



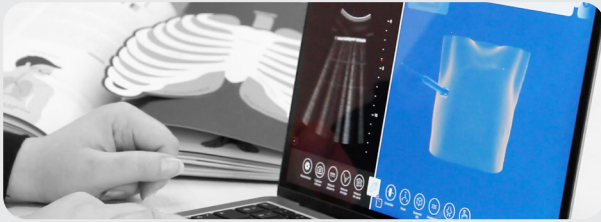
Accessible high-fidelity
medical simulation

INSIMO CATALOG

A classroom setting where students are using medical simulation software. A large screen at the front displays a 3D anatomical model of a human torso with internal organs highlighted. Several students are seated at desks, each with a laptop showing similar simulation software. A whiteboard on the right side of the room contains handwritten text, including a URL: <https://elude-dav3d>.

We democratize
**high-fidelity medical
simulation** for a more
accessible and safer
healthcare

Our high-fidelity simulators



diSplay U/S

06

Ultrasound

Accessible online, no equipment needed

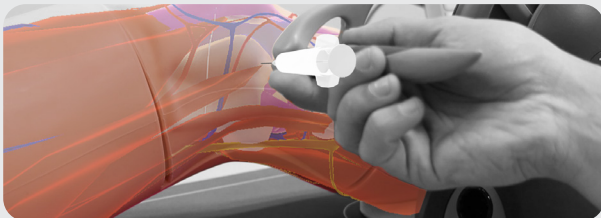


Sim&Care | Chest

08

Thoracentesis

Augmented reality, force feedback

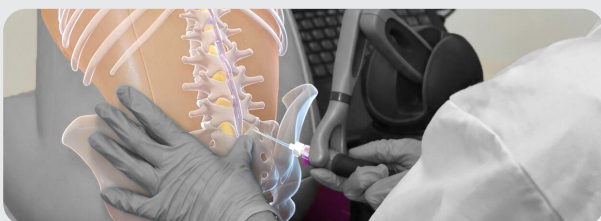


Sim&Care | Knee

10

Knee arthrocentesis & injection

Augmented reality, force feedback

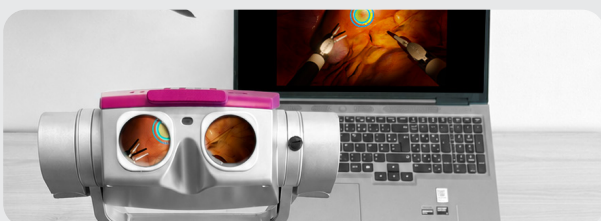


Sim&Care | Spine

12

Lumbar puncture

Augmented reality, force feedback



ROBOTiS

14

Robotic surgery

High-fidelity, generic, portable

Our expertise in **biomechanical simulation** at the service of **medical training**



2013

Creation of InSimo

By members of Inria (French National Institute for Research in Digital Science and Technology)

InSimo & HelpMeSee

Start of the cataract surgery simulator development

2019

Sim&Care | Spine

Launch of the lumbar puncture simulator in augmented reality in collaboration with Strasbourg University Hospitals

2020

diSplay U/S

Launch of the online ultrasound simulator to rapidly train caregivers in lung ultrasound for COVID-19 diagnosis

Sim&Care | Spine

Winner of the Innovation Awards from the Grand Est region

InSimo & Lilly

Lumbar puncture training on Sim&Care in all French hospitals

About InSimo

WE CARE FOR SIMULATION

InSimo has been developing medical simulation software for **surgical training and medical procedures** since 2013 in Strasbourg.

“Never the first time on a patient.” This is the aim of educational healthcare simulation: to provide training modalities to medical students allowing them to practice and gain experience without any risk for the patient.

As an Inria spinoff located in the heart of the **University Hospitals of Strasbourg**, InSimo’s expertise in interactive biomechanical simulation is complemented with multiple collaborations with the medical world.

OUR DISTRIBUTORS

Discover InSimo simulators worldwide through our network of dedicated experts. Is your country not yet covered by one of our distributors? Contact us to learn more!

