

Health Care on our Terms: Portable, App Driven & On Demand

Jeff Cutler, Chief Revenue Officer Tyto Care Our world as consumers has changed drastically in the last 10 years....





We've gone from this.....





....to this.....



....and this.....







...to this.....



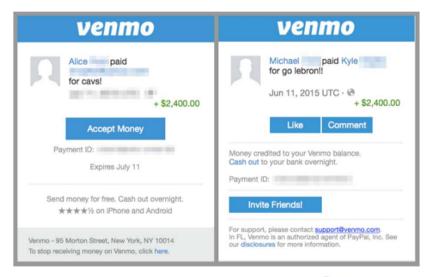




Even this...

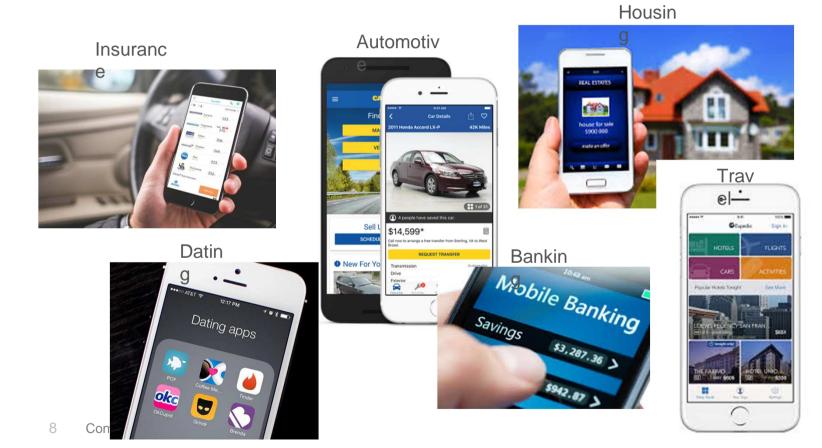


to this...





Just about every industry has transformed



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So why does health care still look like this?





Consumerization: Business on our terms

App-driven On-Demand Always accessible Transparency – Cost, Access, Quality Convenient Mass Personalization Easy to use & access massive amounts of information Trustworthy Brands Fun & intelligent interfaces Reduced costs

It's time for health care to get on board.....



Healthcare is about to drastically change

- Patient centric, on demand, and app driven
- Home exams, tests and diagnoses
- Improved access to doctors and healthcare data
- Increased transparency of cost, services, and quality of care



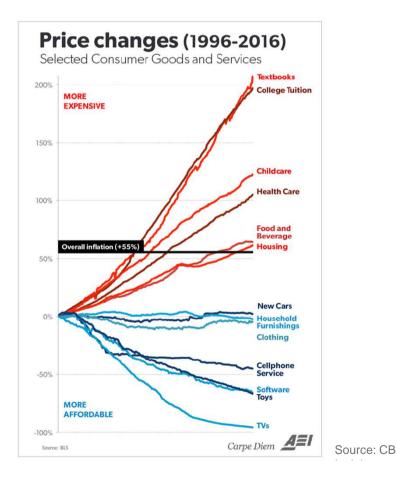
Timing is right – the perfect storm

- Rising health care costs
- Shortage of doctors
- Consumer demand
- Technological advances





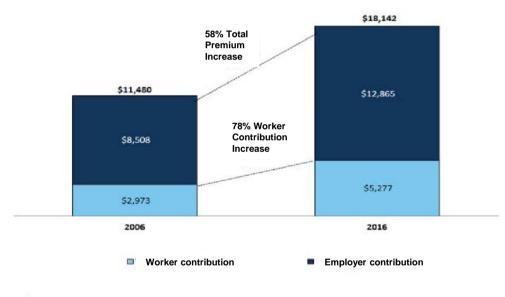
Health care costs on the rise





Workers paying more for insurance than ever before

Average Annual Health Insurance Premiums and Worker Contributions for Family Coverage, 2006-2016

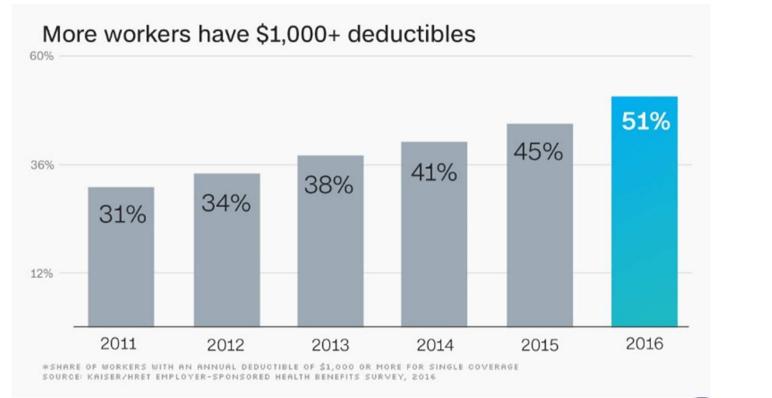


SOURCE: Kalser/HRET Survey of Employer-Sponsored Health Benefits, 2006-2016.



