

AIMSVAR

Telemedicine: A Paradigm Shift in Health Care Delivery

March 21, 2019

What is Telemedicine?

Telehealth -
Medicare
services

Virtual Check-in

Store and
Forward

Remote
Patient
Monitoring

Types of Telemedicine

Real time audiovisual communication between a provider and a patient, caregiver, or provider. It occurs live and can substitute for a face to face/in person encounter.

Remote patient monitoring (RPM) uses digital technologies to collect medical and other forms of health data from individuals in one location and electronically transmit that information securely to health care providers.

Store-and-forward technologies allow for the electronic transmission of medical information, such as digital images, documents, and pre-recorded videos through secure email communication.

Mobile health or mHealth, a relatively new and rapidly evolving aspect of technology-enabled health care, is the provision of health care services and personal health data via mobile devices.



Back in 1925 – the Teledactyl!

Telemedicine Predicted in 1925

With video screens and remote control arms, any doctor could make a virtual housecall



A doctor's diagnosis "by radio" on the cover of the February, 1925 issue of Science and Invention magazine (Science and Invention magazine)

By [Matt Novak](#)
SMITHSONIAN.COM
MARCH 14, 2012

<https://www.smithsonianmag.com/history/telemedicine-predicted-in-1925-124140942/?no-ist>

Teleradiology in 1950

- Eastern PA
 - Images sent 24 miles via telephone
- Montreal
 - Radiology images routinely sent for interpretation
- University of Nebraska – late 1950s



Predictions from 1960....



<http://blogs.smithsonianmag.com/paleofuture/2012/01/sunday-funnies-blast-off-into-the-space-age/>



EKGs in the late 60s

Sent over voice radio channels

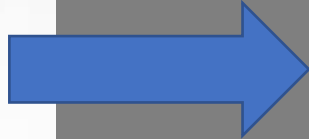


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George Jetson



Star Trek and the Medical Tricorder



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Why Telemedicine?

Roughly 75% of patients want access to care via telemedicine

65 % of US hospitals connect via Telehealth

Improves patient satisfaction and loyalty

Decreases provider burnout

Improves access to care

So many more....

How to move forward

- Create a new business line
- Current or new employees
- Outsource



Vendors

EHR

- Allscripts
- Athena Health
- Epic
- Greenway
- MicroMD

Other Options

Stand
alone
vendors

- Hale Health
- Chiron
- In Touch Health
- meVisit
- myTelemedicine

When

- Simple acute visits
- Remote patient monitoring
- Second opinions
- Behavioral Health
- After hours care
- Medication Management
- Chronic Care Management
- OB Check Ins



Rules and Requirements

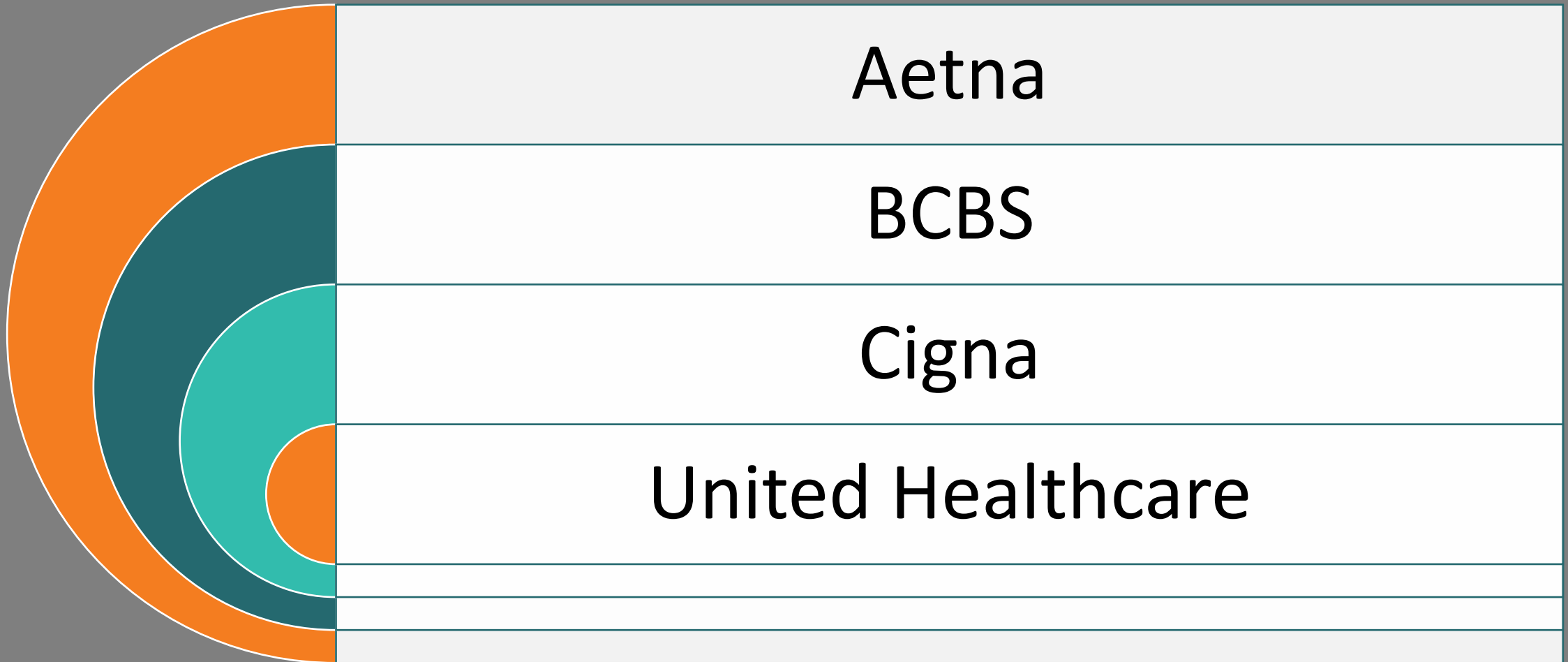
- Practice within State licensure
- Medicare telehealth
- 8 days a week....
- Verbal consent required each time
- Co-pay applies

