#### Connected Care: Pharmacist Utilization of Remote Monitoring to Support Clinical Services

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#### Disclosure Statement

Jen Sabatino has no relevant financial relationship(s) with ineligible companies to disclose. and

None of the planners for this activity have relevant financial relationships with ineligible companies to disclose.



#### Learning Objectives

At the completion of this activity, the participant will be able to:

- identify the differences between remote physiologic monitoring and remote therapeutic monitoring services; and
- discuss the principles of billing for remote physiologic monitoring services.

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# Digital Health Transformation





#### COVID-19





#### Tech Advancement



# Quintuple Aim Alignment

- Improving population health
  - Enhancing the care experience
  - Reducing costs
  - —Improving the work life of healthcare providers
- Advancing health equity

Itchhaporia (2021)

### Audience Poll

How would you rate your current level of knowledge about Remote Patient Monitoring?

- A. Expert-I regularly use in my practice
- B. Intermediate- I have some experience in my practice
- C. Beginner- I know the basics but have not implemented
- D. Unfamiliar- I have little to no knowledge of this topic

# Digital Health Trends

Increased adoption of virtual care/telehealth

New billing codes for virtual care

Healthcare applications for AI

The Future of Remote Patient Monitoring, Ripartisan Policy Center, 2024

#### Remote patient monitoring advancements



# Driving Digital Health Growth

Increasing older adult population

Rise in chronic condition prevalence

Patient desire for increased care access

Need for cost-effective care alternatives

The Future of Remote Patient Monitoring, Bipartisan Policy Center, 2024





### **Our Own Population**



### Remote Monitoring Trends



92% of institutions surveyed had or planned to offer remote monitoring services

> 60% of hospitals with >500 beds planned to expand offerings

8.5% of mid-sized primary care practices offered remote monitoring services



Remote Patient Monitoring



# Remote Physiologic Monitoring (RPM)

Captures and records patient physiologic data outside of typical face-to-face visit

Electronically transmits data to healthcare provider

Provides more in-depth insight into daily data from patients



# Remote Therapeutic Monitoring (RTM)

Focus on patient's movement and muscle use

Data captured outside of normal face-to-face environment

May allow for monitoring of patient response to therapy



Physiologic data

Transmits automatically

Expansive options for device integration FDA medical device required

Billing requires 16 days of data

> One charge submission per patient

Therapeutic data

Availability for patient to self-report

RTM

Broader healthcare provider applicability

### Spectrum of Care Settings



### **RPM Applicability**



### Benefits of RPM

Provide insight into clinical status for intervention Enhance the provider-patient relationship Improve patient experience/ satisfaction Facilitate ongoing connection with \_\_\_\_patients

Improve patient education for selfmanagement Improve quality performance and value-based payment models

Generate revenue for practice



# **RPM Billing**



### **RPM Billing Requirements**





**Clinical Staff** 

Physician or other Qualified Healthcare Professional

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# **PRM Billing Requirements**

Medically reasonable and necessary

Meets FDA definition of "medical device"

Patient must consent

One practitioner per 30 days

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# RPh Services Eligible for RPM Billing

CPT Code	Description		Specifics*		Estimated Reimbursement Rate**	
99453	Initial set up and pat of equi	e	Billed once per episode of care	Requires 16 days of	\$19	
99454	Supply of device, coll and report/summary s		Billed once per 30 data transmission days		\$50	
99457	Remote physiologic monitoring treatment	First 20 minutes	Billed once per calendar month		\$48	
99458	management services by clinical staff/physician/ other qualified health care professional in a calendar month	Each additional 20 minutes	Can be billed multiple times in calendar month Must include interactive communication with the patient/caregiver within the month		\$39	

\*Subject to interpretation – consult your Compliance representative \*\*CY2023

# RPh Services Eligible for CGM Billing

CPT Code	Description	Specifics*		Estimated Reimbursement Rate**
<b>95249</b> (Patient owned)	Continuous glucose monitor sensor placement, hookup, calibration of monitor, patient training, and printout of recording	Billed once per device	Requires 72 hours of data transmission	\$65
<b>95250</b> (clinic owned)	Ambulatory continuous glucose monitoring of interstitial tissue fluid via a subcutaneous sensor for a minimum of 72 hours; sensor placement, hookup, calibration of monitor, patient training, removal of sensor, and printout of recording	Billed once per 30 days	Must be in person Direct supervision	\$147

\*Subject to interpretation – consult your Compliance representative \*\*CY2023

# **RPM Process for Disease Management**

#### Traditional management



1<sup>st</sup> dose adjustment

3 months



# **RPM Process for Disease Management**

#### Traditional management



#### •Management with between-visit outreach utilizing RPM





Remote Patient Monitoring in Action



# Mrs. Smith has Diabetes

- 44 y/o woman presenting for diabetes management
- PMH: DMII, HL, obesity, depression
- Diabetes medication regimen:
  - insulin glargine 36 units daily
  - insulin lispro 9 units TID AC
  - metformin XR 500 mg 2 tablets BID
- Past medications for diabetes:
  - dulaglutide 1.5 mg weekly discontinued 8/2023 due to adverse GI effects

	Latest Ref Rng & Units	7/30/2024	2/22/2024	11/17/2023
POCT HEMOGLOBIN A1C	4.7 – 5.6 %	9.4 !	9.1 !	9.6 !

