Supervisor/Project Information Form

Due February 6, 2020 by email to crems.programs@utoronto.ca

Supervisor Name: Nucelio Lemos, MD, PhD

Project Title: Laparoscopic Neuronavigation for the treatment of intrapelvic nerve entrapments – Results and predictors of clinical outcomes in the first Canadian cohort

Hospital/Research Institution: Mount Sinai Hospital/Women’s College Hospital

Email: Nucelio.Lemos@utoronto.ca

Field of Research (2 keywords): Urogynecology, Neuropelveology

Department: Department of Obstetrics & Gynecology

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

If YES, please name:

Brief Project Description (<300 words):
Intrapelvic nerve entrapments are compression neuropathies of the intrapelvic bundles of the lumbosacral plexus caused by fibrosis, neurovascular conflict, endometriosis, neoplasms or abnormal piriformis muscle bundles. They can cause debilitating pain, paresthesia, and paresis along the affected nerve’s associated dermatome and myotome. In addition to chronic pelvic and perineal pain, these neuropathies are an important cause of pelvic floor dysfunction, incontinence, psychosocial distress, and sexual dysfunction. The introduction of the Laparoscopic Neuronavigation (LANN) technique to Canadian patients in 2017 enabled physicians to treat patients with intrapelvic nerve entrapments more safely and effectively. The primary objective of this study is to assess the impact of the LANN technique on the pain levels of patients diagnosed with intrapelvic nerve entrapments. Secondary objectives include the assessment of the impact of the LANN technique on sexual function, pelvic floor-related quality of life issues, and pain catastrophizing, as well as the identification of predictors of positive and negative clinical outcomes. The selected summer student will be responsible for collecting patient survey data (available online), inputting data into a secure database at Mount Sinai Hospital, and performing analysis of patient demographic, preoperative, and postoperative
data with the guidance of a staff statistician at Mount Sinai Hospital. Over the course of the summer, students will also develop new skills in literature review, data analysis, and data presentation.