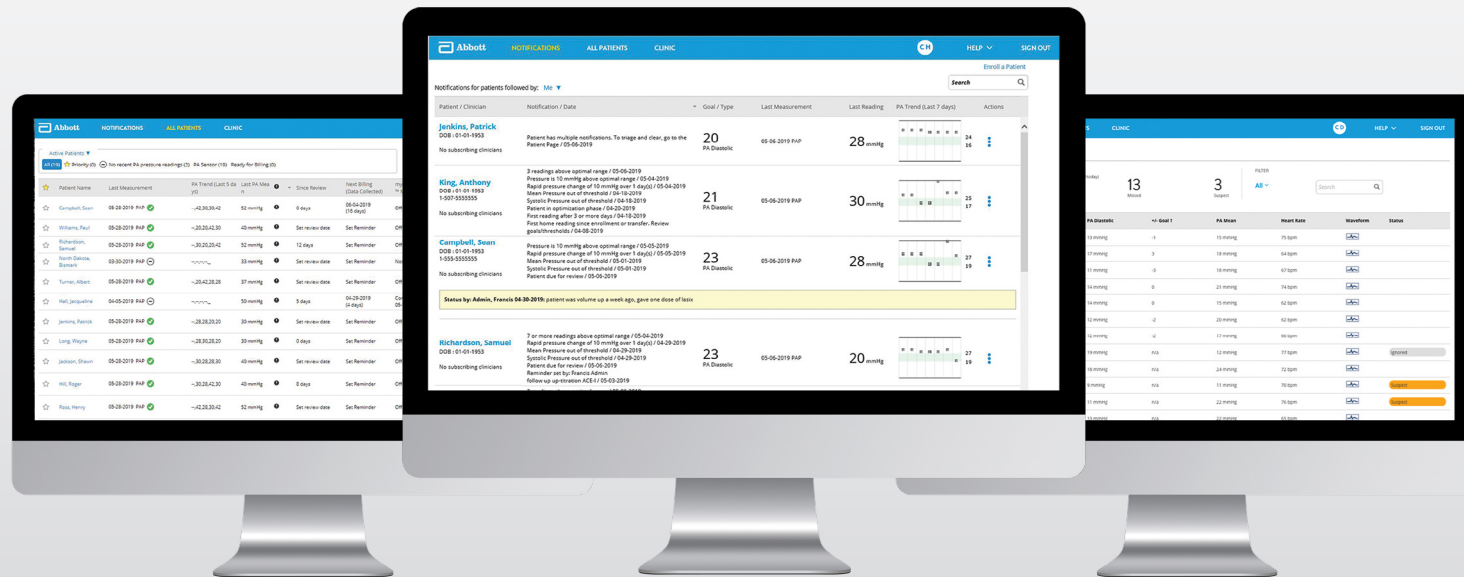




# HOW TO USE MERLIN.NET™ PCN

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.

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

Abbott NOTIFICATIONS ALL PATIENTS CLINIC B D HELP SIGN OUT

Enroll a Patient

Notifications for patients followed by: Me

Patient / Clinician	Notification / Date	Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
<b>Ward, Billy</b> DOB : 01-01-1953 1-405-6275849	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	20 PA Diastolic	06-02-2019 PAP	42 mmHg		24 16
Demo, Brian ...	Patient due for review / 05-13-2019					
<b>Campbell, Sean</b> DOB : 01-01-1953 1-555-5555555	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		22 18
Demo, Brian ...						
<b>Long, Wayne</b> DOB : 01-01-1953	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		26 18
Demo, Brian ...						
<b>Jackson, Shawn</b> DOB : 01-01-1953	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		24 16
Demo, Brian ...						

Status by: Clinician, Ruby 05-16-2019: optimization phase

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

**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.

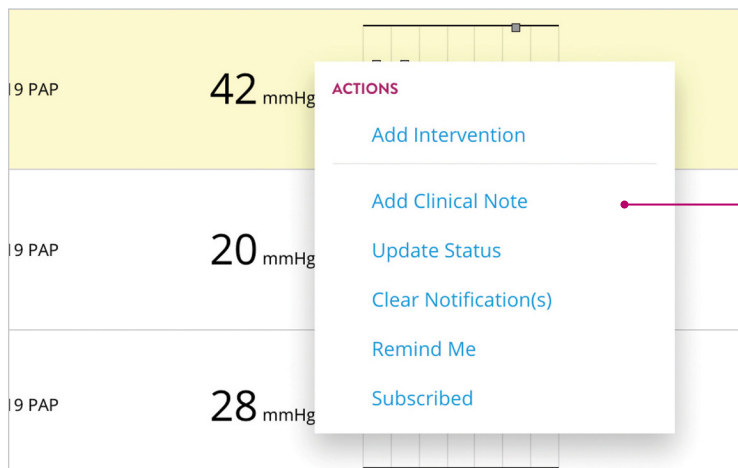
**7-day trend.** See your patient's readings from the last 7 days, with the latest reading on the right. In-range readings are shown in the green band.

