

SURGICAL SCIENCE LAP SIM

(3 σταθμοί)



Κλινικά τεκμηριωμένος
λαπαροσκοπικός ψηφιακός
προσομοιωτής που διαθέτει το
πιο ολοκληρωμένο εκπαιδευτικό
πρόγραμμα (βασικές λαπ/κές
δεξιότητες και πλήρεις
προηγμένες λαπ/κές ουρολογικές
χειρουργικές επεμβάσεις).



BoxLap (3 σταθμοί)

Ολοκληρωμένο σύστημα επέκτασης δεξιοτήτων Λαπαροσκοπικής Χειρουργικής, ξεκινώντας από τις βασικές (*προσανατολισμό στο χώρο, συντονισμό αριστερού/δεξιού χεριού, αντίληψη βάθους πεδίου, εξοικείωση στην εκτέλεση λαπαροσκοπικών χειρισμών με ακρίβεια*) και συνεχίζοντας σταδιακά στις προηγμένες (*λαπαροσκοπική συρραφή, χειρισμός/προσανατολισμός βελόνης σε λαπαροσκοπικό περιβάλλον, διενέργεια ενδοσωματικών κόμπων, συνεχείς/μεμονωμένες λαπαροσκοπικές ραφές*). Διαθέτει ενσωματωμένη κάμερα και ειδικές οπές/ports για τοποθέτηση trocar για χρήση ενδοσκοπικών εργαλείων και λαβίδων.



SIMENDO Laparoscopy (1 σταθμός)

Εκπαίδευση βασικών λαπ/κών δεξιοτήτων σε ψηφιακό προσομοιωτή με αναφορά επίδοσης και δυνατότητα εύκολης μεταφοράς του σε σκληρό βαλιτσάκι.

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Novice

The novice curriculum is designed for trainees with none or little laparoscopic experience. The trainee will obtain the first basic laparoscopic skills step-by-step. In this curriculum the trainee will work in a friendly training environment that fully focuses on instrument handling.

SIMENDO certifying skills

Exercise overview

- Pick up & drop**
Learns the first essential skills by picking up the marbles and dropping them in the holes.
- Slide & drop**
Push away the box sliders to create work space and place the marbles in the hidden space underneath.
- Clip a vessel**
Safely clip a vessel on four different locations. Both sides of the clip must be visible before clipping to make sure that the vessel is fully closed.
- Ring & needle**
Learns how to manipulate, position and rotate a curved needle. Also learn how to rotate the wrist needed for stitching to avoid collateral damage.
- Single knot**
Learns the basic principles of tying a single knot. Try to minimize vertical movement of the beam by closing the foot as horizontal as possible.

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Intermediate

This curriculum is a follow up of the novice curriculum. It is designed for starting laparoscopic surgeons and for those who finished the novice curriculum. The trainee will obtain the most important skills to perform a laparoscopic operation. All exercises are simulating skills that are commonly performed during an operation. After finishing this exercise the trainee is ready to assist a general laparoscopic operation under supervision of an expert, or train on a cadaver or pig.

SIMENDO certifying skills

Exercise overview

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Bimanual fundamentals

This curriculum is essential to improve the bimanual fundamental skills up to a high level. The trainee will be challenged with various difficult laparoscopic techniques, interact with both instruments and work safely at the same time. The trainee will learn to work precise, with minimal movement for efficient and safe surgery. Another important learning factor in this curriculum is manipulating the orientation of objects and to place them correctly. After finishing this curriculum the trainee has become highly skilled in handling laparoscopic instruments.

SIMENDO certifying skills

Exercise overview

- Sort the rings**
Place the dominos in the right container.
- Stretch & transfer**
Place the tube around the pillars at the corners. Now stretch the tube to create more space and transfer the cylinders.
- Tube & ring**
Maneuver the tube through the rings in the right direction.
- Puzzle**
Place the puzzle pieces in the right spot by manipulating and rotating the piece with both instruments.
- Balance**
Keep the scale balanced while placing weights on each side. When placing a new weight support the other side of the scale with an instrument to keep the scale balanced.



ODYSSEUS

(1 σταθμός)

Ολοκληρωμένο σύστημα βελτίωσης δεξιοτήτων Λαπαροσκοπικής Χειρουργικής και συντονισμό χεριού-ματιού, από συμπαγή κατασκευή που προσομοιώνει τον ανθρώπινο κορμό με ειδικές οπές/ports εκατέρωθεν της μέσης γραμμής για τοποθέτηση trocar 5/ & 12 mm για χρήση ενδοσκοπικών εργαλείων (λαβίδων, ενδοσκοπικής κάμερας, πιθανή χρήση ενδοσκοπικών κοπτοραπτών) και μεγάλη εσοχή στο κάτω μέρος για την είσοδο των διαφόρων ασκήσεων.