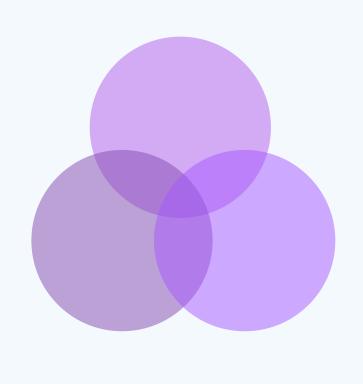
mHealth: Capturing remote patient data and making it useful for clinicians



mHealth is the convergence of technology, medicine, and human activity

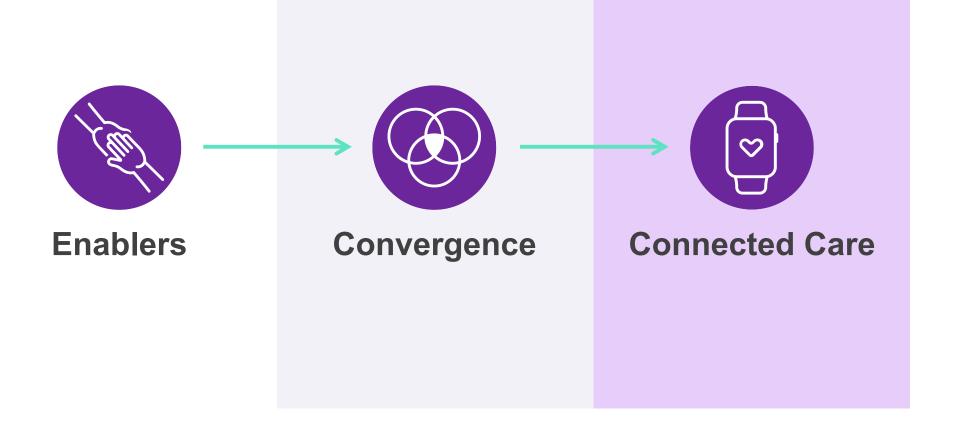


mHealth can enhance the connection between patients and clinicians



How did this happen?