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Simulcare
Improve your skills

Italy
simulcare.it

2022-2023

Sim&Care | Knee

Launch of the simulator

diSplay U/S

FAST emergency, renal and Ob/Gyn ultrasound

InSimo & VirtaMed

High-fidelity InSimo suture on VirtaMed’s LaparoSTM laparoscopic simulator

2024

ROBOTiS

Launch of the simulator

diSplay U/S

Bladder & prostate and fetal ultrasound

InSimo & EssilorLuxottica

PREMYOM project - Myopia

InSimo & VirtaMed

High-fidelity InSimo suture on VirtaMed’s RoboSTM simulator

2025

Sim&Care | Chest

Launch of the simulator

ROBOTiS

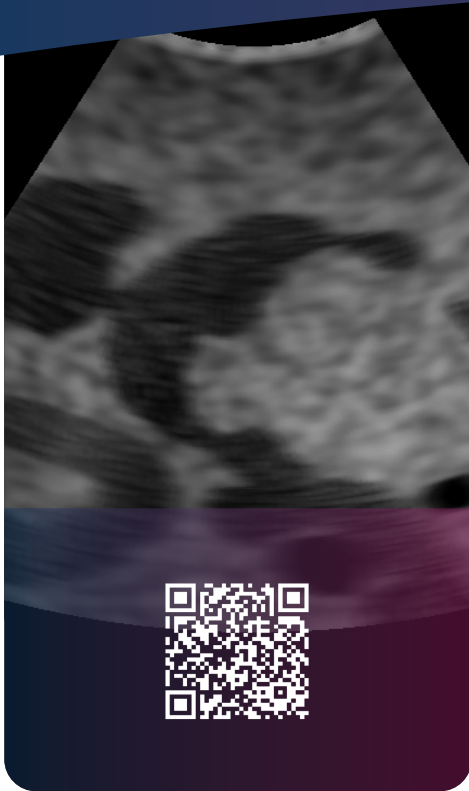
New basic skills exercises: camera control, clutching, 4th instrument manipulation

diSplay U/S

Ob/Gyn ultrasound

Sim&Care 2.0

More educational, user-friendly, and precise



Improve your ultrasound skills at your own pace with online hands-on simulator training

diSplay U/S is a high-fidelity online ultrasound simulator developed in partnership with medical experts to provide hands-on ultrasound training

Contents

100+ exercises and clinical cases

Users

Universities, students, doctors

In practice

Online or on-site, no specific equipment

Languages

French, English

Level

Initial and continuing training

HIGH-FIDELITY



- **Real-time** simulated **ultrasound images**
- **Realistic handling** through **probe control** using your smartphone
- **Unlimited examination** of **virtual patients**
- Training tool developed with **recognized healthcare professionals**
- Models based on **CT and MRI scans, healthy and pathological**
- **Detailed progress tracking reports**

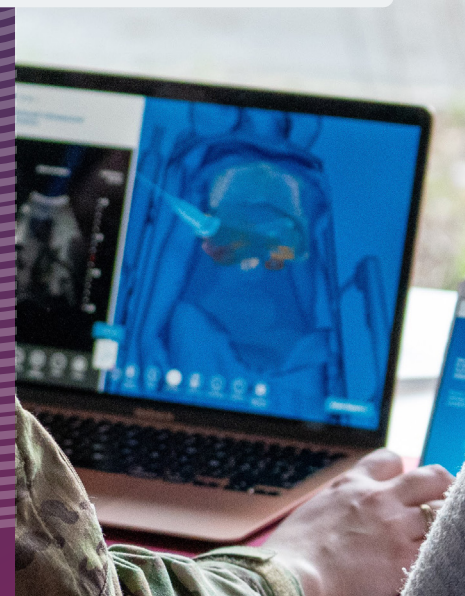
ACCESSIBILITY

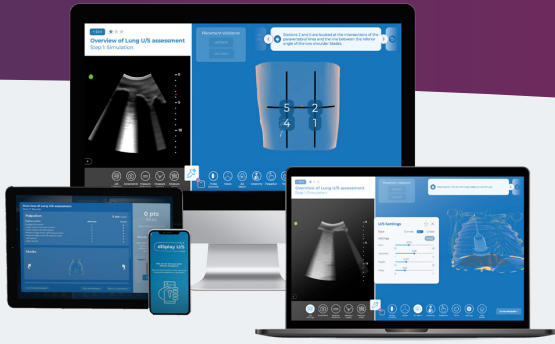


- Turns any **connected computer** into a **virtual ultrasound machine** and any **smartphone** into an **ultrasound probe**
- **Ultrasound fundamentals at your own pace**
- **High-fidelity interactive simulator experience at home** and just a click away, for the price of an anatomy textbook
- **Accessible on any computer**, no specific equipment, **subscription-based** with or without commitment

