



ICS Institute School of Modern Technology

2nd  
**FUNCTIONAL UROLOGIC  
SURGERY COURSE**

WITH

**3D PRINTED MODELS AND  
FRESH-FROZEN CADAVERS**

**21-22 June 2019 / İZMİR**



**MEDICAL 3D PRINTING & SIMULATION**

### TOPICS

- Fine pelvic dissection in male/female (bladder, prostate, rectum, pelvic plexus and vascular part)
- Male urethral dissection, sling and AUS procedures in post-prostatectomy
- Urethral support in female pelvic floor
- Anatomic tips and tricks for sacrocolpopexy
- Anatomic tips and tricks for sacral neuromodulation

### COURSE MENTORS



**Sherif Mourad**

MD , Professor of Urology  
Ain Shams University, Cairo, Egypt  
ICS General Secretary



**Emre Huri**

MD-PhD, Associate Professor of Urology  
Hacettepe University, Faculty of Medicine, Urology Department  
Director- ICS School of Modern Technology

### TARGET POPULATION FOR THE COURSE

- Urologists
- Gynecologists
- Urogynecologists
- Reconstructive Pelvic Floor Surgeons



**Alex Digesu**

MD, PhD  
Consultant in Obstetrics & Gynaecology  
Member, ICS Board of Trustees  
Urogynaecology Subspecialist



**Yasser Farahat**

MD,PhD,FEBU, FRCS  
Professor of Urology  
Senior Consultant at Shaikh Khalifa Hospital-UAE  
Secretary General of Arab Association of Urology

### Venue:

Ege University, Faculty of Medicine,  
Department of Anatomy, Izmir / TURKEY

### Contact:

[info@eraorganization.org](mailto:info@eraorganization.org)



**ICS Institute School of Modern Technology**

2 nd FUNCTIONAL UROLOGIC SURGERY  
COURSE WITH  
3D PRINTED MODELS AND  
FRESH-FROZEN CADAVERS

ADVANCED MASTERCLASS ON ANATOMY AND  
SURGERY USING  
3D-PRINTED MODELS AND FRESH-FROZEN  
CADAVERS

In Collaboration with ICS Institute  
School of Modern Technology

**21-22 June 2019 İZMİR**

**Course Venue:**  
**Ege University, Faculty of Medicine, Anatomy Lab.**

**Course Directors and Trainers:**

**Alex DIGESU**, MD-PhD, Urogynecology Subspecialist  
**Yasser FARAHAT**, MD-PhD, FEBU, FRCS, Professor of Urology  
**Emre HURİ**, MD-PhD, FEBU, Urologist-Anatomist, Associate Professor of Urology  
**Sherif MOURAD**, MD-PhD, Professor of Urology

**Anatomy Supervisor and Trainer:**

**Okan BİLGE**, MD, Anatomist, Professor of Anatomy  
**İlkan TATAR**, MD, Anatomist, Associate Professor of Anatomy  
**Servet ÇELİK**, MD, Anatomist, Associate Professor of Anatomy  
**İlker SELÇUK**, MD, Gynecologic Oncologist; PhD Researcher, Anatomy  
**Özgür YENİEL**, MD, Gynecologist, Associate Professor of Gynecology

**Course Overview/Scope:**

Learning and teaching activities of surgical procedures on female and male pelvic anatomic/functional pathologies, technical tips and tricks, usage of technologic tools, anatomic pelvic dissection and pelvic organ identifications, materials for surgery, complications and problem solving, 3D printed models and interactive discussions

**Aims and topics:**

In male/female pelvic region:

- Detailed pelvic anatomic dissection with endo-assisted camera/head-mounted camera
- Male urethral dissection, reconstructive procedures, sling and AUS implantation
- Female urethral support surgery and vaginal dissection based on anterior-posterior part
- Tips and tricks of prolapse surgery (Sacrocolpopexy, Sacrohysteropexy, Sacrospinous ligament fixation, native tissue vaginal prolapse repair)
- Tips and tricks of SNS (Sacral Neuromodulation)-anatomy based training for beginners

All activities (theoretical, practical/hands-on training, surgical videos) will provide high-level fundamental scientific background on pelvic functional surgery to the urologists/urogynecologists who are interested in this field.

**Target Group**

Urologists  
Gynecologists  
Urogynecologists  
Reconstructive pelvic floor surgeons

**Participants: 25-30 (max. 4 station)**

**Endorsement:** In collaboration with ICS Institute – School of Modern Technology

**Financial Situation:** In this course, there will be no advertisement of specific products, the products only used for academic aims in cadaveric surgeries. Course designed as non-profit status.

