



ASFAN
REALITY

Virtual Reality in Various **Medical** Fields and Specialties



Check it on our website

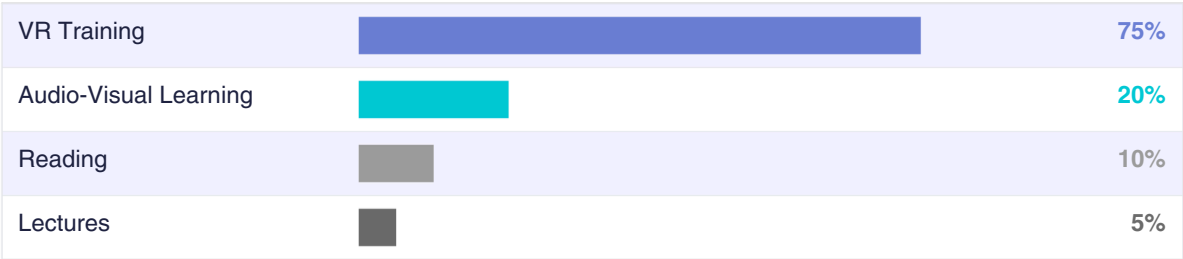
www.asfanco.com



Why VR Training?

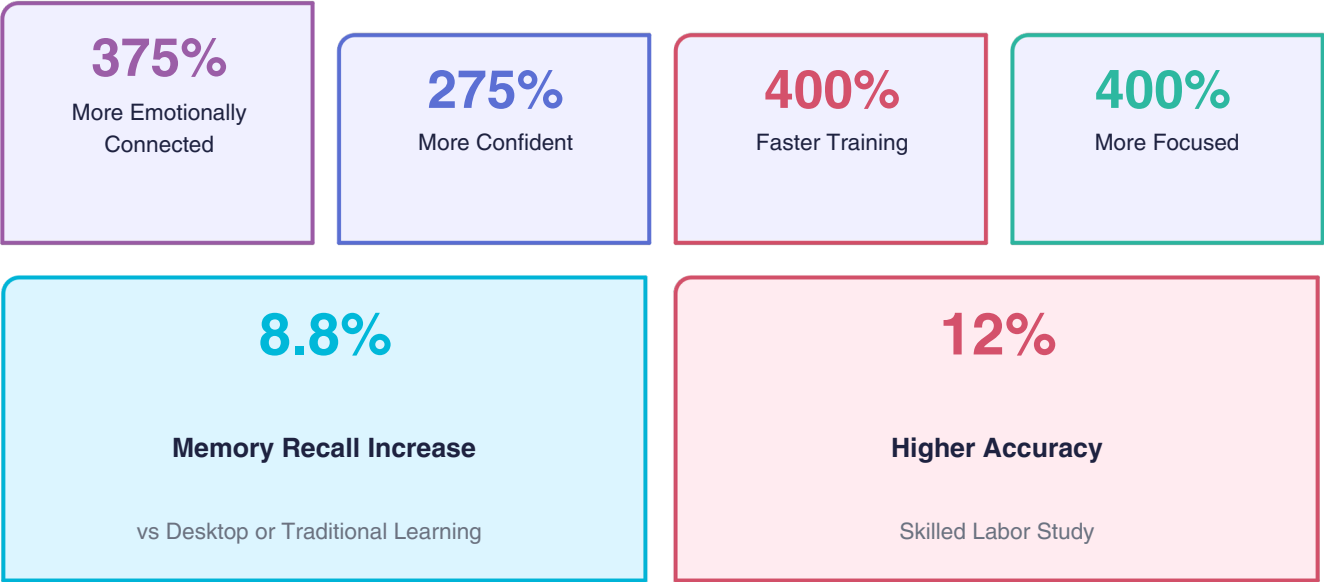
Virtual Reality training is not just a technological upgrade , it is a fundamental shift in how safety knowledge is acquired, retained, and applied. Research consistently shows that immersive VR environments produce measurably better outcomes than any traditional training method.

