Poll

Do you currently include Remote Patient Monitoring in your practice?

- a) Yes
- b) No
- c) No but we are planning for it
- d) I'm not sure



Delivering Care Anywhere:

Improving Health Outcomes Through Remote Patient Monitoring



This webinar is funded by grants from:





UCONN

HEALTH

Neither Connecticut Office of Health Strategy nor Connie had undue influence on the content of this program.

New CME Series – with CPE sought as appropriate

Health Information Technology for Clinicians: How to Achieve Optimal Outcomes

Webinars and In-person events



Activity Director/Moderator: Thomas Agresta MD, MBI

Department of Family Medicine, Center for Quantitative Medicine

UConn Health

HEALTH

Health Information Technology for Clinicians: How to Achieve Optimal Outcomes

Sample Topics

- Medication Safety/ Reconciliation
 Precision Medicine
- Health Data Analytics
 Health Information Exchange
- eCQMs (electronic clinical quality
 Patient Consent models measures)
 Public Health Informatics
- Telehealth

• Patient-Generated Data

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Learning objectives



UCONN HEALTH

Housekeeping



All participant lines will be muted during the panel discussion

-

The panelist will address you questions during the Q/A session from the Q/A chat feature



If we are not able to address your question today, we will follow up with you directly using your registered email.

This session will be recorded and available for download along with the slides used today.



Instructions on how to access will be sent after the session to your registered email along with instructions to earn CME and CPE credit.



Presenters

Lyle Berkowitz, MD



Clinical Associate Professor of Medicine Feinberg School of Medicine, Northwestern University Founder Director Szollosi Healthcare Innovation Program at Northwestern Medicine **Richard Albrecht**



Executive Director of Telehealth Community Health Network of Connecticut Holdings, Inc.

Disclosures: All presenters have reported they have no conflicts to disclose

UCONN HEALTH

What is Remote Patient Monitoring?

CMS Requirements

Device must meet FDAs definition of a medical device, does not need to be FDA cleared

Digital upload of patient data (i.e. no self-reporting)

Covers patients with acute and chronic conditions

Monitoring must occur over at least 16 days of

a 30-day period

Qualified health care professional time in a calendar month requiring interactive communication

Remote Patient Monitoring



Example Data Row Diagram



Staff View

AMBULATORY GLUCOSE PROFILE (AGP)

- Data analyzed for trends
- Visual Reports
- Available in format and location that is appropriate
- Actionable clinical data





Association of Diabetes Care & Education Specialists. (2020) Professional Continuous Glucose Monitoring Implementation <u>Playbook</u>. https://www.diabeteseducator.org/docs/default-source/opencms_test/prof-cgm-playbook.pdf?sfvrsn=2

Right Work, Right Time, Right Person



CMS – Has overlapping programs



Reimbursement - CPT Codes Billed on a Monthly Basis



\$58.38

\$19.43

\$64.15

\$51.54 \$42.22

Companies



Remote Monitoring Challenges

Device Options Internet Access Patient Skill

= 110

Involvement Third Party Data Validity Data Provenance Data Volume Privacy / Security Information Display Alarm Triggers Workflow design ROI Model





Conceptualizing a Data Infrastructure for the Capture, Use and Sharing of Patient Generated Health Data in Care Delivery and Research https://www.healthit.gov/sites/default/files/onc_pghd_final_white_paper.pdf

Cost/Benefit

New Revenue

• RPM Payments

Also can

• Free up MD time for other reimbursed patient care

Fee-for-Service

Value-based

Shared Savings & Quality Revenue

- Lower Risk of Readmissions and post-discharge utilizations
- Improve payer quality scores
- Proactive and preventative functionalities
- Opportunities to improve patient satisfaction

Poll

What do you perceive as the biggest benefit of remote patient monitoring for patients and/or providers?

HEALTH

- a) Decreased ER/hospital admissions and visits
- b) Better patient medication compliance
- c) Increase in care gap closure
- d) Improved provider reimbursement

Remote Patient Monitoring – Lessons Learned A Community Health Centers Experience in Connecticut



Devices measure health data



Glucose

Monitor



Blood Pressure Weight Monitor Scale







Health data



Health trends are displayed on a user-friendly dashboard



Patients and family learn from seeing health trends

Alerts are escalated

to primary

care provider



Nurses monitor health data and trends



Patient behavior is modified through teachable moments

Enhances care. Changes behaviors. Lowers costs.

