

Fellowship in Cardiac Anesthesia Research

Duration: 2 years

Number of positions: 1

Fellowship supervisor: Thomas Schricker MD PhD
Roupen Hatzakorzian MD MSc

Hospital: Royal Victoria Hospital
McGill University Health Centre

Clinical work / research: The fellowship includes at least 90% research and 10% clinical activities. The candidate will participate in the conduct of a clinical research project.

Mission statement: To offer anesthesiologists the possibility to participate in clinical research involving cardiac surgery patients. Under supervision, the candidate will participate in the development and implementation of novel cardioprotection strategies including the use of insulin and nutrition aimed at accelerating the recovery process of myocardial function and clinical outcomes.

Description:

1. Research: The fellow will participate in a large RCT on the effect of tight glycemic control on outcomes after cardiac surgery. He/she will also be part of studies on the effect of insulin and nutritional enhancement by glucose and amino acids on myocardial function and whole body protein catabolism after coronary artery bypass grafting procedures. The candidate will become familiar with several research methods such as stable isotope methodology, indirect calorimetry, hyperinsulinemic-normoglycemic clamp technique, biochemical assays and clinical outcomes assessment.
2. Clinical care. Under the supervision of staff anesthesiologists the trainee will be to some extent involved in anesthesia care of patients undergoing CABG, valve procedures (open and minimally invasive approach), heart transplantations and the insertion of ventricular assist devices. The candidate will become familiar with anesthesia techniques and the application of pharmacological interventions. The candidate will not participate in the on call system of the Department.
3. The candidate will participate in all academic activities organized by the McGill Department of Anesthesia (grand rounds, journal club, teaching rounds, the annual McGill Anesthesia Update course, and the annual research day) The candidate will also participate in selected activities of the Division of Cardiac Surgery (Mortality and Morbidity Rounds, research meetings, journal clubs etc).