KEY FEATURES

- **Anatomical structure identification** and **smart display**
- **Measurements**: volume, distance, surface
- **Exam report writing**
- **Ultrasound settings** (gain, dynamic range, depth, focus), and **probe type selection** (convex, linear, cardiac)
- **Smartphone probe control**
- **Color doppler**

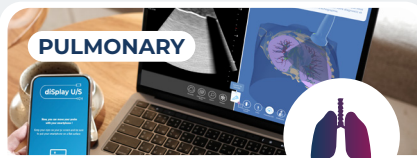




AVAILABLE MODULES

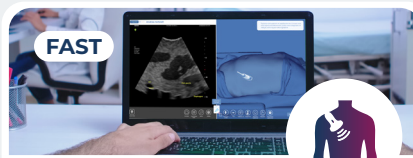
OVER 100 EXERCISES AND CLINICAL CASES

Early access: clinical breast ultrasound, clinical ultrasound of the aorta and inferior vena cava (IVC), musculoskeletal ultrasound



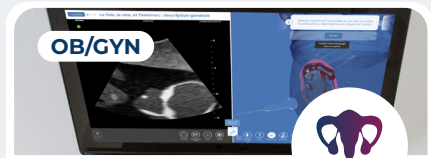
PULMONARY

- POCUS protocol
- Identification of the scan zones, A and B lines, consolidations, white lungs, pleural effusions...
- Detection of ultrasound abnormalities and severity



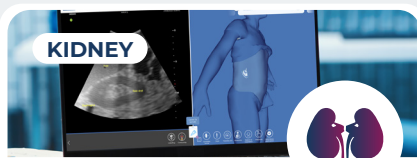
FAST

- Identification of anatomical landmarks
- Detection of abnormal effusions and therapeutic indications
- Various clinical cases: fall from horse, frontal impact, motorcycle accidents...



OB/GYN

- Measurement of head circumference & biparietal diameter at 33W
- Liver & fetal oxygenation pathway
- Diagnosis of endometriosis
- IUD insertion check & pregnancy dating



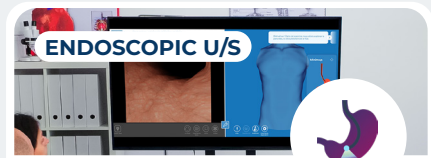
KIDNEY

- Characteristics of a normal kidney
- Identification of cyst, pyelocaliceal dilatation, lithiasis, tumor, angiomyolipoma, abscess...
- Anterolateral or intercostal approach



BLADDER/PROSTATE

- Location of the male and female main pelvic organs
- Identification of prostate hypertrophy, uretero-vesical lithiasis, benign bladder polyps and polyps suspected of malignancy



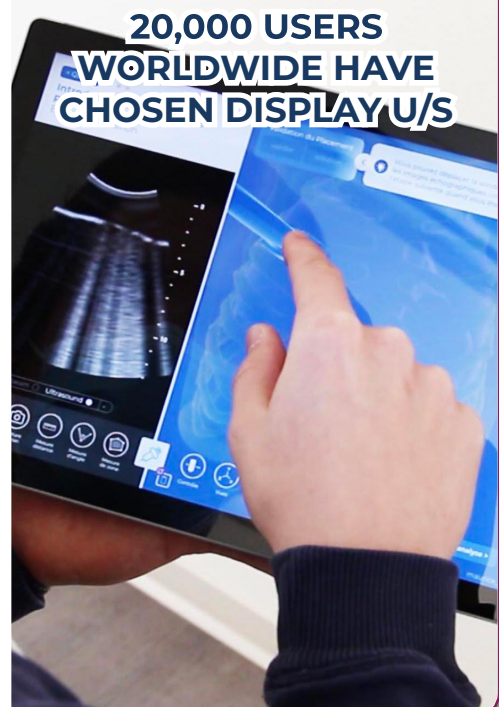
ENDOSCOPIC U/S

- Essential skills in endoscopic U/S
- Identification of the 6 key endoscope positions within the digestive tract, as well as the following organs: liver, kidneys, spleen, gallbladder, pancreas, & digestive tract

