

# CURRICULUM VITAE

## JEREMY GRUMMET

### MBBS, MS, FRACS

#### PERSONAL DETAILS

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#### CURRENT POSITIONS/ACCREDITATION

2007- Visiting Medical Officer (Consultant Urologist), The Alfred Hospital, Melbourne, Australia

2008- Member of Australian Urology Associates private urology practice

2008- Accreditation at Epworth Healthcare Group, Cabrini Health, Masada Hospital (Ramsay Health), Bairnsdale Regional Health Service, Alfred Health

2009- Chair, Genito-Urinary Cancer Multidisciplinary Team Meeting, The Alfred Hospital

2013- Adjunct Senior Lecturer, Department of Surgery, Monash University

## EDUCATION

### TERTIARY:

University of Melbourne  
Royal Melbourne Hospital Clinical School.

**MB, BS 1996**

**Honours in final year Surgery**

### POST-GRADUATE

Royal Australasian College of Surgeons (RACS) Part 1 Examination: July 1999.

RACS Early Management of Severe Trauma (EMST): February 2000.

RACS Part 1: completion of Basic Surgical Training in September 2000.

RACS Care of the Critically Ill Surgical Patient (CCrISP): November 2000.

RACS Advanced Training Program in General Surgery: accepted in December 2000, with deferment granted until 2002 due to Master of Surgery enrolment in 2001.

RACS Critical Literature Evaluation And Research (CLEAR): October 2001.

RACS Advanced Training in Urology: accepted for commencement in 2004.

**Master of Surgery:** Novel Techniques for Vesico-Urethral Anastomosis in Radical Prostatectomy. Degree conferred at University of Melbourne 2004.

**RACS Urology Fellowship Examination:** June 2006.

**FRACS:** Urology training completed, Fellow of RACS effective from 6<sup>th</sup> February 2007.

**Da Vinci Robotic Surgery Certification:** Sunnyvale, California, November 2007.

**Mini-Residency in Robot Assisted Laparoscopic Prostatectomy:** University of California Irvine, Orange, California, November 2007.

**Clinical Uro-Oncology Fellowship:** The Prostate Centre at Vancouver General Hospital, University of British Columbia, Canada, completed June 2008.

**AMS Travelling Fellowship in Prosthetic Urology:** Awarded by USANZ 2009, visiting experts in prosthetic urology in U.S. cities of Nashville, Birmingham, Minneapolis, and Chicago.

**Greenlight Laser Prostatectomy Workshop and Laser Safety Course:** Sydney, July 2009.

**Laparoscopic Urological Surgery: Advanced Course:** IRCAD Taiwan, September, 2011.

## CLINICAL

**INTERNSHIP:** 1997 at Royal Melbourne Hospital (RMH).

**POST-GRADUATE YEAR (PGY) 2:** 1998, Surgical Resident at RMH and Royal Children's Hospital.

**PGY 3:** 1999, **Senior Tutor in Anatomy** (see Teaching).

**PGY 4:** 2000, Surgical Resident at RMH. First experience in Urology.

**PGY 5:** 2001, **Urology Research Registrar** at Royal Melbourne Hospital while enrolled in a Master of Surgery at University of Melbourne (see Research). **Accredited as elective year of Advanced Training in Urology, January 2005.**

**PGY 6:** 2002, First Year Advanced Trainee in General Surgery: Warrnambool Base Hospital, St Vincent's Hospital, Melbourne.

**PGY 7:** 2003, Second Year Advanced Trainee in General Surgery: Northern Hospital, Box Hill Hospital.

**PGY 8:** 2004, **First Year Advanced Trainee in Urology:** Albury, NSW.

**PGY 9:** 2005, **Second Year Advanced Trainee in Urology:** Alfred Hospital, Melbourne.

**PGY 10:** 2006, **Final Year Advanced Trainee in Urology:** Royal Melbourne Hospital.

**Feb-May 2007:**

### **Locum Consultant Urologist**

Monash Medical Centre, Melbourne, Australia

Mildura Base and Mildura Private Hospitals, Victoria, Australia

Bairnsdale Regional Health Service, Victoria, Australia

Cabrini Hospital, Melbourne, Australia

**July 2007-June 2008:**

**Clinical Uro-Oncology Fellow, The Prostate Centre at Vancouver General Hospital, University of British Columbia, Canada**

## RESEARCH

### Master of Surgery Thesis

**2001-4:** Enrolled in a Master of Surgery. Conducted full-time animal laboratory research in the Department of Veterinary Medicine and Surgery of **University of Texas M.D. Anderson Cancer Center** in Houston, Texas in 2001. Twenty dogs underwent open prostatectomy to study alternative methods to suture for creating the vesico-urethral anastomosis in radical prostatectomy. The techniques of laser tissue welding and use of biological adhesives were investigated.

