TRAIN PERIOPERATIVE NURSES WITH PERIOPSIM & HP

Powered by HP's VR Ready portfolio, PeriopSim is a digital experience-based training solution for clinical educators to more quickly achieve and maintain operating room staff competence.

PeriopSim

PERIOPSIM: LEARN FROM EXPERIENCE

PeriopSim provides training in a safe, non-threatening, realistic environment that dramatically improves upon the education and the experience perioperative RNs and surgical technologists ordinarily obtain in on-the-job settings to develop the confidence and expertise needed to improve and save patient lives.

Unlike existing e-Learning and hands-on training approaches, PeriopSim, powered by the HP VR Ready portfolio, delivers measurably better training with less time and effort, along with a safer experience for the patient and team providing care.

Hospitals turn to PeriopSim when they are faced with:

- Concerned surgeons dissatisfied with the educators & administrators because they have learners in the room lacking confidence & competence during key surgeries; as a result, these surgeons may choose other facilities for their patients.
- OR nurses leave the system when they suffer PTSD (post-traumatic stress disorder) after being in a situation where patient safety was comprised resulting in serious complications
- Senior nurses & preceptors who are burnt out and no longer have the desire to train the next generation
- OR managers forced to staff evening & weekend shifts with team members inadequately trained in rare or infrequent procedures, such as Burr Hole surgery; staff may be called upon to assist with completely unfamiliar procedures.
- OR managers and educators face lower standards of patient safety, due to gaps in staff knowledge.

WITH INCREASING DEMANDS ON EDUCATORS AND DECREASING TRAINING BUDGETS, PERIOPSIM HELPS PREPARE NURSES AND SURGICAL TECHNOLOGISTS BEFORE THEY ENTER THE OR. PRECEPTOR TIME IS MINIMIZED, STAFF IS MORE CONFIDENT, AND NEW TEAM MEMBERS BECOME PRODUCTIVE MORE QUICKLY.
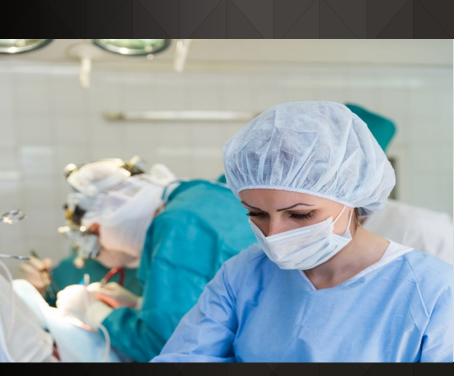
PeriopSim has been developed in close collaboration with surgeons, nurses, educators, and neuroscientists to ensure accuracy and realistic learning outcomes. The concept draws from many years of experience in surgery simulation research and product development.
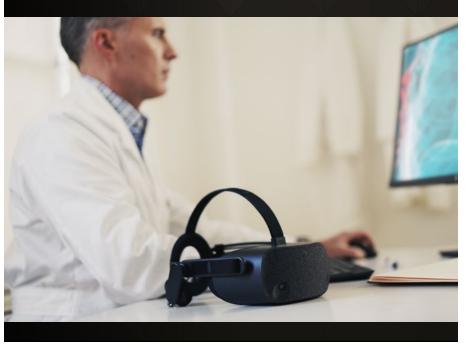
VR: CLINICALLY PROVEN METHODOLOGY

The NCSBN National Simulation Study, which evaluated the effectiveness of replacing clinical hours with simulation experiences, resulted in substantial evidence that substituting high-quality simulation experiences for up to 50% of traditional clinical hours produces comparable end-of-program educational outcomes.[1]

Hands-on, experiential training in an immersive environment creates a safe place to practice repeatable, randomized scenarios to better prepare OR nurses and surgical technologists before they enter the OR for the first time. Simulation-based training from PeriopSim helps prepare new perioperative RNs and surgical technologists for clinical practice. Hospitals and educational programs can achieve comparable outcomes with simulation training versus real instrument training with faster delivery and lower implementation costs, according to the *Simulation-based training for burrhole surgery instrument retention* study.[2]

PERIOPSIM VR TRAINING EXPERIENCES POWERED BY HP'S VR READY PORTFOLIO

BACKED BY NEUROSCIENCE

Conquer Experience, the creators of PeriopSim, is based at the Health Tech Innovation Hub in Canada. The developers work closely with a clinical advisory board.

