



PRESS RELEASE

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GigXR Partners with NUS Medicine to Deliver Holographic Clinical Scenarios for Gastroenterology Training

Los Angeles and Singapore – October 25, 2023 – [GigXR, Inc.](#), a global provider of holographic healthcare training, announced today its partnership with the Yong Loo Lin School of Medicine, [National University of Singapore \(NUS Medicine\)](#), one of the world’s leading medical schools, to introduce a new gastrointestinal module for the award-winning HoloScenarios application. Created to better prepare medical and nursing students in diagnosing and treating acute gastrointestinal diseases, HoloScenarios: Gastrointestinal delivers evidence-based, robust clinical simulations that present hyperrealistic holographic simulated patients and medical equipment to be used in any physical learning environment, accessed anywhere in the world.

Going beyond linear step-based training traditionally seen with virtual reality (VR), HoloScenarios: Gastrointestinal uses mixed reality (MR) to simulate the entire patient journey, while including branching logic to catalyze variance in learning experiences. From taking basic medical history to performing invasive testing and emergency procedures, the new module empowers learners to master vital medical decision-making and manual skills as they would see them in real-life clinical scenarios and patient care.

HoloScenarios: Gastrointestinal is created in collaboration with renowned medical professionals and educators from NUS Medicine who specialize in the fields of Gastrointestinal (GI) Surgery and holographic medical training. The module is delivered by the [Gig Immersive Learning Platform](#), the enterprise-scale platform enabling the creation, curation, and sharing of immersive training applications and modules made by the world’s preeminent healthcare institutions and MR developers.

“Gastrointestinal pathologies can be complex and challenging to diagnose. This module will allow learners to form a deeper understanding and appreciation of the gastrointestinal tract, especially the three-dimensional understanding of anatomy and body functions,” said Associate Professor Alfred Kow Wei Chieh from the school’s Department of Surgery and Assistant Dean (Education) at NUS Medicine. “We believe mixed reality is the next evolution in healthcare training, and collaborating with immersive platform innovators like GigXR helps us to bring this vital content to more learners globally and, ultimately, improve patient care.”

With international medical and surgical credentials that include MBBS (S'pore), M Med (Surg), FRCSEd (Gen Surg), FAMS, and FACS, Associate Professor Kow has trained thousands of healthcare professionals and advanced surgical fellows. He received the 2023 REAL Advancing in Liver Transplantation Award for his contributions to global liver transplantation education and is a founding member of [The Holomedicine® Association](#).

“GigXR has one of the most advanced and comprehensive platforms in mixed reality, especially in medical training, and enables the exchange of developments, innovation, and expertise with a wider community across Asia and beyond,” added Associate Professor Kow. He is also the Head and Senior Consultant of the Division of Hepatobiliary & Pancreatic Surgery, Department of Surgery, at [Singapore's National University Hospital \(NUH\)](#), the teaching hospital of NUS Medicine.

The new module also delivers enhanced realism in training learners to more accurately diagnose and treat acute gastrointestinal diseases. Whereas VR has been widely used in gastroenterology training for linear step-based skills, such as in endoscopic procedures, it is limited in its ability to simulate fully realized clinical scenarios. Holographic patient simulation in MR merges hyper-realistic holograms in physical learning spaces that accurately reflect the clinical environment and tools with which learners will care for real patients.

With HoloScenarios: Gastrointestinal, learners can interact with the holographic simulated patients, holographic medical equipment, instructors, and each other. This allows them to master both technical and soft skills, such as patient empathy and team communication, in hyper-realistic, safe-to-fail environments that reduce cognitive load. If the holographic patient displays the need for further care, such as a definitive surgery, learners can discuss a definitive treatment plan.

To gain a deeper evaluation of outward symptoms, co-located learners can safely walk around the patient hologram that is displayed on top of their real-world surroundings. Whereas VR locks learners into a virtual “box,” MR enables clear visibility and awareness of physical surroundings. This allows learners to move freely without fear of physical collisions and safety so they can fully focus on learning key gastrointestinal treatment, diagnostic, and communication skills with peers and instructors.

“In healthcare, educators are not only trying to help learners master and retain vital knowledge, but recall and apply it when a patient's life may be at risk,” said Dr. Gao Yujia, MBBS (S'Pore), MRCS, FRCSEd, Consultant and Assistant Group Chief Technology Officer at Singapore's National University Health System, and Vice Chairman of The Holomedicine® Association. “With HoloScenarios: Gastrointestinal, learners will have the ability to not only visualize the presentation of a given disease in 3D but better understand how to apply key learnings in the clinical context and within team environments.” Dr Gao is also the Director of Undergraduate Medical Education for Surgery at NUS Medicine.

With scenarios across gastrointestinal pathologies that include gastrointestinal bleeding, intestinal obstruction, and chronic liver failure, learners can master complex and potentially critical situations. They

can learn, for example, how to stabilize patients who are dehydrated, bleeding, or septic, as well as the types of diagnostic procedures that may then be required to get a definitive diagnosis. Using mixed reality headsets or any Android, iOS smartphone or tablet, learners can access HoloScenarios: Gastrointestinal from anywhere for remotely distributed, yet highly immersive simulation.

