MediVR

Intro Deck

July 2022

Supported by:

Our Vision

To ensure better patient outcomes by redefining medical training globally.

Our Mission

Leading the way for new medical simulation training,
by empowering medical professionals
to create and practice
with realistic patient scenarios at scale.

MediVR

Awards

STARTUP SG Founder Ignite Winner

Awarded by Singapore Minister for Education
Mr Chan Chun Sing

Achievements:

Congratulations!
SGTech-SoC Prize Winner
NUS SoC Innovation Prize 2020

NEW AND EARLY STAGE START-UPS
NUS Venture Initiation Programme

NUSGRIP
GRADUATE RESEARCH INNOVATION PROGRAMME

Featured in

Network

Clients

Medical Institutions

Hospital

Medical Device Companies

Integrating Technology for a Reimagined Healthcare Education

Combining technologies to create the best learning experience

Artificial Intelligence

VR/MR Ready

MediVR

Multi-User

Data Analytics
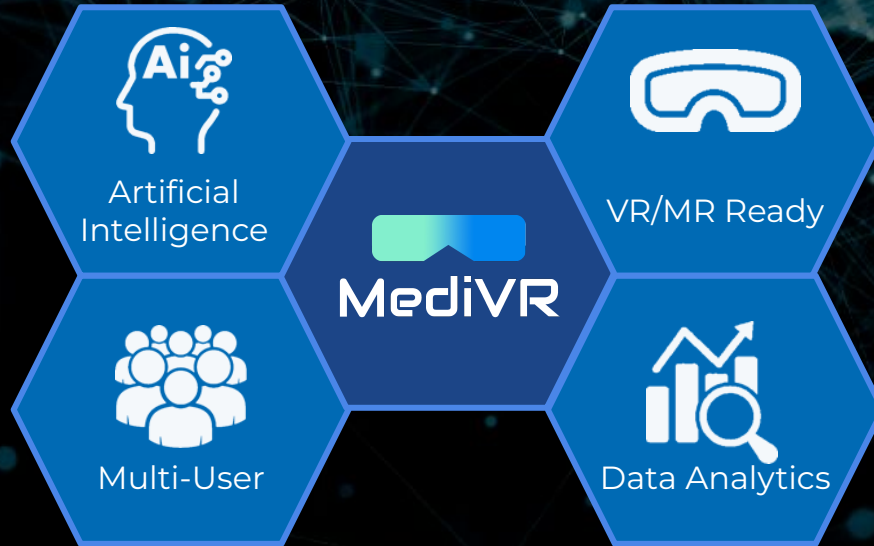
Dr Gabriel Liu
Head & Senior Consultant
NUH Spine Centre

Benefits

1 | **Up to 95%** time savings in creating scenarios*

4 | **10x** more scenarios per disease*

2 | **30%** time savings in training time, average savings of S$88 per labor hour#

5 | **80%** agree that program is beneficial for learning*

3 | **60%** increased task efficiency, knowledge acquisition & retention

6 | **>90%** response accuracy*

MediVR Orthopedic Pilot Study

* Based on 40 user tests conducted on year 1-5 medical students
# Based on Forrester's "The Total Economic Impact™ Of Mixed Reality Using Microsoft HoloLens 2"

MediVR's AI-Powered Virtual Patient

Patient History
- Reflects real world statistics (eg. dementia and age)
- Reflected in all aspects of the patient's presentation

Physical Symptoms
- Show accurate patient physical characteristic (pregnant)
- Realistic movements/animations (limp, gait of a scoliosis patient)
- Rare conditions

Conversation
- Patient wants to convey their symptoms and pains, expects doctor to understand and help solve their problem
- Hidden intents that doctors have to dig into*

Behavior and Reaction
- Patient expresses themselves
- Emotions (ie. upset, distraught, expectations not met)*
- Expectations and worries addressed*
- Handle sensitive topics*

MediConvoAI

Realistic Conversation with Patients
Custom-trained NLP model

Powers all Virtual Patients to process medical dialogue

- Full Patient History Taking
- Understands Open Ended Questions
- Intelligent Intent Recognition
- Uncertainty & Clarification System
- Asking for Patient Permission
- Express Patient's Concerns

* Features are coming soon

MediConvoAI

Able hold a full patient history conversation:

1. Patient's personal information
2. Presenting symptom
3. History of the presenting illness
4. Drug and treatment history
5. Past history
6. Social history
7. Family history
8. Systems review

MediCreator

Doctors have the power to create realistic Virtual Patients with us

Multiple variations from 1 medical scenario:

- Greater Replayability
- Varying Difficulty Level

Share your Case Notes & Scenarios

MediVR's Specialised Tools

AI Conversation

Patient Behaviour

Physical Appearances

Industry Standard Animations

Natural Interaction

MediVR's Virtual Patient

Speak

Examine

Treat

With Medical Accuracy

MediCreator Example

Disease: L4/5 Spondylolisthesis (Lower back pain)

