



ASFAN
REALITY



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



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Virtual Reality in Various Medical Fields and Specialties

(27 experiences)

Virtual Reality in Nursing

- Peripheral IV Line Insertion
- Anthropometric Measurements
- Administering Injections in the Medical Field
- Measuring Vital Signs
- Blood Transfusion with Virtual Reality Technology
- Injection Administration Test in Virtual Reality

Virtual Reality in Medical Equipment and Facilities

- Shoulder X-Ray
- Panoramic X-Ray Machine

Virtual Reality in Emergency Medical Services

- CPR Assessment
- 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

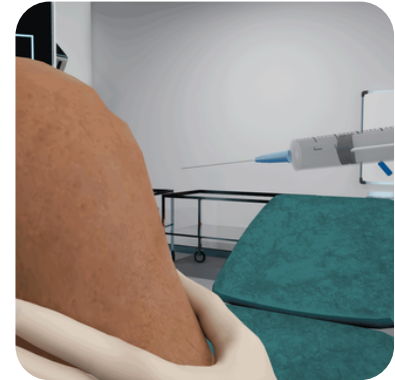
Virtual Reality in Psychiatry

- Mini Mental State Examination
- Fear of Heights

Virtual Reality in Blood Typing Test

Virtual Reality in Nursing (6 experiences)

This VR category empowers nursing students and trainees to safely learn and apply fundamental clinical skills through immersive, hands-on simulations. The platform allows repetitive, self-paced learning that builds confidence and competence in a risk-free environment. Users can interact with virtual patients, medical tools, and procedures in realistic healthcare settings.



Key Experiences:

1. Nurses practice Peripheral IV Line Insertion
2. Conduct Anthropometric Measurements in virtual patients
3. Administer Injections in a simulated safe environment
4. Measure Vital Signs without real equipment
5. Simulate Blood Transfusion using VR technology
6. Take an Injection Administration Test in VR



Key Benefits:

- Reduces learning anxiety through safe practice
- Improves hand-eye coordination and procedural accuracy
- Enhances readiness for real-world patient care



Virtual Reality in Medical Devices And Facilities (2 experiences)

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.

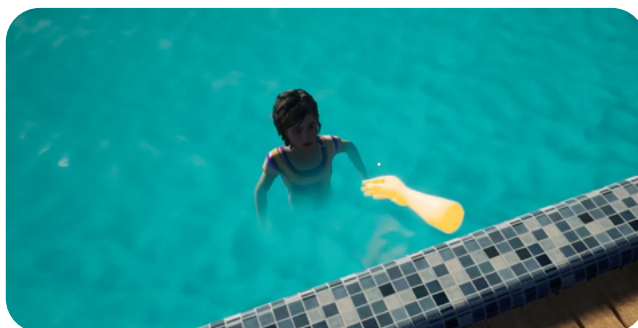
Key Experiences:

1. Shoulder X-Ray Imaging simulated procedure
2. Tour and use of a Panoramic X-Ray Machine virtually

Key Benefits:

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





Virtual Reality in Emergency Medical Services (4 experiences)

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.

Key Experiences:

1. CPR Assessment: simulated scenario to evaluate and practice resuscitation
2. Ambulance Tour: familiarize with ambulance layout and equipment
3. EpiPen Administration: emergency injection simulation
4. Drowning Rescue: interactive virtual rescue protocol



Virtual Reality in Physical Examination

(10 experiences)

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.



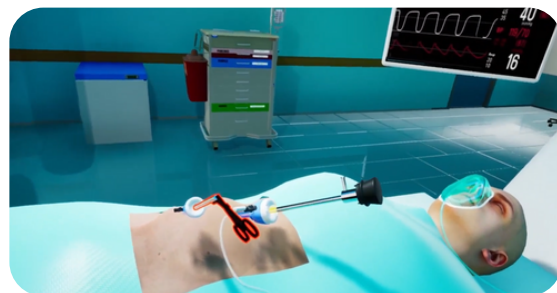
Key Experiences:

1. Upper Limb Examination
2. Jugular Vein Pressure assessment
3. Respiratory System Examination
4. Cardiac Auscultation training
5. Measuring Vital Signs in simulated exam
6. General Abdominal Examination
7. General Cardiovascular Examination
8. Anterior Region Examination
9. Chest Physical Examination
10. Lower Limb Physical Examination



Virtual Reality in Surgery (2 experiences)

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.



Key Experiences:

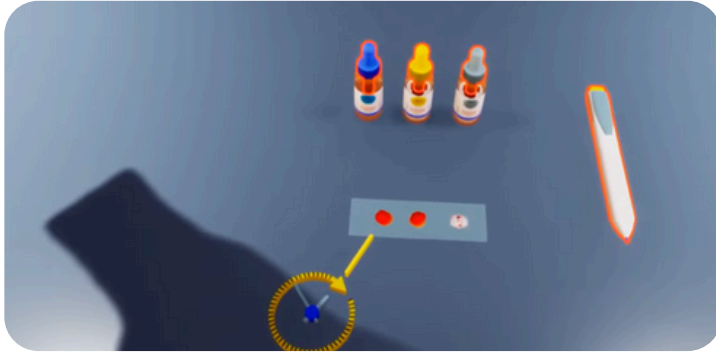
1. Laparoscopic Hernia Surgery simulation
2. Eye Dissection - BioLab virtual anatomy exploration



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.





Virtual Reality in Blood Typing Test (1 experience)

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.



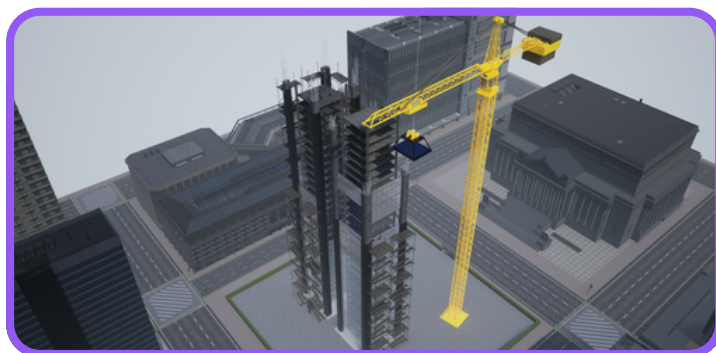
Virtual Reality in Psychiatry (2 experiences)

Virtual Reality in Psychiatry is 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.

Key Experiences:

1. Mini Mental State Examination
2. Fear of Heights (Acrophobia) exposure therapy in controlled VR environments





ASFAN

www.asfanco.com



+962 776623912



+962 65825020



info@asfanco.com



Amman- Jordan | Mecca str. 226



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