**Intellectual Outcomes:** All dissections and surgical procedures on cadavers will be recorded for ICS TV as educational material and training activity of School of Modern Technology. The evaluation forms will be filled by participants at the end of the course.

## **PROGRAMME / 21 June 2019, Friday**

09.00-09.30 Registration and Opening Ceremony - Emre HURİ, Sherif MOURAD

### **I. Theoretical/Audio-visual Session: Female Pelvic Part (160 minutes)**

09:30 - 09:50 3D urogynecologic pelvic anatomy in female - İlkan TATAR

09:50 - 10:10 Anti-incontinence surgery: step by step TOT procedure - Sherif MOURAD

10:10 - 10:30 Pain after continence surgery: approach to painful patient - Alex DIGESU

10:30 - 10:50 Single incision sling: strengths and weakness - Yasser FARAHAHAT

### **10:50 - 11:10 Coffee Break**

11:10 - 11:30 Anti-incontinence surgery and surgical training: viewpoint of uroanatomy and functional uro-technology - Emre HURİ

11:30 - 11:50 Novel materials and technologic tools: Bulking agents and botox applications - Sherif MOURAD

11:50 - 12:10 Surgical anatomy of obturator fossa, sacral promontory and ischial spine - Alex DIGESU

12:10 - 12:30 Anatomic dissections in vesicovaginal fistula repair: tips and tricks with or without flap - Sherif MOURAD

### **12:30 - 13:30 Lunch**

### **II. Theoretical/Audio-visual Session: Male Pelvic Part (160 minutes)**

13:30 - 13:50 Detailed surgical pelvic and perineal anatomy in male case: from skin to pelvis - Okan BİLGE

13:50 - 14:10 Post-prostatectomy incontinence and anti-cholinergic therapy: anatomic and pathophysiologic reasons - Emre HURİ

14:10 - 14:30 Anti-incontinence surgery: retropubic sling approach and urethral reposition - Sherif MOURAD

### **14:30 - 14:50 Coffee Break**

14:50 - 15:10 Anti-incontinence surgery: transobturator sling approach and adjustment of urethral support- Emre HURİ

15:10 - 15:30 AUS implantation: anatomic and technical tips and tricks- Yasser FARAHAHAT

15:30 - 15:50 Neuromodulation for beginners - Alex DIGESU

15:50 - 16:10 Practical interactive surgical discussion with cadaveric dissection videos - İlker SELÇUK

### **19:00 Course Dinner**

## 22 June 2019, Saturday

### Hands-on Cadaveric Training and Practice with 3D Models (330 minutes):

09.30-12.30 Dissection

#### Cadaveric Dissection Supervisors and Trainers

|                  |              |              |
|------------------|--------------|--------------|
| Sherif MOURAD    | Okan BİLGE   | İlker SELÇUK |
| Alex DİGESU      | Servet ÇELİK | Özgür YENİEL |
| Emre HURİ        | İlkan TATAR  |              |
| Yasser FARAHAHAT |              |              |

#### AİM

- Surgical anatomy-based dissection on fresh-frozen cadavers
- Anatomic landmarks and relevant important structures
- All participants will gain experience on pelvic-perineal surgical anatomy with senior directed self-dissections on fresh-frozen cadavers
- 3D Printed female pelvic model for surgical anatomy and surgical procedures

#### Male/Female Anatomy (Pelvis, pelvic floor and perineal anatomy)

|   |  |
|---|--|
| Urogenital organs<br>Bladder, urethra,<br>Prostate<br>Endopelvic fascia<br>Uterus, ovary, uterine tube<br>Ligaments | Retroperitoneal anatomy<br>Major vessels<br>Ureter<br>Obturator fossa and foramen<br>Pelvic somatic and autonomic nerves |
|---|--|

#### Surgical Procedures

- Anti-incontinence surgery
  - Retropubic and trans-obturator approaches
- Transvaginal tape and transobturator tape procedures (TVT, TOT)
- Mini-slings
  - Adjustable male sling
  - Urethral reposition
  - AUS implantation
  - Anterior/Posterior vaginal tissue dissection
  - Vesico-vaginal fistula repairment
  - TVT and TOT procedures on 3D Printed pelvic model
  - Simulation based surgical training
  - TUR-Prostat Simulator
  - TUR-Bladder Simulator

#### 12:30-13:30 Lunch

13:30-16:00 Dissection

16:00-16:30 Course evaluation

#### 16:30 Closing remarks and certification ceremony