Abbott

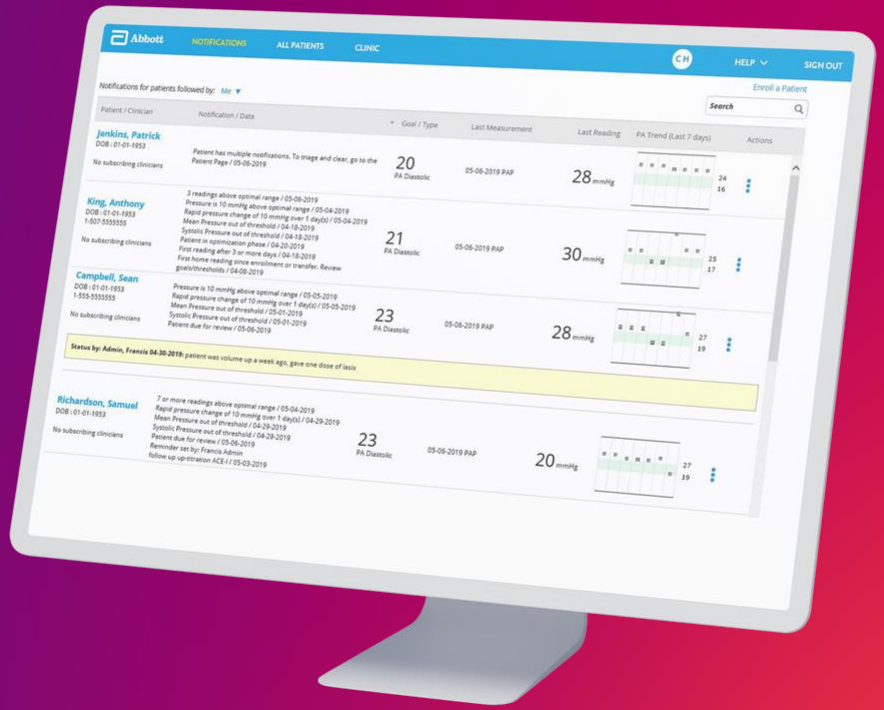
AN INTRODUCTION TO

Merlin.net™ Patient Care Network (PCN)

Heart Failure Management Portal

Proprietary and confidential — do not distribute

Effective, Efficient Remote Monitoring of CardioMEMS™ HF System Patients



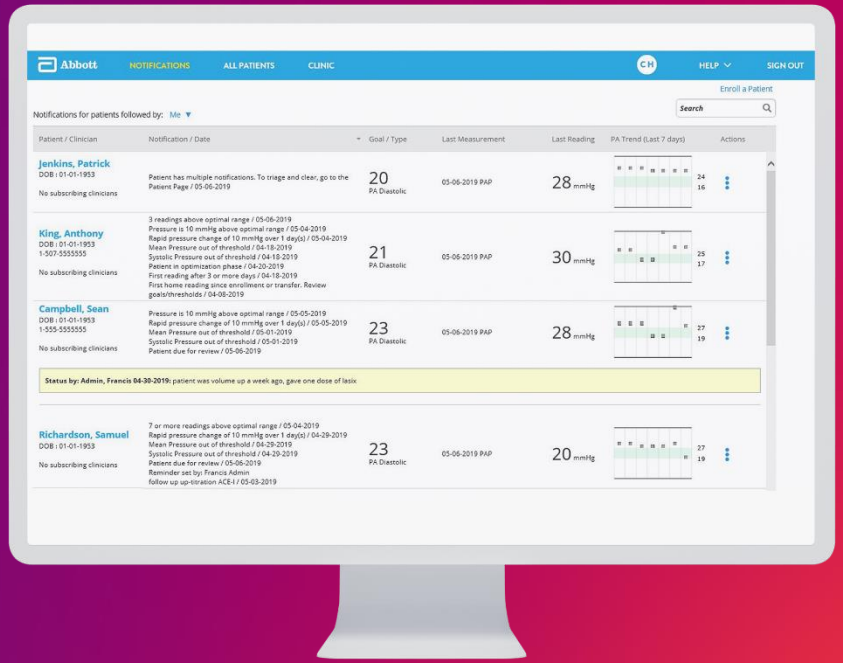
Tools to Drive Efficiency

THE MERLIN.NET™ PATIENT CARE NETWORK AND MYCARDIOMEMS™ PATIENT APPLICATION ALLOW YOU TO:

- Triage patients effectively with web-based notifications
- Easily assess patients in a single view
- Document interventions
- Reduce patient phone calls with custom messaging

Topics

- Getting Started with Merlin.net™ PCN
- Setting up a Patient for Monitoring
- Managing by Exception
- Reviewing Patients
- Taking Actions
- Other Patient Settings
- Clinic-Wide Settings
- User Settings
- Administrative Tasks

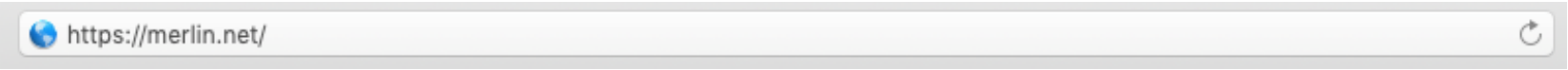


1. Getting Started with Merlin.net™ PCN

1. GETTING STARTED WITH MERLIN.NET™ PCN

Merlin.net™ PCN Overview

Heart Failure Portal Access



FOR HF-ONLY CLINICS:

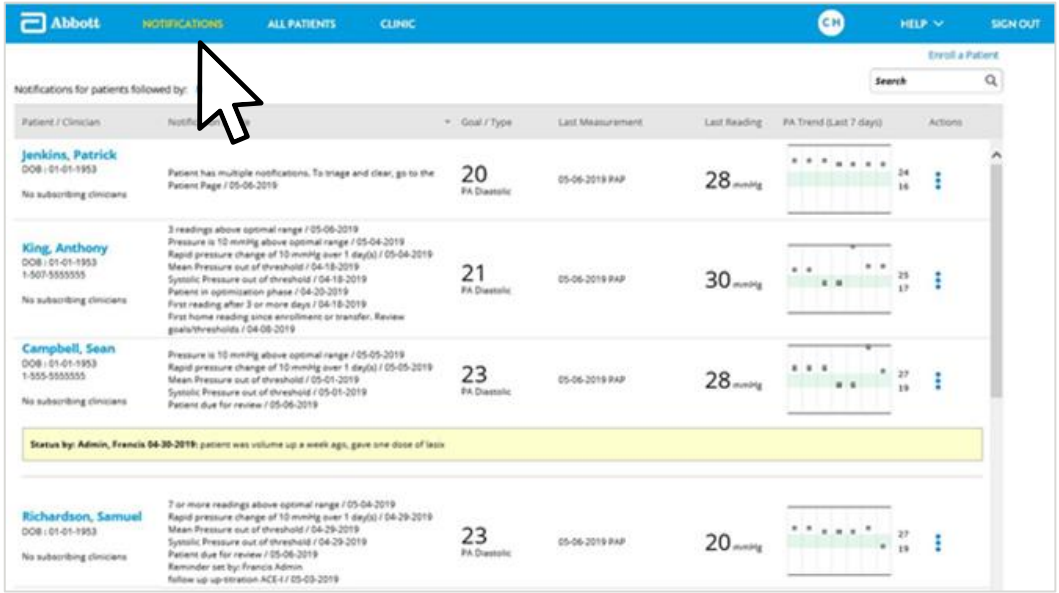
The heart failure portal will be your clinic's landing page.

