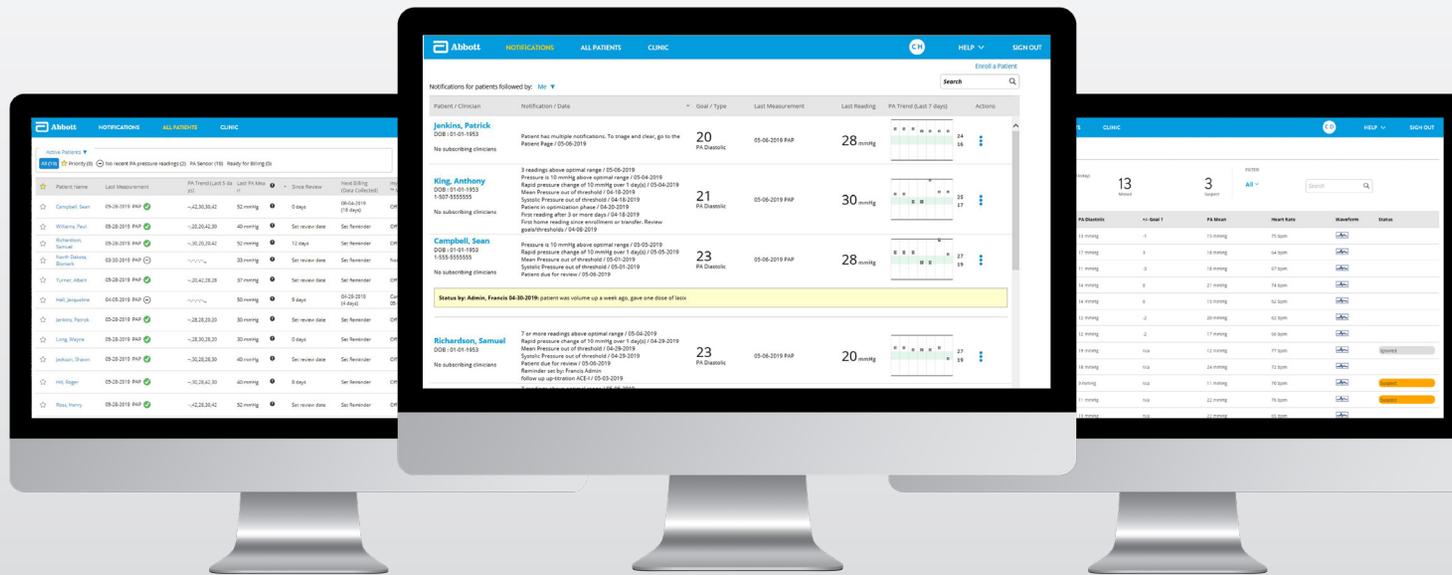




HOW TO USE MERLIN.NET™ PCN

A visual guide to key screens and settings



NOTIFICATIONS LIST

Focus on the patients who need your attention by using the Notifications List. It's the first page that displays after logging in to the system, and effectively triages your patients. It serves as your "inbox" for managing CardioMEMS™ HF System patients.

Filter. The list automatically shows only the patients you are subscribed to. Change your view by selecting other clinicians.

Patient / Clinician	Notification / Date	Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Ward, Billy DOB: 01-01-1953 1-405-6275849 Demo, Brian ...	Pressure is 2 mmHg above optimal range / 06-02-2019 Rapid pressure change of 5 mmHg over 1 day(s) / 06-02-2019 1 reading above optimal range / 06-02-2019 Patient in optimization phase / 05-15-2019 Patient due for review / 05-13-2019	20 PA Diastolic	06-02-2019 PAP	42 mmHg		⋮
Campbell, Sean DOB: 01-01-1953 1-555-5555555 Demo, Brian ...	Rapid pressure change of 10 mmHg over 1 day(s) / 06-02-2019 3 readings above optimal range / 05-30-2019 Mean Pressure out of threshold / 05-30-2019 Reminder set by: Jenny Artery get labs / 05-31-2019	20 PA Diastolic	06-02-2019 PAP	20 mmHg		⋮
Long, Wayne DOB: 01-01-1953 Demo, Brian ...	3 readings above optimal range / 06-01-2019 Rapid pressure change of 10 mmHg over 1 day(s) / 05-30-2019 Mean Pressure out of threshold / 05-29-2019	22 PA Diastolic	06-02-2019 PAP	28 mmHg		⋮
Jackson, Shawn DOB: 01-01-1953 Demo, Brian ...	7 or more readings above optimal range / 06-01-2019 Rapid pressure change of 10 mmHg over 1 day(s) / 05-29-2019 Mean Pressure out of threshold / 05-25-2019 First reading after 3 or more days / 05-25-2019 Reminder set by: Don Physician Call patient / 05-24-2019 Patient due for review / 05-22-2019	20 PA Diastolic	06-02-2019 PAP	28 mmHg		⋮