LEARNING OBJECTIVES



- **Carry out a complete and structured ultrasound examination** to establish a relevant diagnosis leading to medical decisions
- **Manipulate a probe** and develop **hand-eye coordination**
- **Optimize echographic images**, make organs cuts and interpret them accurately
- **Master ultrasound settings**
- **Learn anatomical fundamentals** and **3D spatial orientation** with the probe
- **Detect common pathologies**





Learn how to safely relieve a pleural effusion: train on a high-fidelity simulator so close to reality

Sim&Care / Chest is a simulator for risk-free thoracentesis training. Train in augmented reality for real sensations on virtual patients, thanks to realistic simulation and immersive force feedback

Contents	6 clinical cases
Users	Hospitals, doctors, students
In practice	Acquisition, rental for training
Languages	French, English
Level	3 levels of difficulty

HIGH-FIDELITY



- **Haptic interface with force feedback:** realistic sensation of anatomical resistance and needle interaction with patient anatomy
- **Augmented reality** with transparent **visualization** of **key anatomical structures**
- **Ultrasound localization** with real-time simulated images
- **Immersive sound environment** to simulate a real clinical situation
- **Immediate, detailed** procedure evaluation

ACCESSIBILITY



- **Compact simulator**, quick & easy to install
- **Unlimited training without consumables**
- **A single hardware setup** for **several** invasive medical procedures

SIM&CARE | CHEST SIMULATOR

1
Torso
mannequin

2
PC + high-fidelity
interactive
biomechanical
simulation software



3
Meta Quest 3
virtual reality
headset

4
Haptic interface
with force
feedback

5
Calibration mat

Theory

Start with an **immersive Keyros Medica video tutorial** to understand the procedure

Practice

Practice the technique safely on a **variety of clinical cases**

Repeat

Train as many times as needed, with **no consumables required**

Lung ultrasound to confirm the diagnosis, locate the pleural effusion and identify its limits



3 effusion volumes and 2 different procedural approaches of the patient to learn how to adapt the procedure to the clinical case

3D models and biomechanical simulation: faithful reproduction of tissue resistance during needle insertion, from skin to pleural cavity

LEARNING OBJECTIVES

- **Identify thoracic landmarks** to locate the safe puncture zone
- **Use ultrasound** to locate a pleural effusion and determine the point of entry
- **Adapt the procedure to the volume of the effusion** and the patient's orientation
- **Practice needle insertion while respecting intercostal anatomy** and **avoiding high-risk structures**
- Recognize the **different types of tissue resistance** involved
- **Understand the impact of incorrect positioning** or trajectory
- **Self-assessment through immediate evaluation** of gesture precision and safety





Perform a knee arthrocentesis and injection with precision and confidence thanks to a hybrid innovative simulator

Sim&Care / Knee is a simulator for risk-free training in knee arthrocentesis and injection. Train in augmented reality for real sensations on virtual patients, thanks to realistic simulation and immersive force feedback

Contents

7 clinical cases

Users

Hospitals, doctors, students

In practice

Acquisition, rental for training

Languages

French, English

Level

3 levels of difficulty

HIGH-FIDELITY



- **Haptic interface with force feedback:** realistic sensation of anatomical resistances and needle interactions with patient anatomy
- **Augmented reality** with transparent **visualization** of **key anatomical structures**
- **Precise echo-guided needle gesture** thanks to simulated ultrasound images
- **Physical palpation on a knee mannequin:** a combination of real touch and virtual visualization
- **Immersive sound environment** to simulate a real clinical situation
- **Immediate, detailed assessment** of the procedure

ACCESSIBILITY



- **Compact simulator**, quick and easy to install
- **Unlimited training without consumables**
- **A single hardware setup** for **several** **invasive medical procedures**

SIM&CARE | KNEE SIMULATOR



Theory

Start with an **immersive Keyros Medica video tutorial** to understand the procedure