FOR CLINICS WITH BOTH CRM AND HF PORTAL ACCESS:

Use the "Switch to" link to navigate between portals.

Notifications

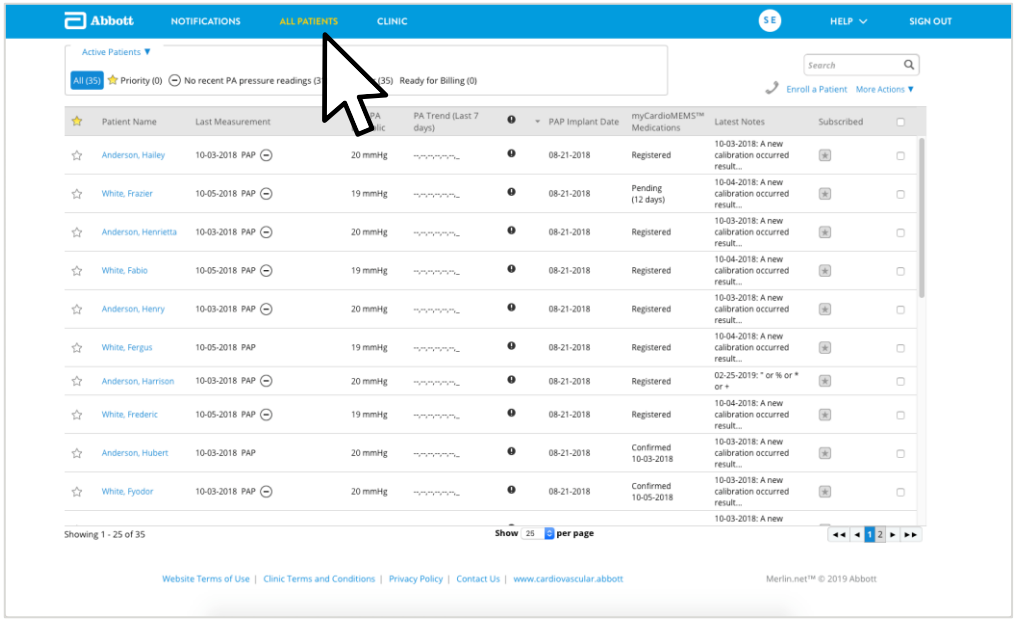
- Is the default landing page for an HF-enabled clinic
- Shows only the CardioMEMS™ HF System patients with active notifications
- Serves as your “inbox” for managing CardioMEMS HF System patients
- Provides enough detail to quickly intervene and take action



All Patients

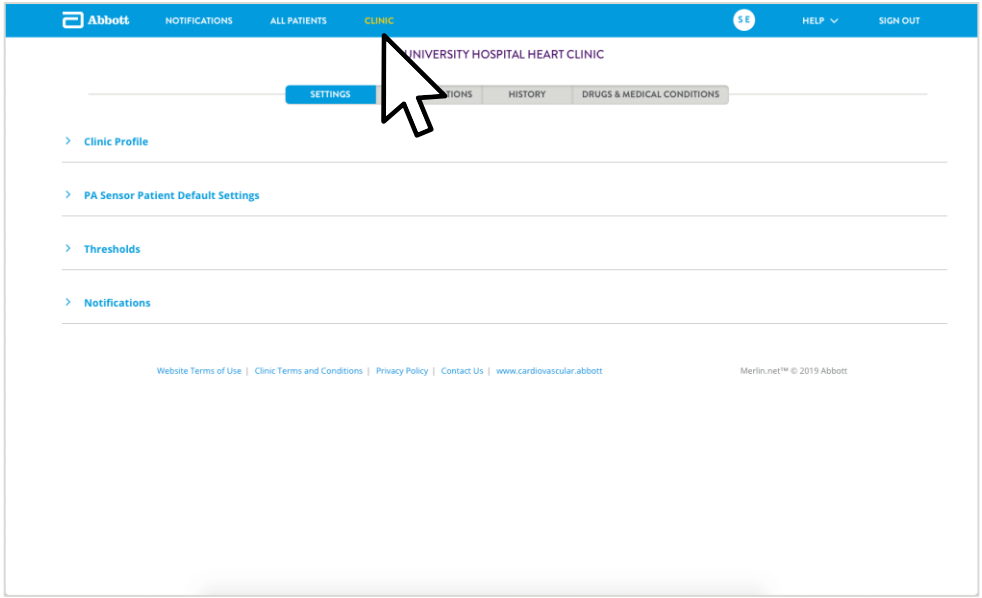
Shows all of the patients in your clinic:

- Active
- Inactive
- Scheduled
- Implanted



Clinic

- Is available only to users with administrative access
- Allows you to establish clinic-level settings for all patients
- Allows you to manage your clinic's users
- Includes detailed history for all patients
- Includes drug and condition lists



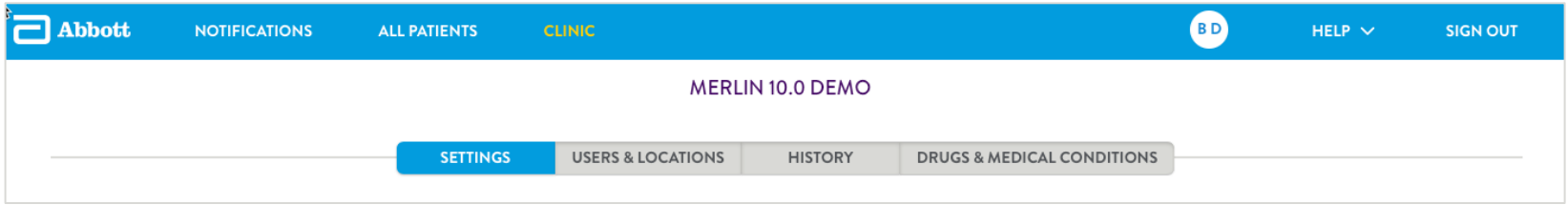
Utility Navigation

- Provides access to your individual user settings
- Links to Help resources
- Allows you to switch between Merlin.net™ PCN portals