Notifications. Understand why your patient is on the list by reviewing their notifications.

Status note. A status note can be useful for yourself or others in your practice while you are working on a patient. Update a patient's status from the actions menu.

7-day trend. See your patient's readings from the last 7 days, with the latest reading on the right. In-range readings are shown in the green band.

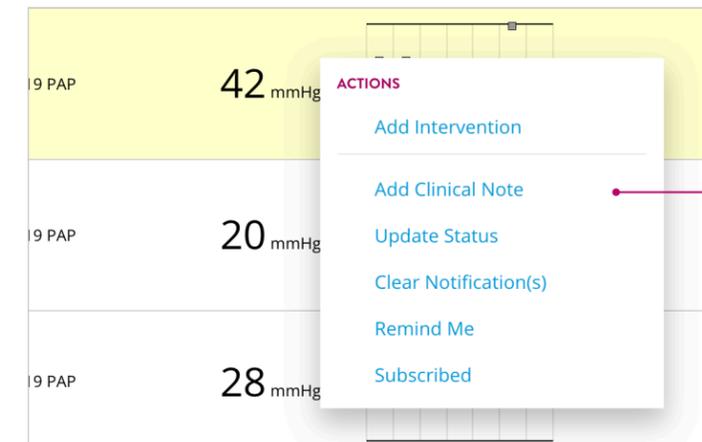
Actions menu. Document an intervention or take other actions on your patient. See page 2 to see a full list of actions.

TAKING ACTIONS

Quickly and easily intervene or document patient actions, including sending a message to a patient based on their communication preferences.

Actions menu

Click on the three vertical dots by a patient's name to access the actions menu.



Add intervention. Make a change and notify the patient.

Add clinical note. Document a note about the patient.

Update status. Write a status note to yourself or others while you are working on a patient.

Clear notification. Remove the patient from the Notifications List.

Remind me. Set a reminder to appear on a specific date.

Subscribe. Follow a patient so they are shown on your Notifications List.

Add intervention

Easily make an intervention and communicate with the patient at the same time. Send either a brief, standard message (e.g., "Call the clinic") via voice or text, or send a more detailed, custom message to a patient's myCardioMEMS™ mobile app.

ADD INTERVENTION

Current Notifications:
Pressure is 2 mmHg above optimal range / 06-02-2019
Rapid pressure change of 5 mmHg over 1 day(s) / 06-02-2019
1 reading above optimal range / 06-02-2019
Patient in optimization phase / 05-15-2019
Patient due for review / 05-13-2019

SEND PATIENT MESSAGE(S)
Patient receives their messages via text message in English (US). (Message preferences can be modified in the patient profile.)
Record messages in the patient's medical record as appropriate.

Select a message to send:
 Call Clinic
 Reading Reviewed
 Reading Reminder
 Labs Request
 Treatment Plan Reminder due to pressure changes

Custom Message (250 character limit)

The patient's calling window is 09:00 AM to 07:00 PM for messages delivered via text message.
 Deliver at start of calling window
 Deliver immediately

The last message sent to this patient was the Call clinic message, initiated on 05-13-2019 09:27 AM.
 - Text message delivery status: Message Delivered

Recent interventions

Recent interventions made by you or another clinician display on the patient's Activity page. A green check mark indicates if a patient has acknowledged the intervention.

