

Saturday, 21st October 2023



Laparoscopic Pelvic Anatomy Dissection Workshop

Workshop Convenor:

Dr Michael Wynn-Williams

MBChB, FRANZCOG

Sponsors

Medtronic
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Approved for 8.5 RANZCOG CPD points

Contents

Target Audience:	3
Date & Venue.....	3
Workshop Description	4
Pre-Workshop Learning:	6
Course Program	7

Target Audience:

RANZCOG Trainees (senior registrars) and Fellows

Date & Venue

Saturday, 21st October 2023

Medical Engineering and Research Facility
Queensland University of Technology
Prince Charles Hospital Campus
Staib Rd, Chermside

Laparoscopic Anatomy & Pelvic Dissection (Lap D) Workshop

Workshop Description

The Lap D Workshop is designed for Specialist and Trainee Obstetrician's and Gynaecologist's with laparoscopic skills who wish to expand their knowledge of pelvic and abdominal retroperitoneal anatomy while advancing their laparoscopic surgical dissection techniques.

AGES aims to allow access to quality anatomy teaching by providing a number of workshops that focus on a functional laparoscopic approach to pelvic anatomy. The dissection workshop allows for eighteen registrants to participate in lectures, undertake anatomical dissection on female fresh frozen donors and interact with highly skilled laparoscopic surgeons as they delve into the anatomical aspects of the female pelvis.

An introductory lecture series is followed by two, three hour operating and dissection sessions, using fresh frozen female donors.

The workshops are held at the Medical Engineering and Research Facility (MERF), Queensland University of Technology (QUT) facility in Brisbane.

Three participants are assigned to each donor and will be closely supervised by an experienced advanced laparoscopic surgical instructor. Each participant will have the opportunity to operate, assist and observe to optimise the learning experience as they rotate evenly through each step.

The workshop will focus on dissection of the pelvic side wall, with particular emphasis on the surgical layers, spaces and anatomical structures contained within.

Retroperitoneal spaces around the bladder, pelvic floor, large bowel and kidneys will all be explored.

All participants will be provided with pre-reading and copies of the presentations a week prior to the workshop.

Registrants are expected to confidently increase their anatomical knowledge and awareness, allowing for improved surgical confidence, outcomes, and reduced complications for their patients.

Directors:

Dr Michael Wynn-Williams
Dr Danny Chou

Prerequisites:

RANZCOG O&G Trainee - MRANZCOG
AGES Fellowship Program Trainee
Specialist O&G RANZCOG

Lap D Course Objectives:

Facilitate the understanding of female pelvic anatomy and laparoscopic surgical dissection

Lap D Course Aims:

To understand, demonstrate and perform laparoscopic dissection of the female pelvis in relation to the

1. Abdominal wall, and pelvic surface anatomy
2. Pelvic bony anatomy, neurovascular relations, muscles, ligaments
3. Pelvic viscera, bladder, uterus, ovaries and the rectum
4. Midline and lateral avascular spaces, and the pelvic sidewall
5. Surgical layers of the pelvic sidewall (ureter, vessels and nerves)
6. Anatomy of pelvic floor (muscle, nerves, vessels, relations for prolapse surgery)
7. Anatomical distribution of pelvic nerves including somatic and autonomic system
8. Understanding of nerve sparing procedures in endometriosis and other gynaecological anatomical procedures, with retro peritoneal approach for dissection
9. Upper abdomen anatomy (sigmoid, caecum, small bowel, diaphragm, para-aortic lymph nodes, mesentery, omentum, ureteric relations)

Lap D Learning outcomes:

1. Enhance knowledge of the anatomy of the female pelvis in relation to laparoscopic surgery with an emphasis on pelvic avascular spaces, pelvic nerve identification and sparing
2. Develop an understanding of and practice laparoscopic dissection techniques with an emphasis on ureterolysis and access to the avascular spaces and planes
3. Use anatomical principles to assist in the management of complex surgical procedures and intraoperative complications
4. Appreciate that the acquisition of anatomical knowledge and dissection techniques improves surgical procedures and is a career long process

Pre-Workshop Learning:

Essential Reading

1. AAGL. A PRIMER IN Gynecology Endoscopy. In AAGL; 2002.
2. Wedel T. Topographical Anatomy for Hysterectomy Procedures. Hysterect A Compr Surg Approach. 2017;1-1639.
3. Uy-kroh MJ, Falcone T. Basic Principles and Anatomy for the Laparoscopic Surgeon. Atlas Single-Port, Laparosc Robot Surg. 2014;3-22.

Videos – AGES Website

AGES Live/Dead Surgery 2017

AGES Fear the Live/Dead Surgery 2019

10 Steps for Pelvic Dissection

Course Program

0715 – 0745: Registration

0745 – 0810: Welcome - **Dr Michael Wynn-Williams**
MERF Donor Program - **MERF Technician**
Aims and Introduction to Anatomical dissection - **Dr Michael Wynn-Williams**
Pre-workshop exam – **Dr Nancy Peters**

***Your own smart phone is required*

Workshop consisting of 2 sessions; Lectures and video presentations, followed by interactive rotational dissection, 3 surgeons per table (180 mins)

0810 – 1230: SESSION 1

0810 – 0825: Lecture 1. Abdomen and Pelvis - **Dr Jessica Robertson**
Lecture – anterior abdominal wall, skeletal spine and pelvis, surface landmarks, variations (BMI, previous surgery), entry sites, the uterus and ovaries

0825 – 0840: Lecture 2. Pelvic Anatomical and Surgical Spaces – **Dr Sarah Choi**
Lecture – anatomical vs surgical dissection, deep sidewall in surgical context, surgical spaces, first, second & third surgical layers of the pelvic sidewall

0840 – 0855: Lecture 3. Pelvic Vessels, Nerves & Ureter - **Dr Michael Wynn-Williams**
Lecture – pelvic sidewall vessels, ureter – course and anatomy, lateral and medial approach to the pelvic sidewall. Internal iliac artery anterior division, hypogastric plexus and nerves

0855 – 0910: Lecture 4. Deep lateral sidewall and associations - **Dr Albert Jung**
Lecture – obturator space, obturator nerve, psoas muscle, genitofemoral nerve, inguinal canal, femoral neurovascular bundle, pudendal bundle and sciatic nerve, external iliac and branches

0910 – 0930: Morning Tea

0930 – 1230: Dissection Session
3 surgeons per table, rotating roles every 15 minutes – an alarm will sound

1230 – 1300: Lunch

1300 – 1730: SESSION 2

1300 – 1315: Lecture 5. Bladder and pelvic floor anatomy - **Dr Danny Chou**
Lecture – bladder anatomy, vesicovaginal space, retropubic space (of Retzius), Cooper's ligament, white line, Pelvic floor – levator ani

1315 – 1330: Lecture 6. Bowel anatomy – **Dr Nicholas Lutton**
Lecture – bowel anatomy, inferior mesenteric artery, aortic bifurcation, middle sacral artery, rectosigmoid and vasculature, caecum and appendix

1330 – 1645: Dissection Session
3 surgeons per table, rotating roles every 15 minutes – an alarm will sound

1645 – 1730: Debrief and close - **Dr Michael Wynn-Williams**
Debrief, post-workshop exam – **Dr Nancy Peters**

***Your own smart phone is required*

1730: Close of workshop
