



RCSI

ROYAL COLLEGE OF SURGEONS IN IRELAND

COLÁISTE RÍOGA NA MÁINLEÁ IN ÉIRINN

Grant/Fellowship Report Form

Fellowship/Grant Holder Name	Elaine Redmond
Brief biography, including qualification and year of graduation (no more than 100 words)	<p>2019 - Fellowship in Genitourinary Reconstructive Surgery, University of Alberta, Edmonton</p> <p>2019 - Certificate of Completion of Surgical Training (CCST), Royal College of Surgeons in Ireland</p> <p>2018 - Doctor of Medicine (M.D.), University of Limerick,</p> <p>2017 - Fellow of the Royal College of Surgeons in Ireland, FRCS (Urol)</p> <p>2014 - MSc. in Human Factors and Patient Safety, RCSI</p> <p>2013 - Postgraduate Diploma in Human Factors and Patient Safety, RCSI</p> <p>2012 - Certificate of Completion of Basic Surgical Training (CCBST), RCSI</p> <p>2010 - Membership of the Royal College of Surgeons in Ireland, MRCSI</p> <p>2008 - MB, BCh, BAO (Hons), BMedSci (Hons) – University College Cork, Cork.</p>
Title of Project/Fellowship	Fellowship in Genitourinary Reconstructive Surgery
Year of Award:	2019
Commencement Date:	July 2019
Conclusion Date:	July 2020

Summary (no more than 250 words)

I commenced my reconstructive urology fellowship in July 2019 at the University of Alberta, Edmonton, Canada. This prestigious fellowship is accredited by the Society of Genitourinary Reconstructive Surgeons and encompasses all aspects of genitourinary reconstructive surgery. The University of Alberta performs a high volume of reconstructive surgery due to its designation as the main reconstructive urology centre for Western Canada. My timetable included 3-4 operative days and 1-2 outpatient clinics or endoscopy sessions per week.

My fellowship focused primarily on urethral reconstruction for stricture, hypospadias, fistula, and trauma under the supervision of Prof. Keith Rourke - a world renowned reconstructive urologist who performs the highest volume of urethral surgery in North America. I also had the opportunity to work with two female/neurourology subspecialists (Dr. Gary Gray and Dr. Joseph Labossiere) and became proficient in managing patients with female incontinence and neuropathic bladder. I gained confidence in the placement (and excision) of transvaginal slings used in the treatment of urinary incontinence. I also learned how to implant sacral nerve stimulators.

There was a strong research component to my fellowship. I collaborated with other reconstructive centres in Canada to investigate the functional outcome from the ATOMS adjustable male sling. I was invited to present this research at the CUA Night School (an online educational programme created in lieu of the Canadian Urological Association annual meeting). During my fellowship, I published 6 first author manuscripts in high-impact urological journals. In addition, my research was accepted for presentation at both national and international meetings.

Grant Report (in the region of but no more than 500 words)

Objectives of Project/Fellowship:

- To develop experience in prostate cancer survivorship care e.g. incontinence, stricture, erectile dysfunction.
- To perform a high volume of urethroplasty for simple and complex urethral stricture including anastomotic, staged, and substitution urethroplasty techniques.
- To perform a high volume of implantation of artificial urinary sphincter (AUS) and male urethral sling (MUS)
- To become proficient in the management of female incontinence and neuropathic bladder

Did you achieve these objectives?

Yes.

In your opinion, what is the value of your award to:

(a) Yourself

The grant enabled me to subsidise the travel and relocation costs incurred in moving my family to Edmonton to pursue this fellowship. The fellowship has allowed me to achieve operative independence in a wide range of complex genitourinary procedures. I feel confident in managing the many different cohorts of patients who may require reconstructive urological surgery, including the care of patients post prostate cancer treatment, those with male and female incontinence and patients with spina bifida/spinal cord injuries.

During this fellowship I have expanded my research portfolio which will enable me to establish myself as a reconstructive urologist on my return to Ireland. I had the opportunity to train with world experts in reconstructive urology who not only have been great mentors during my fellowship but who will provide sponsorship and support as my career progresses.

(b) The institution in which you worked

During my time at the University of Alberta, I made a significant contribution to the research output of the department. This has helped to maintain the institutions reputation as a world class centre for reconstructive urology. I hope to have left the department with a long-lasting and meaningful connection to Ireland and I look forward to establishing clinical and academic links between our urology departments in the future.

(c) In the future for Irish patients

The very high level of operative skills and knowledge gained on my fellowship will allow me to provide the highest standard of reconstructive urological care to patients when I return home to Ireland. In particular, I hope to increase the availability of urethroplasty for men with urethral strictures. There are currently very few urologists in Ireland who are trained to perform this operation and the majority of men will undergo repeated intervention for recurrent strictures rather than definitive surgery. Urethral stricture is a common cause of urinary symptoms in men, with a prevalence of 0.5 %. Initial treatment is typically by endoscopic dilatation or urethrotomy. However, recurrence of the stricture occurs in about 60% of men within 2 years. In contrast, urethroplasty has a success rate of >95% in expert hands.