The Growth of Telehealth and the Virtual Experience

Vishal Patel MD, MBA, FACP, FAAP Associate Medical Director



Agenda

- My Story
- Current state of healthcare
- Virtual Health definitions
- What's trending?
- Deep dive into our program
- Questions?





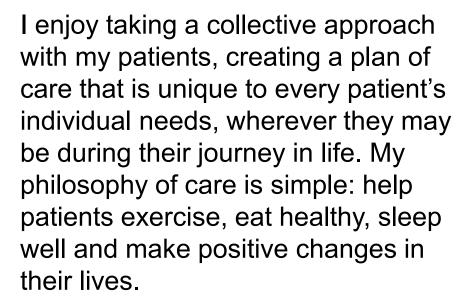












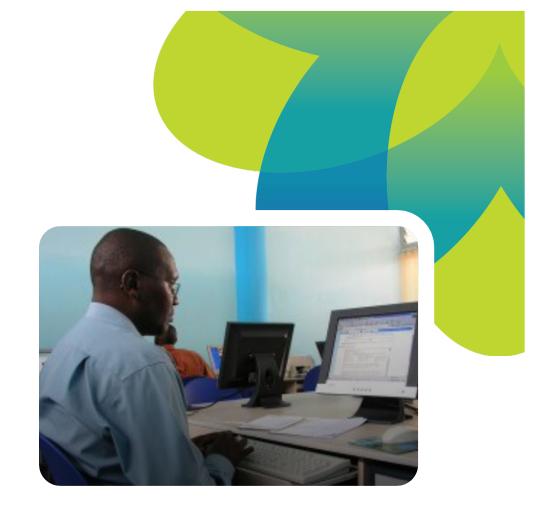






Current Care Delivery Model

- Ray is a 51-year-old man who is currently on Medicaid hasn't seen his primary care provider in 3 years.
- He is not on any medications, but he takes a multivitamin when he remembers because he often feels tired and lacks energy.
- He has been meaning to schedule his screening colonoscopy, but he doesn't have time to wait on hold to make the appointment or to leave work for a day to get the procedure done.
- Lately, he has been feeling overwhelmed because of COVID and worried about job security
- He calls for an appointment and is told he is a "new patient" and the wait for a new patient appointment is 2 months he will have to take time off from work to make the appointment.





Virtual Health Vision & Strategy

- Drive value-based care and population health initiatives through virtual digital solutions.
- Transform the way care is delivered, including leveraging the home as the new venue.
- Leverage virtual and digitally enabled technology to deliver care, eliminate barriers to access and provide entry into other markets and sectors.

The future of health care is virtual

POPULATION
HEALTH IS
TRUE NORTH

The "home" will be the new venue of care

Anything that can be done virtually will be done virtually

Framework for change

How do we improve quality and health outcomes of our members and patients, along with enterprise growth goals?

How do we lower the cost to deliver care and create sustainability for the provider?

Quality
Outcomes

Clinician
Experience

The
Quadruple
Aim

Customer
Experience

How do we improve engagement & experience of our clinician partners?

How do we improve engagement & experience of our members and patients?

Growth

Where do we grow and how?



Defining Virtual Health

A clear understanding of digital, virtual, and tele within the context of health and care will help narrow focus on the scope of interactions

Digital (Synchronous and Asynchronous)

Digital interactions in the context of a health system could include digital means of communication, documentation and retrieval of health information, predictive analytics, clinical decision support tools, research and education tools etc.

Virtual (Synchronous and Asynchronous)

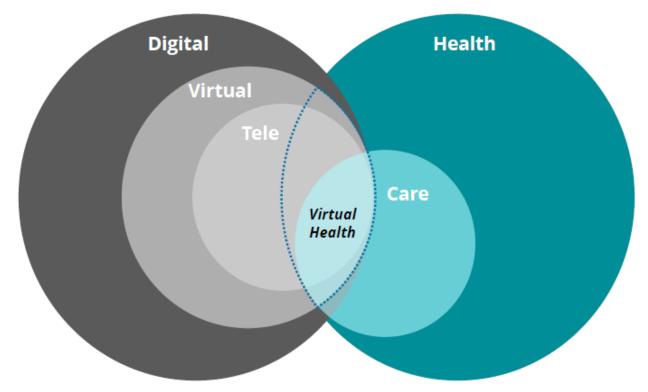
Virtual interactions involve all communications and/or transfer of information between two or more entities through non**physical means**. In the context of health, it is when a provider is delivering care or other health services to a patient who is not in their physical presence

Tele (Synchronous)

"Tele" interactions imply real-time engagement between two or more parties, as opposed to asynchronous messaging or data **transfer.** Telehealth could involve speaking with someone (phonic) or having a video visit, with the intention of providing medical care or partaking in broader health activities