1. GETTING STARTED WITH MERLIN.NET™ PCN

Setting Up Your Clinic

Settings

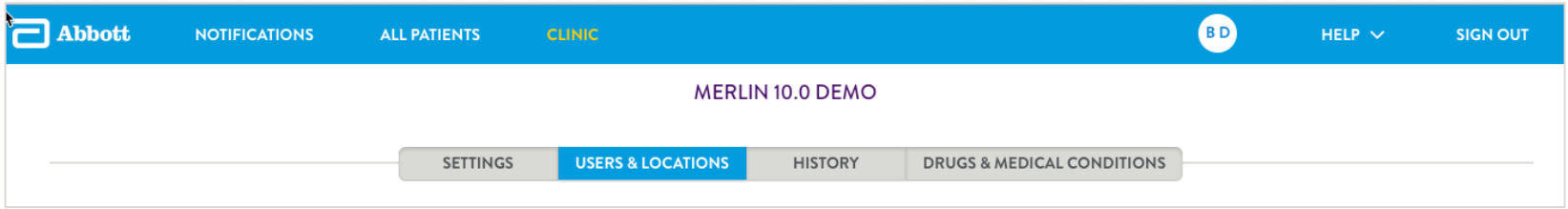


In **SETTINGS > CLINIC PROFILE,** complete:

- Clinic Details
- Clinic Regional Settings
- Notifications List Report
- Patients of Interest Report

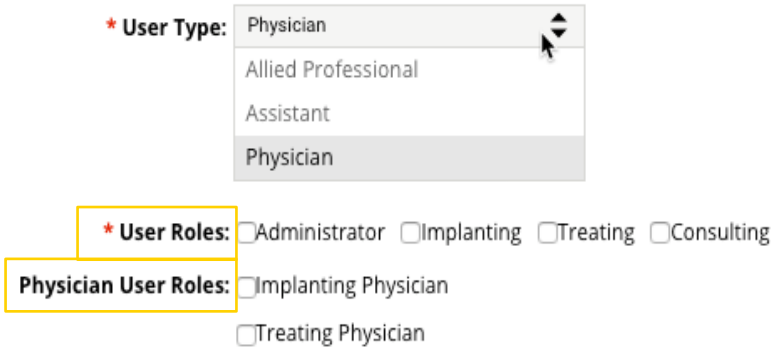
TIP: Enable delivery of reports for your clinic as a whole on specific days.
Users can then choose whether or not to receive the reports from their user profile.

Settings



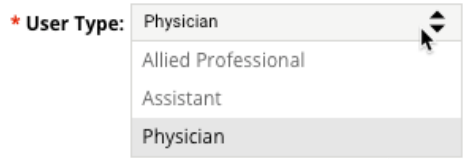
In **USERS & LOCATIONS > USERS,** add users and assign roles as appropriate.

- **User Roles** control the user's patient viewing access and read/write abilities
- **Physician User Roles** (only shown if User Type is Physician) do *not* control read/write abilities



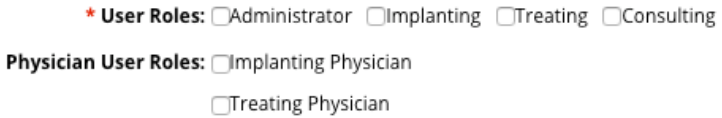
Settings

Tips for **USER TYPES:**



- For **clinical** roles, select **PHYSICIAN** or **ALLIED PROFESSIONAL**.
- For **non-clinical roles**, select **ASSISTANT**.

Tips for **USER ROLES:**



- To allow a user to make **changes to global clinic settings** or add/remove users, select **ADMINISTRATOR**.
- To allow a user **read-only** access to patient data, select **CONSULTING**.

2. Setting up a Patient for Monitoring

2. SETTING UP A PATIENT FOR MONITORING

Enrolling a Patient

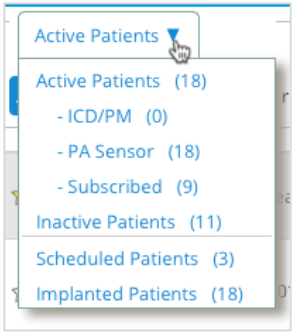
Enrolling a Patient

1. **At implant**, patients should be enrolled using the **HOSPITAL ELECTRONICS SYSTEM (HES)** or **HOSPITAL SYSTEM (HS)**. Enter minimal information on the HES or HS to create a basic profile:
   - Last name
   - First name
   - Date of birth

2. **Post-implant**, complete the patient's profile on Merlin.net™ PCN.

For Centers *With* Connectivity

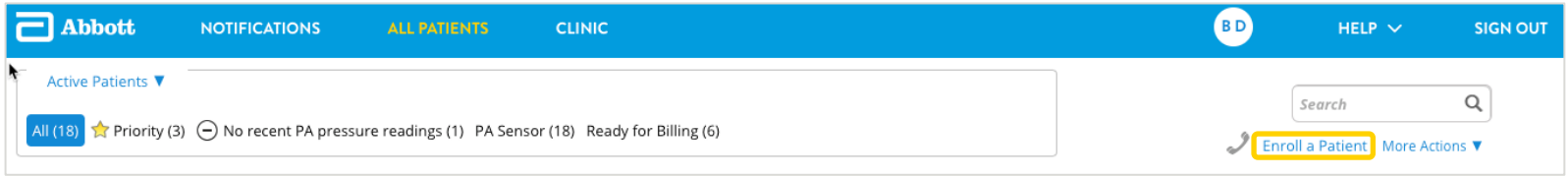
After implant, find the patient on the **ALL PATIENTS** list under **SCHEDULED**.



- In **SETTINGS > PA SENSOR**:
- Associate the patient with a clinic
- Assign a treating physician
- Select consulting users, if desired

For Centers *Without* Connectivity

After implant, navigate to the **ALL PATIENTS** list and click on **ENROLL A PATIENT**.



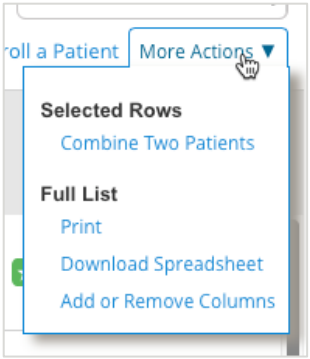
- Select **PA SENSOR** and enter patient's details.
- Scroll to **PA SENSOR** and enter sensor serial number.
- Insert USB drive from implant, and click **IMPORT FROM FLASH DRIVE**.

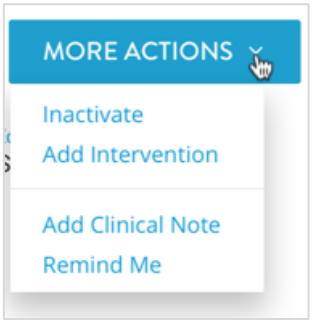
Dealing With Duplicate Patients

You may experience duplicate patients in two cases:

1. **If the patient is already enrolled as a Cardiac Rhythm Management patient.**
   Continue to enroll the patient as a CardioMEMS™ HF System patient. Then, from **ALL PATIENTS**, select and combine the two patients.

2. **If the patient was enrolled in Merlin.net™ PCN rather than the HES or HS.**
   Click on the duplicate profile. From the **MORE ACTIONS** menu, select **INACTIVATE**.





