

## CUSTOMER REFERENCES

"We find Simball® Box an exciting new training tool with potential to make surgeon training more effective and measurable. With these objective measurements we can better evaluate the performance of the students. We intend to use Simball® Box in future courses".

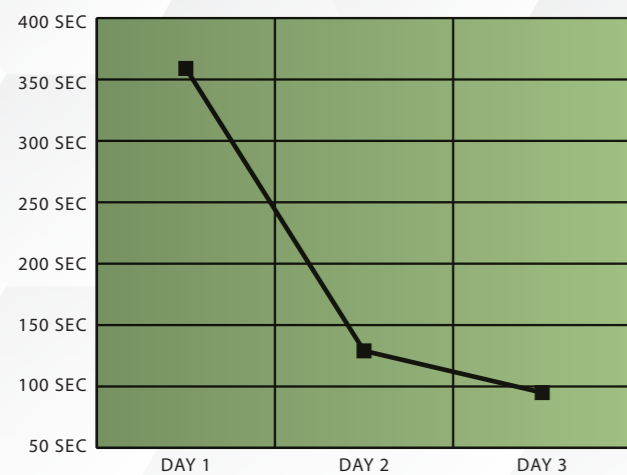
Ann Kjellin, Consultant Surgeon & Director CAMST Training Centre at Karolinska, Stockholm, Sweden

"This is very attractive and realistic training for both young as well as senior surgeons. There is a urgent need to enhance surgical training level."

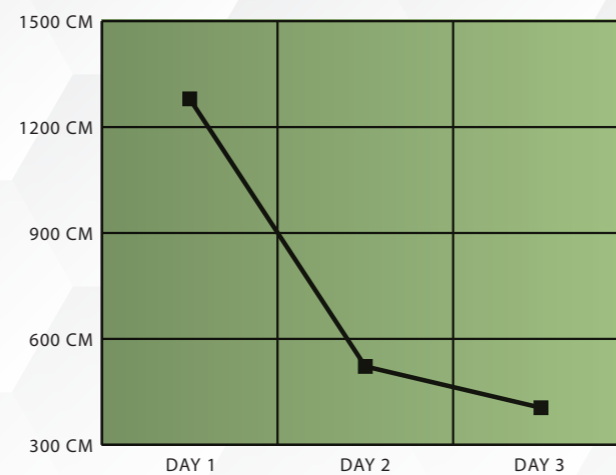
Gunnar Henriksson, Consultant Surgeon at Skövde Hospital, Sweden

## CLINICAL STUDY: SIMBALL® BOX A PROMISING TOOL

Residents attending a 3-day laparoscopy course were evaluated performing a laparoscopic surgical knot at the start, middle and end of the course. Feedback data was presented in reference to expert/tutorial performance.

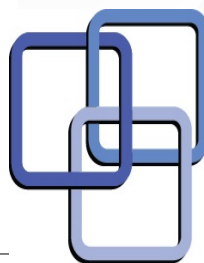


Median time to finish the task decreased from 359 to 129 to 95 seconds.



Combined median total instrument motion decreased from 1208 to 522 to 405 cm.

"Simball® Box for Laparoscopic Training With Advanced 4D Motion Analysis of Skills. KRISTINE HAGELSTEEN, DAN SEVONIUS, ANDERS BERGENFELZ, MIKAEL EKELUND Surgical Innovation Vol. 23, Issue 3, pp. 309 – 316, 2016