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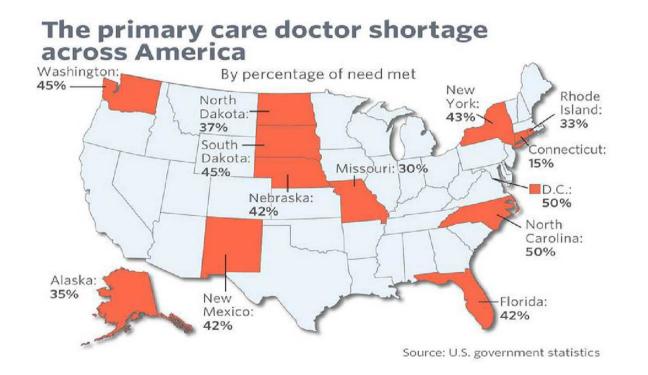
51% of employees now have \$1000+ deductibles



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Primary care shortage in U.S.



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Long wait times to see the doctor

Average wait time in days to schedule an appointment with a physician in a family practice, cardiology, dermatology, orthopedic surgery, or ap obstetrics/gynecology

Average wait time in days to schedule an appointment with a family physician



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Health care: Ripe for consumerization

Cost

- Copays vs High-Deductible plans
- More shift of cost to consumers
- How much does it cost?
- Savings Incentives



Transparency: Access

Access

- In Network?
- Accepting New Patients?
- Convenient Appointments?
- Are my health records accessible?



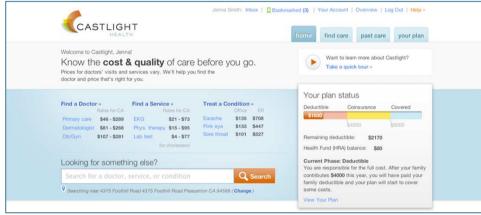
Transparency: Quality

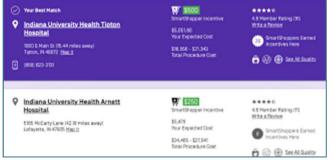
Quality

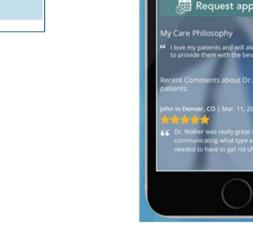
- Outcomes success, mortality rates
- Procedure Volumes
- Ratings
- Quality Scores

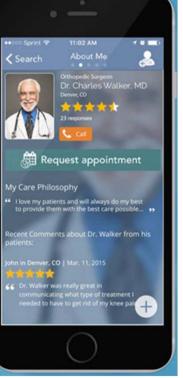


Transparency tools



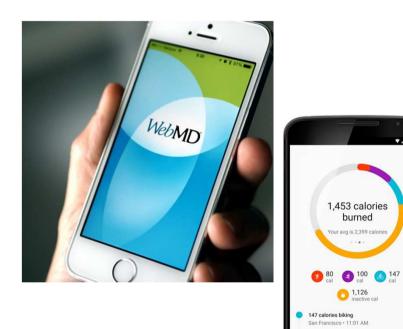




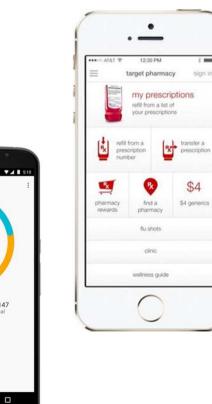




Health and wellness apps



80 calories walking San Francisco • 9:12 AM



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sign in



What if....this was a reality?







Telehealth: App-driven, on-demand, transparent

Telehealth advances over time, phone to video to home diagnostics







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What is telehealth?