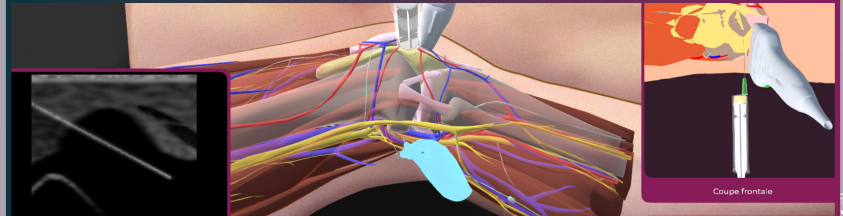
Practice

Practice the technique safely on a **variety of clinical cases**

Repeat

Train as many times as needed, with **no consumables required**

Ultrasound-guided procedure for real time guidance of the gesture



7 patient cases, including dry knee, synovial effusion, bursitis, meniscal cyst, to practice knee arthrocentesis and injection in a variety of pathological contexts

Development of clinical reasoning, from diagnosis to therapeutic decision, using **questionnaires and detailed analyses**

LEARNING OBJECTIVES

- **Identify knee joint landmarks** for accurate puncture or injection
- **Learn how to perform ultrasound-guided procedures** and **interpret ultrasound images**
- **Adjust needle trajectory** according to the type of pathology (effusion, cyst, bursitis, etc.)
- **Recognize the different types of tissue resistance** involved
- **Understand the impact of incorrect positioning** or trajectory
- **Develop clinical reasoning**, from diagnosis to therapeutic decision
- **Self-assessment through immediate feedback** on the precision and safety of the procedure





Train for a stress-free lumbar puncture, and master this procedure to perfection with a simulator that guides you every step of the way

Sim&Care | Spine is a simulator for risk-free lumbar puncture training. Train in augmented reality for real sensations on virtual patients, thanks to realistic simulation and immersive force feedback

Contents

5 clinical cases

Users

Hospitals, doctors, students

In practice

Acquisition, rental for training

Languages

French, English

Level

3 levels of difficulty

HIGH-FIDELITY

- **Haptic interface with force feedback:** realistic sensation of anatomical resistances and needle interactions with patient anatomy
- **Augmented reality** with transparent **visualization** of **key anatomical structures**
- **Physical palpation on a lumbar mannequin:** a combination of real touch and virtual visualization
- **Immersive sound environment** to simulate a real clinical situation
- **Immediate, detailed assessment** of the procedure

ACCESSIBILITY

- **Compact simulator**, quick & easy to install
- **Unlimited training without consumables**
- **A single hardware setup** for **several** invasive medical procedures

SIM&CARE | SPINE SIMULATOR

1
Compatible with
Kyoto Kagaku
lumbar puncture
mannequin

2
PC + high-fidelity
interactive
biomechanical
simulation software



3
Meta Quest 3
virtual reality
headset

4
Haptic interface
with force
feedback

5
Calibration mat

Theory

Start with an **immersive Keyros Medica video tutorial** to understand the procedure

Practice

Practice the technique safely on a **variety of clinical cases**

Repeat

Train as many times as needed, with **no consumables required**

Progressive training with different levels of anatomical visualization, and the option of choosing a **traumatic or atraumatic needle with an introducer**

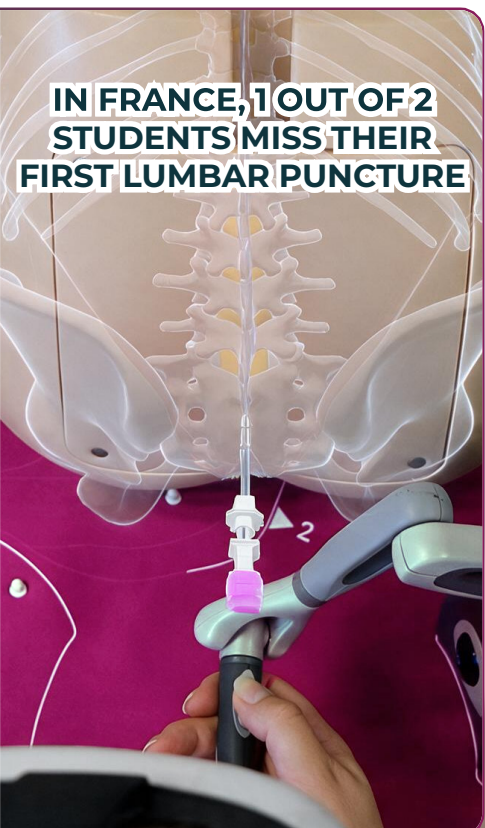


5 morphologies (standard adult, child, scoliosis, osteoarthritis, obese), each available in **seated or lateral decubitus position**, to adapt the gesture to a diversity of clinical situations

