

# Robotic Radical Prostatectomy Course on 3D Printed Models

29-30 April 2025, Tuesday & Wednesday

Venue: RMK AIMES\*, Istanbul, Turkey

\*RMK AIMES: Rahmi M. Koç Academy of Interventional Medicine, Education and Simulation

## AIMS AND OBJECTIVES;

Introducing components of Da Vinci surgical robotic system, lectures and video presentations on robotic radical prostatectomy with NVB sparing and extended pelvic LN dissection, practicing with Da Vinci robotic simulators and performing robotic radical prostatectomy with NVB sparing on 3D printed models.

## COURSE CONTENT:

- Lectures on components of Da Vinci surgical robotic system
- Lectures on robotic instruments used
- Video presentations on robotic radical prostatectomy
- Training on Da Vinci robotic simulators
- Hands-on training on 3D printed models

## FACULTY:



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**Dr. Yılmaz Aslan**

Professor of Urology  
Medicana Ataköy Hospital  
Department of Urology  
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# PROGRAM

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## 29 April 2025, Tuesday

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- 09:00-12:00 **Video presentations & lectures of step by step surgical techniques with tips & tricks:**
- Posterior approach robotic radical prostatectomy
  - Neuromuscular bundle (NVB) sparing: complete / partial, interfascial / intrafascial
  - Bladder neck sparing
  - Presence of a median lobe
  - Previous TURP/laser prostatectomy/open prostatectomy history
  - Bladder neck reconstruction
  - Previous radiotherapy for prostate cancer
  - Posterior & anterior reconstruction
  - Urethro-vesical anastomosis
  - Extended pelvic lymph node dissection & ICG application (Koç University Hospital experience)
  - Management of surgical complications
  - Using 3D VR tumor navigation during robotic radical prostatectomy (Koç University Hospital experience)
  - Neurosafe robotic radical prostatectomy (Koç University Hospital experience)
  - Hemostatic agent application on preserved NVBs for sufficient hemostasis (Koç University Hospital experience)
  - Low pressure robotic prostate cancer surgery (Outcomes Koç University Hospital prospective, randomized study)
  - How to use the 4<sup>th</sup> arm efficiently
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12:00-12:30 **Lunch Break**

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- 12:30-16:30 **Hands-on training with Da Vinci robotic simulators**  
HANDS-ON TRAINING ON 3D PRINTED PROSTATE MODELS TO PERFORM ROBOTIC RADICAL PROSTATECTOMY WITH DA VINCI SURGICAL ROBOTIC SYSTEM  
**STEPS TO BE PERFORMED ON 3D PRINTED MODELS:**
- Using 4 robotic ports & arms and 1 assistant port & robot docking
  - Identification & dissection of seminal vesicles and vas deferences
  - Periprostatic fat tissue dissection & excision
  - Cutting pubo-prostatic ligaments
  - Identification of deep dorsal vein and suturing
  - Identification, dissection & cutting bladder neck (with bladder neck preservation)
  - Dissecting the the plane between prostate and bladder
  - Identification predissected seminal vesicles and vas deferences
  - Prostatic pedicle identification, dissection & applying endoclip and cutting
  - Neuro-vascular bundles (NVBs) identification, dissection & preservation
  - Prostatic apex dissection and cutting deep dorsal vein
  - Completion of prostatectomy
  - Performing urethro-vesical anastomosis
  - -How to use the 4<sup>th</sup> arm efficiently
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16:30-17:00 **Closing remarks & presenting certificates**

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## 30 April 2025, Wednesday

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Live case observation in the operating room

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**There will be 2 participants per 1 prostate 3D printed model**

**Course registration fee for participant: 1500 USD**

*(includes tax, training materials, meals & coffee breaks, 2 nights stay at Koç University Hospital accommodation & dinner with faculty)*

Please send an e-mail for more details to register: [info@aimes.org](mailto:info@aimes.org)

## Surgical Steps

**Video:** RARP training  
combined Urotrainer  
model & live case



Identification & dissection of seminal vesicles and vas deferences



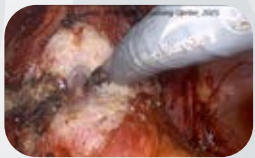
Periprostatic fat tissue dissection & excision



Cutting pubo-prostatic ligaments



Identification of deep dorsal vein and suturing



Identification, dissection & cutting bladder neck (with bladder neck preservation)



Dissecting the the plane between prostate and bladder



Identification pre-dissected seminal vesicles and vas deferences



Prostatic pedicle identification, dissection & applying endoclip and cutting & Neuro-vascular bundles (NVBs) identification, dissection & preservation



Prostatic apex dissection and cutting deep dorsal vein



Performing urethro-vesical anastomosis

