Welcome to Pulse!!
THE VIRTUAL CLINICAL LEARNING LAB

Pulse!! is an interactive virtual environment simulating operational health-care facilities, procedures and systems. The game-based platform is being designed as a cognitive, experiential learning tool for military and civilian health-care providers. This state-of-the-art simulator employs cutting-edge technologies to create a realistic, complex, high-fidelity virtual health-care lab.

Multiple scenarios will present clinically variant pathologies, patients, settings and emergencies in a controlled virtual environment. Such simulations expose learners to practical experience with rare, life-threatening patient problems where actual frequency is low while the stakes are high.

Pulse!! allows individualized learning through levels of difficulty, performance feedback and capture of clinical environment and patient variation. Multiple cases will confront users with diverse patients exhibiting disease states and trauma from catastrophic injury and battlefield wounds. Repetitive practice on reproducible virtual patients within a cognitive loop design will allow errors to be corrected and performance improved independent of time or location — and at no risk to patients.
PULSE!! AT A GLANCE

PULSE!! The Virtual Clinical Learning Lab has been developed since March 2005 by Dr. Claudia L. McDonald, Associate Vice President for Special Projects at A&M Corpus Christi.

U.S. Rep. Solomon Ortiz, D-Corpus Christi (27th Congressional District), Chairman of the House Armed Services Committee's Subcommittee on Readiness and Military Construction, strongly endorses the project and has helped obtain almost $10 million in grants through the Office of Naval Research in Arlington, Va.

The Pulse!! project has brought together teams of top-notch medical experts and electronic game developers to produce a high-fidelity, persistent, immersive learning platform that will provide high-quality, case-based training for medical personnel similar in kind to flight-simulator training for military pilots.

The project's private-sector partner is BreakAway Ltd. of Hunt Valley, Md., a leader in modeling and simulation software used for developing computer games, innovative military and government training applications and highly advanced data visualization tools.

An international team of Pulse!! medical advisers includes experts in military medicine and medical education assessment.

Achieved More.

Pulse!! is a research project of Texas A&M University-Corpus Christi in collaboration with the Office of Naval Research.

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