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ASFAN International Trading Company
شركـــــة أصفـــان للتجـــارة الدوليـــة

Medical VR Experiences
Business | Training | Education

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Medical VR Experiences
Description

Physical Examination

Upper Limb Physical Examination

The Upper Limb Physical Examination VR Experience is an immersive virtual reality experience designed to simulate and enhance the learning and practice of upper limb physical examination skills for medical students, and enthusiasts. This VR experience offers an interactive environment that allows users to examine and assess various aspects of the upper extremities, including joints, muscles, and neurological functions.

Objectives

* Provide a realistic and visually immersive VR environment that replicates a clinical setting, allowing users to practice upper limb physical examinations in a lifelike and controlled space.
* Align the VR experience with existing medical education curricula, making it a valuable supplementary tool for medical schools, residency programs, and continuing education courses focused on musculoskeletal and neurological examinations.

Jugular Venous Pressure

The "Jugular Venous Pressure (JVP) Examination in VR" offers an immersive virtual reality VR Experience tailored for learning and mastering the technique of assessing the JVP. This comprehensive tool allows users to visualize and interact with a simulated patient's neck and jugular venous system. Beyond mere observation, users can practice two critical methods of JVP assessment: occluding the vein and abdominal pressure maneuvers. Furthermore, users can calculate the JVP based on the height of the jugular venous column, adding a quantitative dimension to their assessment and interpretation.

Objectives

Enhance JVP assessment skills through immersive visualization and calculation, improving clinical understanding.

Respiratory Examination VR

This is an immersive virtual reality experience designed to guide users through a general respiratory examination. This virtual reality simulation offers a realistic and interactive exploration of respiratory health, equipping users with the skills to conduct a thorough examination and identify potential respiratory issues.

Objectives

* Create realistic scenarios for users to practice general inspection techniques, fostering the ability to assess a patient's respiratory health through visual examination in a controlled and risk-free virtual setting.
* Offer immediate feedback and guidance to users, providing insights into their inspection techniques and diagnostic accuracy, allowing for continuous improvement.

Heart Auscultation

The Heart Auscultation VR experience provides users with an immersive virtual reality platform to learn and practice the art of cardiac auscultation as a single user or in VR Collaboration with others. Users wear a VR headset and are transported into a virtual medical environment where they can listen to different simulated heart sounds and murmurs through a virtual stethoscope and can learn more about the etiology and clinical features of each heart sound.

Objectives

Enhance medical education by offering a hands-on, immersive VR Experience for learning and practicing cardiac auscultation, By combining realistic sound simulations with interactive 3D visuals.

Cardiopulmonary Resuscitation(CPR) Assessment

Dive into the world of vital signs through an engaging VR experience. Explore and understand the five key indicators—temperature, blood pressure, pulse rate, respiration rate, and oxygen saturation. This immersive experience guides users through step-by-step, hands-on simulations, allowing them to actively perform and master each vital sign measurement. Gain a comprehensive understanding of these crucial health markers in a detailed and guided virtual environment.

Objectives

Users will perform the five vital signs, which are Temperature, Blood Pressure, Respiration Rate, Pulse Rate, and Oxygen Saturation, in a step-by-step hands-on approach in this VR experience.

General Abdominal Examination

The General Abdominal Examination experience is a professional experience that caters to medical practitioners and students. Through this experience you will be examining different parts of the body where symtpoms related to the abdomen can appear on. This experience also provides a high level of immersion by offering you the choice of using direct voice commands.

Objectives

Immerse in a General Abdominal Examination experience to identify symptoms related to the abdomen.

General Inspection of the Cardiovascular System

This is an immersive virtual reality experience designed to guide users through a general cardiovascular examination. This virtual reality simulation offers a realistic and interactive exploration of cardiovascular health, equipping users with the skills to conduct a thorough examination and identify potential cardiovascular issues.

Objectives

* Facilitate seamless integration with existing medical education curricula, allowing educators to incorporate the VR experience as a supplementary tool.
* Enable collaborative learning experiences by allowing multiple users to explore and discuss cardiovascular cases together in the virtual space, fostering teamwork and knowledge sharing.