The longer-term follow-up project, using another adhesive material on nine dogs was conducted at University of Melbourne Department of Veterinary Science.

The thesis, entitled **Novel Techniques for Vesico-Urethral Anastomosis in Radical Prostatectomy**, was accepted and the degree of **Master of Surgery** conferred in 2004 (see [Appendix 1](#)).

### Publications

#### [Laser welded vesicourethral anastomosis in an in vivo canine model: a pilot study.](#)

Grummet JP, Costello AJ, Swanson DA, Stephens LC, Cromeens DM.  
J Urol. 2002 Jul;168(1):281-4.

#### [Vesicourethral anastomosis with 2-octyl cyanoacrylate adhesive in an in vivo canine model.](#)

Grummet JP, Costello AJ, Swanson DA, Stephens LC, Cromeens DM.  
Urology. 2002 Nov;60(5):935-8.

#### [Metastatic prostate cancer presenting as a syndrome of inappropriate antidiuretic hormone secretion.](#)

Kong J.P.L., Bultitude M.F., Longano A., **Grummet J.**, Corcoran N.M.  
BJU International. Conference: Urological Society of Australia and New Zealand 63rd Annual Scientific Meeting Perth, WA United States. Conference Start: 20100221 Conference End: 20100224. Conference Publication: (var.pagings). 105 (pp 28), 2010. Date of Publication: February 2010.

#### [Painful scrotal swelling in adolescent boys and men.](#)

**Grummet J.**, Frydenberg M.  
Medicine Today. 11 (4) (pp 81-82), 2010. Date of Publication: April 2010.

#### [Paraneoplastic syndromes in prostate cancer.](#)

Hong MK, Kong J, Namdarian B, Longano A, **Grummet J**, Hovens CM, Costello AJ, Corcoran NM.  
Nat Rev Urol. 2010 Dec;7(12):681-92. doi: 10.1038/nrurol.2010.186. Review.

#### [Radical prostatectomy for high-risk clinically localized prostate cancer: a prospective single institution series.](#)

Koupparis AJ, **Grummet JP**, Hurtado-Coll A, Bell RH, Buchan N, Goldenberg SL, Gleave ME.  
Can Urol Assoc J. 2011 Dec;5(6):E156-61

#### [The PRIAS study in Australia: One institution's experience.](#)

Grummet J.P., Lin M.J.  
BJU International. Conference: 65th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Darwin, NT Australia. Conference Start: 20120421 Conference End: 20120424. Conference Publication: (var.pagings). 109 (pp 10-11), 2012. Date of Publication: April 2012.

**Indications and pathological outcomes of radical cystectomy: A contemporary Australian series.**

Kerr S., Satasivam P., **Grummet J.**

BJU International. Conference: 65th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Darwin, NT Australia. Conference Start: 20120421 Conference End: 20120424. Conference Publication: (var.pagings). 109 (pp 38-39), 2012. Date of Publication: April 2012.

**The 'green whistle': a novel method of analgesia for transrectal prostate biopsy.**

**Grummet J.**, Huang S, Konstantatos A, Frydenberg M.

BJU Int. 2012 Dec;110 Suppl 4:85-8

**Primary apocrine adenocarcinoma of scrotum suspected as urothelial carcinoma metastasis: A clinical and pathological dilemma.**

Huang S., Frydenberg M., Pham A., Pedersen J., **Grummet J.**

BJU International. Conference: 66th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Melbourne, VIC Australia. Conference Start: 20130413 Conference End: 20130416. Conference Publication: (var.pagings). 111 (pp 118), 2013. Date of Publication: April 2013.

**Transperineal prostate biopsy: A comparison of two techniques.**

**Grummet J.**, Reeves F., Frydenberg M.

BJU International. Conference: 66th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Melbourne, VIC Australia. Conference Start: 20130413 Conference End: 20130416. Conference Publication: (var.pagings). 111 (pp 99), 2013. Date of Publication: April 2013.

