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# PICKUPSIM™

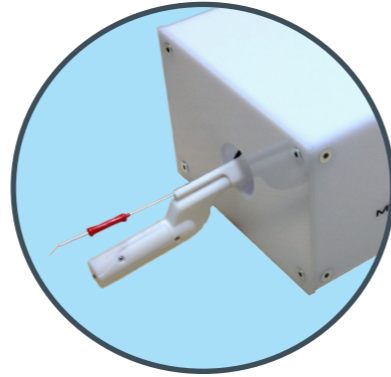
Simulator of the egg retrieval procedure with haptic feedback and virtual reality

# 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 an haptic feedback system and a virtual ultrasound monitor.

The main technical features of the PickUpSim include:

- **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**



PickUpSim™ enables hands-on procedural training and permits, thanks to its 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.

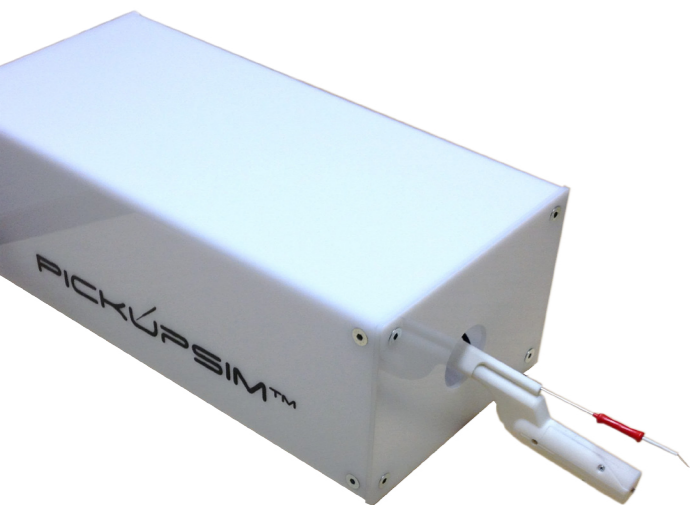
**Ultrasound Monitoring** includes:

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

**Permitted Movements and 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 (in order 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 touch the vessels (arteries or veins)
- It is possible to fill the test tube with the follicular fluid
- The user can also (as advanced settings) modify the physics of the environment and modify the visibility of the needle in order to create more challenging scenarios



## Control

The intuitive control software runs on instructor PC with a wide-view (15.6") LED backlight display.

## 2 Years Warranty

The PickUpSim™ includes:

- PickUpSim main white box
- Instructor notebook
- External LCD Display
- Transport case
- Manual
- Free updates

PickUpSim™ is a product from Accurate, a company blending international experience, scientific research, engineering and development of truly effective hi-tech educational solutions in the medical field.

## Exercise and 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

A user's performance can be evaluated on all the above aspects.

## OPTION PKS03: Advanced Clinical Case Package

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

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For further information, check our website  
<http://pickupsim accuratesolutions.eu/>

## External LCD Display

The external virtual monitor is able to display real ultrasound images.

