InSimo
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Press release :

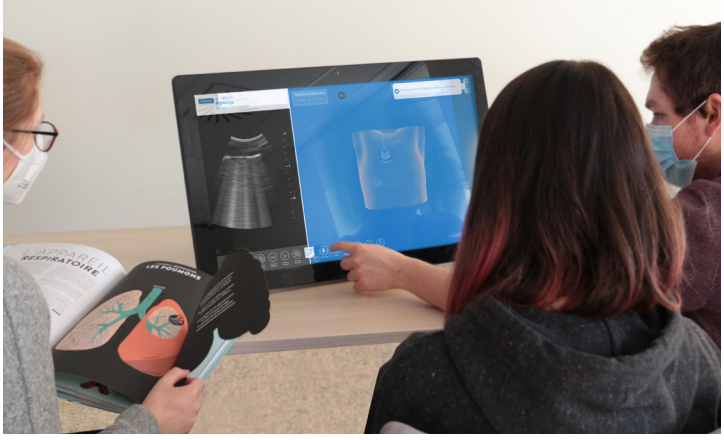
diSplay U / S online ultrasound simulator by InSimo: new features to learn Lungs Ultrasound POCUS in complete autonomy

Strasbourg, France, March 2021

The Strasbourg startup company InSimo, specialized in the development of simulation software for medical and surgical training, is proud to release the **new version of its online ultrasound simulator, diSplay U / S.**

With nearly 500 registered users worldwide, diSplay U / S is now becoming **a complete training tool, enriched with advanced educational content** designed with the IHU of Strasbourg (Institute of Image-Guided Surgery). Medical students can now benefit from a **brand new curriculum dedicated to point-of-care** ultrasound training (POCUS).

- an online ultrasound simulator accessible anywhere & anytime
- a learning process based on patient-cases rebuilt from real medical imaging
- a complete and interactive training to learn POCUS standardized protocol
- new features to enrich the experience (breath holding, palpation and much more)



A simulator fully accessible to everyone

It was in the context of the first lockdown that the development of this simulator began, in order to allow healthcare workers overwhelmed by the health crisis to quickly train to the diagnosis of COVID-19 using pulmonary ultrasound. **InSimo thus provided free access to an online simulation module** allowing ultrasound to be performed on virtual patients to **detect pulmonary lesions specific to the coronavirus.**

Thanks to a grant obtained from "Strasbourg Eurométropole" (the intercommunal structure centered on the city of Strasbourg), InSimo has continued its development efforts to meet the training needs concerning the learning of ultrasound.

diSplay U / S mainly differentiates itself by its ease of use. This simulator does not require any specific equipment and can be used with only a computer with an internet connection. Students wishing to train on medical ultrasound can **do it anywhere and anytime**, which is a considerable advantage in the current context where on site medical simulation courses are mainly unavailable.

The simulations are based on real clinical cases built from medical imaging. The student moves a virtual probe over patient-specific 3D anatomies, and visualizes simulated ultrasound images in real time. The user is therefore not limited to one area, but can perform an ultrasound scan of the entire anatomy of the patient-case proposed.