“Immersive technology has accelerated the sharing of expertise for teaching, training, and simulation. Mixed reality, with its natural propensity to facilitate hyperrealistic, safe, and collaborative learning, continues to accelerate both the quality and scale of training outcomes,” said Jared Mermey, CEO of GigXR. “We are immensely proud to partner with NUS Medicine which has been at the forefront of adopting mixed reality in both clinical and educational use cases. By bringing their esteemed expertise onto our platform with the co-creation of HoloScenarios' newest module, we believe clinical breakthroughs in diagnosing and treating gastrointestinal diseases will take a giant leap forward.”

Designed specifically for pedagogy, the Gig Immersive Learning Platform is trusted by over 70 enterprise-scale healthcare institutions across four continents to build full immersive curricula utilizing a robust content catalog – all of which is managed from a single dashboard. Third-party content developed by leading 3D medical partners, including DICOM Director, 3D4Medical by Elsevier, and ANIMA RES, seamlessly integrates with the platform to provide complementary, in-depth anatomy applications that empower learners with a broader physical context for the pathologies that they study.

“The Gig Immersive Learning Platform has quickly become the premier educational, social network for sharing healthcare training expertise in the immersive format, spanning global healthcare institutions and the Department of Defense to content developers and enterprises large and small,” said David King Lassman, Founder of GigXR. “HoloScenarios: Gastrointestinal marks the latest milestone in our rapidly expanding catalog, which now boasts a dozen different licensable training modules that span holographic simulated patients, clinical scenarios, anatomy, pathophysiology, and 3D medical imaging.”

NUS joins the University of Cambridge and Cambridge University Hospitals (CUH) NHS Foundation Trust, University of Michigan, and Morlen Health, a subsidiary of Northwest Permanente, P.C., as the world-class institutions partnering with GigXR to co-create holographic healthcare training. These simulations include modules centered around Respiratory diseases, Basic Life Support, Advanced Cardiac Life Support, Neurology scenarios, and now, with NUS, Gastrointestinal diseases.

GigXR and NUS Medicine plan to launch HoloScenarios: Gastro in Spring 2024. For more information on GigXR, visit [GigXR.com](https://gigxr.com) or email sales@gigxr.com. For more information on NUS, visit nus.edu.sg.

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About GigXR

GigXR, Inc., is a global provider of holographic training solutions for medical and nursing schools, hospitals, higher education, and the Department of Defense. GigXR's Immersive Learning Platform delivers a rapidly

growing catalog of hyper-realistic mixed reality training applications created in partnership with world-class medical education experts at healthcare institutions. The applications are designed to break through the limitations of conventional 2D learning resources, by placing hyper-realistic hologram simulations and medical tools in a physical space using mixed reality headsets and mobile devices.

GigXR's flagship mixed reality applications, HoloScenarios, HoloPatient, and HoloHuman, create safe-to-fail learning environments in which medical and nursing students can practice vital diagnostic, communication, and clinical reasoning skills. GigXR is headquartered in Los Angeles, CA, with global customers on five continents.

For more information on GigXR, visit GigXR.com.

About the National University of Singapore

The National University of Singapore (NUS) is Singapore's flagship university, which offers a global approach to education, research, and entrepreneurship, with a focus on Asian perspectives and expertise. We have 16 colleges, faculties and schools across three campuses in Singapore, with more than 40,000 students from 100 countries enriching our vibrant and diverse campus community. We have also established more than 20 NUS Overseas Colleges entrepreneurial hubs around the world.

Our multidisciplinary and real-world approach to education, research and entrepreneurship enables us to work closely with industry, governments and academia to address crucial and complex issues relevant to Asia and the world. Researchers in our faculties, research centres of excellence, corporate labs and more than 30 university-level research institutes focus on themes that include energy; environmental and urban sustainability; treatment and prevention of diseases; active ageing; advanced materials; risk management and resilience of financial systems; Asian studies; and Smart Nation capabilities such as artificial intelligence, data science, operations research and cybersecurity.

For more information on NUS, please visit nus.edu.sg.

About the NUS Yong Loo Lin School of Medicine (NUS Medicine)

The NUS Yong Loo Lin School of Medicine is Singapore's first and largest medical school. Our enduring mission centres on nurturing highly competent, values-driven and inspired healthcare professionals to transform the practice of medicine and improve health around the world.

Through a dynamic and future-oriented five-year curriculum that is inter-disciplinary and inter-professional in nature, our students undergo a holistic learning experience that exposes them to multiple facets of healthcare and prepares them to become visionary leaders and compassionate doctors and nurses of tomorrow. Since the School's founding in 1905, more than 12,000 graduates have passed through our doors.

In our pursuit of health for all, our strategic research programmes focus on innovative, cutting-edge biomedical research with collaborators around the world to deliver high-impact solutions to benefit human lives.

The School is the oldest institution of higher learning in the National University of Singapore and a founding institutional member of the National University Health System. It is one of the leading medical schools in Asia and ranks among the best in the world (Times Higher Education World University Rankings 2023 by subject and the Quacquarelli Symonds (QS) World University Rankings by subject 2023).

For more information about NUS Medicine, please visit medicine.nus.edu.sg.

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