Master Precordial Examination with VR Training

Master Precordial Examination with VR Training Experience VR training for mastering the precordial examination, essential for physicians. This virtual environment enables thorough chest examination, assessing cardiac and circulatory function with lifelike patients at home. Our guide includes:

* Observing skin changes
* Palpating the apex beat
* Identifying heaves and thrills
* Detecting sacral and pitting edema
* Auscultating abnormal heart sounds
* Using the stethoscope bell and diaphragm correctly
* Performing special maneuvers, like breath-holding to detect abnormal sounds

VR training addresses traditional challenges like limited patient availability and high student-to-patient ratios. Enhanced sound and light features accurately perceive heart sounds and pulses. Users can use a desktop, controller, or hand-tracking for precise palpation, with voice commands for realistic patient movements.

Objectives

Designed for medical students, residents, and practicing physicians, our VR program accelerates learning, enhances understanding, and builds confidence in healthcare professionals.

Chest Physical Examination

The Chest Physical Examination Experience is a professional experience that caters to medical practitioners and students, offering a precise platform to enhance kowledge in the respiratory system assessment. Through this experience you will be practicing palaption, percussion and refining your auscultation skills with realistic breathing sounds accurate to diferent diagnosis.

Objectives

Immerse in a chest physical examination to identify symptoms, enhance palpation skills, learn correct percussion technique and refine auscultation proficiency for a comprehensive respiratory assessment.

Nursing

Peripheral IV Line Insertion

The "Peripheral IV" VR Experience is crafted to guide nursing professionals in the intricacies of peripheral intravenous catheter placement. Within this immersive environment, users undergo hands-on simulations, learning and refining the techniques essential for accurate and safe IV insertions, ensuring optimal patient comfort and care.

Objectives

To enhance nursing proficiency in peripheral IV insertion ensuring optimal patient care and venous access outcomes.

Anthropometric Measurements

Immerse yourself in a hands-on learning experience designed to teach and help you practice measuring the human body in virtual reality. Gain proficiency in accurate measurements of arms, legs, and skinfold dimensions, all within a virtual setting. This immersive platform allows users to understand anatomical nuances and develop essential skills for healthcare practice.

Objectives

Users will learn the basics of anthropometric measurements and their importance, as well as how to perform the measurements with guided instructions.

Injection Administration

Injection administration is a critical skill for healthcare professionals. as it enables the delivery of various types of medications directly into the patient's body. ensuring rapid effectiveness. This VR experience focuses on different types of injections that can be given at different sites, each with their own unique set of steps. These include intramuscular (IM). Intradermal (ID). And subcutaneous injections (Sub-Q), aiming to teach users how to correctly administer each different type of injection throughout the body, as well as allow the users to administer the injections themselves in an interactive VR experience.

Objectives

Users will be able to study the different types of injections that can be given at various sites, each with its own unique set of steps, as well as practice administering the injection to a patient.

Vital Sign Measurement

Dive into the world of vital signs through an engaging VR experience. Explore and understand the five key indicators—temperature, blood pressure, pulse rate, respiration rate, and oxygen saturation. This immersive experience guides users through step-by-step, hands-on simulations, allowing them to actively perform and master each vital sign measurement. Gain a comprehensive understanding of these crucial health markers in a detailed and guided virtual environment.

Objectives

Users will perform the five vital signs, which are Temperature, Blood Pressure, Respiration Rate, Pulse Rate, and Oxygen Saturation, in a step-by-step hands-on approach in this VR experience.

Blood Transfusion

The Blood tranfsusion VR Experience is dedicated to mastering the intricacies of blood transfusion procedures and protocols, particularly emphasizing the use of infusion pumps. Users engage in a comprehensive simulation, meticulously following each step of the transfusion process, ensuring precise pump settings, safety checks, and adherence to established guidelines.

Objectives

Equip nursing professionals with the skills and confidence to execute blood transfusions using infusion pumps safely and effectively, ensuring optimal patient care and procedural accuracy.

