



Southern Nevada VAMC Hosts VR Day: Transforming Medical Training with Cutting-Edge Technology

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SimX Vendor demonstrates VR technology at Southern Nevada VAMC. Photographer: John Scott

In caring for our Nation's heroes, the continuous improvement of medical training is essential. Ensuring that our staff is equipped with the latest skills and knowledge directly impacts patient care and outcomes. This is where Virtual Reality (VR) and Artificial Intelligence (AI) come into play, offering groundbreaking solutions for immersive and effective training.

The Southern Nevada VA Medical Center hosted a VR Day which brought together medical professionals, military personnel, first responders, and academic institutions from across southern Nevada. The goal was to explore and evaluate the latest VR and AI advancements in health care simulation. This collaboration highlighted the importance of cutting-edge technology in training medical staff and

highlighted the potential of VR to transform how we prepare our health care professionals for real-world challenges. Some new advancements in software and hardware simulation technologies include:

Enhancing Medical Skills with Virtual Reality: A Leap into the Future

As the health care landscape evolves, our commitment to leveraging cutting-edge technology to enhance patient care remains steadfast. This year's VR Day spotlighted our innovative VR training environment, a game-changer in medical education and professional development.

Virtual Patient Simulators

At the core of our VR training program are virtual patient simulators. These use state-of-the-art physical and electronic sensing devices to improve health care evaluation and training. These sophisticated simulations offer our nurses a risk-free platform to practice and perfect their clinical skills. Each virtual patient presents various scenarios, from routine check-ups to complex emergencies, allowing nurses to build confidence and competence in a controlled setting.



Safe Patient Handling Manager Jason Reese uses VR technology at VR Day event. Photographer: John Scott

VR Headsets

Equipped with state-of-the-art VR headsets, our staff are transported into immersive, lifelike medical environments. These headsets provide 360-degree views, creating a sense of presence that traditional training methods cannot match. This immersive experience helps bridge the gap between theoretical knowledge and practical application, ensuring our staff are better prepared for real-world challenges.



Sonosim vendor prepares for VR Day event at Southern Nevada VAMC. Photographer: John Scott

AI-Driven Scenarios

The integration of AI into our VR training environments marks a significant advancement in personalized learning. AI algorithms dynamically adjust scenarios based on the staff's actions, providing instant feedback and adapting the difficulty level to match their proficiency. This ensures that each training session is uniquely tailored to the individual's learning needs, promoting continuous improvement and mastery.

Experienced Testing Environments

Our VR training program isn't just about practice; it's also about assessment. The experienced testing environments within our VR system use AI to meticulously evaluate performance. From decision-making and technical skills to communication and teamwork, every aspect of medical practice is monitored and assessed, providing invaluable insights that help shape future training and development strategies.

As we celebrate VR Day, we are proud to embrace these advancements that empower our nurses with the skills and confidence they need to provide exceptional care. The integration of virtual patient simulators, VR headsets, and AI-driven scenarios represents a bold step forward in our commitment to excellence in medical education.

Together, we are not just imagining the future of health care—we are building it.