Information Recall by Training Method



Source: National Education Association

VR Learner Performance vs. Traditional Training



VR in Various Medical Fields and Specialties

45+ Immersive VR Simulations

Virtual Reality in Nursing

- Peripheral IV - Injection
- Peripheral IV - Drip
- Anthropometric Measurements
- Administering Injections
- Measuring Vital Signs:
 1. Temperature Measure
 2. Pulse Rate
 3. Respiration Rate
 4. Blood Pressure
 5. Oxygen Saturation
 6. Glucose Monitor
- Blood Transfusion
- Injection Administration Test
- Hospital-based electric CPR
- 6 Portable CPR AED scenarios
- Infusion Pump
- Ventilation Pressure Mode
- Ventilation Weaning
- Ventilation Volume Modes

Virtual Reality in Medical Equipment and Facilities

- Shoulder X-Ray
- Panoramic X-Ray Machine

Virtual Reality in Emergency Medical Services

- Ambulance Tour
- EpiPen in Medicine
- Drowning Rescue

Virtual Reality in Physical Examination

- Upper Limb Examination
- Jugular Vein Pressure
- Respiratory System Examination
- Auscultation of the Heart
- Measuring Vital Signs
- General Abdominal Examination
- General Cardiovascular Examination
- Precordial Examination
- Chest Physical Examination
- Lower Limb Physical Examination

Virtual Reality in Surgery

- Laparoscopic Hernia Surgery
- Eye Anatomy - BioLab

Virtual Reality in Blood Typing Test

Human Anatomy (500 models)

Virtual Reality in Mental Health

- Mini Mental State Examination
- Fear of Heights
- **Phobia Experiences (13 experiences)**

Nursing (18 experiences)

Overview

Our Virtual Reality (VR) nursing simulations offer an immersive, hands-on learning experience designed to enhance clinical skills, improve accuracy, and build confidence in performing essential medical procedures in a safe environment.

Training Experiences



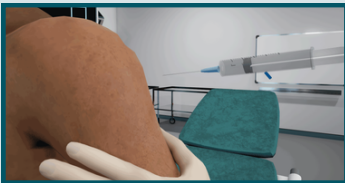
Peripheral IV - Injection

Practice safe and accurate intravenous injection techniques in a controlled virtual setting.



Peripheral IV - Drip

Learn how to properly set up and manage IV fluid administration.



Administering Injections

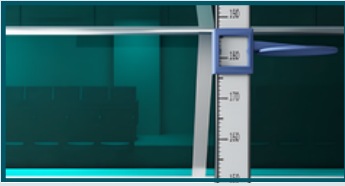
Develop correct techniques for delivering medications via injection.



Injection Administration Test

Test your competency in performing injection procedures in a realistic scenario.





Anthropometric Measurements

Measure and assess patient body parameters such as height and weight.



Blood Transfusion

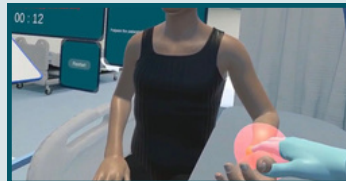
Simulate the correct and safe procedure for administering blood transfusions.

Measuring Vital Signs

This module provides essential training in monitoring a patient's basic health indicators through **six VR experiences**:



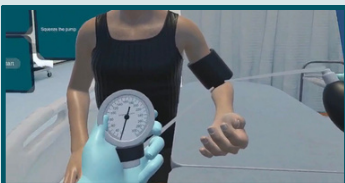
Temperature Measure



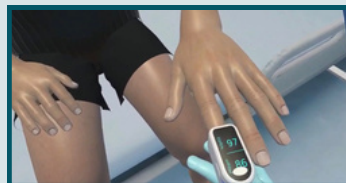
Pulse Rate



Respiration Rate



Blood Pressure



Oxygen Saturation



Glucose Monitor



Infusion Pump

Understand how to operate and manage infusion pumps for accurate medication delivery.

Ventilation



Volume Modes

Learn how to manage ventilation based on volume controlled settings.



Weaning

Practice safely reducing ventilator support as the patient recovers.



Pressure Mode

Explore ventilation using pressure-controlled modes for patient support.



Hospital-based electric CPR

Learn how to perform CPR using hospital-grade electric resuscitation equipment.



3 Portable CPR AED scenarios

Train on 3 different real-life scenarios using portable AED devices for emergency response.

Medical Devices And Facilities (2 experiences)

Overview

This category allows users to explore and operate sophisticated diagnostic machines in a fully virtual space. Learners gain a deep understanding of equipment design, purpose, and operation – without needing access to physical machines.

