Laparoscopic Pelvic Anatomy Dissection Workshop

Workshop Convenor:
Dr Michael Wynn-Williams
MBChB, FRANZCOG

Applied for RANZCOG CPD points

Contents

Faculty

Dr Michael Wynn-Williams MBChB, FRANZCOG
Gynaecologist / Advanced Laparoscopic Surgeon

Dr Danny Chou, MBBS FRANZCOG
Gynaecologist / Advanced Laparoscopic Surgeon

Target Audience:

RANZCOG Trainees (senior registrars) and Fellows

Venue

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

Course Program

0715 – 0745:	Registration
0745 – 0810:	Welcome MERF Donor Program Aims and Introduction to Anatomical dissection Pre-workshop exam *** Your own smart phone is required*

Workshop consisting of 2 sessions, Lectures and video presentations (60 min) followed by interactive rotational dissection, 3 surgeons per table (180 mins)

0810 – 1230:	SESSION 1
0810 – 0825:	Lecture 1. Abdomen and Pelvis ***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 ***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 ***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 ***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 – 1700:	SESSION 2
1300 – 1315:	Lecture 5. Bladder and pelvic floor anatomy ***Lecture** – bladder anatomy, vesicovaginal space, retropubic space (of Retzius), Cooper's ligament, white line, Pelvic floor – levator ani*
1315 – 1330:	Lecture 6. Bowel anatomy ***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 Debrief, post-workshop exam ***Your own smart phone is required*

1730:	Close of workshop