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# SIMBALL® BOX

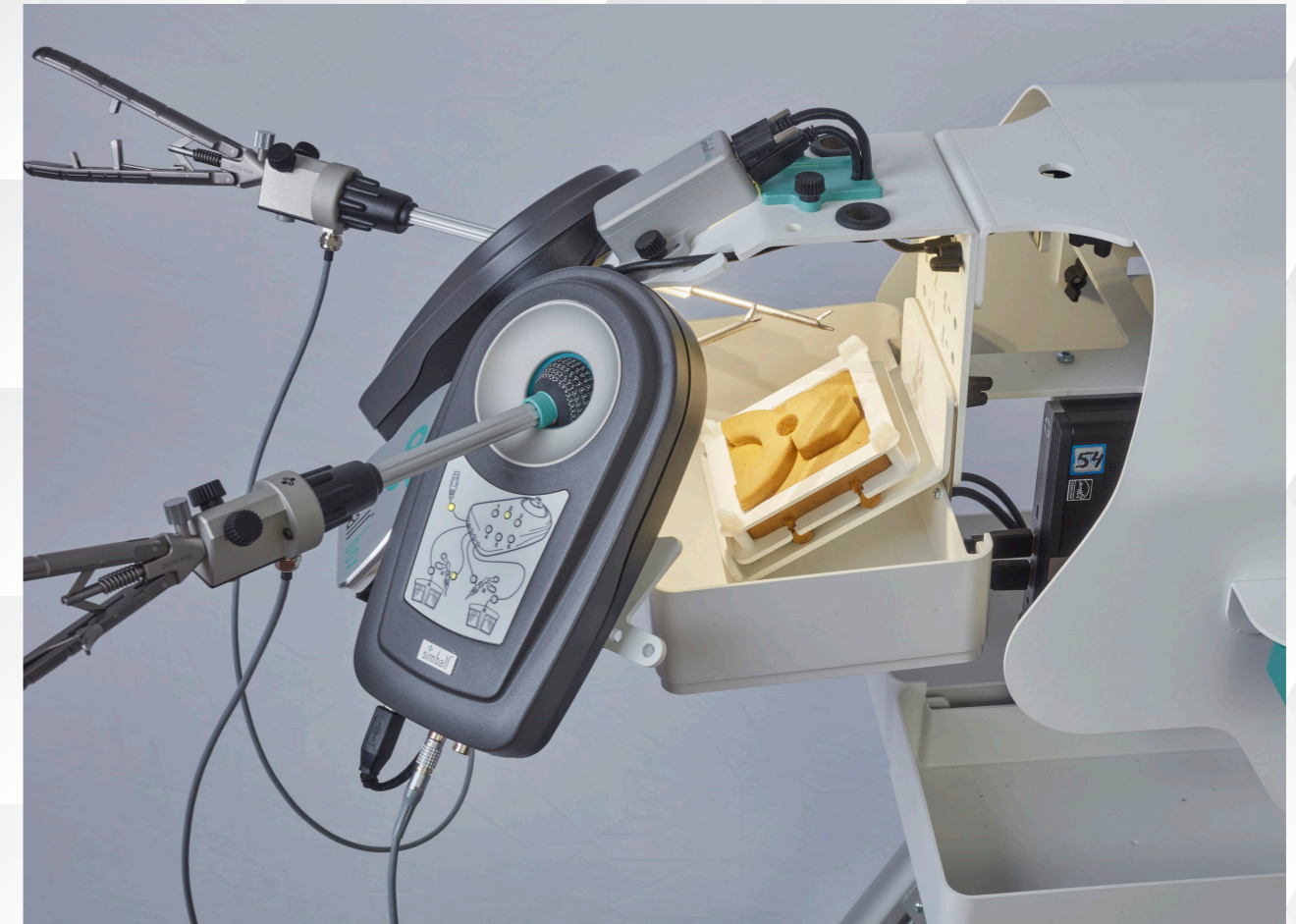
## MASTERING THE ELEMENTS OF LAPAROSCOPY

surgicalsience





## MODELS WITH A TRUE TISSUE SENSE FOR SUTURING AND GRASPER TRAINING



## OBJECTIVE FEEDBACK WITH REAL INSTRUMENTS

Simball® Box offers surgeons and resident physicians the opportunity to train with their preferred OR instruments and get a sense of the counter-intuitive movements, limited space awareness and reduced tactile feedback that constitute some of the characteristics of laparoscopy.

Simball® Box is equipped with a high definition camera and advanced instrument-tracking that provide important feedback. The datapoints, which are visualized in convenient diagrams, show the economy of movement with a focus on the distance covered by the instruments, making it easy to objectively assess the residents level of proficiency.

### PATIENT SAFETY FIRST

Mastering the basic skills of laparoscopy, before entering the operating theater for the first time, instills confidence in the resident surgeon. Practicing the key skills of laparoscopy reduces the risk of resident physicians making medical errors. The end result translates to fewer adverse events experienced by the patient and lower recovery costs.

### SAFE AND EFFECTIVE LAPAROSCOPY

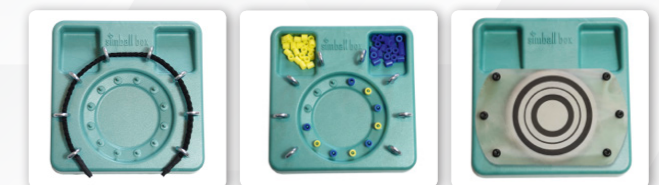
Simball® Box is an educational tool that offer a way for surgeons and resident physicians to learn laparoscopic techniques in a safe environment. With the help of tutorial task videos, residents will get familiarized with different techniques that can be practiced in preparation for their first real patients.

### KEY FEATURES:

- Real instruments that are easy to connect.
- High-class models for suturing and grasper training.
- Economy of movement with instrument tracking.
- Data visualized in convenient diagrams.
- Easy to plot learning curves and benchmark performance.
- Benchmarking in relation to expert level performance.
- Real-time visual feedback.
- Structured learning with video tutorials and intuitive user interface.
- Objective assessment and certification.
- Robust and user-friendly.

### AVAILABLE EXERCISES FOR SIMBALL® BOX

#### BASIC SKILLS TASKS



ROPE RACE

PEG PICKER

PRECISION CUTTING

#### SUTURING TASKS



BASAL SUTURING

GASTRIC BYPASS, GE AND EA

VAGINAL CUFF CLOSURE