- Telehealth encompasses a broad variety of technologies and tactics to deliver virtual medical, health, and education
- It can be clinician to clinician (professional) or clinician to patient (consumer)
- The desired outcome is better and more effective patient care





How telehealth can help

- ✓ Monitor chronic, high risk, and post-op patients at home
- Provide remote exams and diagnoses to all of your patients
- ✓ Reduce leakage
- Reduce readmission rates
- Improve patient outcomes
- Reduce costs
- Improve staff utilization
- Increase patient satisfaction



Where telehealth can help



In the home:

- ✓ Urgent care
- ✓ Chronic care
- ✓ Mental health and wellness
- ✓ Elderly



Health Systems:

- ✓ Chronic care mgmt.
- ✓ Radiology/stroke/cardio care
- ✓ Mental health
- ✓ Pediatrics
- ✓ Post-discharge/skilled nursing
- ✓ Schools



In the workplace:

- ✓ Telehealth kiosks
- ✓ Home telehealth for employees



Retail:

✓ Clinics

✓ Specialist consults



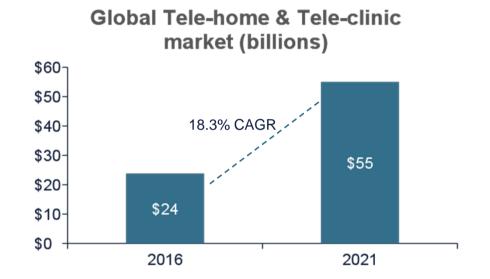
Major telehealth platform technologies



Next generation – consumer connected devices



Telehealth market expecting significant growth



Growth drivers:

- Pressure to reduce costs and leverage expertise
- Value-based care
- Consumer push for convenience
- Technological innovations
- Expanded reimbursement coverage



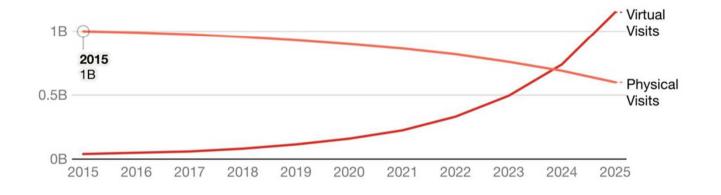
Source: BCC Research 2016



Virtual visits projected to surpass physical visits in future

Projected Number of Office Visits, 2015 to 2025

Social forces, including the mobility of the nuclear family, the aging of populations, and the rapid adoption of technology are expected to expand the use of telemedicine visits.



http://fortune.com/2017/05/02/brainstorm-health-2017/ Source: University of Rochester Medical Center



Recent headlines

Kaiser CEO: Telehealth Outpaced In-Person Visits Last Year

52 percent of last year's patient transactions at Kaiser Permanente were conducted online, by virtual visits or through the health system's apps, CEO Bernard Tyson says.



By Conner Forrest | November 16, 2017, 7:05 AM PST

Telehealth policy changes mean big revenue opportunities for hospitals

Pending developments in government policy around access to virtual care and reimbursement for services delivered are opening doors for hospital executives.

Telemedicine is about to get a huge boost from Medicare and Medicaid approval

A proposed rule in the Medicare Physician Fee Schedule in 2018 would cover expenses related to remote patient monitoring, potentially fast-tracking telehealth services.



Patients are ready to embrace telehealth

- 88% believe working with their providers as a partner will help with their health
- ✓ 84% believe self-tracking with devices and apps, and sharing it with their health team, would help manage their health
- ✓ 77% believe it would help both of them the provider and themselves
- ✓ 76% say they'd **use an easy, accurate device**
- ✓ 81% of those would be more likely to use one if it is recommended by their provider

Source: Society for Participatory Medicine – Feb, 2016



Interested in acute care and convenience

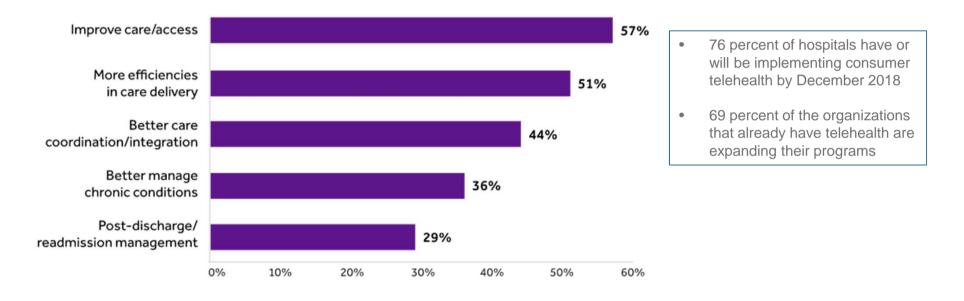
- Families are most interested in using telehealth for:
 - \succ cold and flu (58%)
 - > pink eye (51%)
 - ➤ rashes (48%)
 - ➤ well-child visits (41%)
- Convenience (80.7%) is prime reason for choosing online rather than in-office doctor visits
- Followed by immediate care vs. waiting for an in-office visit (53.4%) or after-hours (52.3%)