Medication Intervention	Medication Intervention	Medication Intervention	Medication Intervention
Stephanie Edwards Effective: 03-10-2019 Decrease Furosemide Lasix® SENT ON: 03-10-2019, 01:27 PM	Stephanie Edwards Effective: 03-10-2019 Increase Furosemide Lasix® SENT ON: 03-10-2019, 01:30 PM	Stephanie Edwards Effective: 03-10-2019 Change Furosemide Lasix® SENT ON: 03-10-2019, 01:32 PM	Stephanie Edwards Effective: 03-10-2019 Start Postispril Monopril® SENT ON: 03-10-2019, 01:47 PM

PATIENT SETTINGS

Ensure your patients are set up for effective remote monitoring by customizing their settings—including their PA pressure goal, thresholds and notification settings. To modify a patient's settings, click on a **patient's name** and then the **Settings** tab.

Complete the patient's details

Ensure a patient's details are entered in the Patient Profile. Here you can also select a patient's messaging preferences—voice, text or the myCardioMEMS™ mobile app.

Patient Profile Import from Flash Drive Export

Patient

*** First Name:** Jacqueline
Middle Name:
*** Last Name:** Hall
Language: English (US)
Patient ID:
*** Date of Birth:** 01-01-1990
Merlin.net™ Number: 698625555
Clinic Location: Sylmar
Gender: Female Male
Cardiomyopathy: Ischemic
EF %: 0

Primary Phone: Country Code: 1 Area/City Code: 818 Phone Number: 294-5794
Email:
Address 1: 12322
Address 2:
Address 3:
Country: USA
City:
State/Prov.:
Zip/Postal code:

Establish a pressure goal and threshold

Establish a patient's pressure goal and threshold by selecting their:

- **Primary metric:** PA Diastolic or PA Mean.
- **Management phase:** Optimization or Management.
- **PA pressure goal:** Enter a single number, which will automatically populate a threshold that can then be adjusted. While a goal isn't required, setting a threshold is what triggers your notifications.

Goals and Thresholds

1. Select the Primary Metric that will be used for monitoring this patient.

PA Diastolic Pressure
 PA Mean Pressure

Changing the patient's Primary Metric will reset the detection of Clinical Notifications.

2. Select the phase that the patient is in.

Optimization - usually the first 30-90 days after implant
 Maintenance - patient's pressures and medications have stabilized

RIGHT HEART CATH IMPLANT VALUES

RA Mean:	mmHg	PA Mean:	mmHg
RV Systolic:	mmHg	PA Systolic:	mmHg
RV Diastolic:	mmHg	PA Diastolic:	mmHg
PCWP:	mmHg	Cardiac Output:	L/min

Primary Metric	Active	Goal	Lower Bound	Upper Bound		
PA Diastolic Pressure		26	22	27	Patient Threshold	Remove Override
Other Metrics			Lower Bound	Upper Bound		
PA Mean Pressure	<input checked="" type="checkbox"/>		10	25	Clinic Threshold	
PA Diastolic Trend	<input type="checkbox"/>					
PA Mean Trend	<input type="checkbox"/>					
PA Systolic Pressure	<input type="checkbox"/>		15	35	Clinic Threshold	
PA Systolic Trend	<input type="checkbox"/>					
Heart Rate	<input checked="" type="checkbox"/>		50	120	Clinic Threshold	
Pulse Pressure	<input type="checkbox"/>					

Return to Optimal State Threshold
Define how many consecutive readings in the optimal range are needed to consider the patient to be in an optimal state.
Optimal State Threshold: 2 consecutive readings.

Select notifications

Decide how and when you want to receive patient notifications by checking the boxes for:

- **Primary notifications:** Get notifications related to changes in a patient's PA pressure threshold, e.g., X readings below optimal range.
- **Administrative notifications:** Get notifications related to monitoring status, e.g., no pressure reading for X days.

Notifications

Clinical Notifications

Primary Notifications

These notifications are based on the patient's primary metric (PA Diastolic pressure or PA Mean pressure).

