Introduction

To create a comprehensive 3D printed organ system that allows a patient to overlay a custom augmented reality (AR) animation

To modernize patient education while also increasing patient enrollment and adherence in clinical studies

To increase patient trust in medicine and pharmaceutical companies

Features

Custom Animation: Patients can select between various diseases, treatments, and disorders, tuned directly to their diagnosis and health situation

Visual Comprehension: Conditions are animated on a macro-scale and are compared to a healthy control model

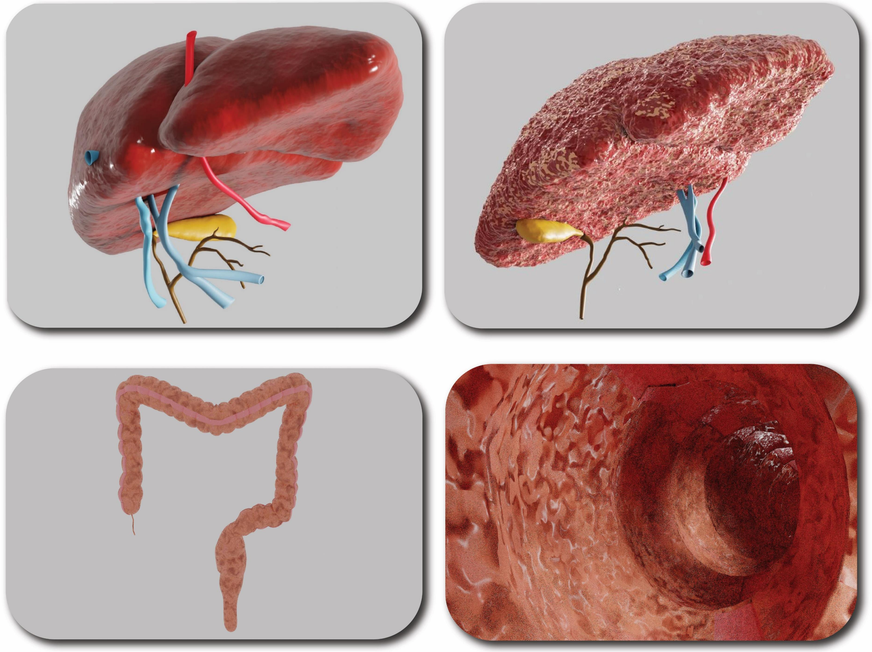
Accessibility: Patients can utilize VAROS on their mobile device while doctors can interact with our organ models in AR

VAROS

Virtual & Augmented Reality Organ Systems

VIRGINIA TECH

GEORGE MASON UNIVERSITY



Future Directions

Microsoft HoloLens is a pair of mixed reality smart glasses that is designed for business applications

This technology allows for immersive control of the organ system within different avenues of the medical field

Our initial application of the HoloLens is in patient and student education

Future applications extend into all fields of medicine

Below is a rendered model of a cirrhotic liver in augmented reality using the HoloLens