**Current practices of prostate biopsy in Australia and New Zealand - the survey.**

**Grummet J.**, Davis P.

BJU International. Conference: 66th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Melbourne, VIC Australia. Conference Start: 20130413 Conference End: 20130416. Conference Publication: (var.pagings). 111 (pp 96), 2013. Date of Publication: April 2013.

**Radical cystectomy: The benefit of lymph node density.**

Pirpiris A., Rzetelski-West K., **Grummet J.**

BJU International. Conference: 66th Annual Scientific Meeting of the Urological Society of Australia and New Zealand Melbourne, VIC Australia. Conference Start: 20130413 Conference End: 20130416. Conference Publication: (var.pagings). 111 (pp 70), 2013. Date of Publication: April 2013.

**Splash! The Spontaneous Rupture of a Bladder Diverticulum – a rare cause of an acute abdomen.**

O Leahy, **J Grummet.**

ANZ J Surgery: in press.

**[A bioengineered microenvironment to quantitatively measure the tumorigenic properties of cancer-associated fibroblasts in human prostate cancer.](#)**

Clark AK, Taubenberger AV, Taylor RA, Niranjana B, Chea ZY, Zotenko E, Sieh S, Pedersen JS, Norden S, Frydenberg M, Grummet JP, Pook DW; Australian Prostate Cancer BioResource, Stirzaker C, Clark SJ, Lawrence MG, Ellem SJ, Huttmacher DW, Risbridger GP.

Biomaterials.2013Jul;34(20):4777-85.doi: 10.1016/j.biomaterials.2013.03.005. Epub 2013 Apr 2.

## Presentations

**October 2001: Urological Society of Australasia Annual Victorian State Meeting**, Rosebud - "Novel Techniques for a Watertight Anastomosis in Radical Prostatectomy".

**January 2002: SPIE Conference on Laser Welding and Soldering of Tissue**, San Jose, California - "Laser Welded Urinary Tract Anastomosis in an In Vivo Canine Model".

**April 2002: Urological Society of Australasia ASM**, Perth. - "Anastomosis in Radical Prostatectomy: A Better Way Using Glue?"

**August 2002: 3<sup>rd</sup> National Prostate Cancer Symposium**, Melbourne - "Non-sutured Vesico-urethral Anastomosis in Radical Prostatectomy"

**March 2003: Urological Society of Australasia ASM**, Queenstown, New Zealand - "Could BioGlue Replace Sutures for Anastomosis in Laparoscopic Radical Prostatectomy?"

**March 2006: Urological Society of Australasia ASM**, Brisbane – "Perks, Freebies and Incentives: Zero Ethical Responsibility?"

**October 2006: USANZ Annual Victorian State Meeting**, Shepparton – **Winner 3<sup>rd</sup> Prize Best Presentation** for "Laparoscopic Partial Nephrectomy – the Royal Melbourne Hospital Experience"

**October 2007: Western Section AUA Annual Meeting**, Scottsdale, Arizona – "Radical Prostatectomy for High Risk Prostate Cancer: the Vancouver Experience"

**December 2007: North West Urological Society Annual Meeting**, Vancouver, Canada – "Radical Prostatectomy for High Risk Prostate Cancer: the Vancouver Experience"; also presented on "Surgery for High Risk Prostate Cancer" at sponsored symposium session; moderated Bladder Cancer session

**February 2008: Genitourinary Cancers Symposium**, San Francisco, California – "Radical Prostatectomy for High Risk Prostate Cancer: the Vancouver Experience"; received **Merit Award** for abstract

**June 2008: CUA Annual Meeting**, Edmonton, Canada - "Radical Prostatectomy for High Risk Prostate Cancer: the Vancouver Experience"; received **Five Star Distinction** for abstract

**March 2009: USANZ ASM**, Gold Coast – "Surgery For High Risk Clinically Localised Prostate Cancer: Surgical Pathology and PSA Recurrence-Free Survival"

**August 2010: 11<sup>th</sup> National Prostate Cancer Symposium**, Melbourne – Co-Chair session with Dr Peter Scardino on Active Surveillance of Low Risk Prostate Cancer

**October 2010: 5<sup>th</sup> Annual International Academic Week, Sir Run Run Shaw Hospital**, Hangzhou, China – "Active Surveillance for Low Risk Prostate Cancer"

**August 2012: 13<sup>th</sup> Australasian Prostate Cancer Conference**, Melbourne – "Transperineal Template Biopsy of the Prostate: the Initial Alfred Experience"

## Current Trials

2010- : Site investigator at Alfred Hospital site for PRIAS, an international observational study in active surveillance for prostate cancer.

