ONEBONSAI

CASE STUDY

VR Hospital Evacuation Training

VR hospital evacuation training: staff decide on patient priority, evacuation routes and medical equipment under pressure, without risk.

Platform: VR / Setting: Hospitals and care facilities / Built with: Healthcare experts



Project overview

VR hospital evacuation training: staff decide on patient priority, evacuation routes and medical equipment under pressure, without risk.

About the project

OneBonsai built VR evacuation training for hospitals. Staff practise evacuating patients with limited mobility, critical conditions or medical equipment during a fire or emergency, deciding on patient priority, evacuation routes and equipment under time pressure. The scenarios were designed with healthcare experts to match real hospital procedures.

Challenge

Preparing Hospital Staff for Complex Evacuations

Medical facilities face unique challenges during fire or emergency evacuations, as patients with limited mobility, critical conditions, or specialized equipment must be safely relocated. Traditional training often lacked realism and failed to give staff hands-on practice in these high-pressure scenarios.

> *"Hospital staff had no realistic way to practice evacuating patients in a crisis without putting anyone at risk."*

Solution

Immersive VR Evacuation Training

OneBonsai developed a VR training module that places hospital staff in lifelike emergency scenarios, requiring them to make real-time decisions about patient prioritization, evacuation routes, and the use of medical equipment under pressure.

Approach

Realistic Healthcare Contexts

The training was designed in collaboration with healthcare experts to reflect actual hospital environments and procedures. By combining immersive simulation with interactive decision-making, the approach ensured staff practiced both technical and teamwork skills in a safe yet realistic environment.

> *"Practicing evacuations in VR helps me prepare and ensure I stay calm in case of a real emergency."*

Outcome

Stronger Preparedness and Safer Responses

The VR evacuation training improved staff readiness, confidence, and coordination during emergencies. It helped medical teams internalize procedures and enhanced overall hospital safety, ensuring patients and staff are better protected in real crisis situations.

> *"It improves both patient safety and staff confidence in critical moments."*

Discuss a similar project

Book a 30-minute technical conversation at hq.onebonsai.agency/meet/evarest