Private Reimbursement

39 States

Parity laws

Private Payers





ESRD – Dialysis
Assessments



Initial 3 months, Face to
face visits

Subsequent face to face
every three months

Telehealth assessments in
between, patient at home

Remote Physiologic Monitoring

- 99453 (wt, bp, pulse ox) initial set-up and education
- 99454 initial, device supply with daily recording or programmed alert, each 30 days
- 99457 20 mins or more of clinical staff/physician/other qualified healthcare professional (not auxiliary staff) in a calendar month requiring interactive communication

Interprofessional Services

▲99447	Consultant	Verbal and written report to requestor	11-20 mins	Review pertinent medical records, lab/imaging studies, medication profile, etc. and medical consultative verbal or internet discussion ^b	0.70	1.01
▲99448	Consultant	Verbal and written report to requestor	21-30 mins	Review pertinent medical records, lab/imaging studies, medication profile, etc. and medical consultative verbal or internet discussion ^b	1.05	1.52
▲99449	Consultant	Verbal and written report to requestor	≥ 31 mins	Review pertinent medical records, lab/imaging studies, medication profile, etc. and medical consultative verbal or internet discussion ^b	1.40	2.02
●99451	Consultant	Written report to treating/requesting physician/QHP	≥ 5 mins	Review pertinent medical records, lab/imaging studies, medication profile, etc. and medical consultative verbal or internet discussion	0.70	1.04
●99452	Treating/requesting physician/QHP	N/A	≥ 16mins ^c	Preparing for the consult and/or the actual time spent communicating with the consultant	0.70	1.04