# 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.

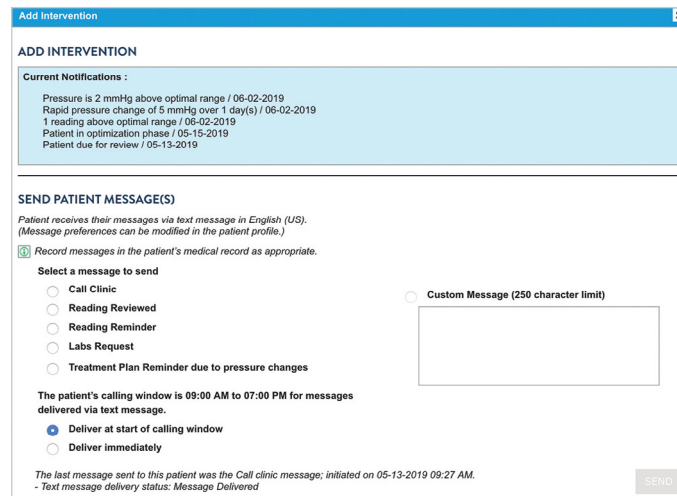
**Clear notification.** Remove the patient from the Notifications List.

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

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

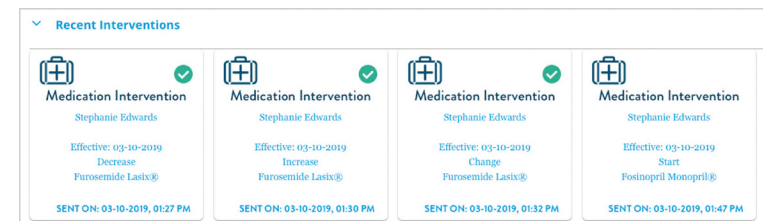
## Add intervention

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.



## 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.



# 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](#)

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**Patient**

\* First Name:

Middle Name:

\* Last Name:

Language:

Patient ID:

\* Date of Birth:

Merlin.net™ Number:

Clinic Location:

Gender:  Female  Male

Cardiomyopathy:

EF %:

Country Code:  Area/Code:  Phone Number:

Primary Phone:

Email:

Address 1:

Address 2:

Address 3:

Country:

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

- 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.
- 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: <input type="text" value="mmHg"/>	PA Mean: <input type="text" value="mmHg"/>
RV Systolic: <input type="text" value="mmHg"/>	PA Systolic: <input type="text" value="mmHg"/>
RV Diastolic: <input type="text" value="mmHg"/>	PA Diastolic: <input type="text" value="mmHg"/>
PCWP: <input type="text" value="mmHg"/>	Cardiac Output: <input type="text" value="L/min"/>

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

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 Thresholds:  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

## 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.

myCardioMEMS™ Mobile Application

[View registered application users](#)

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Patient / Caregiver: Registered

Medications managed on the mobile application: Off

# 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		<a href="#">MORE ACTIONS</a> ▾	
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.