Key members of the advisory board, Dr. David Clarke and Dr. Ryan D'Arcy were responsible for the development of NeuroTouch™, a neurosurgery simulator developed by the National Research Council of Canada (NRC). Dr. Clarke and Dr D'Arcy performed the world's first Virtual Reality (VR) brain surgery using NeuroTouch in Halifax, in 2009. CAE Healthcare recently licensed and gained exclusive rights to the simulator from NRC and has re-launched it under the brand name NeuroVR™.
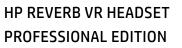
PeriopSim has been selected for several landmark academic research studies to measure the effectiveness of simulation for nursing education. It is the first product in a range of simulation learning solutions for specific clinical roles. Recently published results and preliminary findings indicates PeriopSim simulation-based training:

- improves instrument recognition in a simulated environment.
- improves recognition of real instruments.
- results in retained learning.

DISCOVER THE LIMITLESS POTENTIAL OF VR.
HP POWERS PERIOPSIM

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Meet the new benchmark in Commercial VR to tackle the complex challenges of healthcare training with a new level of clarity.

Innovation worn lightly in an all-new design that's more streamlined and more wearable, offering deeper immersion.

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Get the performance of a desktop with the freedom of a laptop with the world's most powerful mobile workstation.[4]

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HP Z1 ENTRY TOWER G5

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Windows 10 Pro[6] for workstations offers advanced security, collaboration, and connectivity helps you power through trainings.

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Advanced security features comes standard on every Z1 Entry Tower, including HP Client Security Manager Gen4[7] and HP Sure Start Gen4[8].

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NVIDIA® GeForce® RTX 2080
32 GB DDR4 Memory
512 GB PCIe® SSD M.2 Storage

*To enable full 90Hz performance, a DisplayPort™ 1.3 or later connection is required with the graphics solution provided by the PC.

> "The next generation of nurses need education solutions that match their learning styles. PeriopSim not only provides an engaging learning experience, it also is more effective and efficient than current methods. "

AMY BOONE

DIRECTOR OF SURGICAL SERVICES
UNIVERSITY HOSPITALS OF CLEVELAND

EXPERIENCE ON DEMAND

Improve staff skills with efficient, effective, personalized VR training.

PeriopSim stands out with 3 key differentiators: it shortens time to procedural proficiency, offers independent and personalized learning, and provides easy procedural performance reporting.

PeriopSim is 6x faster - run through a traditional 1 hour procedure in 10 minutes. PeriopSim is backed by 4 years of research by leading neuroscientists with input from a broad range of keystakeholders, including educators and preceptors.

PeriopSim offers personalized training without the need for a 1:1 educator. By filming live procedures and working closely with leading educators and surgeons. PeriopSim delivers best-in-class quality content. Educator reports provide quantitative data on learner performance.

PeriopSim is currently available in the US & Canada. For pricing and more information, email:

INFO@PERIOPSIM.COM

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FOOTNOTES
1. Hayden, Jennifer et al. "The NCSBN National Simulation Study: A Longitudinal, Randomized, Controlled Study Replacing Clinical Hours with Simulation in Prelicensure Nursing Education." Journal of Nursing Regulation. Volume 5, Issue 2. July 2014 Supplement. https://www.ncsbn.org/685.htm
2. Clarke, David B. et al. "Simulation-based training for burr hole surgery instrument recognition." BMC Medical Education. 27 May 2016. https://bmcmededuc.biomedcentral.com/articles/10.1186/s12909-016-0669-2
3. Compared to HP Windows Mixed Reality Headset - Professional Edition.
4. Based on HP's internal analysis of ISV-certified mobile workstations as of October 2018, power based on maximum processor, graphics, memory, and power supply.
5. Based on HP's unique and comprehensive security capabilities at no additional cost among vendors >1M unit annual sales as of January 2017 on HP Workstations with 7th Gen and higher Intel® Core™ processors.
6. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, and/or software to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
7. HP Client Security Manager Gen4 requires Windows and Intel® or AMD 8th generation processors.
8. HP Sure Start Gen4 is available on HP Elite and HP Workstation products equipped with 8th generation Intel® or AMD processors.