Preparatory gestures: patient positioning, palpation of the mannequin, choice of needle (standard hypodermic or introducer and atraumatic needle)

LEARNING OBJECTIVES

- **Identify lumbar anatomical landmarks** in the sitting or lateral decubitus position to puncture between L3-L4, L4-L5, or L5-S1
- **Master the technical steps of the procedure:** identification, insertion, progression, puncture
- **Adapt to different patient profiles** (child, scoliosis, osteoarthritis, standard morphology, etc.) to perform the procedure optimally
- **Recognize the different types of tissue resistance crossed, and learn to locate the needle according to the feeling** as it passes through the various ligaments
- **Understand the impact of incorrect positioning** or trajectory
- **Evaluate yourself thanks to an immediate assessment** of the precision and safety of the gesture





Train for robotic surgery with unprecedented precision, using a universal, high-fidelity, portable simulator

ROBOTiS is a simulator for precise hands-on training in the fundamentals of robotic surgery. It reproduces the ergonomics of the leading surgical robots on the market, combined with ultra-high-fidelity simulation software to deliver a true-to-life training experience

Contents

+40 exercises

Users

Surgeons, students, manufacturers

In practice

Acquisition, rental for training

Languages

French, English

Level

Essential and advanced skills

HIGH-FIDELITY

- **Ultra-high-fidelity virtual suture model**
- Creation and recognition of **all types of knots**
- Reproduce the behavior of **inextensible sutures without force feedback**
- **Realistic feel and control of surgical gestures**
- **Immediate, detailed evaluation of exercises**

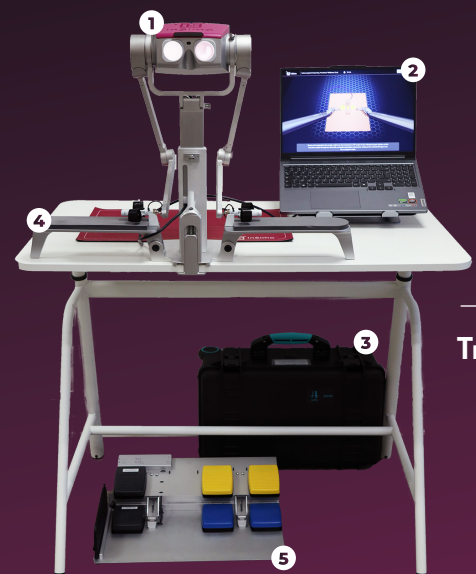
ACCESSIBILITY

- **Compact, portable simulator** for a quick and easy installation
- **Training accessible anywhere, even outside the Operating Room** (hospital wards, universities or home)
- **The most affordable high-fidelity simulator on the market** to support the democratization of robotic surgery

ROBOTiS SIMULATOR

1
Immersive console and binocular optics

2
Control screen



3
Transport case

4
Controls (instruments and clutch)

5
Pedals (clutch and camera)



PACK LIGHT, TRAIN HARD

+40 EXERCISES AVAILABLE

BASIC SKILLS

- Camera control
- Clutch
- 4th arm manipulation
- Peg transfer
- Precise motion control

ESSENTIAL SKILLS

- Needle manipulation and insertion
- Execution of simple, double, square knots

ADVANCED SUTURING

- Interrupted, continuous sutures, and anastomoses
- Vaginal cuff and ventral hernia

KEY FEATURES

- **Thread inextensibility & dynamics**
- **Torsion & flexion effects**
- **Creation and identification of all types of knots** (simple, double, flat)
- **Support for multiple threads types**
- **Plasticity simulation** for shape memory

LEARNING OBJECTIVES

- **Master the basics of robot-assisted surgery:** execution and identification of all types of knots and sutures, thread, tissue and needle manipulation
- **Develop hand/eye coordination** and **instrumental dexterity**
- **Self-assessment through immediate evaluation** of gesture precision and safety