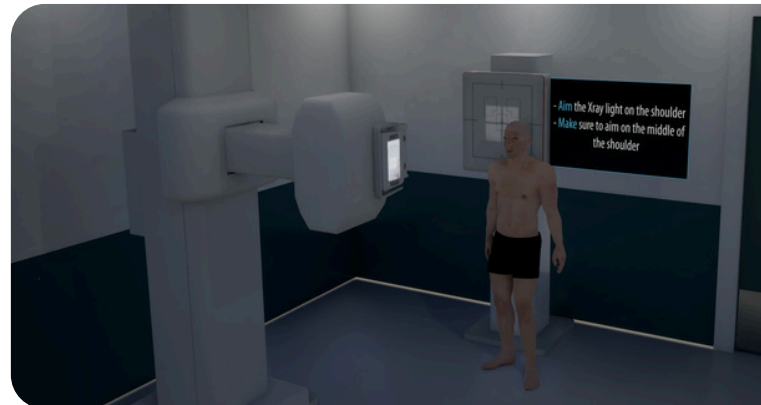
Key Benefits:

- Familiarizes users with imaging procedures and workflows
- Increases equipment confidence without safety risks
- Saves time and reduces equipment wear

Training Experiences



Shoulder X-Ray Imaging



Panoramic X-Ray Machine virtually



Emergency Medical Services (4 experiences)

Overview

Virtual Reality in EMS offers a revolutionary way to enhance the training and preparedness of emergency medical service professionals. By simulating real life emergency scenarios, VR allows EMS workers to practice life-saving techniques, patient care, and decision making skills in a safe, risk free environment.

Training Experiences



1. CPR Assessment

Train on proper CPR techniques with real-time feedback and scenario-based simulations to improve performance.



2. Ambulance Tour

Explore the ambulance environment, understand equipment usage, and simulate emergency scenarios inside a realistic setting.



3. EpiPen Administration

Practice correct EpiPen administration through interactive scenarios with real-time performance tracking.



4. Drowning Rescue

Learn rescue techniques, first aid, and CPR integration in drowning emergency situations through realistic simulations.



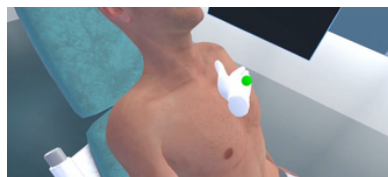
Physical Examination (10 experiences)

Overview

Virtual Reality in Physical Examination is revolutionizing healthcare education by providing an immersive and hands-on training environment for medical students and professionals. Through VR, students can practice performing physical exams on virtual patients, honing their skills in assessing various medical conditions and symptoms.

This technology allows users to simulate real-world scenarios, such as palpating for abnormalities or checking vital signs, all without the risk of harming real patients.

Training Experiences



1. Upper Limb Examination

2. Jugular Vein Pressure assessment

3. Respiratory System Examination

4. Cardiac Auscultation training

5. Measuring Vital Signs Exam

6. General Abdominal Examination

7. General Cardiovascular Examination

8. Precordial Examination

9. Chest Physical Examination

10. Lower Limb Physical Examination

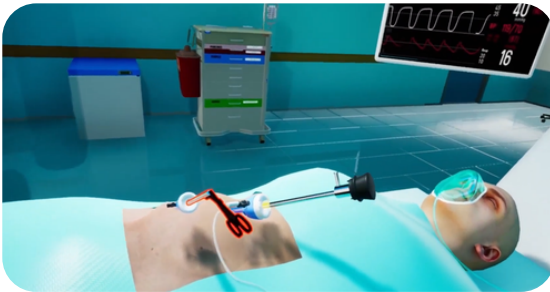


Surgery (2 experiences)

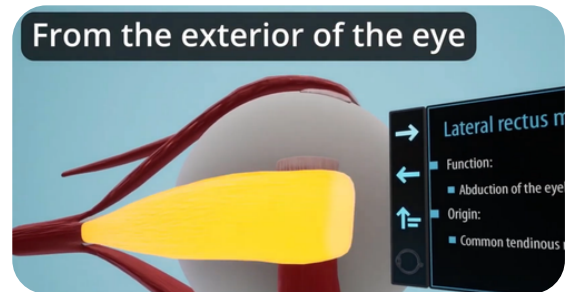
Overview

Virtual Reality Surgery is revolutionizing the way surgical training and practice are conducted. By creating immersive, interactive environments, VR allows medical students and professionals to practice complex procedures without the risks associated with real life surgeries. Surgeons can rehearse and refine their techniques, improving precision and reducing the likelihood of errors during actual operations.