2. SETTING UP A PATIENT FOR MONITORING

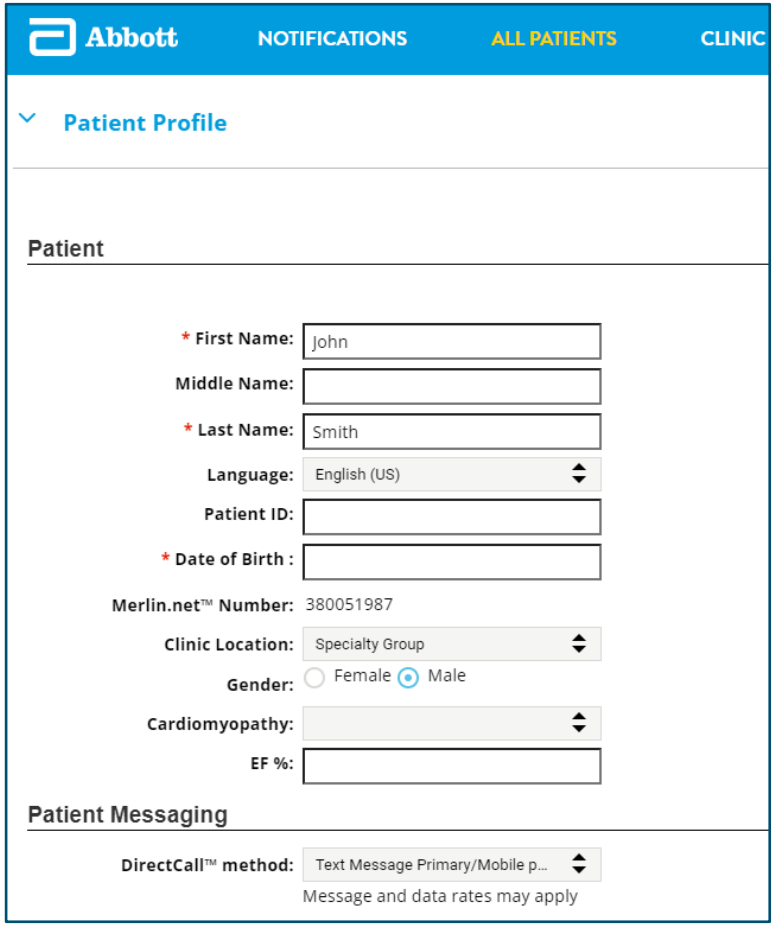
Setting Up a Patient's Profile

Finishing the Patient's Profile

A patient will move automatically from the **SCHEDULED** list to the **ACTIVE** list after their first transmission from the Patient Electronics System *and* if the patient has been associated with a clinic.

In **SETTINGS > PATIENT PROFILE > PATIENT,** complete:

- Name
- Contact information
- Ejection fraction (EF) %
- Patient messaging preferences



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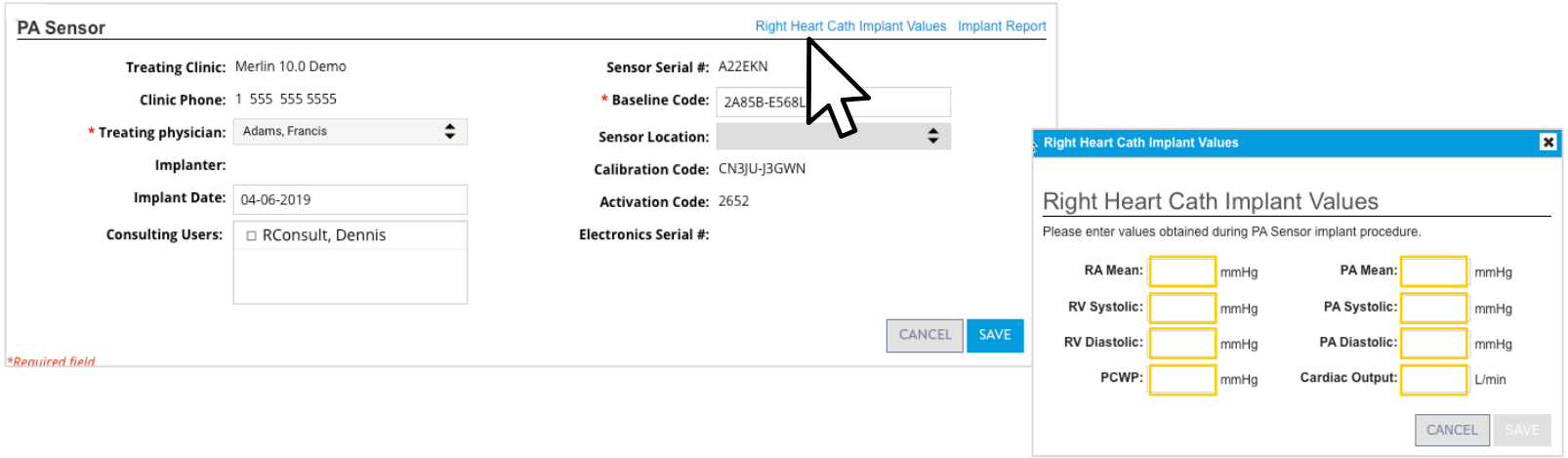
Entering Right Heart Cath Values

In **SETTINGS > PATIENT PROFILE > PA SENSOR,** enter values from implant.

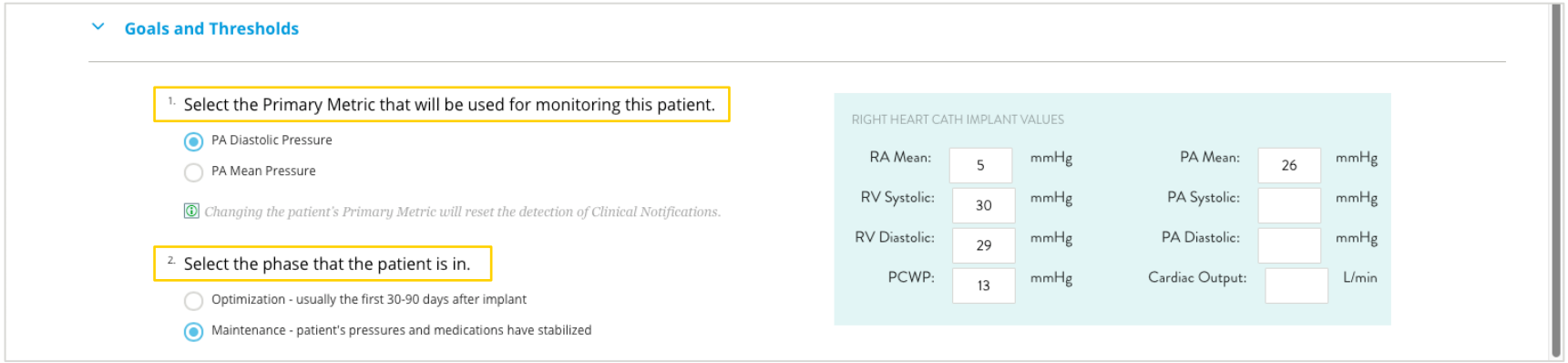


TIP: Entering this information can provide guidance for setting PA pressure goal and threshold.