2012- : Site investigator for the Diphereline and LUTS study, a national observational study of the effect of LHRH agonist on LUTS in men with advanced prostate cancer.

2013- : Site investigator for the Duodart and sexual dysfunction trial, an international randomized placebo-controlled study of the effects of Duodart on sexual function.

## HONORARY

2005: First registrar member of Victorian State Executive Committee of Urological Society of Australasia

2009-11: RACS Clinical Examination Committee member

2010: Leader of Urology team on AUSaid-funded Pacific Islands Project trip to Tonga

## TEACHING

1998-9: Tutor to medical students at Trinity College, University of Melbourne.

1999: **Senior Tutor in Department of Anatomy and Cell Biology, University of Melbourne.**

Sep-Oct 2000: **Lecturer in the Division of Human Anatomy at Stanford University, California.**

1999-2005: **Contributing Editor** to “an@tomea,” an interactive multimedia Anatomy teaching computer program, produced by the Department of Anatomy, University of Melbourne (see [Appendix 2](#)).

Feb 2007: Instructor in Minor Surgery for General Practitioners course at RACS Skills Lab, Melbourne.

2009-: Clinical supervisor of Final Year Monash medical students on Urology Unit as Surgery rotation

2009-: Co-ordinator of lecture programme in Urology for 3<sup>rd</sup> Year Monash medical students

## APPENDIX 1

### MASTER OF SURGERY THESIS: NOVEL TECHNIQUES FOR VESICO-URETHRAL ANASTOMOSIS IN RADICAL PROSTATECTOMY

#### ABSTRACT

The anastomosis between bladder neck and urethral stump is performed following excision of the prostate in radical prostatectomy. Problems with the anastomosis, causing clinical complications, continue to exist in traditional open radical prostatectomy. These problems, as well as additional issues, also arise in the newly-developed and increasingly popular operation of laparoscopic radical prostatectomy.

The vesico-urethral anastomosis in both open and laparoscopic radical prostatectomy is performed using sutures. Problems common to the anastomosis in both techniques are related to its extravasation of urine between the sutures. Large extravasation, forming a urinoma, can lead to prolonged post-operative catheterization, pelvic abscess, the need for percutaneous aspiration, or even re-operation. Lesser extravasation can also result in prolonged catheterization, and may lead to eventual stricture formation.

An additional problem of vesico-urethral anastomosis, unique to laparoscopic radical prostatectomy, is the technical difficulty involved in its formation. The intra-corporeal knot-tying required challenges the most experienced laparoscopists, resulting in excessive operating times and a slow learning curve.

Experiments were conducted to investigate alternative techniques that could minimize or eliminate sutures in the formation of the vesico-urethral anastomosis. The materials and techniques chosen for investigation were ones that might not only replace sutures, but also create immediate and ongoing hermetic sealing of the anastomosis.

In Experiment 1, alternatives to suture (2-octyl cyanoacrylate [OCA], fibrin glue, and laser welding) were tested for their ability to perform both an immediate and ongoing watertight anastomosis in an in vivo canine open surgery model, and for the effect the alternative technique had on the tissues involved. In Experiment 2, glutaraldehyde-albumin adhesive (GAA) was assessed for the same features, as well as medium-term healing. An in vivo canine open surgery model was again used.

While OCA generally failed to create continuously watertight anastomoses, fibrin glue and laser welding appeared to be more successful. Although fibrin glue also had the advantage of resorbability, this was tempered by its negligible tensile strength, requiring the use of supportive sutures. Laser welding had the disadvantage of causing tissue necrosis, with unknown consequences for longer-term healing. GAA also appeared to be successful, generally creating immediate and ongoing watertight anastomoses without stricture formation, despite inciting a foreign body reaction greater than that caused by sutures.

The three successful alternative techniques are all deserving of further research. The author believes that, while these techniques may to some extent address the problem of extravasation of the vesico-urethral anastomosis, their major benefit will be found in simplifying the anastomosis formation in laparoscopic radical prostatectomy.



# APPENDIX 2