High pressure reading greater than 4 mmHg from optimal range
 Low pressure reading less than 4 mmHg from optimal range
 Rapid pressure change of 5 mmHg over 1 day(s)
 Pressure readings transitioned from High to Low range (without patient returning to optimal state)
 Pressure readings transitioned from Low to High range (without patient returning to optimal state)
 1 reading above optimal range
 1 reading below optimal range
 3 readings above optimal range
 3 readings below optimal range
 7 or more readings above optimal range
 7 or more readings below optimal range
 Patient returns to optimal state after medication change

Administrative Notifications

No pressure readings for 1 day(s)
 First pressure reading after 1 day(s)
 Pressure reading is suspect
 Patient review reminder
 Patient does not have pressure goal established
 Patient in optimization phase

myCardioMEMS™ Mobile Application View registered application users

Patient / Caregiver: Registered

Medications managed on the mobile application: Off

Customize myCardioMEMS™ mobile app settings

For patients registered to use the myCardioMEMS™ mobile app, turn medication management “on” if you'd like to display a list of their medications and send medication changes to the app.

PATIENT ACTIVITY

Get the whole picture of the patient quickly. Review a patient's activity by clicking on a **patient's name**. Then click the **Activity** tab.

The patient at a glance

Pertinent patient details are found at the top of the patient's detail page.

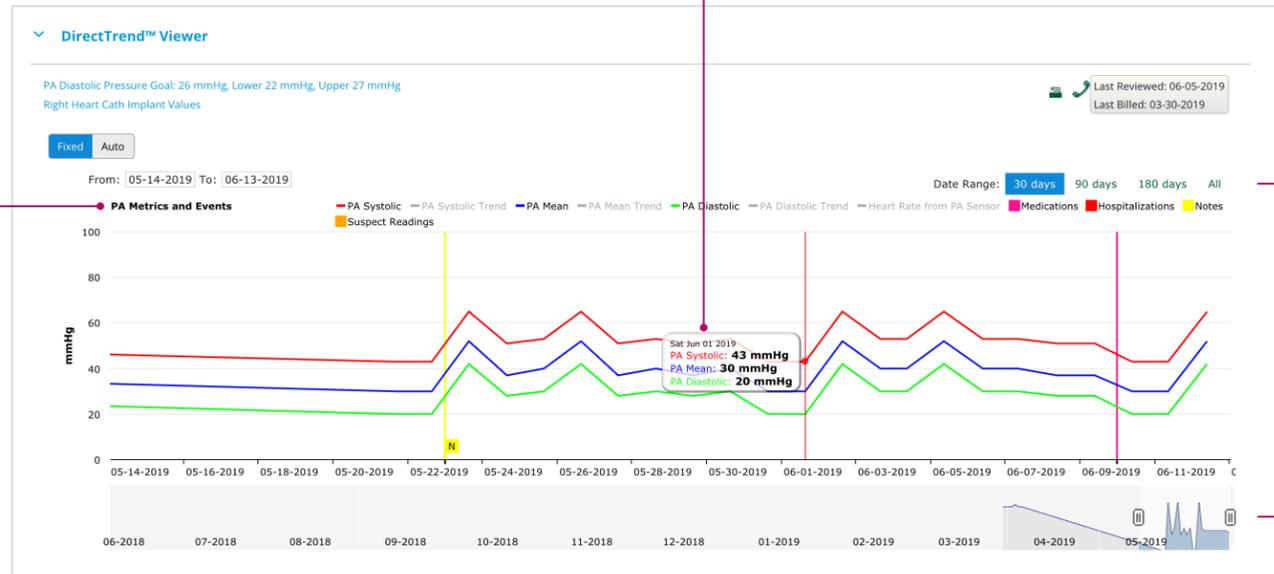
WARD, BILLY DOB 01-01-1953 1 405 6275849 MORE ACTIONS ▾

Patient ID Merlin.net™ Number 723306569	PA Sensor 04-05-2019 ICD/Pacemaker	Diagnosis Chronic Kidney Disease 04-25-2019	Treating Physician Adams, Francis	Subscribing Clinician(s) Dunham, Brian Clinician, Ruby Treat, Sam Subscribed	Note / Edit Likes to eat at Chinese buffet on Thursdays. Watch for PA mean increase on Fridays.
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Patient note. Keep track of lifestyle habits or other useful information that helps you better treat the patient.

DirectTrend™ viewer

Track a patient's readings over time with the interactive DirectTrend™ viewer.



Data visibility. Turn specific features on or off to display only the information that matters to you.

Reading details. Hover over a specific data point to see measurements for that reading.

Date range. Select a 30-, 90- or 180-day date range, or move the slider to view a custom date range.

