ROBOTIC SURGERY BASIC/STRUCTURED COURSE

Alexander Mottrie
Alessandro Larcher
### MODULE A - INTENSIVE SIMULATION COURSE

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
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<tbody>
<tr>
<td>simulation in ORSI</td>
<td>case observation in OLV</td>
<td>Simulation in ORSI</td>
</tr>
</tbody>
</table>
MODULE A - INTENSIVE SIMULATION COURSE
Day 1 - simulation in ORSI  Day 2 - case observation in OLV  Day 3 - Simulation in ORSI

MODULE B
2 weeks training at host center

MODULE C - INTENSIVE SIMULATION COURSE
Day 1 - simulation in ORSI  Day 2 - case observation in OLV  Day 3 - Simulation in ORSI
Pilot Validation Study of the European Association of Urology Robotic Training Curriculum

12-week program - 10 surgeons involved

Volpe et al. - European Urology 2015
INTENSIVE SIMULATION-BASED TRAINING

BASELINE EVALUATION

1. Camera Targeting II
2. Match Board
3. Energy Switching II
4. Ring walk
5. Tubes

FINAL EVALUATION
## INTENSIVE SIMULATION-BASED TRAINING

### Baseline Evaluation

- **A** E-learning module
- **B** Operating room observation (bedside-console)
- **C** SIMULATION-BASED TRAINING (1-wk intensive course)
- **D** Virtual reality simulation
- **E** Transition (Video)
- **F**

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## INTENSIVE SIMULATION-BASED TRAINING

### BASELINE EVALUATION

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<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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<tr>
<td></td>
<td>E-learning module</td>
<td>Operating room observation (bedside-console)</td>
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<tr>
<td></td>
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<td>SIMULATION-BASED TRAINING (1-wk intensive course)</td>
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<tr>
<td></td>
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<td>Dry lab</td>
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DAY A1 - INTRODUCTION AND DRY LAB

Morning
1. Introduction
2. Intuitive course session
3. Baseline skill assessment

Afternoon
1. Dry lab anastomosis
2. Chicken anastomosis model
DAY A3 - PORCINE MODEL

Radical prostatectomy
- Endopelvic fascia incision and pre-prostatic adipose tissue removal
- Bladder neck incision
- Seminal vesicles identification and dissection
- Denonviller's fascia detachment and sparing
- Urethro-vescical anastomosis

Plevic Lymphadenectomy
- Dissection of plevic arteries and veins
- Fat tissue removal

Ureter re-implantation
- Ureter isolation and section
- Uretrovescical anastomosis

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DAY C1 - CANINE MODEL

Radical prostatectomy
- Endopelvic fascia incision and pre-prostatic adipose tissue removal
- Bladder neck incision
- Ductus deferentes identification and section
- Denonviller’s fascia detachment and sparing
- Prostatic vascular pedicles sparing
- Urethro-vescical anastomosis

Plevic Lymphadenectomy
- Dissection of plevic arteries and veins
- Fat tissue removal

Ureter re-implantation
- Ureter isolation and section
- Uretrovescical anastomosis
DAY C3 - PORCINE MODEL

Radical prostatectomy
- Endopelvic fascia incision and pre-prostatic adipose tissue removal
- Bladder neck incision
- Seminal vesicles identification and dissection
- Denonviller’s fascia detachment and sparing
- Urethro-vescical anastomosis

Plevic Lymphadenectomy
- Dissection of plevic arteries and veins
- Fat tissue removal

Ureter re-implantation
- Ureter isolation and section
- Uretrovescical anastomosis
WHY?

Laparoscopic radical prostatectomy

Open radical prostatectomy

DAY 5 - FINAL EVALUATION AND CERTIFICATION

Oxford Academic

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SAFETY

- Comunication and non-technical skills
- Protection device(s)
- Needle management
- Equipment management
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