Comprehensive Research Experience for Medical Students
Summer Research Program 2021
Supervisor/Project Information Form

Due February 24, 2021 by email to crems.programs@utoronto.ca

**Supervisor Name:** Dr. Lindsay Shirreff

**Co-Investigator:** Dr. Ally Murji

**Project Title:** SURGICAL GYNAECOLOGY QUALITY SCORECARD

**Sub-Study:** Evaluation of patient, surgical and surgeon factors to determine predictors of unjustified bilateral salpingo-oophorectomy (BSO) at the time of hysterectomy based on final pathology report

**Hospital/Research Institution:** Mount Sinai Hospital

**Email:** Lindsay.shirreff@sinahealth.ca

**Field of Research (2 keywords):** quality improvement, surgical outcomes

**Department:** Obstetrics and Gynaecology

**School of Graduate Studies Appointment (IMS, LMP, IHPME etc)? Yes/No:** No

**If YES, please name:**

N/A
**Brief Project Description (<300 words):**

**Background:** In 2016, we created an online scorecard for hysterectomy procedures that is distributed biannually at eight Ontario hospitals (~105 surgeons) with approximately 5000 hysterectomies in our retrospective database. Our scorecard will be expanded to include 10 sites with over 150 surgeons in Canada in the next year. While this was started as a quality improvement initiative, we now have a large repository of data and several ongoing research projects. The CREMS student will help with data entry and assist in analysis and manuscript preparation for the following study:

**Study Objectives:** 1) To determine the proportion of patients having unjustified BSO at the time of hysterectomy based on final pathology report. 2) To evaluate patient, surgical and surgeon factors predicting avoidable BSO at the time of hysterectomy.

**Design:** Retrospective review of 5000 hysterectomies

**Setting:** 8 Ontario, Canada hospitals

**Participants:** Patients undergoing hysterectomy from July 2016-December 2019

**Intervention:** BSO at the time of hysterectomy

**Measurement:** Primary outcome will be unjustified BSO based on final pathology report. Secondary outcome will be the proportion of patients having avoidable BSO. These will be patients who satisfied all of the following criteria: age < 51, absence of intraoperative endometriosis and adhesions, benign preoperative diagnosis (other than endometriosis, gender dysphoria, prophylaxis and premenstrual dysphoric disorder) and unjustified BSO based on final pathology. Logistic regression analysis will be performed to determine predictors of avoidable BSO. Odds ratios (OR), 95% confidence intervals (CI) and p-values will be calculated.

There are several other sub-studies being conducted through the Surgical Gynaecology Scorecard Project. The CREMS student will primarily assist in data analysis and manuscript preparation for the aforementioned project. However, he/she will have the opportunity to become involved in one other study of their choice based on clinical interest. This will be determined at the start of the summer placement.