Setting Goals and Thresholds

In **SETTINGS** > **GOALS AND THRESHOLDS:**

- Select a primary metric (default = PA Diastolic)
- Select the phase that the patient is in (default = Optimization)



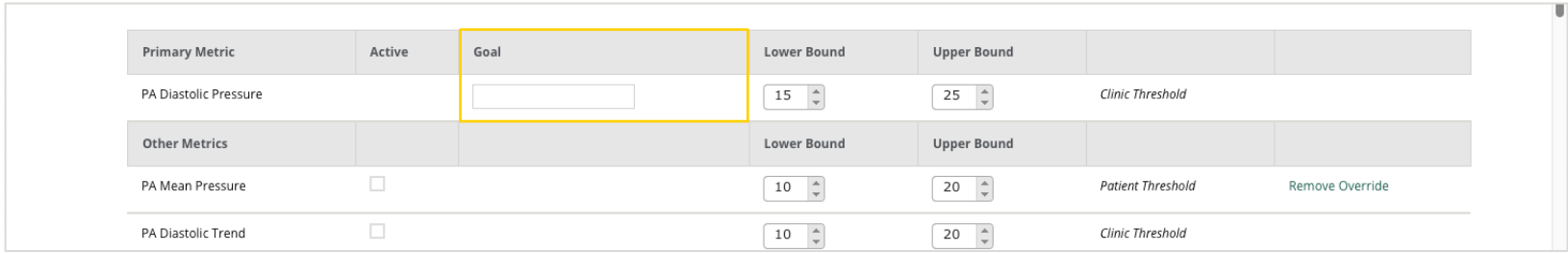
Establishing a Goal and Optimal Range

In **SETTINGS** > **GOALS AND THRESHOLDS:**

- Enter a PA pressure goal – the target PA pressure for patient management (optional).
- Enter a patient's optimal range (which, when exceeded, will trigger a notification).

DEFAULTS PRIOR TO GOAL BEING SET
Clinic-level values

DEFAULTS UPON SETTING THE GOAL:
± 4 from PAD goal (optimization)
± 2 from PAD goal (maintenance)
± 5 from PAM goal (optimization)
± 3 from PAM goal (maintenance)



Primary Metric	Active	Goal	Lower Bound	Upper Bound		
PA Diastolic Pressure			15	25	*Clinic Threshold*	
Other Metrics			**Lower Bound**	**Upper Bound**		
PA Mean Pressure	☐		10	20	*Patient Threshold*	Remove Override
PA Diastolic Trend	☐		10	20	*Clinic Threshold*	

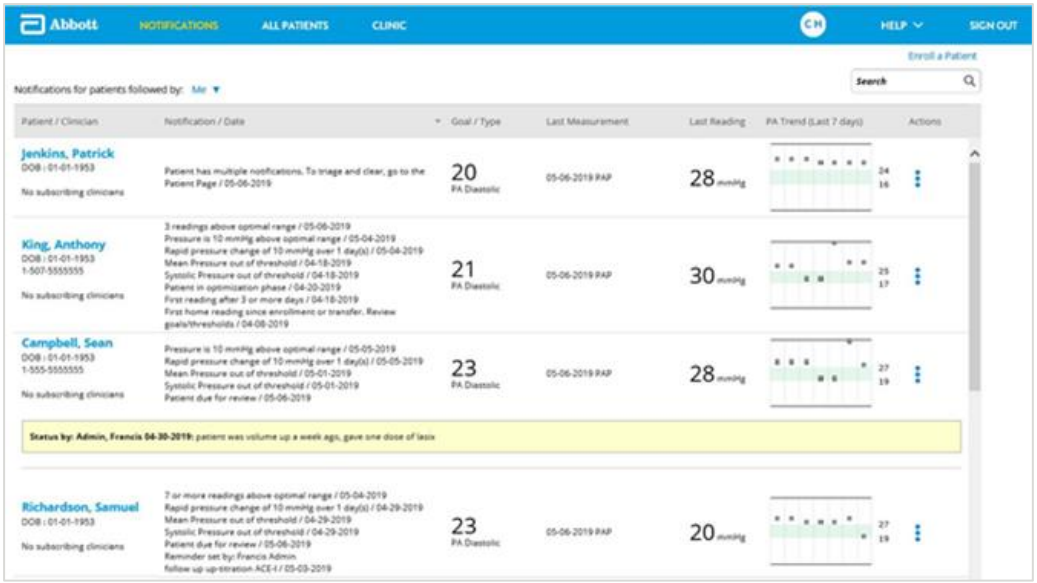
TIP: Within three to seven days of implant, review the patient's at-home readings to determine an initial optimal range and (if desired) a PA goal. Assess the goal and range every two weeks; adjust and reprogram accordingly.

3. Managing by Exception

Notifications List

The Notifications List helps you focus on patients who need your attention.

- Shows only patients who have active notifications, based on an out-of-range PA pressure reading or other clinical or administrative setting.



3. MANAGING BY EXCEPTION

Notification types

Notification Types

TYPE	SUB-TYPE	EXAMPLES
Clinical Notifications based on **PA pressure** or other **clinical** metric (e.g., heart rate)	**Primary Notifications** Related to the patient's primary metric (PA Diastolic or PA Mean)	• 3 readings above optimal range • Rapid pressure change of <n> over 1 day
	Other Notifications Related to the non-primary metric thresholds	• Heart rate out of threshold • Systolic pressure out of threshold
Administrative Notifications associated with administrative-level considerations		• No pressure readings for <n> days • Pressure reading is suspect

Clinical > Primary Notifications

NOTIFICATIONS RELATED TO THE THE PRIMARY METRIC (PA DIASTOLIC OR PA MEAN)

NOTIFICATION	DEFAULT
High pressure reading greater than <n> from optimal range	OFF
Low pressure reading less than <n> from optimal range	OFF
Rapid pressure change of <n> over 1 day	ON, N = 10
Pressure reading transition from High to Low range (without patient returning to optimal state)	OFF
Pressure reading transitions from Low to High range (without patient returning to optimal state)	OFF
1 reading above optimal range	OFF
1 reading below optimal range	OFF
3 readings above optimal range	ON
3 readings below optimal range	ON
7 or more readings above optimal range	ON
7 or more readings below optimal range	ON
Patient returns to optimal state after medication change	OFF

Clinical > Other Notifications

NOTIFICATIONS RELATED TO NON-PRIMARY METRIC THRESHOLDS

Note: These notifications will only trigger if corresponding thresholds are defined and active.