Health vs. Care

"Health" encompasses engaging the patient across their **overall health journey** while "care" is a **subset** of this journey and limits the scope of interaction to the act of care delivery



Market Forces





Shift to Value Based Care



Consumerism



Need to Expand Capacity



Alignment with Home Based Care Strategy

"As we shift to value...with bundled payments, we want to know what is going on with the patient at all times" - CSO "Our primary goal with RPM is to reduce hospital readmission and penalties. We would rather monitor them and do dispatch than have them readmitted" – CMIO "Patients seeking convenience is one of our biggest challenges, and has changed our strategy...patients want easy to use solutions" – Director of Connected Health



Four hurdles health systems must address



Shift away from managing RPM in clinical silos

 Service line leaders have traditionally identified, selected, piloted, and managed RPM programs

 This has resulted in redundancies across the system (in both vendors and patient enrollment) and expensive implementation "We have so many unique programs it's like we have a field of 1000 flowers" - CMIO



Mismatched incentives and limited revenue in FFS arrangements

- The biggest ROI for remote monitoring has been reduction in total cost of care; FFS systems are not incentivized to reduce TCOC
- Shifting to value-based care can incentivize the uptake in RPM, but this shift has been slow across the industry
- Reimbursement exists, but it is limited and challenging to navigate

"We need to cross the chasm and invest in RPM, figure out what works, and go all the way to value based care." -Telehealth Director



Scaling monitoring capabilities

- Staffing monitors is extremely expensive for even the largest health systems
- We have heard that scaling monitoring is the #1 barrier to entry for many systems seeking to scale their RPM programs

"In our experience RPM fails as soon as we start trying to scale monitoring. It's too expensive." – CEO of Telehealth



Establishing and tracking ROI

- Creating RPM programs and use cases is time consuming and expensive; this is especially true when the ROI is unclear
- We've heard that health systems find it challenging to implement new programs without evidence

"We want to roll out RPM to our at-risk populations, but we haven't seen any robust research about ROI" – CMO

Broader market will be aggressive in scaling solutions to lower TCOC

Payors will continue to expand RPM and home health capabilities, since it aligns with goal to lower the total cost of care







Retail health / pharmacy companies with a national footprint will expand reach into the home





Tech players threaten to disintermediate health system and attract patients with virtual solutions





Recipe for a successful RPM solution:

- 1. Digital engagement
- 2. Devices
- 3. Logistics
- 4. National Call Center
- 5. Dispatching
- 6. Analytics

New entrants are already equipped with key capabilities to scale their RPM solutions:

- ✓ Nation-wide consumer reach
- √ Shipping / logistics capabilities
- Digital platforms with advanced technology
- ✓ Monitoring capabilities
- ✓ Dispatch capabilities
- √ Hired healthcare providers

#1 The rise of on-demand healthcare (why patients want care on their own time)



Mobility

- >75% web browsing occurs on mobile devices
- >80% own a smart phone



Gig economy

- Rise of freelance professionals
- More freedom



Trust in internet/Apps

- Mindfulness
- Exercise
- Nutrition
- Sleep

#2 Importance of big data and how to effectively use it

- Big data aggregates information from multiple sources and identifies patterns and trends
 - Examples: lower rate of medication errors, facilitating primary care for frequent fliers, more accurate staffing
- > Need for data architecture / analytics and tie insights into marketing; measure what matters!
- Identifying and cultivating relationship with your ideal consumers (customer relationship management tools)

#3 Treating patients with virtual reality

- >60 mil Americans have chronic pain and due to opioid pandemic (\$80 bil burden/yr)
 - > VR > Percocet
- Medical student/resident training in procedures
- Motivate patients to eat healthier/exercise
- Teach children with autism learn how to navigate world
- > Powerful tool----understand consumers' needs and virtual engagement





#4 Wearable devices

- •Personalizes the healthcare experience medical devices give patients a sense of ownership in the process of improving their health.
- •Targets insurance pricing information obtained from wearable devices can help insurers more accurately rate a patient's risk for illness.
- •Provides insurance incentives patients who take preventive measures to improve their health can obtain lower insurance premiums.
- •Provides gamification opportunities some medical devices such as fitness watches can create competitive goals for users to achieve through exercise, diet and nutrition.

Remote Patient Monitoring









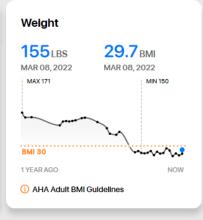




Past Year

Notifications

No Apple Health Notifications were captured, shared, or enabled over the past year.