Source: Nemours consumer research, 2017



Health system goals for consumer telehealth

Top Five Goals for Hospitals/Health Systems with Current Consumer Telehealth Programs



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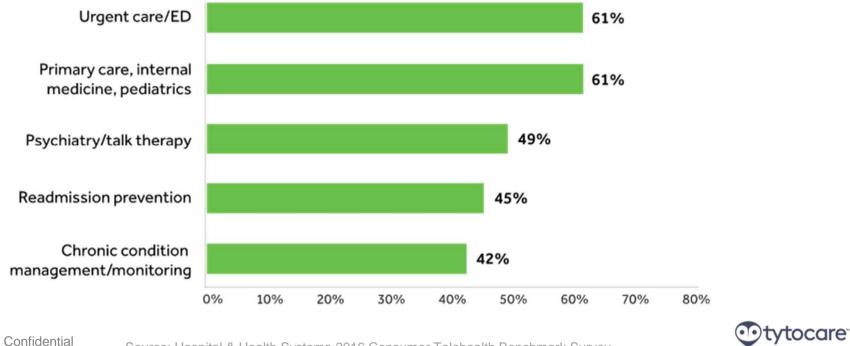
Source: Hospital & Health Systems 2016 Consumer Telehealth Benchmark Survey



Health systems – current usage

Leading Telehealth Services Offered — Current Users

36

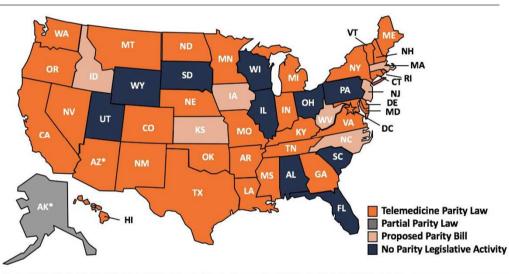


Source: Hospital & Health Systems 2016 Consumer Telehealth Benchmark Survey

Majority of states now have parity laws to cover

telehealth

States with Parity Laws for Private Insurance Coverage of Telemedicine (2017)



States with the year of enactment: Alaska (2016)⁶, Arizona (2013)⁴, Arkanasa (2015), California (1996), Colorado (2001), Connecticut (2015), Delaware (2015), Georgia (2006), Hawaii (1999), Indiana (2015), Kentucky (2000), Louisiana (1995), Maine (2009), Maryland (2012), Michigan (2012), Minesota (2015), Mississippi (2013), Missiouri (2013), Mohana (2013), Nebraska (2017), Nevada (2015), New Hampshire (2009), New Mexico (2013), New Tork (2014), North Dakota (2017), Oklahoma (1997), Oregon (2009), Rhode Island (2016), Tennessee (2014), Texas (1997), Vermont (2012), Virginia (2010), Washington (2015) and the District of Columbia (2013)

States with proposed/pending legislation: In 2017, Idaho, Iowa, Kansas, Massachusetts, New Jersey, North Carolina, and West Virginia

*Coverage applies to certain health services.



Employers see telehealth as a way to reduce costs

- ✓ In 2015, 48% of large (5k+) employers offered telehealth; in 2017 projected up to 90%
- Employers could save up to \$6 billion annually through remote consults for nonurgent primary care visits
- ✓ Average cost of telehealth visit is \$50 compared to \$160 for urgent care visit or \$650 for ER
- ✓ Effective use could reduce physician office visits and ER visits by 15% and urgent care visits by 37%
- ✓ Millennials are attractive target as they make up more than half of workforce

Source: urac.org



Critical offerings

- ✓ HIPAA Compliance
- ✓ Secure data storage
- ✓ EHR integration
- ✓ Video platform (many telehealth visits still done via phone)
- ✓ Value-added services
 - Customizable scheduling & reporting
 - Clinical programs (e.g. wellness, chronic care, smoking cessation)
 - Usage and retention
- Expanding into diagnostic tools/lab testing/monitoring devices (in the home)



Telehealth usage has been limited...

> 70% of consumers have access to telehealth but

< 5% utilization

Why?