Reading list

Review each reading in more detail.

PA pressure goal. Review individual readings against a patient's goal.

30-day summary. Quickly assess patient compliance for the last 30 days.

Filter and search. Narrow the list by filtering, or search on specific readings.

Readings	GOAL	30 DAY READING SUMMARY (does not consider readings received today)	MISSED	SUSPECT	FILTER	SEARCH	
	23 Set: 04-18-2019 PA Diastolic	100 Reading Compliance	0 Missed	0 Suspect	All ▾	<input type="text" value="Search"/>	
Taken on	PA Systolic	PA Diastolic	+/- Goal †	PA Mean	Heart Rate	Waveform	Status
06-12-2019, 09:07 AM	51 mmHg	28 mmHg	5	37 mmHg	82 bpm		
06-11-2019, 08:56 AM	53 mmHg	30 mmHg	7	40 mmHg	82 bpm		
06-10-2019, 08:45 AM	51 mmHg	28 mmHg	5	37 mmHg	82 bpm		
06-09-2019, 09:04 AM	53 mmHg	30 mmHg	7	40 mmHg	82 bpm		
06-08-2019, 09:11 AM	51 mmHg	28 mmHg	5	37 mmHg	82 bpm		
06-07-2019, 08:48 AM	65 mmHg	42 mmHg	19	52 mmHg	82 bpm		
06-06-2019, 08:52 AM	43 mmHg	20 mmHg	-3	30 mmHg	82 bpm		
06-05-2019, 09:04 AM	43 mmHg	20 mmHg	-3	30 mmHg	82 bpm		
06-04-2019, 09:02 AM	53 mmHg	30 mmHg	7	40 mmHg	82 bpm		
06-03-2019, 09:09 AM	53 mmHg	30 mmHg	7	40 mmHg	82 bpm		
06-02-2019, 09:10 AM	53 mmHg	30 mmHg	7	40 mmHg	82 bpm		Suspect

Waveform. Click on the waveform icon to review and update waveform status.

Reading status. Suspect readings are marked in orange. Click to review, then either accept or ignore the reading.

CLINIC SETTINGS

Based on recommended best practices, Merlin.net™ PCN comes with default settings that you may customize based on your clinic's preferences. Subscribe to useful reports, customize messaging for your patients, and add and remove users.

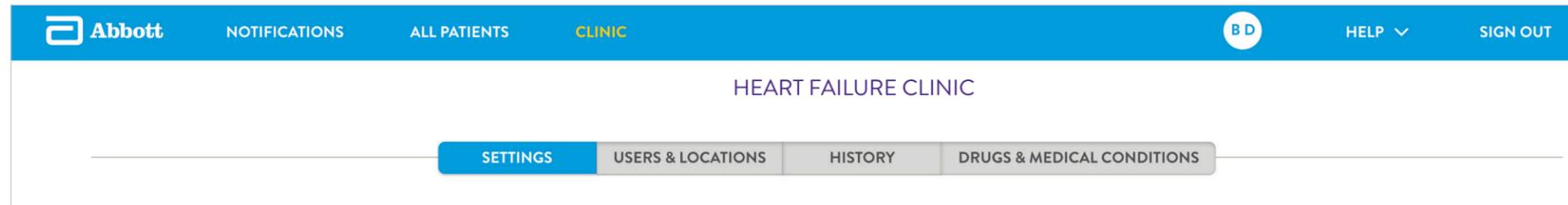
Clinic menu

Settings. Establish clinic-wide defaults for newly enrolled patients, including the Primary Metric your clinic prefers to use (such as PA Diastolic or PA Mean), thresholds for PA pressure or notifications you want to receive. After a patient is enrolled, their settings can be managed on an individual basis.

Users and locations. Add new Merlin.net™ PCN users or additional clinic locations.

History. See a complete history of actions taken throughout the site.

Drugs and medical conditions. In addition to those provided for you, add drugs or medical conditions that your clinic frequently uses when updating a patient's profile.



Reports

Settings > Clinic Profile

Receive reports by email about patients who meet certain conditions, delivered to users on the days you specify.

Notifications List Report. Contains patients who are on the Notifications List at the time the report is generated.

