



Ryan Flannigan, MD, FRCSC



2008 B.Sc. (Hon) University of Calgary

2010 M.D. University of Calgary

2016 Urology Residency, University of British Columbia

2018 Male Reproduction, Microsurgery and Sexual Medicine Fellowship, Weill Cornell Medicine & Memorial Sloan Kettering, New York, NY

Positions:

Surgeon-Scientist Male Reproduction & Sexual Medicine, Vancouver Prostate Centre

Director of Male Reproduction & Sexual Medicine Research Program, Department of Urologic Sciences, University of British Columbia

Assistant Professor, Department of Urologic Sciences, University of British Columbia

Adjunct Assistant Professor, Weill Cornell Medicine, New York, NY

Dr. Ryan Flannigan completed his fellowship training in Male Reproduction, Microsurgery and Sexual Medicine at the world-renowned Weill Cornell Medicine and Memorial Sloan Kettering Center in New York, NY.

Clinically, Dr. Flannigan is specialized in male infertility and sexual medicine. Dr. Flannigan evaluates men with all presentations of infertility, manages men both medically and surgically. He performs microsurgical varicocele repairs, microdissection testicular sperm extraction (microTESE), percutaneous sperm retrievals, electroejaculation for men with spinal cord injuries and microsurgical vasectomy reversals including both the micro-dot vasovasostomy and vasoepididymostomy procedures, among others. Dr. Flannigan also performs no-scalpel vasectomies. Dr. Flannigan evaluates and treats men with Peyronies disease, erectile dysfunction, ejaculatory dysfunction and spinal cord injury associated infertility and sexual dysfunction. Dr. Flannigan performs penile implant surgery, Peyronies injections, Peyronies plications as well as excision and grafting techniques.

Dr. Flannigan's research program is focused on evaluating genetic and molecular mechanisms contributing to non-obstructive azoospermia (NOA), using precision single-cell strategies and in vitro methods. During fellowship training, he evaluated the role of microRNA-202-5p in Sertoli Cell Only Syndrome (supported by the AUA Care Foundation) and the roles of Y-Box Binding proteins in Maturation Arrest histologic subtypes. Presently, Dr. Flannigan is continuing his work evaluating the genetic and molecular mechanisms contributing to NOA focusing on techniques that facilitate cell-specific evaluation and functional interactions, with the goal of identifying novel therapeutic targets to treat men with no presently available treatments. Dr. Flannigan is also working to identify the molecular underpinnings underlying Peyronies Disease, with hopes of identifying novel therapeutic strategies. Beyond bench science, Dr. Flannigan is involved in numerous clinical trials and is actively involved in research related to preventative health and health promotion jointly with the Canadian Men's Health Foundation.