# Mrs. Smith's Blood Sugar Readings

Date	Fasting AM/ Breakfast		Lunch		Dinner		Bedtime		Middle of the Night	
	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin
71	123									
7/15			154				195			
7/19	138									
7/21	5				2 33					
7/24	150		192				170			
7/25	164						205			
7/29	140									

# Continuous Glucose Monitors

Covered with criteria varying by plan

Sensors can transmit to clinic platform

Control measured across several metrics



### Data Before CGM

Date	Fasting AM/ Breakfast		Lunch		Dinner		Bedtime		Middle of the Night	
	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin	Blood Sugar	Insulin
71	123									
7/15			154				195			
7/19	138									
7/21	9									
7/24	150		192				170			
7/25	164						205			
7/29	140	· ·								

#### Data Before CGM



#### CGM Data



#### CGM Data



### Diabetes: Mrs. Smith



- Increased motivation with respect to lifestyle efforts
- Alert received when trending low after exercise

https://files.libreview.io/files/documents/en-US/FSReportTour\_2024-03-18.pdf

# Diabetes: Mrs. Smith

- Insights uncovered post prandial elevations and post-dinner snacking
- Diet improved through motivational interviewing
- With diet change, tolerated re-trial of GLP-1 receptor agonist



	Latest Ref Rng & Units	10/10/2024	7/30/2024	2/22/2024
POCT HEMOGLOBIN	4.7 – 5.6 %	7.8 !	9.4 !	9.1 !
A1C				

#### Audience Poll

Who is working in community and has dispensed a continuous glucose monitor (CGM)?
# Audience Poll

Who among you have assisted the patient with the set up and training on use of the CGM?

### Audience Poll

Who among you have connected the patient's data to a practice portal for review in management of their diabetes?

# Audience Poll

Who is billing remote monitoring codes for these services?

# Billing for Mrs. Smith's RPM services

First Encounter	Each Month During the Episode of Care			
Device training	<u>Transmission</u>	<u>Initial RPM time</u>	<u>Ongoing RPM time</u>	
CGM sensor placement, training on use? 72 hours of data?	16 days of data within 30 days?	20 minutes of care management and interaction	Each additional 20 minutes of care management and interaction	
95249	N/A (patient owns)	99457	99458 ( <i>+ 99458 +)</i>	







**Patient** T

**Patient W** 



**Patient S** 



**Patient** T

**Patient W** 



**Patient S** 

















# Cellular Enabled Weight Scale



# Billing for William's RPM services

First Encounter	Each Month During the Episode of Care			
<u>Device training</u>	<u>Transmission</u>	Initial RPM time	<u>Ongoing RPM time</u>	
Training on use? 16 days of data?	16 days of data within 30 days?	20 minutes of care management and interaction	Each additional 20 minutes of care management and interaction	
99453	99454	99457	99458 ( <i>+ 99458 +)</i>	



Remote monitoring of hypertension within OSU **Primary Care** clinics

- Clinical criteria for Collaborative Practice Agreement (CPA) met
- Referral to pharmacy for HTN placed

Patient identified









#### Phase 1: Clinic-owned Bluetooth (BT)-enabled Devices

# Phase 1: Growth in Total Enrollment



# Phase 1: Growth in Active Management



# Phase 1: Unenrollment



## Phase 1: Unenrollment



#### Phase 1: Clinic-owned, Bluetooth Advantages

3<sup>rd</sup> party tested for validity

Available for purchase at common retailers

Able to refurbish and redeploy

### Phase 1: Clinic-owned, Bluetooth Challenges

Technical difficulties

Eligibility limitations

Inventory management



#### Phase 2: Vendor-supported Cellular-enabled Devices

# Phase 2: Growth in Total Enrollment



# Phase 2: Growth in Active Management



# Phase 2: Unenrollment



#### Phase 2: Unenrollment



#### Phase 2: Vendor Supported, Cellular Advantages

Expanded eligibility

Remote deployment option

Outsourced technical support

Data satisfies value-based contracts
#### Phase 2: Vendor Supported, Cellular Challenges

Patient understanding of vendor role

Unenrollment is not EPIC integrated

Scaling after a successful pilot

#### **Future Directions**

Expansion to all providers including residents

Automation of billing for additional RPM codes

Streamlining workflows

Workflows with other members of the care team

Formal program evaluation

C This tele-health service has been lifesaving, really. I can't thank you and your colleagues enough for your thoroughness.