Training Experiences



Laparoscopic Hernia Surgery



Eye Dissection
BioLab virtual anatomy exploration

Key Benefits of ASFAN VR Surgery Training Solutions:

- Risk-Free Practice: Allows surgeons to train and make mistakes without any harm to real patients.
- Realistic Simulations: Offers lifelike surgical environments for a truly immersive experience.
- Enhanced Precision: Improves hand-eye coordination and technique accuracy.
- Preparedness for Emergencies: Trains professionals in high-pressure surgical scenarios.
- Cost-Efficient: Reduces dependency on cadavers and expensive training equipment.
- Performance Analytics: Tracks user progress and highlights areas for improvement.



Blood Typing Test (1 experience)

Overview

In the realm of medical advancements, technology continually plays a significant role in enhancing patient care and simplifying processes. One such innovation capturing attention is the integration of virtual reality (VR) into healthcare, particularly in scenarios traditionally considered complex, such as blood type testing. This blog delves into the concept of virtual reality blood type testing and explores its potential benefits, applications, and future implications.



Key Benefits of ASFAN's Virtual Reality Blood Typing Simulation:

- **Unlimited Repetition:** Users can repeat the test as many times as needed to build confidence and accuracy.
- **Realistic, Interactive Experience:** The VR environment simulates real-life lab conditions, including visible agglutination reactions and reagent handling.
- **Time and Cost Efficiency:** Reduces the need for physical resources and instructor supervision, optimizing training time and budget.
- **Standardized Learning Outcomes:** Ensures that all trainees follow a unified, high-quality training protocol.



Human Anatomy 3D Model

Overview

Step into a fully immersive journey inside the human body. This advanced VR experience allows users to explore anatomy in an interactive, visual, and highly detailed environment. It transforms complex anatomical concepts into an engaging hands-on experience.

Experience Features

Full Body Exploration

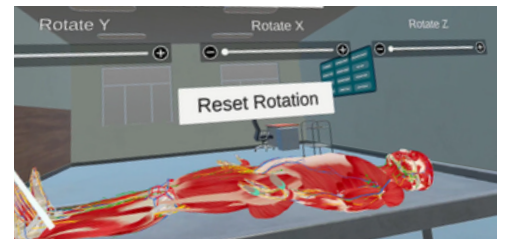
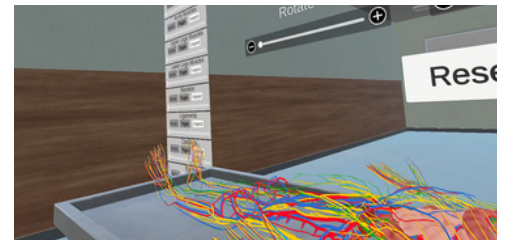
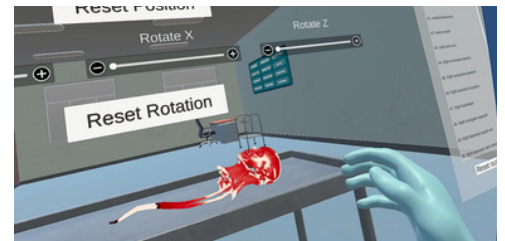
Interact with a complete 3D human body and explore every organ individually with the ability to isolate, inspect, and study each structure in detail.

Layered Anatomy System

Understand the human body layer by layer – from skin to muscles, skeleton, ligaments, and internal organs – with smooth transitions between each level.

Detailed Organ Study

Each organ can be explored independently, allowing users to focus on structure, position, and relationships within the body.



500

500 Anatomical Models

The experience includes a rich library of more than 500 high-quality anatomical models, providing depth and accuracy for advanced learning.

