

PickUpSim[™]



**SIMULATOR OF THE
EGG RETRIEVAL PROCEDURE**

PickUpSim™

PickUpSim™ is an innovative, high fidelity system for the simulation of the human ovum collection procedure in the context of assisted human reproduction. The simulator includes a haptic feedback system and a virtual ultrasound monitor.



FEATURES

- Haptic feedback
- Simulation of the deformation imposed by the needle on the soft tissues
- Simulation of follicle emptying and re-filling
- Scenarios based on real clinical images
- Automatic scoring system
- Summaries for learners and instructors, containing metrics on duration and cases completed

Simulation of **PickUpSim™** enables hands-on procedural training and permits, thanks to the haptic feedback, simulation of the resistance to penetration of the soft tissues traversed by the Ovum Aspiration Needle, in particular the ovarian surface and the ovarian follicle.

ULTRASOUND MONITORING INCLUDES

- Monitoring of the procedure by a simulated ultrasound monitor
- Real-time simulation of emptying and re-filling of the follicles



EXERCISE & SIMULATIONS

- The user can practice and develop competency using simulation scenarios based on real clinical images.
- The scenarios available take into account:
 - The proper movements to reach the target follicles.
 - The proper suction and washing timing.
 - The avoidance of critical anatomical structures.
- At the end of the procedure, an indicative global score will be given to the user based on his performance.



External LCD Display

The external LCD 27" monitor lets you isolate the ultrasound view bringing more realism to your simulation scenario.

PERMITTED MOVEMENTS & ULTRASOUND MONITORING

- Needle movements are allowed both in the forward and in the backward direction.
- It is possible to move the ultrasound probe in the sagittal plane and to observe a coherent and real-time modification of the scene (allowing the user to investigate the volume of the follicles and to choose the proper entry plane for the needle).
- It is possible to rotate the ultrasound probe and to get a transverse view (to allow the user to investigate blood vessels and to differentiate vessels from follicles).
- Simulated aspiration of follicles driven by a foot pedal pump.
- Possibility to puncture the vessels (arteries or veins).
- It is possible to fill the test tube with the follicular fluid.
- As an advanced setting, the user can also modify the physics of the environment and modify the visibility of the needle to create more challenging scenarios.



Control

The intuitive control software runs on a laptop/PC.

THE PICKUPSIM INCLUDES:

- PICKUPSIM™ main white box including a real pick-up needle and a simulated transvaginal ultrasound probe.
- 1 Simulated aspiration pump pedal.
- Laptop with pre-installed PICKUPSIM™ software (7 clinical cases).
- LCD 27" monitor.
- User manual (softcopy).
- Installation support and remote training.



ADVANCED CLINICAL CASE PACKAGE (Optional PKS03):

New advanced clinical case package that includes 3 extra cases regarding hyperstimulation, endometriosis, lateral follicle distribution.

CLINICAL USE DISCLAIMER: *PickUpSim™ is licensed for use for education and training purpose only and not intended for clinical use.*



REVOLUTIONIZING MEDICAL TRAINING WITH CUTTING EDGE SIMULATORS

Maverick Simulation Solutions Ltd. is a trusted medical simulation company advancing healthcare education through the design, manufacturing, and deployment of state-of-the-art simulators. Led by experts across engineering and clinical domains, we deliver innovations that measurably improve training quality, learner competency, and patient safety.

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