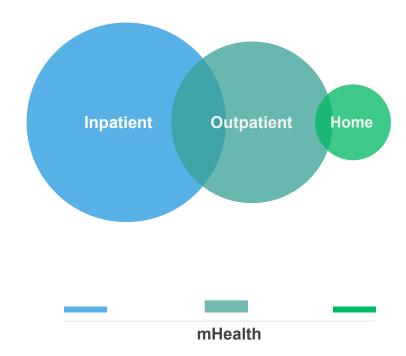




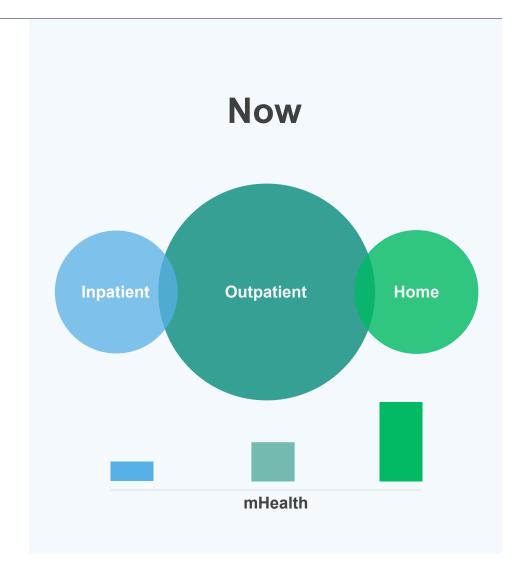
Enablers

Enablers

Then



Enablers Then Inpatient Outpatient Home mHealth



Advances in baseline technology











Access

Broadband infrastructure allows video communication

Smartphone penetration into global population allows app prescriptions

Wireless

Wifi, Bluetooth

Sensors

Geolocations

Smaller + Cheaper

Nanotechnology

Smaller devices

Cheaper and widely available component hardware

AI / ML / NLP

Artificial Intelligence predicts or suggests probable outcomes

Machine Learning Systems; White/Black Box

Voice/Natural Language Processing documentation & commands

AR / VR

Emerging clinical use

Advances in medical technology





Patient portals

API Standards

HealthKit



Medical Devices

Pacemakers

Insulin pumps



Complex care

Monitoring

Post-op

Rehab



Miniaturization

Remote Monitoring

Home diagnostics

Societal shifts



Family structure

Less social support

Family structure atomized

Decline of extended family as caregiver

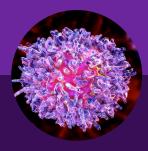


Age shifts

Aging baby boom

Rise of digital natives

Rising comfort with asynchronous medical care



Rise of chronic disease

Obesity/diabetes

Cancer survival

Better treatments



Work-life Imbalance

Longer working hours

Longer commutes

Rise of telework



Consumer Standards

Commodification/ corporatization of healthcare

Patient as consumer

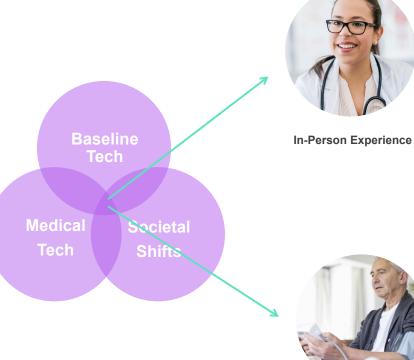
Rising expectations of digital experience



Convergence

Convergence

Convergence of Enablers Improves Patient-Clinician Relationships



Remote Experience

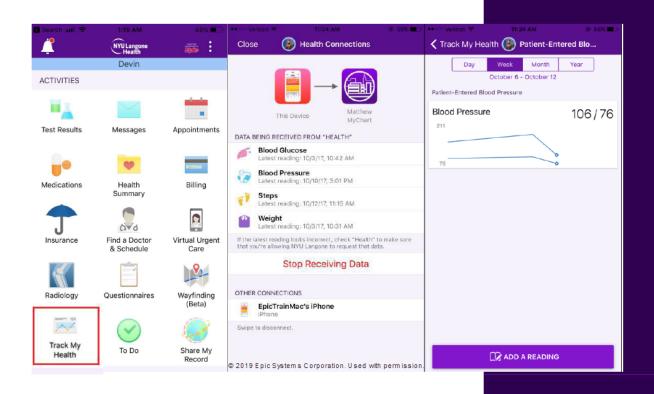


Connected Care

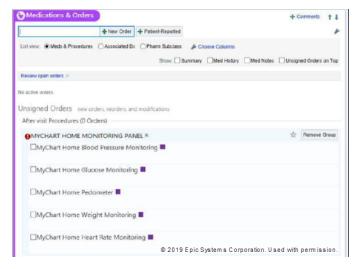


Connected Care: EHR integration today

Patient View



Connected Care: EHR integration today







Blood pressure (systolic and diastolic)



