



## **Fellowship in Neurological and Stroke Rehabilitation**

### **Program Director:**

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Physiatrist

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### **Fellowship Location :**

CIUSSS Centre-Sud de l'île de Montréal

Institut de Réadaptation Gingras-Lindsay de Montréal (IRGLM)

Rehabilitation Center

6300 Avenue Darlington, Montréal, Québec H3S 2J4

### **Candidate Requirements:**

- M.D. having completed his/her postdoctoral training in Physical Medicine and Rehabilitation Specialist (physiatry), or certified Physiatrist;
- Strong interest in Neurorehabilitation and stroke rehabilitation
- Good command of French, spoken and written
- Has own source of financial support for the duration of fellowship (bursary, scholarship or RVI)
- Internship of 6 months minimum to 2 years maximum
- Letter of intent
- Three letters of recommendation by supervising attending physicians

### **Institution description**

The stroke and acquired cerebral lesions in-patient functional rehabilitation program receives regional and supra-regional referrals. It is the only intensive functional

rehabilitation program for patients suffering from Locked-In Syndrome at a provincial level. Our unit comprises 39 beds. We follow several hundred patients per year in the outpatient clinic. These patients, as well as the hospitalized patients, benefit from specialized clinics such as spasticity clinics (with Botulinum toxin injections), fluoroscopically-guided corticosteroid injections, dysphagia with videofluoroscopy studies, vestibular reeducation clinics as well as neuro-urology clinics.

### **Candidate fellow involvement:**

- Active assessment and follow-up of patients hospitalised in inpatient functional rehabilitation on the stroke unit, as treating physician
- Active participation with the interdisciplinary team, including multidisciplinary team meetings
- Animation of individualized goal setting meetings
- Participation to outpatient follow-up clinics of patients afflicted with stroke and other neurological diseases;
- Participate in clinical videofluoroscopic swallowing evaluations;
- Participate in vestibular clinics;
- Participate to the physiatric on-call list for daytime coverage of Rehab consultations at the Santé Physique Program of the Institut de réadaptation Gingras-Lindsay-de-Montréal;
- Participate in teaching pregraduate medical students and residents during their rotations at IRGLM;
- Participate in a stroke-related research project;
- Lecture at the in-house Continuing Medical Education meeting;
- Lecture at one of the Physiatric Residency Program education sessions.

### **Learning Objectives:**

At the end of the Fellowship the candidate must:

- Know the risk factors for stroke;
- Master the cognitive examination in relation to lobar syndromes;
- Master the right parietal syndrome;
- Master the examination of motor, sensory, sensorial, and speech deficits in a stroke patient;
- Know the differential diagnosis of impairments found in stroke;
- Know the general brainstem syndromes;
- Know the major impairments and disabilities related to Guillain-Barré syndrome, MS or other neurological conditions met on the rehabilitation ward;

- Recognize the neurological and musculoskeletal complications of stroke patients;
- Know the neurological and functional prognosis of impairments/disabilities detected at clinical examination;
- Know the physiopathology of spasticity and its therapeutic approach related to stroke patients;
- Know the clinical aspects of the Locked-in Syndrome, its prognosis and the short and long-term rehabilitation needs;
- Know the clinical examination, investigation and rehabilitation measures related to dysphagia of neurological origin. Be able to proceed to a videofluoroscopic swallowing examination, interpret the results and recommend the appropriate therapeutic approach;
- Know how to diagnose a vestibular dysfunction in a stroke patient. Proceed to a clinical examination, investigation and general prescription of vestibular rehabilitation;
- Know the medication used in stroke patients;
- Master the bladder and bowel problems related to stroke, the differential diagnosis, the appropriate investigation and therapeutics based upon clinical exam and workup;
- Master the use of upper and lower-limb orthoses in stroke and other neurological conditions;
- Know the differential diagnosis, clinical exam, workup, therapeutic approach and prognosis of Complex Regional Pain Syndrome in stroke patients;
- Master the general principles as well as specific approach to patients with speech disorders;
- Know the rehabilitation tools used in non-oral communication;
- Know the indications and criteria of wheelchair and technical aids prescriptions used in stroke;
- Know the outcome scales and assessments used in stroke;
- Know the long-term complications of outpatient follow-up after stroke.