NOTIFICATION	DEFAULT
Diastolic pressure out of threshold *	OFF
Diastolic pressure trend out of threshold	OFF
Mean pressure out of threshold *	OFF
Mean pressure trend out of threshold	OFF
Heart rate out of threshold	ON
Pulse pressure out of threshold	OFF
Systolic pressure out of threshold	OFF
Systolic pressure trend out of threshold	OFF

**Only applicable as an "other" notification if it is NOT the primary metric. (For example: If a patient's primary metric = PA Diastolic, then the "Diastolic pressure out of threshold" notification would not be triggered as an "other" notification.)*

Administrative Notifications

NOTIFICATION	DEFAULT
No pressure readings for <n> days	ON, N = 3
First pressure reading after <n> days	OFF, N = 3
Pressure reading is suspect	ON
Patient has not been reviewed for 30 days	OFF
Patient does not have a pressure goal established	OFF
Patient is in Optimization phase	OFF
First home reading from a patient after enrollment or transfer	OFF
Systolic pressure trend out of threshold	OFF

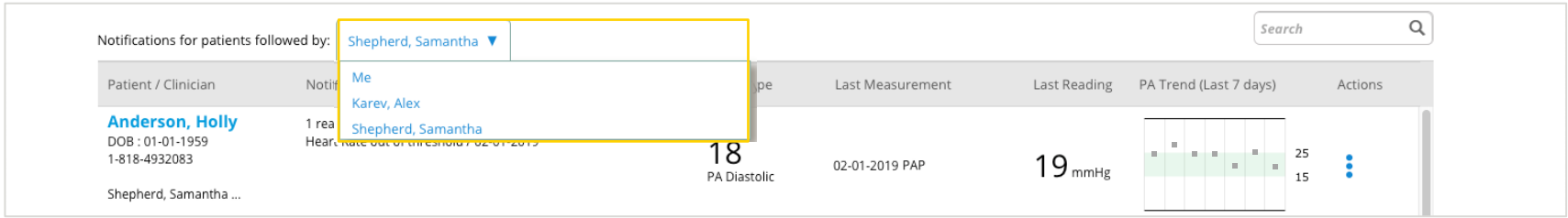
3. MANAGING BY EXCEPTION

Using the Notifications List

Using the Notifications List

NOTIFICATIONS FILTER

- Allows you to see patients you or other clinicians are subscribing to
- Includes patients who do not have a subscribing clinician

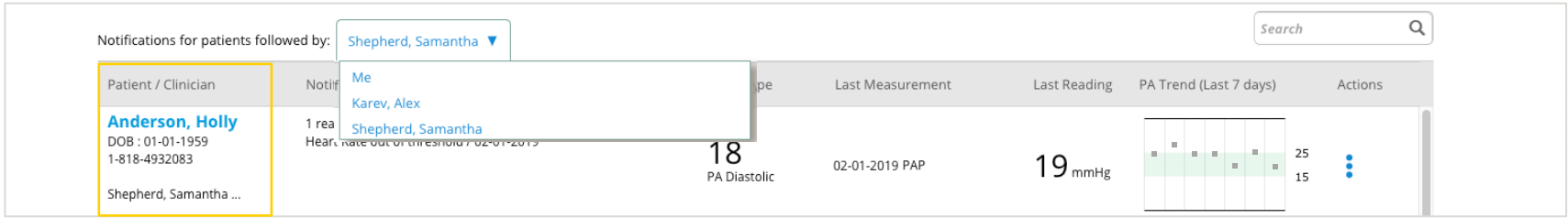


TIP: Use the "subscribe" (green star:) feature to follow specific patients and ensure they appear on your Notifications List. Subscribe to patients from the All Patients list or the individual patient profile.

Using the Notifications List

PATIENT/CLINICIAN COLUMN

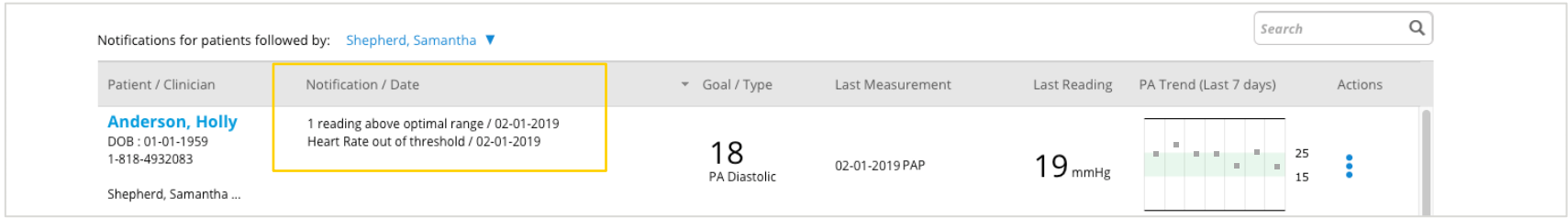
Displays patient name, date of birth, phone and subscribing clinician(s)



Using the Notifications List

NOTIFICATION/DATE COLUMN

Provides the reason(s) the patient is on the Notifications List and the date the notification was triggered

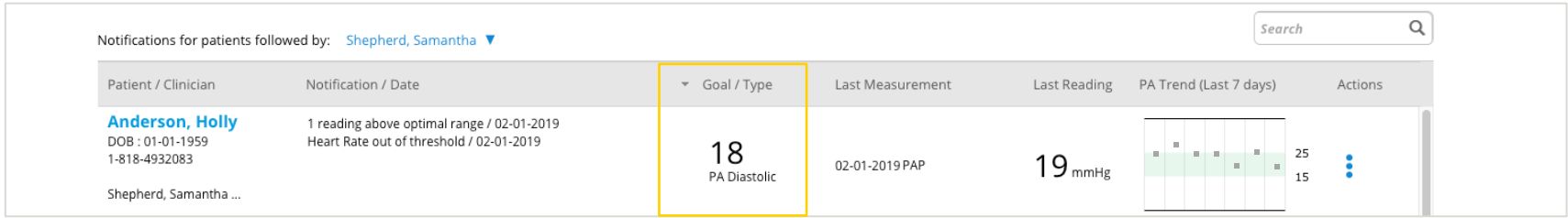


REMINDER: A patient may have more than one notification, with "clinical" notifications at the top. Review all notifications, but treat the notifications (and the patient) as a whole.

Using the Notifications List

GOAL/TYPE COLUMN

Displays the patient's PA pressure goal and the Primary Metric (type of goal) by which they are being monitored (PA Diastolic or PA Mean)

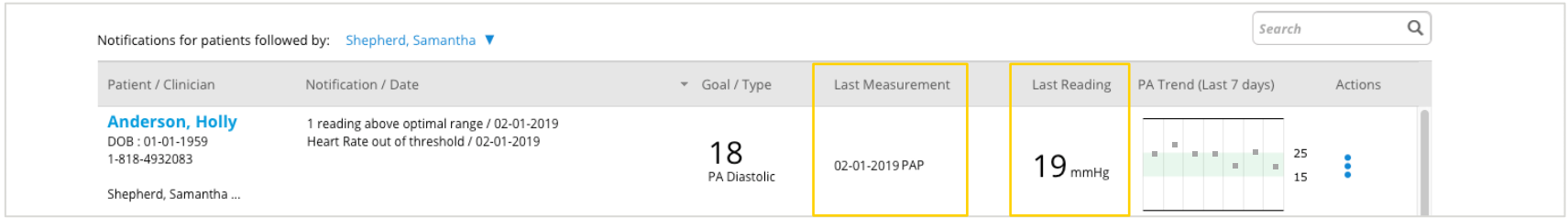


REMINDER: It is not a requirement that patients have a PA pressure goal. In these cases, "No Goal Set" displays.