^a The facility and non-facility relative value units (RVUs) are identical

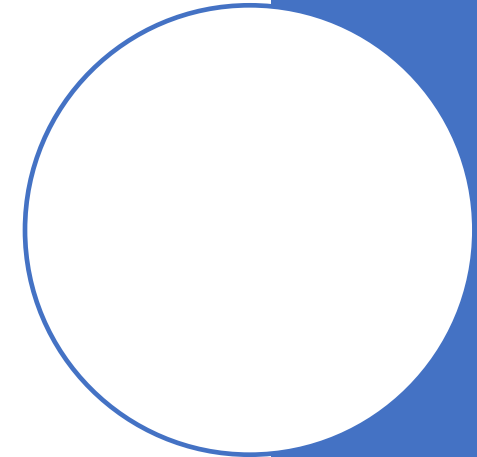
Chronic Care Management

99490

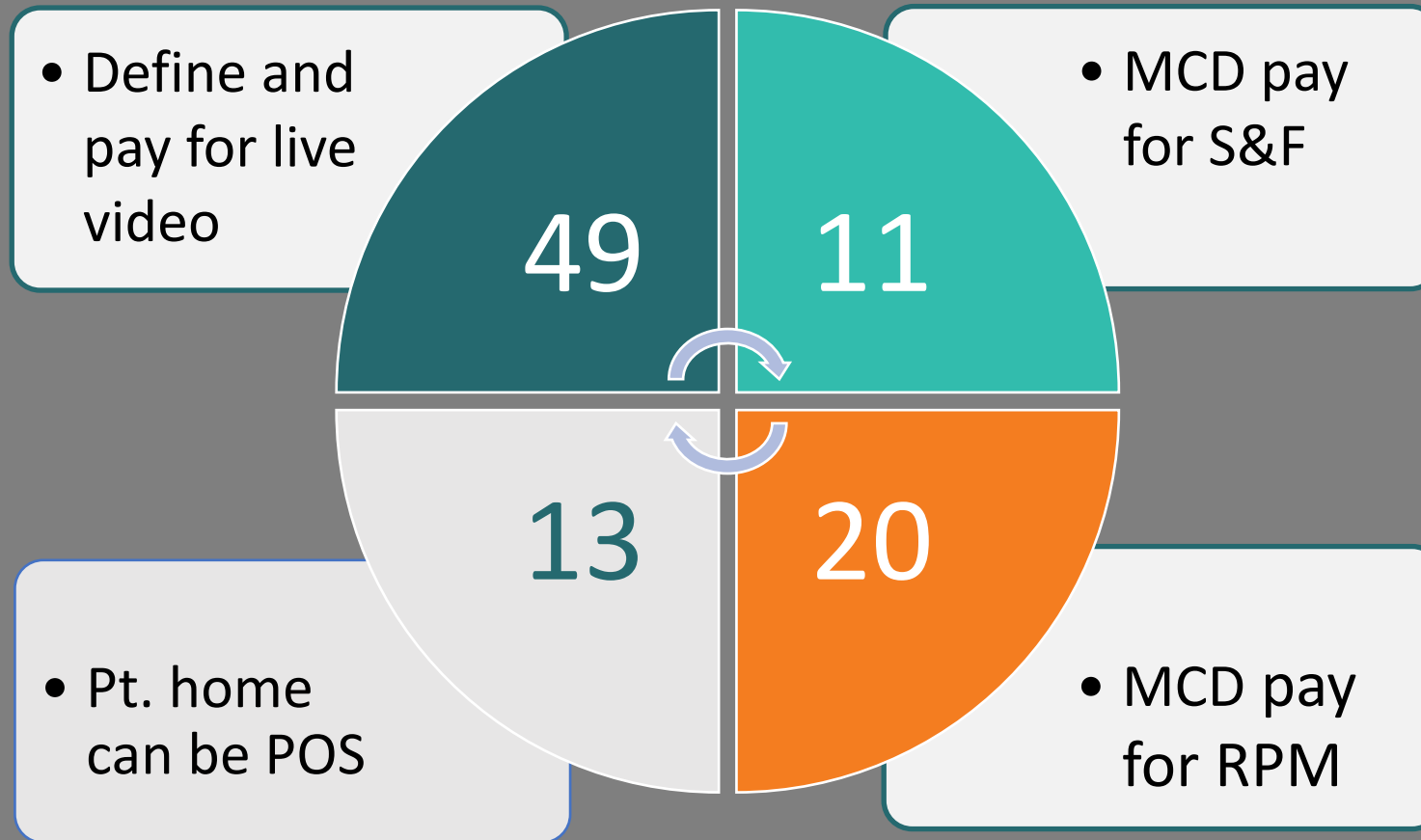
- 20 mins clinical staff time directed by provider

99491

- at least 30 mins provided directly by provider



State Medicaid Coverage



Look to the future



Home Monitoring



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Medicare Expansion
Substance Use Disorder treatment



Medicare Advantage - 2020

- Expected to surpass 34% of MCR beneficiary enrollment
- Include telehealth benefits in bids
 - RPM
 - Store and forward
 - Secure Messaging

Accountable Care Organizations - ACO



1/1/2020



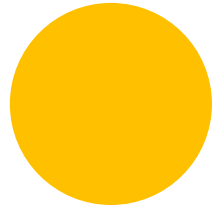
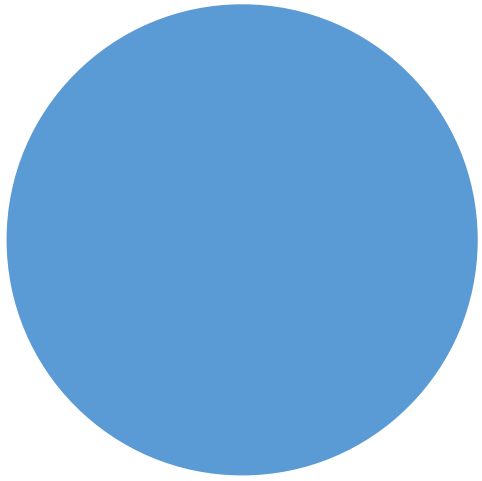
Waiver approves patient's home as originating site for two sided risk models



Rural location and HPSA requirements are removed

Resources

- [Funding Sources](#)
- [Telehealth resource centers](#)
- [State Regulations and Reimbursement Policies](#)
- <https://www.cchpca.org>
- <https://www.telehealthresourcecenter.org>



Questions