EMS

Cardiopulmonary Resuscitation(CPR) Assessment

Dive into the virtual reality EMS training experience designed to educate users on the fundamentals of Cardio-Pulmonary Resuscitation (CPR). Gain a thorough understanding of the significance of CPR, its applications, and the essential equipment involved. This immersive journey empowers users to learn, step-by-step, the correct methods of performing CPR. Practice and refine your skills in a realistic virtual environment, ensuring a hands-on, interactive approach to mastering this life-saving technique.

Objectives

Users will learn the fundamentals of CPR and its importance, as well as how to perform CPR with guided instructions.

Ambulance Tour

Explore the world of ambulances in a virtual reality setting. Explore and understand the interior of these life-saving vehicles, including state-of-the-art medical equipment and specialized compartments. Move freely in this virtual space and examine every aspect of the ambulance and its equipment.

Objectives

Users will acquire fundamental knowledge about ambulances, including their equipment, the general layout of an ambulance, as well as a comprehensive understanding of how they operate.

How to use an EpiPen

This is an immersive virtual reality experience designed to empower users with the knowledge and skills to effectively use an epinephrine auto-injector (EpiPen) during an allergic emergency. Explore lifelike settings, where an allergic reaction might occur. The environment is carefully crafted to simulate potential anaphylactic scenarios, enhancing your ability to recognize when immediate intervention is necessary.

Objectives

* Users Enhance first aid education by offering a hands-on, immersive VR Experience that simulate scenario where users must recognize situations that require the use of an EpiPen.
* Guide users through the correct steps for handling and preparing an EpiPen for use.
* Simulate the process of administering the EpiPen, including the correct angle and duration of injection.

Drowning Rescue Method

This is an immersive virtual reality experience crafted to provide users with the knowledge and practical skills needed to execute effective drowning rescue methods in pool settings. This immersive training is designed to simulate realistic pool scenarios, equipping users with the confidence to respond swiftly and competently when faced with a drowning emergency.

Objectives

* Engage with interactive modules to understand the fundamentals of recognizing distress signals, assessing the situation, and approaching a drowning victim safely.
* Practice identifying submerged victims in various pool depths and conditions.
* Interact with rescue equipment to deploy these tools efficiently to aid drowning victims.

Psychiatry

Mini Mental State Exam

Dive into a new era of cognitive assessment with our revolutionary Virtual Reality (VR) Mini-Mental State Exam (MMSE). Combining realistic environments, high-precision analytics, and engaging interactions, this pioneering platform empowers health professionals to identify cognitive issues swiftly and effectively. Foster meaningful connections with patients through shared immersive experiences – all while enhancing clinical decision-making capabilities. Embrace innovation – upgrade to the next level in cognitive evaluation today!

Objectives

Elevate your cognitive assessments with our immersive VR MMSE, offering detailed insights, heightened patient interaction, and streamlined decision-making. Upgrade your diagnostic arsenal today!

Surgery

Laparoscopic Hernia Surgery

The Laparoscopic Hernia Surgery VR experience aims to bridge the gap between theoretical knowledge and practical application, providing a safe and informative environment for medical students, and enthusiasts to enhance their understanding of laparoscopic hernia repair procedures.

Objectives

* Get hands-on experience with laparoscopic surgical instruments and equipment.
* Learn the proper placement of trocars for optimal access to the hernia site.

Devices and Facilities

Shoulder X-Ray

In this Xray Demo, you'll step into a VR radiology room. You'll learn to operate an Xray machine, and position the Xray tube. A virtual patient will be your guide as you learn to position them correctly for a shoulder Xray.

Objectives

Learn the fundemental and basic steps of an Xray scan.

Panoramic X-Ray Machine

Step into our VR Dental Clinic to master operating a panoramic X-ray machine. Learn the customary protocol of introducing a patient to the machine and learn the machine functions, patient positioning, and image capturing through a guided tutorial. Gain confidence in X-ray procedures as you refine your skills in a virtual dental setting.

Objectives

Learn how to operate a Panoramic X-Ray Machine