

InSimo & Kyoto Kagaku Europe are partnering in simulation training

Strasbourg & Frankfurt, January 30th 2026

The Strasbourg-based company [InSimo](#), which specializes in the development of high-fidelity simulation software for medical and surgical training, and [Kyoto Kagaku Europe](#), a renowned Japanese manufacturer of well-thought-out anatomical models, imaging phantoms, and simulators since 1948, are proud to announce **their partnership to promote the innovative lumbar puncture training method, combining Kyoto Kagaku Europe's [M43B Lumbar Puncture Simulator II](#) with InSimo's high-fidelity simulation software [Sim&Care | Spine](#).**

The goal: to provide healthcare professionals with a hybrid training tool, allowing them to practice virtual lumbar punctures with haptic feedback on anatomies visualized in augmented reality within the Kyoto Kagaku Europe mannequin, well-known for its realistic physiology and materials.



The quality of the reference procedural mannequin combined with the most innovative lumbar puncture simulation software on the market

This collaboration is based on the complementary strengths of two recognized players in medical simulation. **InSimo brings its technological and software know-how** in simulation, while **Kyoto Kagaku Europe provides its long-standing expertise in the design and international distribution of procedural anatomical task trainers.**

By combining InSimo's Sim&Care | Spine simulation platform with Kyoto Kagaku Europe's lumbar puncture mannequin, the two partners aim to better address the current demands of medical training: repetition of procedures, standardization of practices, and learning in realistic conditions, without putting the patient at risk.

Through this partnership, **the two companies are combining their commercial and communication**

efforts to increase the visibility of the Sim&Care | Spine software, particularly in Europe, Africa, and West Asia, by leveraging **Kyoto Kagaku Europe's global distribution network.**

Simulation for more effective lumbar puncture training

The **Sim&Care | Spine simulator**, combined with an actual palpable mannequin, allows learners to **practice lumbar punctures without limits and without the risk of causing unnecessary harm to patients.** Training is offered in **augmented reality with haptic feedback**, promoting progressive skill development, confidence in the procedure, and management of technical challenges. This partnership further enhances the clinical and educational relevance of the **Kyoto Kagaku Europe lumbar puncture mannequin**, recognized for the **quality of its materials, realistic feeling of touch**, and the **accuracy of its anatomical landmarks.**

Thanks to this integration, learners can perform **precise procedures in conditions close to clinical reality**, practice different puncture positions and scenarios, and receive immediate feedback on their accuracy and technique, thereby enhancing the safety and effectiveness of healthcare training.

“InSimo has impressed us with their excellent software, which is based on Kyoto Kagaku's M43B Lumbar Puncture Simulator. By enhancing Kyoto Kagaku mannequin with augmented reality guidance, the model can now offer highly realistic VR haptics, a debriefing system, and a variety of training scenarios.

Through this collaboration, we hope to provide optimal training solutions for health care, combining Kyoto Kagaku's high standard human-like simulators and global sales network with InSimo's outstanding software development expertise. //

Masahiro Wasa
 Kyoto Kagaku Europe GmbHs - General Manager

Sim&Care | Spine simulator

Kyoto Kagaku Europe lumbar puncture mannequin

Performing the initial key steps, such as patient positioning, and identification of anatomical landmarks (palpating the iliac crests to identify the L4 spinous process and mark the L3-L4 or L4-L5 interspace) in a seated or lateral decubitus position

Meta Quest 3 virtual reality headset

Augmented reality and transparent visualization of relevant anatomical structures

High-fidelity interactive biomechanical simulation software

High-fidelity simulation, with virtual patients of varied profiles (child, scoliosis, osteoarthritis, standard adult, etc.)

Haptic interface with force feedback

Realistic sensation of anatomical resistance and needle interaction with the patient's anatomy



Lumbar puncture – a complex medical procedure that is difficult to master

Lumbar puncture is a common procedure that can be stressful for both patients and medical students.

This potentially painful procedure, which carries a risk of complications, is still often practiced by students directly on patients. In France, 1 in 2 students fails their first lumbar puncture. As with any medical procedure, proper training and a solid understanding of anatomy, indications and contraindications, as well as the technical steps of the procedure, are essential to ensure both the success of the procedure and patient safety.

In 2025, a [study conducted by the rheumatology department at Strasbourg University Hospital](#) was published in the scientific journal BMC Medical Education. This research demonstrates the effectiveness of training on Sim&Care | Spine: the software, developed by InSimo and added to Kyoto Kagaku simulator, allows users to master the lumbar puncture procedure to perfection thanks to augmented reality and force feedback. These results demonstrate the impact of simulation-based training.



M43B Lumbar Puncture Simulator II
Kyoto Kagaku



Sim&Care | Spine
InSimo

“For Sim&Care | Spine, we wanted the best lumbar puncture mannequin to ensure that anatomical landmark identification and palpation are as close to real clinical conditions as possible. The Kyoto Kagaku mannequin, recognized by the medical community as a reference, was an obvious choice for us.

I am very pleased today to formalize a partnership with this pioneering company in medical simulation, thereby confirming the complementarity of our technologies to deliver an innovative and effective training experience. This partnership represents a strong recognition for InSimo and a major lever to accelerate the international rollout of Sim&Care | Spine. ”

Pierre-Jean Bensoussan
InSimo - CEO



Crafting Solutions in Medical Education
 **KYOTO KAGAKU**

 **InSimo**
WE CARE FOR SIMULATION



InSimo has been developing medical simulation software for surgical and medical training since 2013. "Never the first time on the patient". This is the aim of healthcare simulation training: to offer medical students experience learning modalities to practice without risk to the patient.

InSimo's expertise in interactive biomechanical simulation, inherited from academic research, is complemented by many collaborations with the medical world, as a result of a historical integration at the heart of the Strasbourg university hospital.

InSimo

Pierre-Jean Bensoussan
CEO

www.insimo.com

Crafting Solutions in Medical Education



Kyoto Kagaku Europe specializes in the manufacture of high-quality simulators, radiology and ultrasound phantoms, as well as other training equipment for healthcare education. Originally being a part of Shimazu Corporation, its roots can be traced back to 1891, when the first educational and scientific specimen were introduced in Japan.

Established in 1948, Kyoto Kagaku Co., Ltd. is now one of the leading manufacturers of medical and nursing simulators, in addition to imaging phantoms used for ultrasound and radiology training and research.

Kyoto Kagaku Europe

Masahiro Wasa
General Manager

www.kyotokagaku.com