Using the Notifications List

LAST MEASUREMENT AND LAST READING COLUMNS

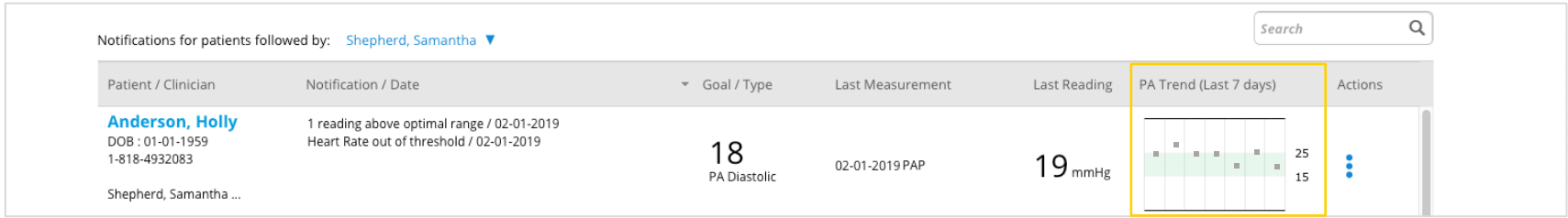
- Displays the date that the patient last took a reading
- Displays the last reading value sent by the patient



Using the Notifications List

PA TREND COLUMN

Displays readings from the past seven days in relation to the patient's optimal range



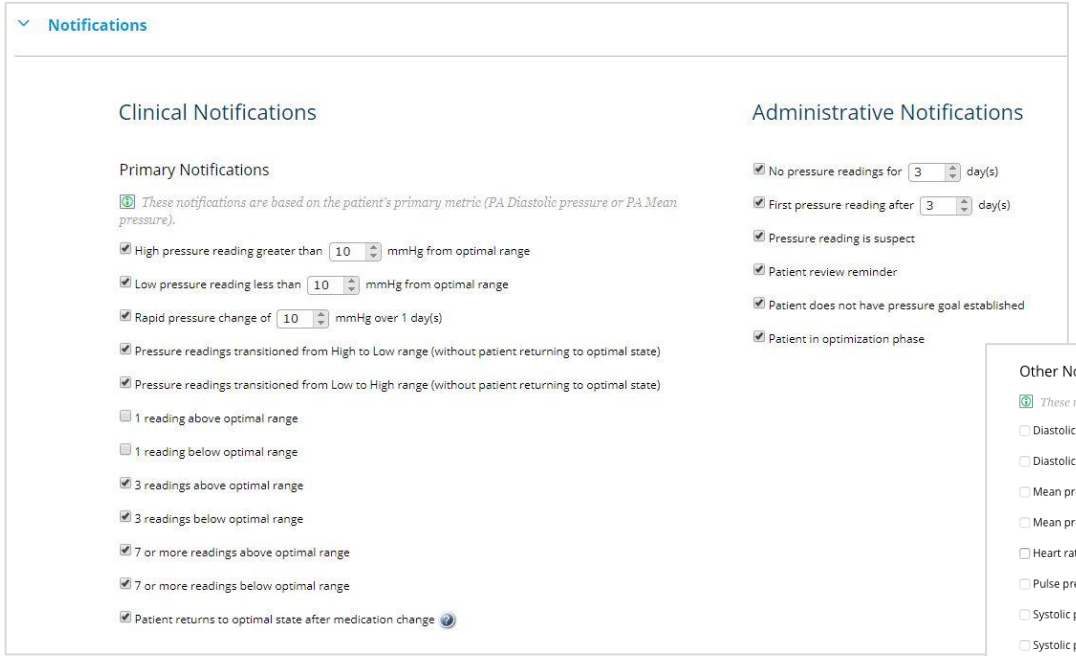
REMINDER:

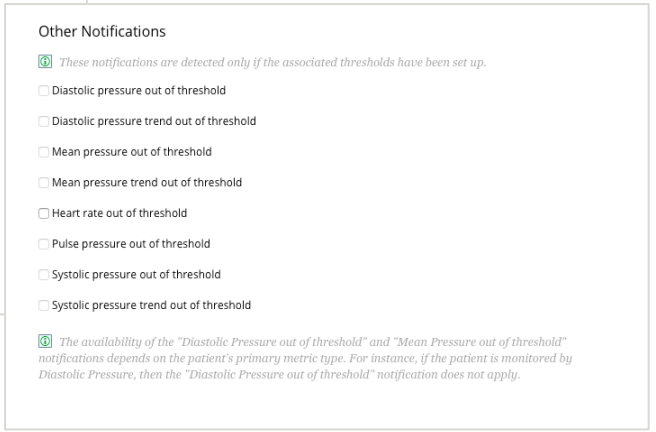
- If multiple readings are sent in one day, only the most recent one is shown.
- A suspect reading will be shown in orange.

3. MANAGING BY EXCEPTION

Getting Notified

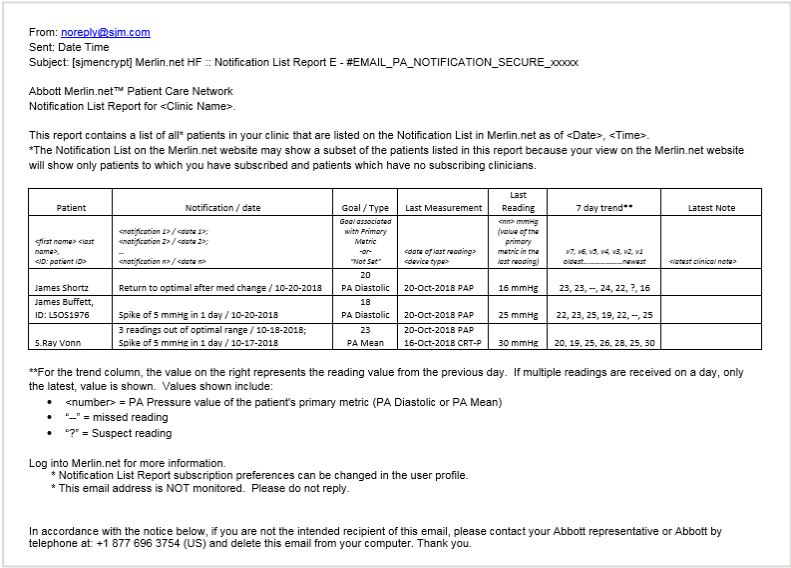
Notifications List Settings





Notifications List Report

- Contains list of all patients currently on clinic's Notification List
- Runs at 12 p.m. local time – a snapshot in time
- Can be subscribed to by individual users
  - Distribution days set at clinic-level
  - Subscription on/off set at a user-level



From: noreply@sjm.com
Sent: Date Time
Subject: [sjmencrypt] Merlin.net HF :: Notification List Report E - #EMAIL_PA_NOTIFICATION_SECURE_xxxxx

Abbott Merlin.net™ Patient Care Network
Notification List Report for <Clinic Name>.