**Patient note.** Keep track of lifestyle habits or other useful information that helps you better treat the patient.

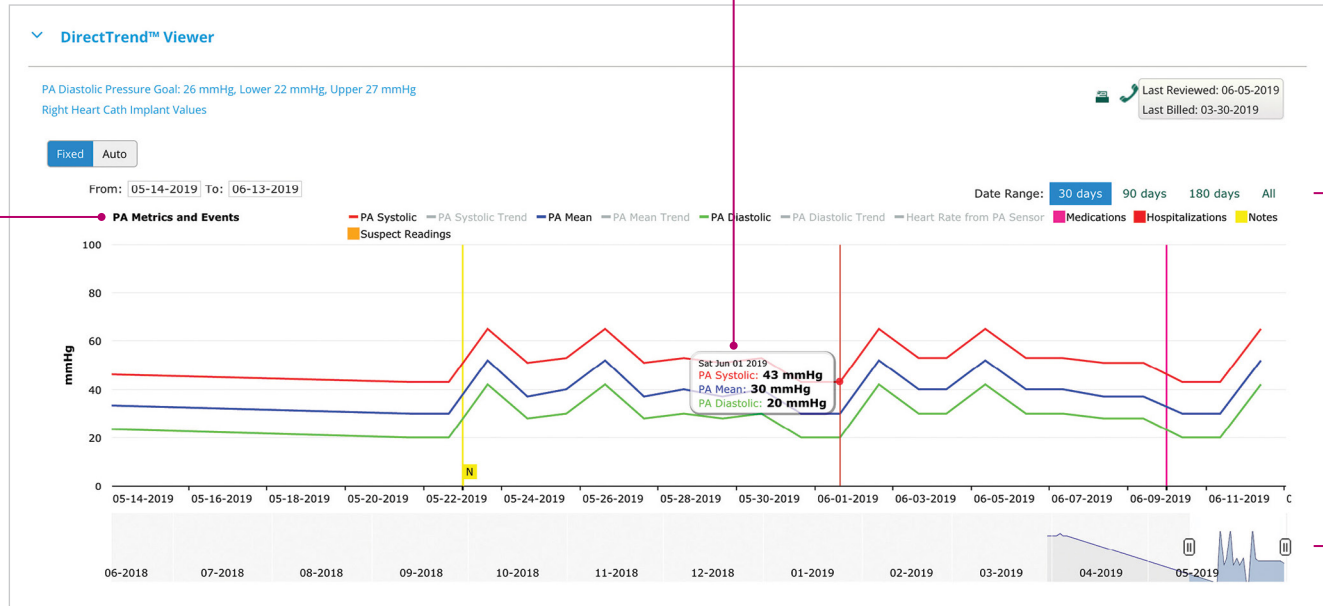
## DirectTrend™ viewer

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

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

## Data visibility.

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



**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  
**23**  
Set: 04-18-2019  
PA Diastolic

30 DAY READING SUMMARY  
(does not consider readings received today)  
**100**  
Reading Compliance

0  
Missed

0  
Suspect

FILTER  
All ▾

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.

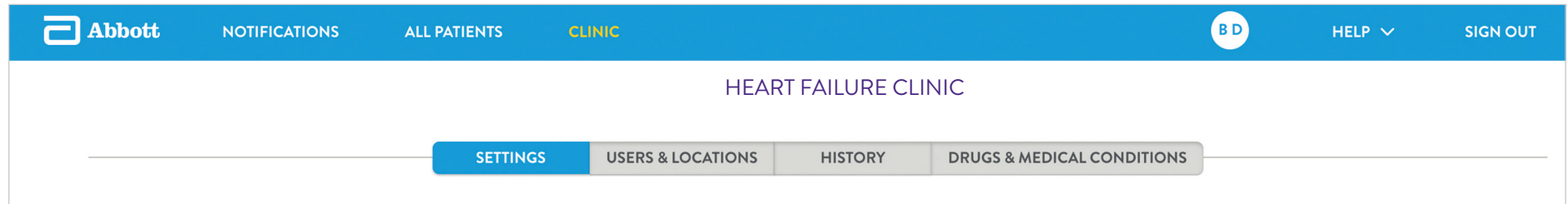
## Clinic menu

**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 +/- <input type="text" value="6"/> mmHg
PA Diastolic Pressure	Maintenance	Goal +/- <input type="text" value="3"/> mmHg
PA Mean Pressure	Optimization	Goal +/- <input type="text" value="5"/> mmHg
PA Mean Pressure	Maintenance	Goal +/- <input type="text" value="3"/> mmHg

## Notifications


### Settings > Notifications

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

#### 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  mmHg from optimal range
- Low pressure reading less than  mmHg from optimal range
- Rapid pressure change of  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  day(s)
- First pressure reading after  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.

The screenshot shows the Abbott 'All Patients' interface. At the top, there are navigation tabs for 'NOTIFICATIONS', 'ALL PATIENTS' (which is selected), and 'CLINIC'. On the right, there are links for 'HELP' and 'SIGN OUT'. Below the navigation, there is a search bar and a filter dropdown set to 'Active Patients'. A secondary filter bar shows 'All (19)', 'Priority (3)', 'No recent PA pressure readings (1)', 'PA Sensor (19)', and 'Ready for Billing (4)'. The main table lists patient information with columns for Patient Name, Last Measurement, PA Trend, Last PA Mean, Since Review, Next Billing, myCardioMEMS Medications, Latest Notes, and Subscribed. A 'More Actions' dropdown is visible on the right side of the table.

★	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.	★

**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.

**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.

# 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 started with the myCardioMEMS™ mobile app.

The myCardioMEMS™ mobile app helps patients stay engaged with their health.

YOU'VE GOT THEIR NUMBER.

LEARN MORE AT [CARDIOVASCULAR.ABBOTT/CARDIOMEMS](https://www.cardiovascular.abbott/cardiomems)

**Abbott**

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[Cardiovascular.Abbott/CardioMEMS](https://www.cardiovascular.abbott/cardiomems)

**Rx Only**

**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.

**CardioMEMS™ HF System Indications and Usage:** The CardioMEMS™ HF System is indicated for wirelessly measuring and monitoring pulmonary artery pressure and heart rate in NYHA Class II or III heart failure patients who either have been hospitalized for heart failure in the previous year and/or have elevated natriuretic peptides. The hemodynamic data are used by physicians for heart failure management with the goal of controlling pulmonary artery pressures and reducing heart failure hospitalizations.

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

**CardioMEMS™ HF System Potential Adverse Events:** Potential adverse events associated with the implantation procedure include, but are not limited to, the following: air embolism, allergic reaction, infection, delayed wound healing, arrhythmias, bleeding, hemoptysis, hematoma, nausea, cerebrovascular accident, thrombus, cardiovascular injury, myocardial infarction, death, embolization, thermal burn, cardiac perforation, pneumothorax, thoracic duct injury and hemothorax.

**myCardioMEMS™ Mobile App Limitations:** Patients must use their own Apple<sup>®</sup> or Android<sup>®</sup> 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<sup>†</sup>) 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.

<sup>™</sup> Indicates a trademark of the Abbott group of companies.

<sup>†</sup> Indicates a third-party trademark, which is property of its respective owner.

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