- Phone or video only
- Limited ability to examine patient remotely
- Lack of trust (doctor and patient)
- Lack of proof telehealth works
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Key question remains – how to replicate this at home?



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TytoCare – comprehensive exams, anytime, anywhere



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- □ Comprehensive medical exams anyone can perform
 - ✓ Innovative navigation & guidance capabilities
 - "Exam & Forward" or Live Telehealth Exam
 - Joigital camera, otoscope, stethoscope, and thermometer

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- Open APIs
- EHR integration
- HIPAA compliant



Addressing the most common primary care & chronic conditions



- Upper respiratory infection
- Cough
- Bronchitis
- Whooping Cough
 - Sinus infections
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- Otitis media
- (ear)
- Sore throat
- Flu
- Contact dermatitis
- Fever

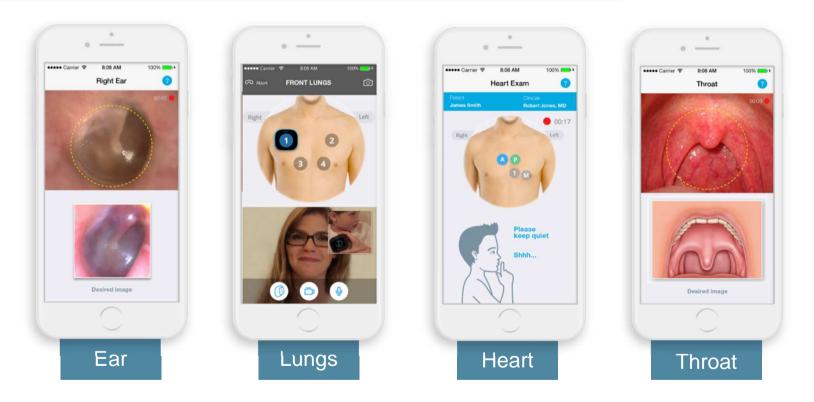
- Pneumonia
- Vomiting/diarrhea
- Constipation
- Wound care
- Eczema & rashes



