

Goals and Objectives

McGill Infertility/Andrology Fellowship

Number of positions: 1

Length of training: 2 years

The Infertility/Andrology fellowship at the McGill University Health Centre (Division of Urology) is a two year fellowship. The fellows will work under the direct supervision of fellowship-trained Infertility/Andrology experts: Drs Serge Carrier, Armand Zini. The fellowship is designed to teach the urologist the necessary clinical and surgical skills to effectively manage male infertility and erectile dysfunction (ED). The fellows may also spend up to three months working with female infertility specialists to gain some understanding of the clinical evaluation of the infertile woman and the techniques of assisted reproduction.

The fellows will need to meet specific *learning and research objectives* and will be given *clinical responsibilities*.

Learning Objectives:

To meet these objectives, fellows will attend all andrology clinics, participate in monthly andrology rounds (with presentation of clinical and basic science topics in andrology) and will be given a list of suggested reading material. Specific areas to be covered will include:

1) Biology of Reproduction

Fellows are expected to learn the basic aspects of:

Spermatogenesis

Hormonal control of germ cell development and steroidogenesis

Sperm biology

Basic female reproductive biology and fertilization

2) Physiology of Erection

Fellows are expected to learn the basic aspects of:

Neuro-anatomy of the penis

Pharmacology of erection

3) Clinical Evaluation and Management of Male Erectile Dysfunction

Fellows are expected to learn how to appropriately evaluate and manage men with ED. This will include evaluation by penile Duplex ultrasound. An understanding of the basic and extended evaluation and of the treatment algorithm is expected. Fellows will give formal presentations on various clinical topics during the fellowship.

4) Surgical Aspects of Andrology

Fellows are expected to develop the basic surgical skills (with emphasis on microsurgical skills) to perform microsurgical varicocelectomy, microsurgical vasectomy reversal (including vaso-epididymostomy) and various techniques of sperm retrieval. Fellows will also become familiar with penile prosthetic surgery (including revisions) and surgical correction of penile curvatures.

Research Objectives:

Fellows are responsible for undertaking a minimum of two research (clinical and/or basic) projects under the supervision of Drs. Carrier and/or Zini. These projects will be submitted for presentation and publication.

Clinical and Teaching Responsibilities:

Fellows are responsible for attending all male infertility and ED clinics (with Drs. Zini, Chan and/or Carrier). Fellows will also be responsible for assisting during male infertility and ED-specific surgeries (this responsibilities will be shared 50:50 with the rotating urology resident). For all other surgical procedures (i.e. non-andrology), the rotating resident(s) will be given priority.

Fellows will also assist in the teaching of residents and students.

Eligibility:

Candidates for the fellowship must be graduates of a recognized Medical School and must have completed their urology residency at a recognized University.

Candidates need to be fluent in English and/or French.

Funding:

Candidates should secure their own funding for the duration of the fellowship. Candidates are encouraged to apply (with the assistance of one or more of the co-supervisors) for external funding through an establish agency (e.g. FRSQ, Kidney Foundation, CIHR, AFUD). Candidates enrolled in a 2-year research fellowship may also apply for funding through the Surgical Scientist Program at McGill University.