- Patient, post-RPM, HTN now controlled

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#### Helpful Resources to Get Started

- MedNet21: Remote Patient Monitoring <u>Webcast</u>; 2023
- Bipartisan Policy Center: The Future of Remote Patient Monitoring, 2024
- American Medical Association: Remote Patient Monitoring <u>Playbook</u>, 2022
- The Ohio Pharmacists Association Practice Advancement and Innovation Committee <u>Payor Toolkit</u>
- Chronic Care Management (CCM): <u>An Overview</u> for Pharmacists. The American Pharmacists Association, 2017

Which of the following is <u>not</u> true of Remote Physiologic Monitoring (RPM)?

- A. Billing requires 16 days of data transmission
- B. Data must be from a "medical device" as defined by FDA
- C. Patients can self-report their data
- D. Billing can be submitted by only one provider each 30 days

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You spent 29 minutes in a telehealth encounter reviewing a patient's transmitted blood pressure readings and engaging in management of their hypertension.

Assuming all other billing requirements have been met, which CPT code can be billed at this time?

- A. 99453
- B. 99454
- C. 99457
- D. 99458



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Assuming all other billing requirements have been met, which CPT code can be billed at this time?

- A. 99453
- B. 99454
- C. <u>99457</u>
- D. 99458



On October 1<sup>st</sup>, you provided a BP monitor and weight scale and trained the patient on proper use of each. On October 21<sup>st</sup>, you spent 16 minutes on the phone with the patient reviewing the readings that they transmitted daily from each device since set up to evaluate and treat their heart failure.

Which combination of CPT codes are eligible to be billed at this time?

- A. 99453 + 99453
- B. 99453 + 99454
- C. 99454 + 99454
- D. 99453 + 99457



On October 1<sup>st</sup>, you provided a BP monitor and weight scale and trained the patient on proper use of each. On October 21<sup>st</sup>, you spent 16 minutes on the phone with the patient reviewing the readings that they transmitted daily from each device since set up to evaluate and treat their heart failure.

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- A. 99453 + 99453
- B. <u>99453 + 99454</u>
- C. 99454 + 99454
- D. 99453 + 99457





# References



- •Itchhaporia D. The Evolution of the Quintuple Aim: Health Equity, Health Outcomes, and the Economy. J Am Coll Cardiol. 2021 Nov 30;78(22):2262-2264.
- •Horton C. States With The Least Healthy (And Healthiest) Populations, Ranked. Forbes Advisor. (2024).
- Harris J, Curtis M, Sandalow M, Hoagland GW, Weber Serafina M. (2024). The Future of Remote Patient Monitoring. Bipartisan Policy Center. https://bipartisanpolicy.org/wpcontent/uploads/2024/01/BPC\_Health\_FutureOfRemoteMonitoring.pdf
- Tan SY, Sumner J, Wang Y, et al. A systematic review of the impacts of remote patient monitoring (RPM) interventions on safety, adherence, quality-of-life and cost-related outcomes. npj Digit. Med. 7, 192 (2024).
- Pawar B. Remote Patient Monitoring Devices Market Size, Share & Industry Analysis, By Type (Products/Devices {Multiparameter Monitoring, Respiratory Monitoring, Blood Glucose Monitoring, Cardiac Monitoring, and Others}, and Services), By Application (Oncology, Diabetes, Cardiovascular Diseases, and Others), By End-User (Payers, Providers, and Patients), and Regional Forecast, 2024-2032. (2024). Fortune Business Insights. https://www.fortunebusinessinsights.com/remote-patient-monitoring-devices-market-106328
- •Jackson S, Walker C. Telehealth & Remote Patient Monitoring Ecosystem 2023. KLAS Research. https://klasresearch.com/report/telehealth-and-remote-patient-monitoring-ecosystem-2023-vendor-reportedcapabilities-and-customer-adoption/3079
- •CMS-1784-F Medicare Physician Fee Schedule Final Rule 2024 and the "Physician Fee Schedule Look-Up Tool," available at: https://www.cms.gov/medicare/physician-fee-schedule/search/overview
- Medicare and Medicaid Programs; CY 2024 Payment Policies Under the Physician Fee Schedule and Other Changes to Part B Payment and Coverage Policies; Medicare Shared Savings Program Requirements; Medicare Advantage; Medicare and Medicaid Provider and Supplier Enrollment Policies; and Basic Health Program. (2023). Department of Health and Human Services. Centers for Medicare & Medicaid Services.
- Remote Patient Monitoring Playbook. (2022). American Medical Association. https://www.ama-assn.org/system/files/ama-remote-patient-monitoring-playbook.pdf
- Consumer Guide. American Diabetes Association. https://consumerguide.diabetes.org/collections/cgm

#### Need More Information?

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