- Asthma
- COPD
- CHF
- Elderly
- Disabled
- Complex care

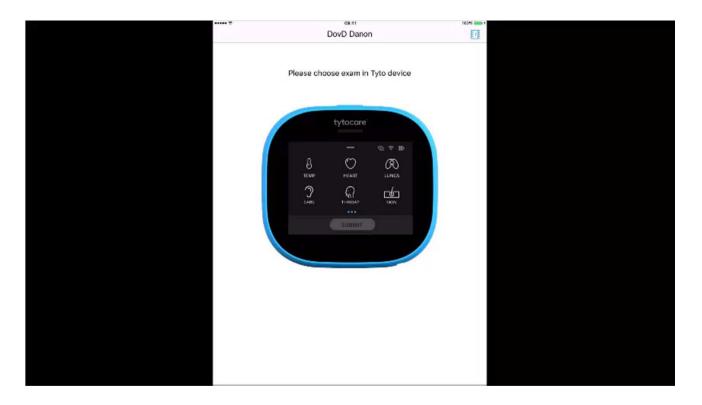


How it works: Exam and forward with guidance



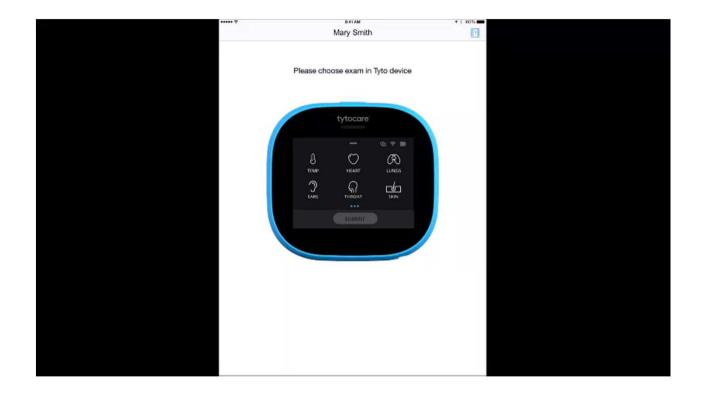


Guided ear exam



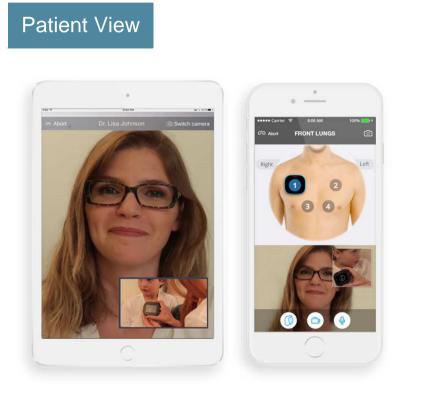


Guided heart exam





How it works : Live telehealth examination



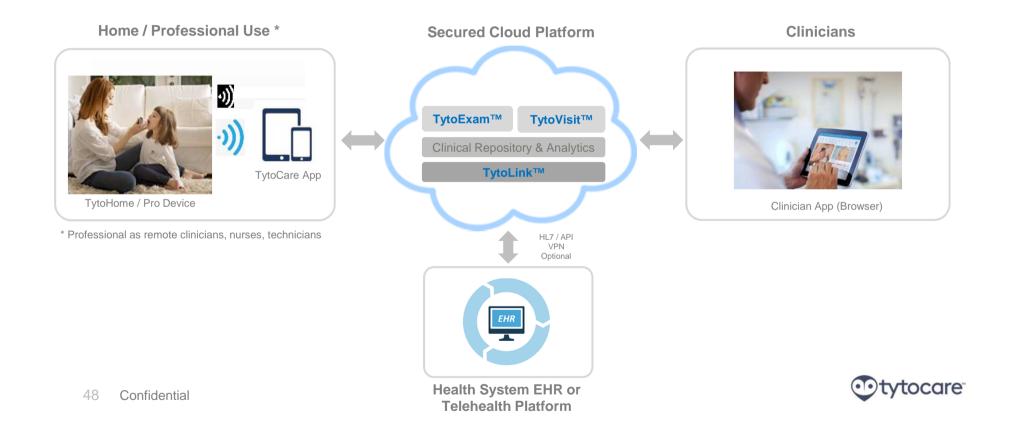


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Physician View

Complete cloud-based telehealth solution



New patient-centric experience – now possible!

Sickness takes hold

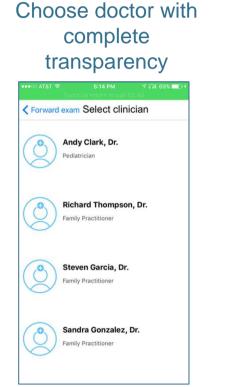
Capture exam data at home using connected devices



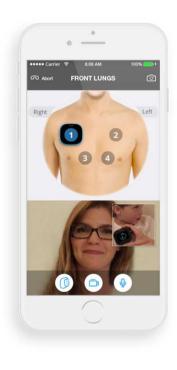




New patient-centric experience – now possible!



Conduct live remote exam with doctor

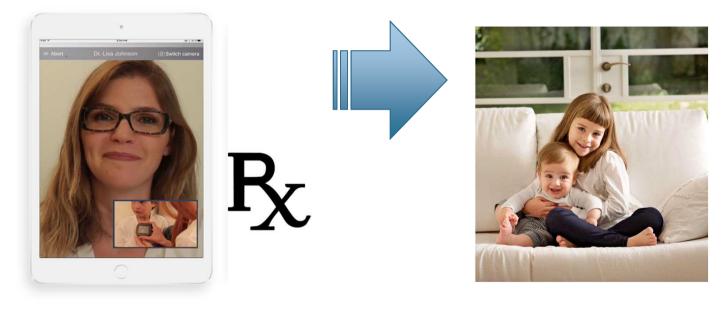




New patient-centric experience – now possible!

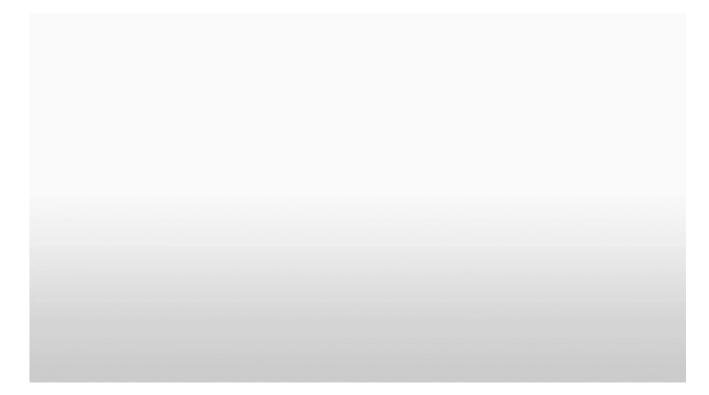
Doctor send script if needed & EHR updated

Family spared late night visit to ER





The future is now...Questions?







Join us in changing how healthcare is delivered

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