Patients of Interest Report. Contains patients whose average PA Diastolic pressures are rising but not enough to trigger a notification.

NOTIFICATION LIST REPORT

Subscribe to the Notification List Report. This report is distributed to all subscribed users on the specified days.

Subscribe to the report on the following days

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Send the report via unencrypted standard email

PATIENTS OF INTEREST REPORT

Subscribe to the Patients of Interest Report. This report is distributed to all subscribed users on the specified days if at least one active PA Sensor patient is enrolled in the clinic.

Subscribe to the report on the following days

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Send the report via unencrypted standard email

Patient messaging

Settings > Patient Messaging

Customize (on a clinic-wide basis) how your patients receive phone or text messages.

PATIENT MESSAGING

[Customize Phone Messages](#)
[Customize Text Messages](#)

Default patient notification window. (Defines when patient will receive messages delivered by voice call or SMS.) This notification window can be modified on a per patient basis in each patient's profile.

Send messages between: AM and: PM

PA pressure default settings

Settings > PA Sensor Patient Default Settings

Select whether your clinic prefers to monitor most patients by PA Diastolic or PA Mean. Set default optimal ranges for patients.

PRIMARY METRIC

Select the Primary Metric that your clinic will use to monitor most of your patients. (This can be modified on a per-patient basis as necessary)

PA Diastolic Pressure PA Mean Pressure

OPTIMAL RANGE DEFAULT SETTINGS FOR PRIMARY METRIC

Define the default optimal range values that will be used when a goal for a patient's Primary Metric is set.

Primary Metric	Phase	Default Optimal Range
PA Diastolic Pressure	Optimization	Goal +/- 6 mmHg
PA Diastolic Pressure	Maintenance	Goal +/- 3 mmHg
PA Mean Pressure	Optimization	Goal +/- 5 mmHg
PA Mean Pressure	Maintenance	Goal +/- 3 mmHg

Notifications

Settings > Notifications

Select the types of notifications that will be turned on by default for new patients.

Clinical Notifications

These notifications are based on the patient's primary metric (PA Diastolic pressure or PA Mean pressure).

High pressure reading greater than 10 mmHg from optimal range

Low pressure reading less than 10 mmHg from optimal range

Rapid pressure change of 5 mmHg over 1 day(s)

Pressure readings transitioned from High to Low range (without patient returning to optimal state)

Pressure readings transitioned from Low to High range (without patient returning to optimal state)

1 reading above optimal range

1 reading below optimal range

3 readings above optimal range

3 readings below optimal range

7 or more readings above optimal range

7 or more readings below optimal range

Patient returns to optimal state after medication change

Administrative Notifications

No pressure readings for 5 day(s)

First pressure reading after 3 day(s)

Pressure reading is suspect

Patient review reminder

Patient does not have pressure goal established

Patient in optimization phase

First home reading from a patient after enrollment or transfer

ALL PATIENTS

See **all** of your CardioMEMS™ HF System patients—not just those with notifications—on the All Patients list. This list is especially helpful in determining which patients are ready to be reviewed or billed.

Filter. Limit your view to active, inactive, scheduled or implanted patients. Refine the active patient list by device type or other attributes.

Star	Patient Name	Last Measurement	PA Trend (Last 5 days)	Last PA Mean	Since Review	Next Billing (Data Collected)	myCardioMEMS™ Medications	Latest Notes	Subscribed
☆	boland, Shawna	06-12-2019 PAP ✓	30,-,30,28,20	30 mmHg	2 days	06-04-2019 (37 days, Ready)	Off	06-10-2019: pressures reviewed. will check ag...	★
☆	Williams, Paul	06-12-2019 PAP ✓	28,30,30,28,30	40 mmHg	6 days	07-06-2019 (6 days)	Off	06-06-2019: patient instructed to call the cl...	★
★	Richardson, Samuel	06-12-2019 PAP ✓	28,30,28,30,28	37 mmHg	27 days	Set Reminder	Off	05-24-2019: vbvw	★
☆	North Dakota, Bismark	03-30-2019 PAP ☹	---	33 mmHg	7 days	Set Reminder	Not registered	05-28-2019: called daughter	★
★	Turner, Albert	06-12-2019 PAP ✓	42,28,30,30,30	40 mmHg	Set review date	Set Reminder	Off	05-16-2019: one dose of Lasix provided.	★
☆	Hall, Jacqueline	06-12-2019 PAP ✓	28,28,20,20,42	52 mmHg	7 days	04-29-2019 (27 days, Ready)	Off	05-23-2019: Med change	★
★	Jenkins, Patrick	06-12-2019 PAP ✓	42,28,30,30,28	37 mmHg	Set review date	Set Reminder	Off	05-20-2019: Reviewed pressures. Stable.	★
☆	Long, Wayne	06-12-2019 PAP ✓	20,28,28,30,30	40 mmHg	6 days	Set Reminder	Off	05-22-2019: Pass on the Chinese food.	★