Steps



Spirometry



CGM



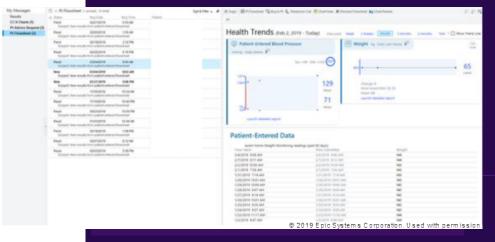
Glucose

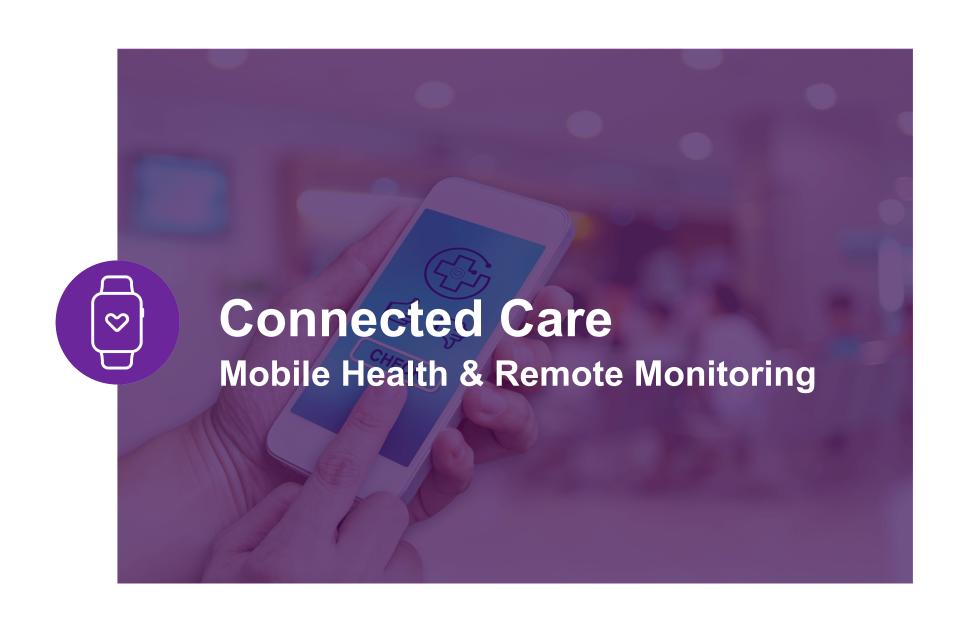
Heart Rate



Weight

Insulin pump





Connected Care: mHealth + Remote Monitoring

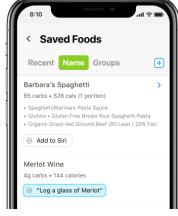












Diabetes

Track and share glucose

Online coaches

Al predictions







Connected Care: mHealth + Remote

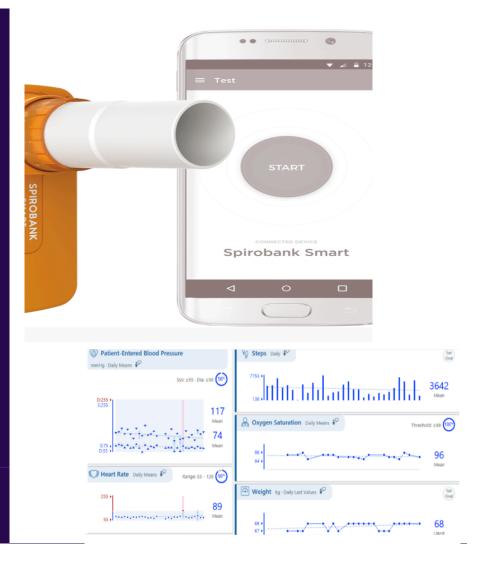
Lung Transplant

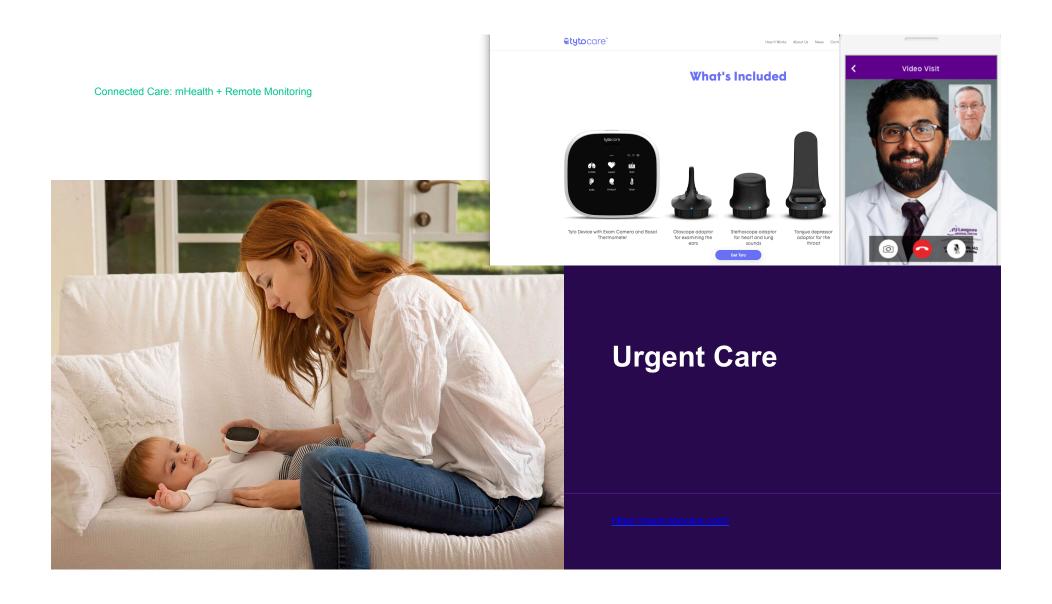
1 year high risk of rejection

