

Virtual Physical: Transforming Cardiology Care



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Heart disease: #1 killer

- → Delayed diagnoses for time-sensitive treatments
- → Exacerbated preventable complications

Underlying issue: cardiologist too far from patients

Partial solution: telemedicine cardiologist

video call with

Why isn't telemedicine working?



Diagnosis

Subjective Objective Symptom Physiological Measurements Description Diagnosis

Goal: integrate medical device data (objective phys. measurements) to enable diagnosis in virtual consult

State of the art: Tytocare

At-home physical exam with medical devices

Limitation: patient doesn't know how to do physical exam maneuvers

How we innovate: have medicallytrained med tech do the exam

> Minimizes errors in physical exam

Solving patient overload



- Assess cardiovascular health through physical exams · Maintain detailed notes of
- · Prescribe tests, medications treatments, surgeries, etc. · Consult with patients

User needs

The primary users of our web-based platform are medical technicians and cardiologists. The web-based platform must also comply with regulations such as HIPAA (security updates, backup, & disaster recovery)

Virtual Physical in Action: Convenient for Patients, Intuitive for Medical Techs, Informative for Cardiologists



Patient visits a local clinic (CVS, Walgreens, etc.)

- No appointment necessary
- Saves time for patients

Medical technician records physical exam data

- Guides exam maneuvers
- Cardiology-focused medical devices

Stores patient information on Amazon S3, cloudbased storage

- HIPAA compliant
- Easily scalable
- Multiple file formats (images, video, text)

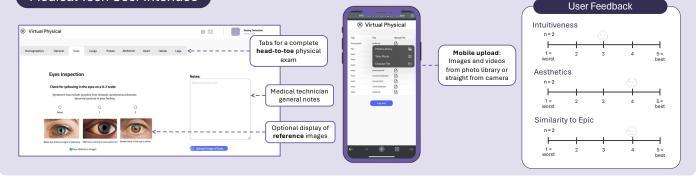
Cardiologist asynchronously reviews patient charts

- Similar to Epic
- Reduced errors in patient charts

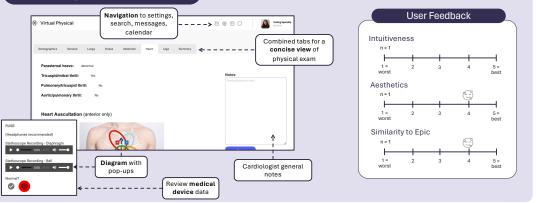
Cardiologist schedules virtual call to diagnose and treat patient

Saves time for cardiologists

Medical Tech User Interface



Cardiologist User Interface





Impact

Telemedicine success for any specialty medicine

Eliminated across healthcare

- delayed diagnoses for timesensitive treatments
- preventable complications