FOCUS 2

SURGICAL SUTURE SIMULATION BY INSIMO

An inextensible and dynamic surgical thread

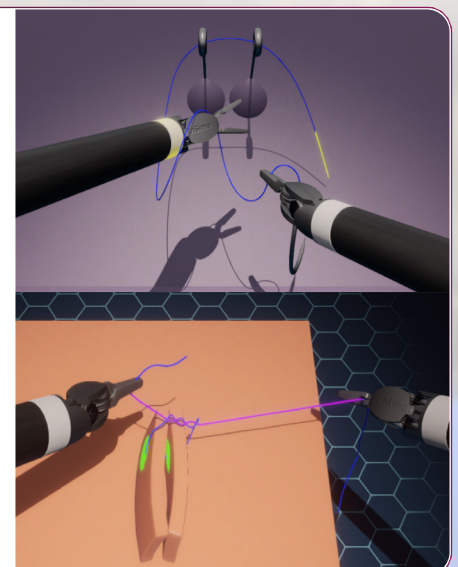
A groundbreaking simulation that replicates the behavior of perfectly inextensible threads with realistic plasticity

Precise control

ROBOTiS simulates surgical interactions with precision & fidelity

Educational value

The realism of the simulation and the real-time visualization of mechanical stresses address the educational challenges of learning surgery without force feedback



They trust us

HelpMeSee

surgicalscience

VIRTAMED°

Crafting Solutions in Medical Education
KYOTO KAGAKU

Lilly

UNISIMES
unité de simulation
européenne en santé

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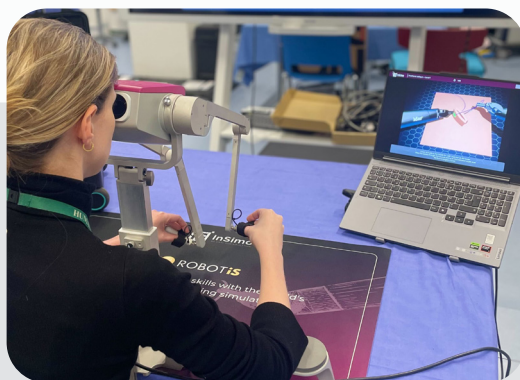
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ihu
STRASBOURG

Les Hôpitaux
Universitaires
de STRASBOURG

Aafm
Association Française pour la
Formation des Médecins



"I really enjoyed the **Sim&Care | Spine** simulator experience. We could visualize the patient's anatomy in 3D with the augmented reality headset. It gave me a better understanding of how to insert the needle during a lumbar puncture; a vision that you don't have in reality."

Eloi Schmauch

4th year medical student at Strasbourg University, France



“Compared to other robotic surgery simulators, **ROBOTiS** stands out for its portability, allowing it to go directly to students & avoiding scheduling constraints or the need to free up staff. The focus on suturing is a considerable advantage, combining ergonomic design with advanced technology.”

Pr Louis Sibert

President of SoFraSimS (Francophone Society for Health Simulation, Medical Director of the MTC (Medical Training Center) in Rouen, France



“Thanks to the interactive exercises available on **diSplay U/S**, I’ve been able to reproduce what I learned when I got my ultrasound machine, because there’s very little difference between the simulator and reality. It’s a great tool that I’d recommend using! The earlier you use it, the better your practice will be afterwards.”

Joana Ayuk

Resident in Pediatrics, Université Félix Houphouët-Boigny, Ivory Coast





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Schedule a meeting with our team

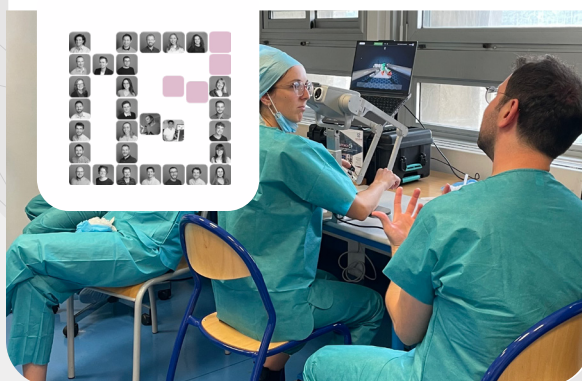
- See a demonstration of our simulators
- Take a guided tour of our diSplay U/S online ultrasound simulator
- Share a project with us



LET'S TALK!

Contact us now

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- Phone: **+33(0)3 67 10 33 75**
- Mail: **contact@insimo.fr**
- Address: **8 place de l'hôpital
67000 Strasbourg, France**



We look forward to hearing from you

WE CARE FOR SIMULATION