Our Process



Data in portal; red = alert

1 91 - ARHM

ninety

† Dashboard

Interrogations

Patients

Billables

J→ Vitals

P Recalls

In-Offic

× +

What Patients See

RPM Made Simple for Patients

No need for:

Wi-Fi, smartphones, apps





Patient Setup Instructions: Step 1: Plug in Hub Step 2: Measure Vitals

Instant transmission: < 5 seconds



What patients don't see



Patients use devices as they normally would The hub blinks blue when a measurement is received





Hub supports multiple bands to ensure connectivity Data goes to where you expect it. Stel works within your existing workflows

Cellular Enabled Devices Can Send Biometric Readings Directly to Clinician Dashboard





RPM Patient Data Dashboard Example

Dashboard	Critical	Abrormat						
At Updates			Followed	Missed Observations			allace.	
All Patient Updates								
Al Veaurements	Observation Status All Quationes			C. Topo in a particular	1			
hava	Type	Otherwood Status	Device Terrestamp				Note	Reviewer
Paula Gamboa	Blood Pressure	G 8* 134/98.9.72	29/29/05 AM, Today	函	4	٢	D	ø
O Helen Sovith	Blod Pressan	4+13732+81	20/20/00 AM, Today		Δ	٠	D	0
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Metrica Angulo	Real Guine	140 mg/m.	2W15/02 AM, Today	8	۵	\odot	D	0
C Helen Smith	Boot franzes	S 80-135396.0.47	2010/00 AM, Today	6	۵	۲		0
Auria Gamboa	Dool freeze	🚫 AP, 12549 P AD	29/02/05 AM, Today	ß	4	٢	D	0
C Richard Roe	Photo Charlow	0 1/2 math.	And an an Free			<i>A</i>		540

Example of Trended RPM Patient Data in Portal





RPM Patient Data Drill-Down Example

March 1-31, 2021



Lessons Learned: For the Patient



1. Simple Technology

- 2. Thorough Training
- 3. Pro-Active Support



Lessons Learned: For the Clinical Teams



1. Understand the "Why"

2. Utilize Smart Clinical Workflows Step 7: Designing the Workflow

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PART 3 / GAME TIME STEP 7: DESIGNING THE WORKFLOW

Document an updated workflow for remote patient monitoring (RPM).

This will likely require changes to your current clinical protocols to ensure that you are efficiently managing your staff's time amidst their new RPM responsibilities. Consider how to use your EHR to simplify communication and ensure staff members have access to resources and clinically relevant RPM data to execute and adapt patient care.

Some Early Observations

Outcomes (through week 4 of pilot) 78yo M with HTN, hx of CVA, hx of MI. With just 2 weeks 76y of monitoring, identified to hx have persistent severely 4 uncontrolled HTN. Scheduled si for telemed visit with cc clinician and medications we changed. w In a typical clinic setting, we would not have seen him

76yo M with HTN, hx of CKD, hx of MI. On 3 medications for HTN. BP remained significantly above goal, consistently for the first 2 weeks of monitoring. We were able to recommend labwork which showed worsening renal function and prompted a referral to nephrology.

A couple of patients noted to have BP readings below goal, consistently. With continued monitoring, may be able to discontinue some medications

Mr. CB – early intervention

back for 6+ wks, likely longer

given the pandemic.

Mr. DD – early intervention and referral Reduce polypharmacy, improve patient safety

Poll

What ways could the collection of RPM data improve patient-centered care in your practice?

- a) Increased connection between the provider team and patient
- b) Monitor trends in the patient's health
- c) Proactively address any concerns before they develop into more serious health problems
- d) Determine medication effects and modify if needed



RPM and COVID - NYP and Hypoxia Monitoring

- Existing RPM program for Heart Failure, Hypertension
- Added Oxygen saturation and or O2 concentrator (o2 sat below 92%)



RPM and COVID - NYP and Hypoxia Monitoring

Coordination Across Providers (Primary care, Specialists, ED etc.



Device management important

Digital Literacy and Available Wi-Fi important to address

Questions

- Contact us for further information /
 - HIELearning@uchc.edu

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• Visit us at:

https://health.uconn.edu/health-interoperability-learning/



Poll

What type of solutions might you implement in your practice to better support and encourage RPM in your practice?

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- a) Integrate it into current EHR
- b) Ensure RPM is as close to traditional care as possible
- c) Properly educate staff and patients