Blood Pressure 114/63 MAR 17, 2022 MAX 138 MIN 102 SBP 120 MIN 55 MAX 89 DBP 80 1 YEAR AGO NOW

134 MIN MAR 06 - 12, 2022 MIN 76 MAX 320 MIN 76 MAX 320 NOW 1 AHA Activity Guidelines

Menstrual Cycle

No menstrual cycle data is available for the past year.

Metabolic

No complete Metabolic panel available





Add to Scratchpad

P0182 801156104 March 17, 2022 16:50 EDT

#5 Predictive healthcare

Big Data + insights + wearable data + consumer/biometric information

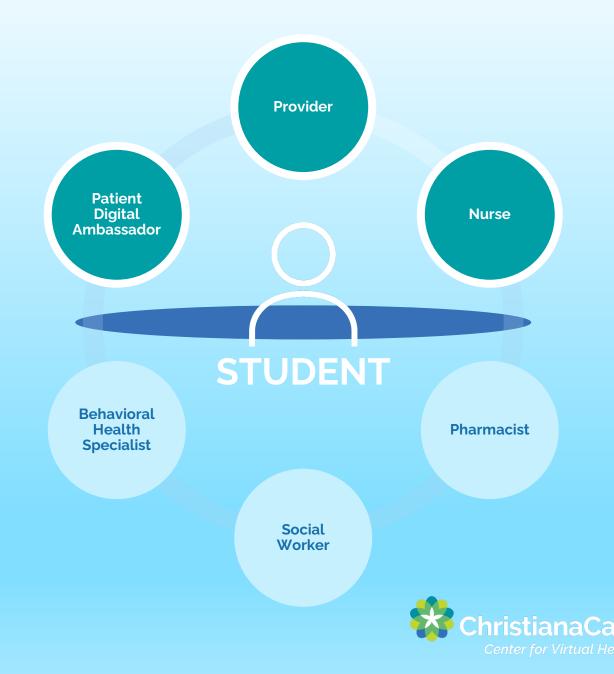
- > Can predict when you get an illness like COVID
- > Can predict when you may develop a chronic disease
- > Over time, it can then provide personalized treatment







Virtual Primary Care Team



Working on Wellness



Prevention

- Vaccines
- Cancer screening
- Chronic disease screening



Chronic Disease

- Diabetes
- HTN
- Obesity
- Asthma



Wellness

- Mindfulness
- Exercise
- Nutrition
- Sleep

Easy Ways to Stay Healthy



- Keep a heart healthy diet.
 - Reduce your salt to (1 tsp or less)
 - Reduce saturated fats
 - Choose lean meats
 - Increase fruits and vegetables
 - Increase your fiber (20-30g/day)



- Get moving. Exercise!
 - Play/Engage in fun activities
 - Exercise for 30 min/day
 - Pump some iron
 - Aim for healthy weight loss (BMI 18.5-24.9)



- Maintain a healthy **lifestyle**.
 - Limit alcohol intake
 - Quit smoking!
 - Actively manage stress
 - Meditation, deep breathing...

Amazing Access to Care

Convenient

- Self-scheduling in Patient Portal
- Scheduling with your PDA

Accessibility

- Monday Friday 7 a.m. 8 p.m.
- Saturday and Sunday 9 a.m. 1 p.m.
- 24/7call coverage
- Open during lunch hours
- Open in inclement weather

Text Messaging

Secure and available 24/7



Virtual primary care can be a great choice for community members

- Greater connection to the provider, health records, test results, and relevant educational information.
- Stress reduction
 - Virtual appointments allow patients to remain in their comfortable home/work environments
 - No waiting in a general waiting area
 - Less white coat high blood pressure
- ➤ Allows for greater independence, health education, and involvement in one's treatment members can become more actively involved in taking their own blood pressure, tracking heart rate, etc.



"What if the patient needs to be seen in person?"

>9/10 scenarios can be handled virtually Right Place, Right Time (Is it urgent or emergent?) Community Access Points/Nurse-Assisted Exams Mobile Access Points Home Technology Home Visits





Center for Virtual Health Care Delivery Model

- Patient self-schedules a same-day virtual appointment and meets with provider for a full evaluation via an audio/video visit.
- Obtains an order for bloodwork to evaluate fatigue issues and kit for blood work gets sent to the home
- Provider text/call to review lab work results and discuss follow-up care for a newly-identified diagnosis of anemia.
- Nurse reaches out to discuss nutrition guidance
- Patient Digital Ambassador schedules endoscopy for the patient to eliminate being on hold
- The team's behavioral health specialist engages the patient to address his mental health and provides 2 apps for patient to use



ChristianaCare

Center for Virtual Health

Digital Technology

Relationship-based care

better outcomes, lower costs, happier patients/caregivers