Priority star. Mark a patient as priority for all Merlin.net™ users in the clinic.

PA trend. See the patient's last five readings, with the most recent on the right.

Next billing. See the patient's next billing date, set in the "Mark as Reviewed" box on a patient's Activity page.

More actions. Combine two patients, print the list, download a spreadsheet, or add or remove columns.

Subscribe. Click to subscribe to a patient—meaning they'll show up on your Notifications List. More than one clinician can subscribe to a patient.

GETTING STARTED

New clinic checklist

Clinic > Settings > Clinic Profile

- Verify or complete information about the clinic.
- Customize the voice messages and text messages that patients will receive based on their communication preferences.
- Select the days users in your clinic will receive the Notifications List Report and the Patients of Interest Report.
- Pick a primary metric—either PA Diastolic or PA Mean—by which you will monitor most patients.
- Set default ranges for the primary metric that will auto-populate based on a patient's PA pressure goal.
- Set defaults for other metrics that you'd like to monitor for most patients—like heart rate.
- Choose the notifications you'd like to receive for most patients.

New user checklist

User Settings (your initials in the navigation bar)

- Subscribe to the Patients of Interest Report and Notifications List Report (if desired).

All Patients

- Subscribe to the patients you want to follow by clicking on the green star next to the patient's name. Following a patient means that they'll be shown to you on the Notifications List. Patients without a subscribing clinician will be shown to all users in your clinic so they don't fall through the cracks.

Other resources

Find help. Download the Merlin.net™ PCN Help Manual from the Help link in the navigation bar.

Get useful workflow strategies. Learn how to manage your CardioMEMS™ HF System program more efficiently. Download the CardioMEMS™ HF System Program Practice Guide at Cardiovascular.Abbott/CardioMEMSWorkflow

Get started with the myCardioMEMS™ mobile app.

The myCardioMEMS™ mobile app helps patients stay engaged with their health. Download the Instructional Visual Guide at Cardiovascular.Abbott/CardioMEMSWorkflow

YOU'VE GOT THEIR NUMBER.
LEARN MORE AT [CARDIOVASCULAR.ABBOTT/MERLIN](https://www.cardiovascular.abbott/merlin)

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Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

Indications and Usage: The CardioMEMS™ HF System is indicated for wirelessly measuring and monitoring pulmonary artery (PA) pressure and heart rate in New York Heart Association (NYHA) Class III heart failure patients who have been hospitalized for heart failure in the previous year. The hemodynamic data are used by physicians for heart failure management and with the goal of reducing heart failure hospitalizations.

Contraindications: The CardioMEMS™ HF System is contraindicated for patients with an inability to take dual antiplatelet or anticoagulants for one month post implant.

Potential Adverse Events: Potential adverse events associated with the implantation procedure include, but are not limited to the following: Infection, Arrhythmias, Bleeding, Hematoma, Thrombus, Myocardial infarction, Transient ischemic attack, Stroke, Death and Device embolization.

Limitations: Patients must use their own Apple® or Android® mobile device to receive and transmit information to the myCardioMEMS™ mobile app. To do so the device must be powered on, app must be installed and data coverage (cellular or Wi-Fi) available. The myCardioMEMS™ app can provide notification of medication adjustments and reminders, requests for lab work and acknowledgement that the PA pressure readings have been received. However there are many internal and external factors that can hinder, delay, or prevent acquisition and delivery of the notifications and patient information as intended by the clinician. These factors include: patient environment, data services, mobile device operating system and settings, clinic environment, schedule/configuration changes, or data processing.

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