

## **FELLOWSHIP: PERIOPERATIVE ULTRASOUND IN ANESTHESIA**

### **Fellowship Directors:**

Dr. Milène Azzam, MDCM, FRCPC

Dr. Alexander Amir, MDCM, FRCPC

**Associate Faculty:** Dr. Stephen Yang, MDCM, M.Sc., FRCPC

**Type of Fellowship:** Clinical

**Duration:** 1 year

**Number of positions per year:** 1

**Hospital Sites:** Jewish General Hospital (JGH) and Montreal General Hospital (MGH)

### **Mission Statement and Objectives:**

The goal of the fellowship is to create leaders in perioperative ultrasound in anesthesia. We aim to provide the candidate with an in-depth foundation of the techniques, knowledge, and applications of whole-body ultrasound in the perioperative period. The candidate will gain experience in transthoracic and transesophageal echocardiography, pulmonary, abdominal and neurological ultrasound. The candidate will gain an understanding of the applications of whole-body ultrasound in preoperative assessment, intraoperative evaluation of physiologic derangements, and in postoperative care both in the post-anesthesia care unit and in the intensive care unit. By the end of their fellowship, the candidate should have an understanding of how to implement a perioperative ultrasound program

care unit. This will be scheduled to coincide with the presence of the intensivist Dr. Yang. The fellow will round with Dr. Yang, performing ultrasound examinations of the patients, and have opportunities to perform ultrasound guided procedures such as paracentesis, line insertion among others.

### **MGH**

The educational objectives will be met at the MGH through a combination of time spent in the operating room, the post-operative care unit, and preoperative clinic. The scheduling of the fellow will be intentional flexible, to allow for the maximum exposure to techniques and pathology of interest for ultrasonography. Roughly 4 days per week will be spent in the operating room, where the fellow will be assigned to rooms that could utilize ultrasound techniques. These will also include rooms requiring regional anesthesia. During the day, the fellow will be called for any anesthesia involvement in trauma patients to perform ultrasound techniques. When there is anesthesia involvement in the placement of ECMO, the fellow will be expected to assist with the ultrasound guidance of placement. The fellow will also spend the equivalent of one week per month in the preoperative clinic, where they will perform patient consultations, but also perform any required ultrasound examinations.

### **Elective time**