- Symptoms: **Similar**
- Onsets/Triggers: **Similar**

- Demographics: **Different**
- Social/Family History: **Different**

**Leads to Different Differential Diagnoses
&
Affects Management Plan**

Patients Generated by MediVR's SSG

CORONAL BRAIN

AI Virtual Patient

Manage Difficult Situations

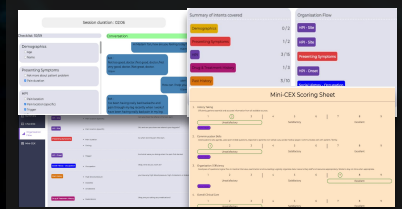Learn to manage difficult situations with patients. Improve confidence and interpersonal skills.

Multiple Virtual Patients

Learn to prioritise and manage multiple patients in a flexible and dynamic environment

Real-time Controller
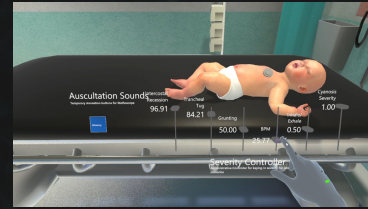
Customize parameters of the scenario in real time, on top of pre-set scenarios
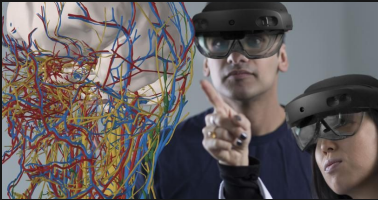
Advance Assessment

Standardise and reduce assessor bias with objective data analytics
Track user improvement over time and recommend improvements

Medical Education Applications

Virtual Cadaver/Anatomy

Replicate any human anatomy without the need for expensive Manikins or rare to find Cadavers

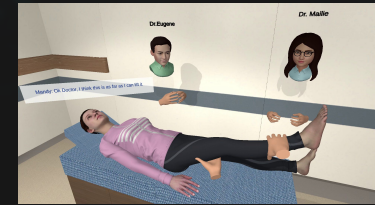## Realistic Lessons in Classroom

Bring our VIrtual Patients into the classroom and guide your students to engage & learn.

Self Directed Learning

Learning can take place anytime anywhere. A pandemic proof solution the medical education needs.
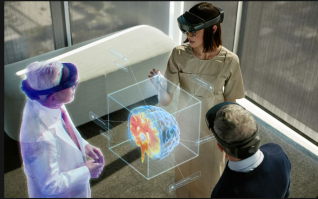
Global Collaboration

Medical professionals can collaborate with each other from anywhere in the world. Interdisciplinary training is easier than ever.

Clinical Application & Use-Cases

Surgical Planning

- Medical field agnostic surgical planning in 3D MR
- Automatic 3D visualization using real world unique patient medical scans
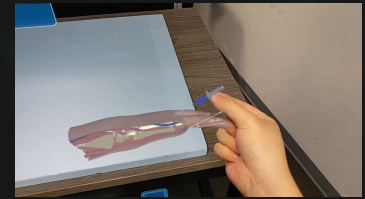
Remote Expert Consultation

- Remote telehealth or teleconsultation with specialists
- Remote surgical planning and collaboration
- Virtual Rounds
- Medical Metaverse

Patient Education

- Enhance procedure comprehension
- Reduce procedure anxiety
- Increased patient satisfaction
- Improve patient consent

Training Guides

- Create interactive training modules for procedures
- Enable physicians anywhere in the world to leverage your unique approach to complex procedures for training & education
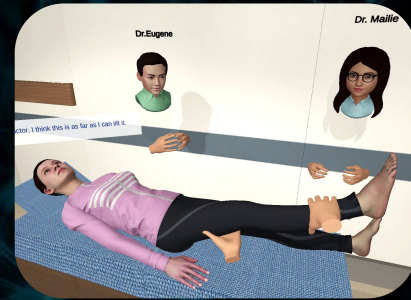
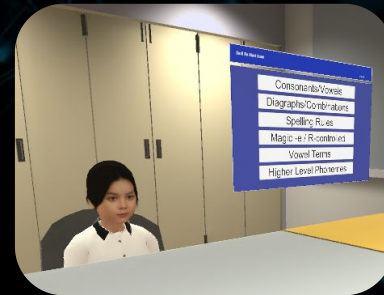# MediVR Scenarios

COVID Swab Supervisor

Clinical Examination

Physical Examination

Ophthalmology Examination

Paediatrics Respiratory Distress

Literacy Training

(More upcoming)

MediVR

CONTACT US FOR A DEMO

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🌐 **www.medivr.io**