InSimo provides an online ultrasound simulator to learn in complete autonomy

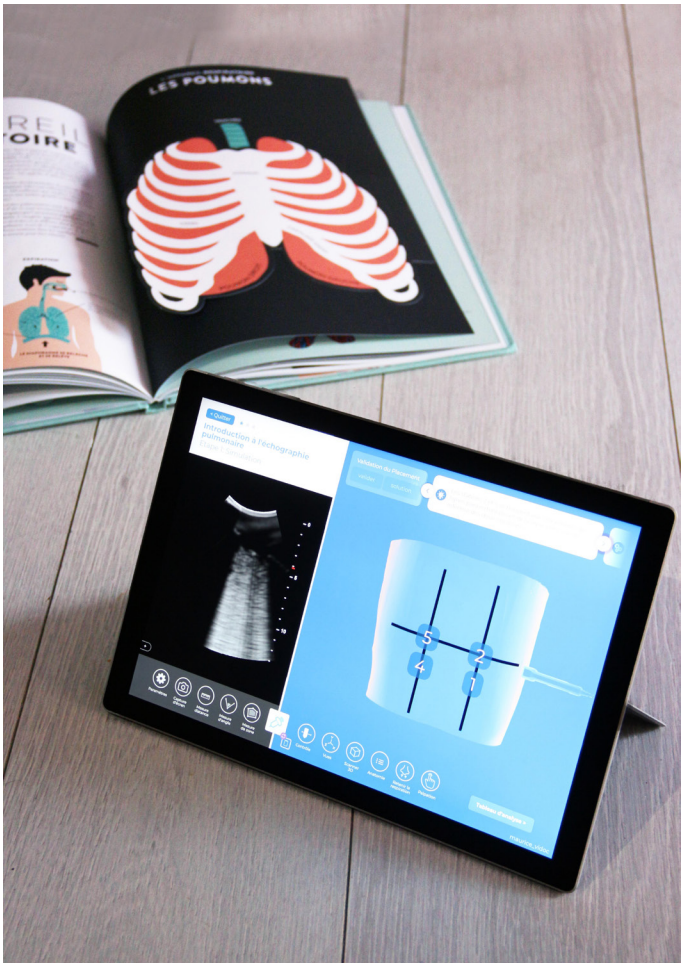
An intuitive solution to meet the needs of future physicians

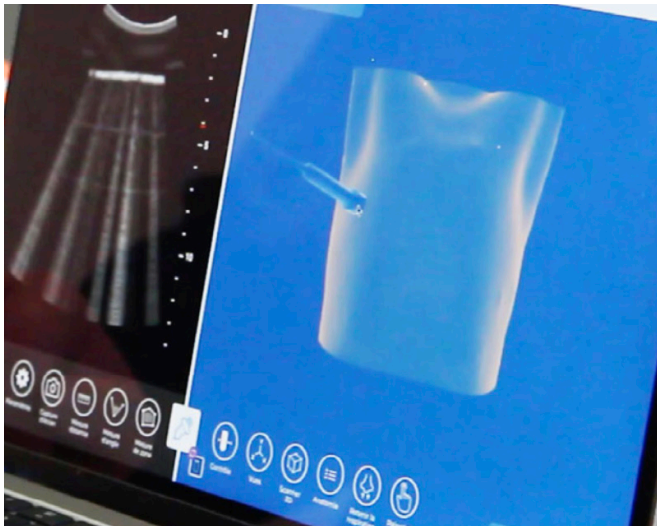
Users now benefit from a completely redesigned interface, more intuitive than ever. Among the new features available, **guided exercises** allow students to practice several ultrasound exams.

Thanks to the module available on diSplay U / S, students or healthcare professionals can learn the **diagnosis of COVID-19 by pulmonary ultrasound**, by examining patient cases with increasing degrees of severity caused by the disease. On the other hand, they can practice the **standardized POCUS diagnostic protocol** by learning to locate the 14 corresponding stations and analyze the associated images in order to carry out the different stages of this examination, from palpation to diagnosis.

Finally, they can **follow their performances through detailed reports** and debrief their exercises with shared PDF results. Other functionalities such as a palpation tool, the possibility of choosing between several probes, or even to ask the patient to hold his breath, allow an ultrasound examination as close as possible to a real one for a complete learning.

> *diSplay U/S allows to train efficiently to COVID-19 diagnosis, through lungs ultrasound and point-of-care standardized protocol*





> **“The diSplay U/S platform represents an important milestone of an upskilling strategy, seeking to expand the current ultrasound workforce, in the lungs and beyond them.”**
>
> Dr. Juan M. Verde, research associate, IHU Strasbourg

The alliance of technical and medical expertise to offer a relevant learning

The design and development choices made by our team to work out this simulator are definitely focused on pedagogical value. This is why the InSimo team has been reinforced with the medical expertise of the IHU Strasbourg, in the person of **Doctor Juan Manuel Verde, and the digital agency Adeliom, experts in UI/UX design.**

Driven by the common ambition to offer a pertinent and accessible solution with useful features, **users feedback played a key role in the development** of this new version, with end user testing carried out to fit their needs as much as possible.

The IHU’s collaboration provided medical expertise to InSimo, both concerning the quality of the ultrasound images, the methodology of the POCUS protocol and the development of the exercises.