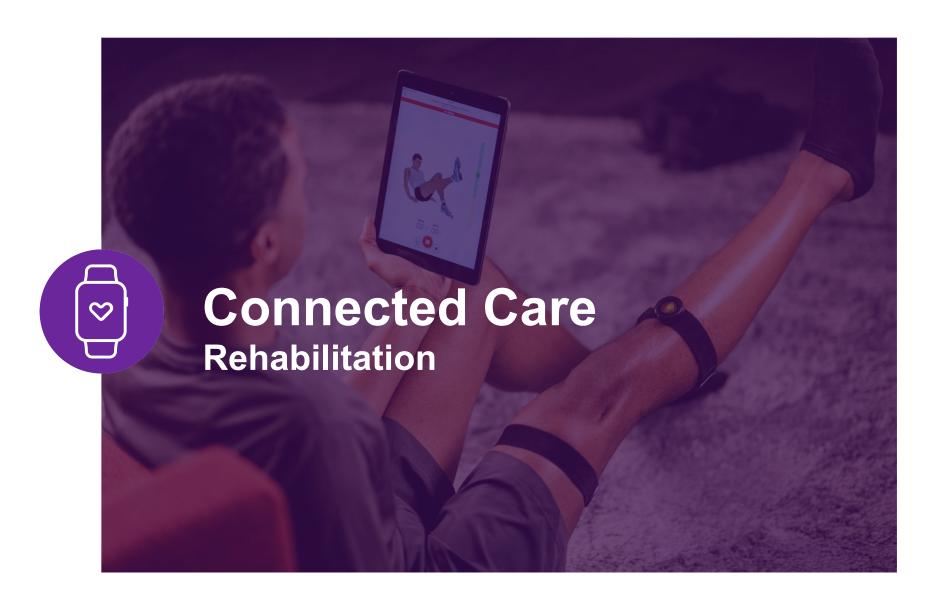
Historically required frequent in-person follow-up

Harness 7+ home devices to manage remotely with telemedicine

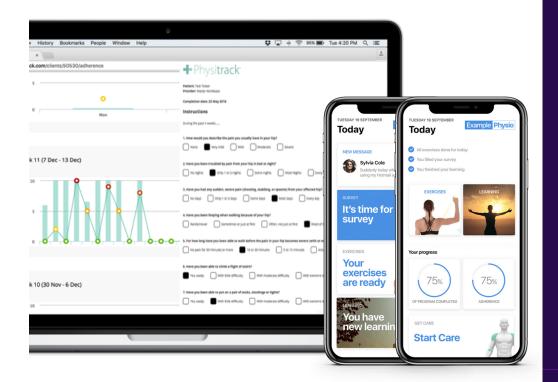








Connected Care: Rehab

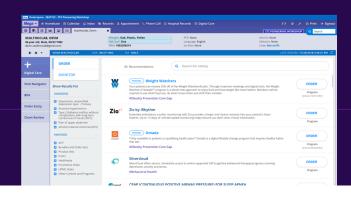


http://physitrack.com

Physitrack with Xealth Integration

Digitally prescribe (via EHR) custom home exercises for our occupational and physical therapy patients.

Patients to view videos and content from within NYU Langone Health MyChart.

