

## *Pediatric Anesthesia Clinical and Research Fellowship*

**DURATION:** 2 years

**NUMBER OF POSITIONS:** 3

**FELLOWSHIP DIRECTOR:** Dr. Maria-Alexandra Petre

**HOSPITAL:** The Montreal Children's Hospital and  
Shriners Hospital for Children in Canada

**Funding:** *One of these positions is generously funded by the Shriners Hospital for Children in Canada.*

**BACKGROUND:**

Our pediatric anesthesia clinical and research fellowship is a 2-year program. The clinical year is comprised of 4 clinical days a week which enables you to gain expertise in subspecialty pediatric anesthesia (cranio-facial, neurosurgical, renal transplantation, neonatal, offsite anesthesia, acute pain and airway management). A one non-clinical day a week is available for the pursuit of academic or clinical research activities. Candidates will rotate through both the Montreal Children's Hospital and the Shriners Hospital for Children. The second year will be a mix of clinical and research with up to 4 research days/week (dependant on productivity).

**RESEARCH:**

Research activities in the department are directed by Dr. D. Withington (Research Director). Areas of research expertise include the pharmacology of neuromuscular blockade, acute pain modalities, obstructive sleep apnea, control of breathing, pharmacology and epidemiology. Didactic and practical training in various aspect of basic research is available, and active participation in the design, organisation and conduct of the studies is required of the candidate.

**MISSION STATEMENT:**

To provide the trainee with a level of consultant clinical expertise in the administration of tertiary and quaternary anesthetic care to the pediatric population and provide research training towards comprehensive academic knowledge of the field of pediatric anesthesia. Expertise in the treatment of acute post-operative pain treatment will also be acquired.

**DESCRIPTION:**

The Montreal Children's Hospital is a teaching and research center located in the vibrant and beautiful city of Montreal. We are a tertiary-care centre with approximately 7000 pediatric cases per year. The MCH is a designated pediatric trauma center and has a very busy emergency room, a Neonatal Intensive Care Unit, and a Pediatric Intensive Care Unit. The Main Operating Block has 6 operating rooms, with a sedation room. Anesthesia also provides off site coverage to radiology (MRI, CT scan, Ultrasound, Interventional Angiography), Cardiology, Hematology/Oncology. In addition, we have 2 active Pain Services (Acute and Chronic). Pediatric regional anesthesia is performed at the Montreal Children's Hospital and the Shriners Hospital for Children.

The Shriners Hospital for Children in Montreal is a specialized orthopedic institution founded in 1925. The hospital is a 40-bed facility with two operating rooms, and one pre-induction room. The hospital

does about 800 surgeries every year; about half are performed as outpatient surgery. This includes routine and complex orthopedic surgery, scoliosis surgery and urological surgeries. The hospital is also an orthopedic referral center for patients with osteogenesis imperfecta, offering specialized care for patients from the rest of Canada and internationally. The hospital is affiliated with the McGill University Health Center (MUHC). Medically complex patients, who may require admission to the intensive care unit, are treated at the Montreal Children's Hospital.

The trainee is expected to:

- Perform clinical work under the supervision of the Staff Anesthesiologists.
- Perform call duties:  
**Second Call:** maximum of 8 Second Calls per month. Second Call begins at 15:30 on weekdays, and 7:00 on weekends  
**Stat Weekends:** Maximum of 3 stat holiday weekends in 12 months.
- Participation in Thursday AM Departmental Rounds, Thursday PM Resident/Fellow Teaching Rounds, Simulation Rounds and McGill Department of Anesthesia Journal Club.
- Support will be provided to allow the candidate to attend a scientific meeting to present a paper or scientific exhibit subject to the following:
  - research carried out by the Fellow whilst in the Department of Anaesthesia at The Montreal Children's Hospital
  - meeting shall be approved by the Department
- The fellows will have access to the McGill University, Montreal Children's Hospital and Departmental libraries. The fellow will also have access to a computer.

**ACUTE/CHRONIC PAIN SERVICE COMPONENT:**

1. Fellows will spend a total of 1-month on the Acute/Chronic Pain Service (A/CPS) throughout the clinical year. This will be divided into a 1-week pain service blocks.
2. Responsibilities on the Acute/Chronic Pain Service:
  - a. APS rounds with the APS team (Pain Nurse, Resident, Staff)
  - b. Cover consults to the APS and CPS.
  - c. Cover assigned clinical procedures with the staff assigned to pain.
  - d. Get sign-out from the pain nurse at 14:30.
  - e. Rounds at the end of day
3. Pain call on weekends. This includes rounding Saturday/Sunday morning. Cover pain Saturday/Sunday during pain week.
4. Teaching/Presentations:
  - a. Presentation to ward nurses (once)
  - b. Monday Morning Rounds (once for the APS)
  - c. Prepare 1 protocol for the APS.