> *diSplay U/S is a technically reliable and clinically relevant simulator, developed through our expertise and our partner’s*

New features to come

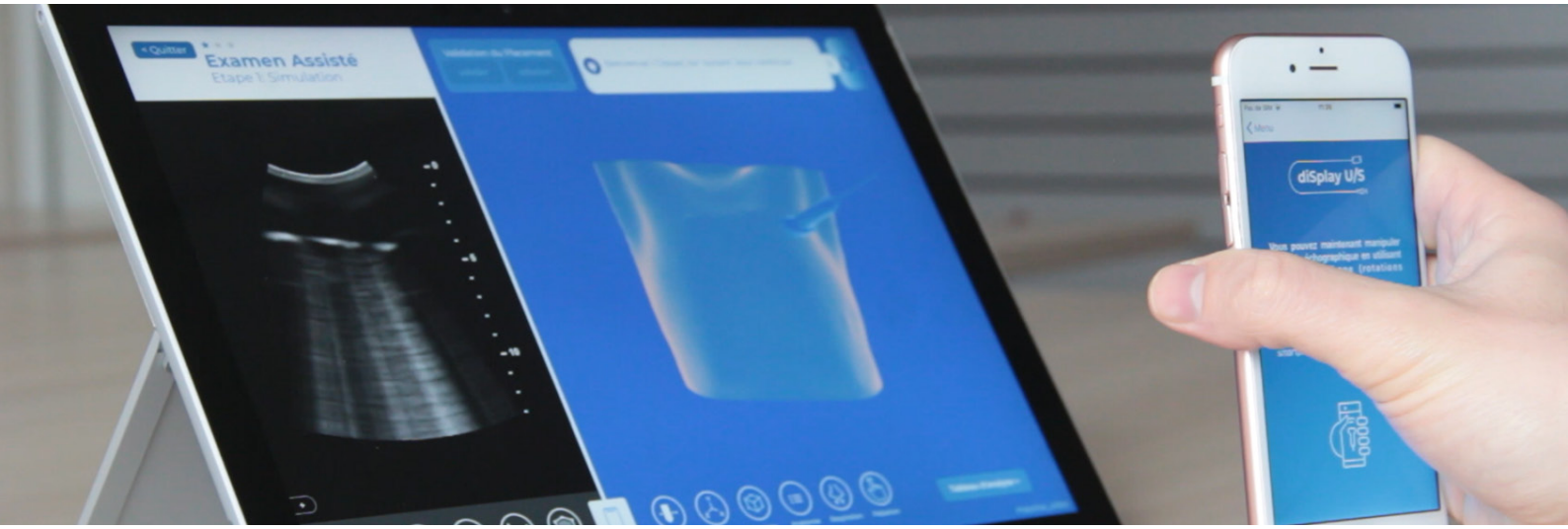
New features are still expected in the coming months regarding diSplay U / S. As an example InSimo will soon offer a **smartphone application that will complete the educational experience**. Turned into a bluetooth ultrasound probe connected to the simulator, any smartphone will allow students to train to the ultrasound gesture.

InSimo will soon be offering a **specific interface for trainers** to allow them to follow the progress of their students and propose customized exercises.
Five new exercises around the POCUS protocol will also be integrated into the educational path to handle all the specificities of this diagnostic approach.

Other protocols specific to emergency situations will be implemented in the coming months. Thus, the FAST and BLUE protocols will soon be part of the diSplay U / S offer.

Finally, the patient cases library will continue to expand over time, allowing several pathologies analysis with different severity levels.

> ***Very soon, diSplay U/S will be enriched with brand new contents and will offer its own app to learn the probe manipulation***



À propos d'InSimo

InSimo is a startup located in Strasbourg, France, specialized in the development of medical and surgical simulation software, on virtual models with high-fidelity behaviours
http://www.insimo.com/

IHU Strasbourg

The Institute of Image-Guided Surgery of Strasbourg develops innovative surgery to deliver personalized patient care, combining the most advanced minimally invasive techniques and the latest medical imaging methods.
https://www.ihu-strasbourg.eu/en/

Adeliom

Since more than 10 years, this digital agency improves its methods to build experiences that fosters the user's engagement and generates significative results for companies.

https://adeliom.com

Strasbourg Eurométropole

Strasbourg Eurométropole is a public inter-municipal cooperation establishment which gathers 33 municipalities.

https://www.strasbourg.eu