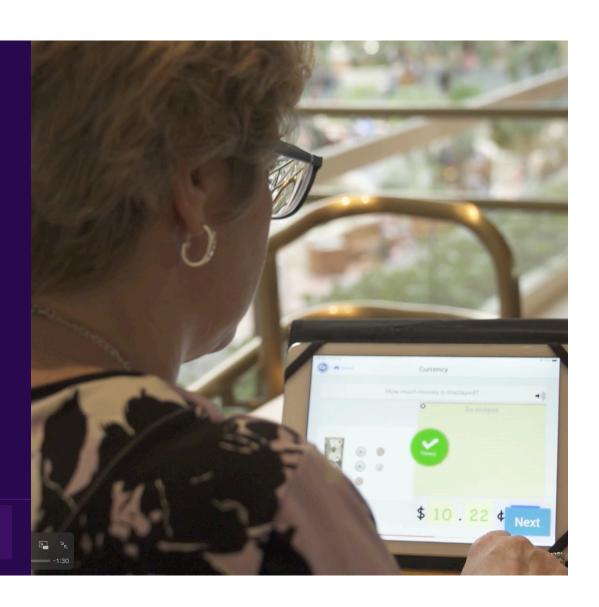


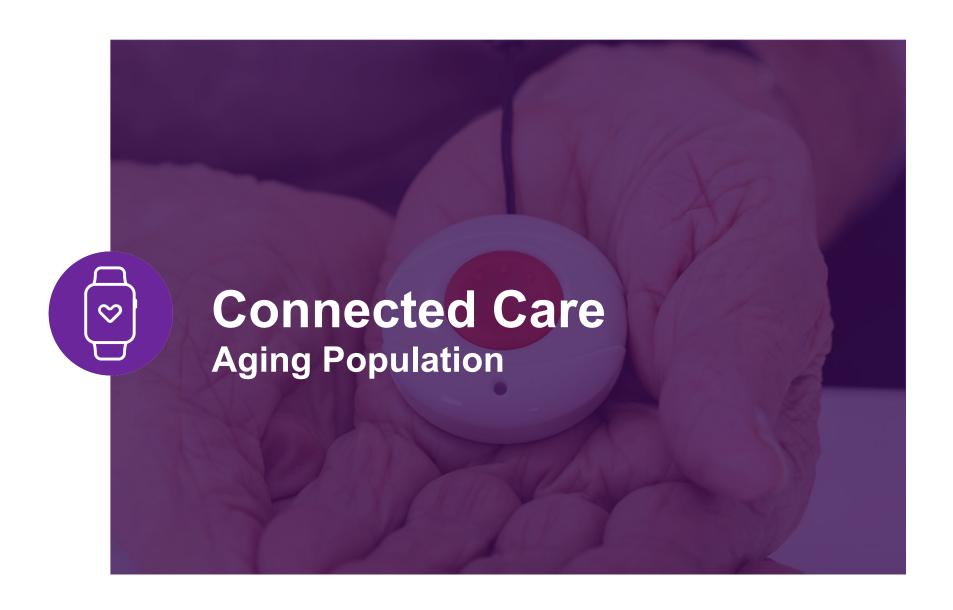
Constant Therapy

Language therapy app for post-stroke patients

Rehab exercises prescribed by speech language pathologists, neurologists and occupational therapists

letter of the element of the end of the end





Connected Care: Aging Population

Canary Care

Senior care enbabled with home sensors

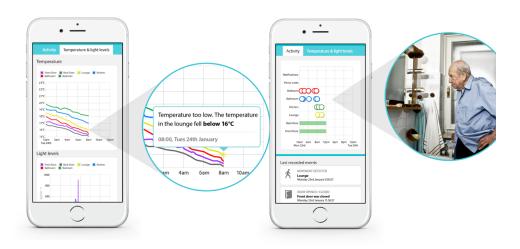
Door activity, temp, movement

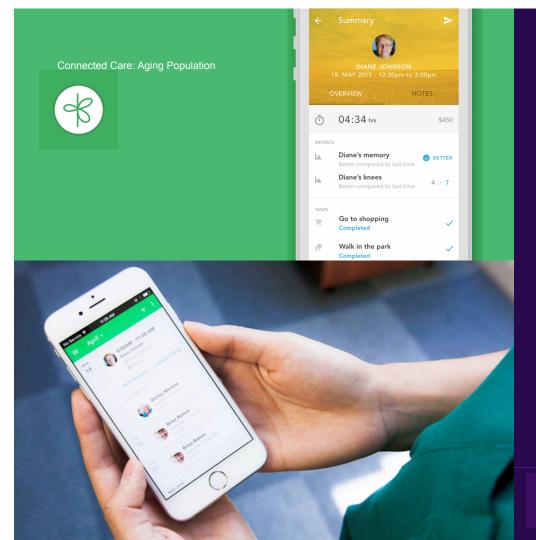
Privacy aware (no mic or cameras, encryption)

https://www.canarycare.co.uk/



Getting Started Guide





Kindly Care

Background-checked elderly caregiver, to receive full support throughout care needs, an app for managing tasks and schedules.

https://www.kindlycare.com

The Potential



Connected Data



Personalized Treatment



Better Relationships



