Clinical Research Project Manager and the Biostatistician on a day to day basis and will meet with the Dr. Subbarao weekly to review the progress of the project.

- **Research:**
 - Perform a literature review and define criteria for respiratory viral infections in preschool children
 - Analyze pulmonary function tests (PFT)
 - Interpretation of data in line with current literature
 - Request study data and perform high-quality statistical analysis under the supervision of the biostatistician
- **Knowledge Translation:**
 - Support the translation of research findings to practice and policy
 - Summarize and communicate the results of statistical analysis to research staff and students
- **Administration:**
 - Present project material on a regular basis at the weekly team meeting.
 - Manage research queries and changes required to the analysis.