

FELLOWSHIP IN ARTHROPLASTY SMBD-Jewish General Hospital Department of Orthopaedic Surgery, McGill University

Our Mission

Our present-day mission is to enable compassionate patient care and superior training for existing and future generations of orthopaedic surgeons.

Over 15 years, the Arthroplasty Fellowship Program at JGH/McGill University has trained and educated physicians to be future academic leaders in musculoskeletal clinical care, research, and teaching. Our Fellows become an integral part of our team through close collaboration with faculty, research staff, and all the members of the care team.

Led by 3 full-time surgeons, specialty-trained in hip and knee replacement and with a collective volume of over 750 cases per year, the Program provides an opportunity for Fellows to gain a broad range of in-depth experience over the course of the year. Upon completion of the Arthroplasty Fellowship Program, graduates are amply prepared to build an arthroplasty practice, with an additional focus on research and teaching.

Our Vision

To be a leader in orthopaedic excellence. We will lead national research innovation, education, and excellence in orthopaedic surgery that contributes to better mobility and quality of life for patients.

Surgery Faculty



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**Director of Arthroplasty
Fellowship Program**

SMBD-Jewish General Hospital

Overview

The Arthroplasty Fellowship is a twelve-month program in primary and revision total joint replacements of the hip and knee. The program objective is to prepare a board-eligible orthopaedic surgeon for a career in arthroplasty surgery. Training is provided in all aspects of adult reconstruction surgery including trauma, arthritis, congenital, and post-traumatic reconstruction. This is a “hands-on” fellowship where responsibility is delegated based on demonstration of clinical and surgical maturity and expertise.

The program will emphasize the diagnosis of clinical disorders of the bones, joints and soft tissues; the pathogenesis of these disorders; the treatment modalities available for managing these disorders; and the results and complications of such treatment. The fellow will assume a major role in the continuing care of patients and have progressive responsibility in patient assessment, preoperative evaluation, operative experience, and postoperative management and rehabilitation.

The educational curriculum will include occasions to study anatomy, physiology, biomechanics, pathology, microbiology, pharmacology, and immunology as they relate to adult reconstructive orthopaedics.

Duration of Fellowship: 1yr

The fellowship begins **July 1st** and ends **June 30th**. During this year, Fellows will be immersed in all aspects of the Program.

Objectives

- To develop a systemic approach to the patients’ problem and decision-making skills in management.
- To develop and sharpen skills in examination and assessment of patients with arthritis and related problems requiring joint replacement surgery.
- To attain basic surgical skills and techniques in primary and revision arthroplasty.
- To obtain experience in scientific data collection, analysis interpretation, publication and surgical audit.

Clinical Training

Each Fellow is involved over 350 cases, of which approximately 15 % are complex revisions. At the end of the year, the Fellow is expected to demonstrate an advanced level of expertise in the treatment of these patients.

Participation in outpatient visits in clinic settings, along with intense operating room experience, provides Fellows with wide practice in the diagnosis, treatment, and follow-up of a diverse patient population.

Surgical training:

Fellow rotates among each of the 3 members of the Arthroplasty Team, which performs among the most adult reconstructive surgery cases in Quebec and is one of the busiest operative services. Arthroplasty surgeons have 1.5 elective days per week each (for arthroplasty) and share trauma time averaging 2-4 trauma days per month. The Fellow will first assist or perform the case under the supervision of the attending staff that he/she is rotating with. The exact role of the Fellow in the Operating Room will be discussed before the surgery with the staff. The Fellow can expect significant exposure to a broad range of surgical procedures:

- **Hip arthroplasty:**

- Hemi arthroplasty.
- Total hip arthroplasty – Cemented and Uncemented.
- Resurfacing arthroplasty.
- Revision hip replacement.
- Latest Approaches for primary and revision surgery

- **Knee arthroplasty:**

- Primary total knee arthroplasty
- Revision knee arthroplasty.
- Custom implants and computer assisted surgery
- Latest Approaches for primary and revision surgery

Research

In addition to strong clinical experience, Fellows build upon their existing research skills with extensive exposure to research methodology, study design, and critical data review. The Program sets aside one day per week for this work, thereby protecting 20% of Fellow's time for research. Projects are evaluated on how well Fellows demonstrate critical thinking, scientific approach, understanding of statistical criteria, literature support, and coordination of all project components to effect completed, scientifically sound manuscripts. Upon entering the Program, Fellows are assigned a research mentor and IRB-approved projects and are expected to pursue at least two research projects during the fellowship year. They also have the opportunity to pursue additional research collaborating with other trainees in the program.

Fellows present their progress to the Program's faculty and are also encouraged to attend and present their research at national and international academic meetings. Yearly, the highly-respected work of Fellows, along with other members of the Service, is published in peer-reviewed articles.

Academic Career Training

In addition to clinical care and research, goals for the Fellowship include the development of strong teaching and organizational skills necessary to participate in an academic career. To this end, Fellows work closely with Residents on the Service in coordinating patient care. Fellows lead Residents and medical students in teaching conferences, in the operating room, and in clinics.

Fellowship Duties

Clinic work

- Assisting or independently doing under supervision arthroplasty cases
- Daily rounding on all inpatients
- Assisting with the evaluation and management of outpatient arthroplasty patients
- Pre-operative planning of all surgical cases and coordinating for special implants or equipment needed in the OR
- Sharing in the call schedule along with the residents

Research work

- Completion of two research projects: Planning and designing a study, data collection, analysis and defending the project/study.
- Desirable to achieve one publication in a per-reviewed journal
- Oral presentations in national/international conference. Attending at least two major conferences.
- Regular presentations in Local body orthopaedic/ Arthroplasty meets

Weekly Schedule

Four of the five workdays are spent in the operating room and clinic. The fifth day is protected to pursue research interests and gain office experience. One or two didactic conferences will be held each week to discuss specific arthroplasty topics, research projects, or difficult cases. The Fellow will be expected to attend:

Fracture Rounds, Orthopaedic Rounds, McGill Combined Grand Rounds and Arthroplasty Rounds: weekly conferences with presentations of scholarly subjects relating to orthopaedics. The Fellow will present at least 1 topic per month to the general group of staff and residents at the usual Orthopaedic Rounds.

Research Seminar: held every Tuesday to provide an opportunity for discussion of research activities and ideas

Annual Experimental Surgery Research Day, McGill Orthopaedics: a one-day conference held annually in January, focuses on papers presented by chief residents and fellows regarding their clinical and laboratory research. Concludes with a graduation ceremony and dinner.



Annual Visiting Professor Day, McGill Orthopaedics: two-days conference held annually in May, focuses on papers presented by chief residents and fellows regarding their clinical research. Concludes with a graduation ceremony and dinner.

Send request and C.V. to Fellowship Director:

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For more information, please check the following link:
<https://www.mcgill.ca/pgme/admissions/prospective-fellows>