Multiple Viewing Modes



VR



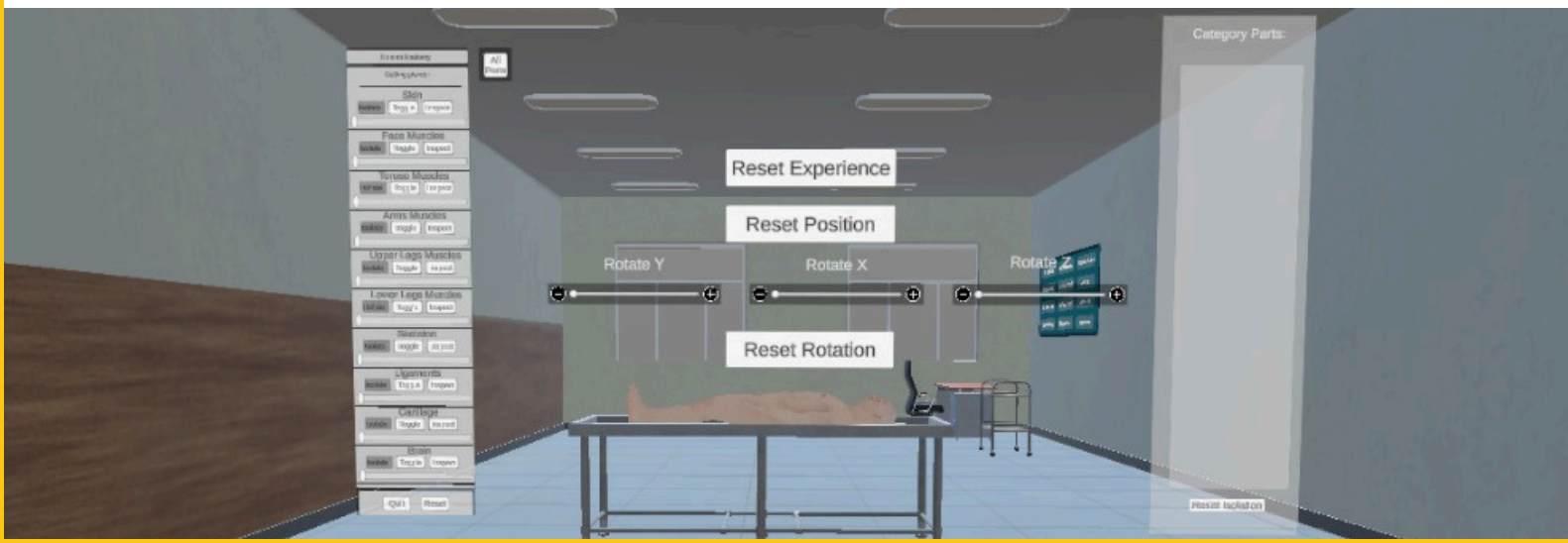
Screens



Immersive Room

Why This Experience?

This is not just a visualization tool — it is a complete educational platform that enhances understanding, improves retention, and brings anatomy to life in a way traditional methods cannot.



Mental Health (15 experiences)

Phobia Experiences

Our VR Phobia Experiences provide a safe, guided, and engaging way to face fears through realistic simulations inside a controlled environment, helping users build confidence step by step. Each experience supports gradual exposure and can be adjusted to match the user's comfort level, making it suitable for structured sessions and measurable progress

1. Fear of Heights Phobia



2. Enclosed Spaces Phobia



3. Hard to Escape Phobia



4. Spiders Phobia



5. Bloods Phobia



6. Needles Phobia



7. Flights Phobia



8. Dogs Phobia



9. Cats Phobia



10. Snakes Phobia



11. Unsanitary Phobia



12. Water Phobia



13. Lizards Phobia



14. Relaxation



Psychiatry

transforming mental health treatment and training by offering immersive and controlled environments that simulate real world scenarios. This technology allows patients to confront their fears or traumas in a safe and supportive space, making it particularly beneficial for treating conditions like anxiety, post-traumatic stress disorder (PTSD), and phobias.

Virtual reality also enables mental health professionals to practice diagnostic and therapeutic techniques, improving their clinical skills without the risks associated with real life patient interactions. Asfan VR solutions in psychiatry provide healthcare workers with an innovative tool for enhancing patient care, allowing for personalized treatment plans and a more interactive approach to mental health therapy.

Training Experiences



Mini Mental State Examination



Fear of Heights (Acrophobia)

Key Features

- Safe and controlled environment
- Realistic and immersive scenarios
- Focus on awareness and skill development
- Suitable for training and educational purposes





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