This report contains a list of all* patients in your clinic that are listed on the Notification List in Merlin.net as of <Date>, <Time>.
*The Notification List on the Merlin.net website may show a subset of the patients listed in this report because your view on the Merlin.net website will show only patients to which you have subscribed and patients which have no subscribing clinicians.

Patient	Notification / date	Goal / Type	Last Measurement	Last Reading	7 day trend**	Latest Note
<first name> <last name>, <ID: patient ID>	*<notification 1> / <date 1>; <notification 2> / <date 2>; ... <notification n> / <date n>*	*Goal associated with Primary Metric -or- "Not Set"*	*<date of last reading> <device type>*	*<nn> mmHg (value of the primary metric in the last reading)*	*v7, v6, v5, v4, v3, v2, v1 oldest.....newest*	*<latest clinical note>*
James Shortz	Return to optimal after med change / 10-20-2018	20 PA Diastolic	20-Oct-2018 PAP	16 mmHg	23, 23, --, 24, 22, ?, 16	
James Buffett, ID: LSOS1976	Spike of 5 mmHg in 1 day / 10-20-2018	18 PA Diastolic	20-Oct-2018 PAP	25 mmHg	22, 23, 25, 19, 22, --, 25	
S.Ray Vonn	3 readings out of optimal range / 10-18-2018; Spike of 5 mmHg in 1 day / 10-17-2018	23 PA Mean	20-Oct-2018 PAP 16-Oct-2018 CRT-P	30 mmHg	20, 19, 25, 26, 28, 25, 30	

**For the trend column, the value on the right represents the reading value from the previous day. If multiple readings are received on a day, only the latest, value is shown. Values shown include:

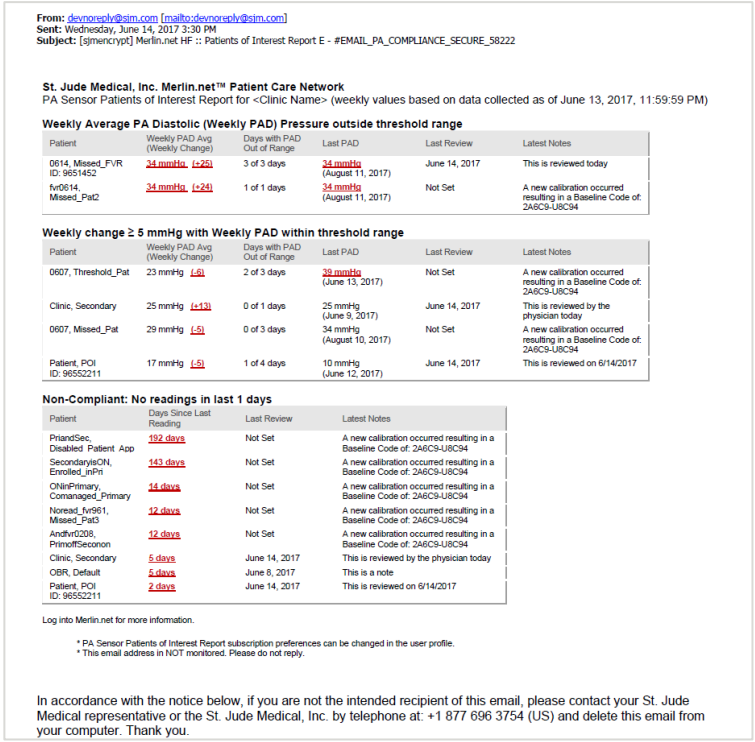
- <number> = PA Pressure value of the patient's primary metric (PA Diastolic or PA Mean)
- "--" = missed reading
- "?" = Suspect reading

Log into Merlin.net for more information.
* Notification List Report subscription preferences can be changed in the user profile.
* This email address is NOT monitored. Please do not reply.

In accordance with the notice below, if you are not the intended recipient of this email, please contact your Abbott representative or Abbott by telephone at: +1 877 696 3754 (US) and delete this email from your computer. Thank you.

Patients of Interest Report

- Focuses on PA Diastolic, regardless of primary metric selected
- Includes patients who have …
  - A running average of seven days of PAD pressure outside threshold
  - Weekly PAD pressure average change ± 5 mmHg from previous week's
  - Not transmitted a reading for more than seven days in a row



From: devnoreply@sjm.com [mailto:devnoreply@sjm.com]
Sent: Wednesday, June 14, 2017 3:30 PM
Subject: [sjmencrypt] Merlin.net HF :: Patients of Interest Report E - #EMAIL_PA_COMPLIANCE_SECURE_58222

St. Jude Medical, Inc. Merlin.net™ Patient Care Network
PA Sensor Patients of Interest Report for <Clinic Name> (weekly values based on data collected as of June 13, 2017, 11:59:59 PM)

Weekly Average PA Diastolic (Weekly PAD) Pressure outside threshold range

Patient	Weekly PAD Avg (Weekly Change)	Days with PAD Out of Range	Last PAD	Last Review	Latest Notes
0614, Missed_FVR ID: 9651452	34 mmHg (+25)	3 of 3 days	34 mmHg (August 11, 2017)	June 14, 2017	This is reviewed today
fvr0614, Missed_Pat2	34 mmHg (+24)	1 of 1 days	34 mmHg (August 11, 2017)	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94

Weekly change ≥ 5 mmHg with Weekly PAD within threshold range

Patient	Weekly PAD Avg (Weekly Change)	Days with PAD Out of Range	Last PAD	Last Review	Latest Notes
0607, Threshold_Pat	23 mmHg (-6)	2 of 3 days	29 mmHg (June 13, 2017)	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
Clinic, Secondary	25 mmHg (+13)	0 of 1 days	25 mmHg (June 9, 2017)	June 14, 2017	This is reviewed by the physician today
0607, Missed_Pat	29 mmHg (-5)	0 of 3 days	34 mmHg (August 10, 2017)	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
Patient, POI ID: 96552211	17 mmHg (-5)	1 of 4 days	10 mmHg (June 12, 2017)	June 14, 2017	This is reviewed on 6/14/2017

Non-Compliant: No readings in last 1 days

Patient	Days Since Last Reading	Last Review	Latest Notes
PriandSec, Disabled_Patient_App	192 days	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
SecondaryIsON, Enrolled_inPri	143 days	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
ONinPrimary, Comanaged_Primary	14 days	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
Noread_fvr961, Missed_Pat3	12 days	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
Andfvr0208, PrimoffSeconon	12 days	Not Set	A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94
Clinic, Secondary	5 days	June 14, 2017	This is reviewed by the physician today
OBR, Default	5 days	June 8, 2017	This is a note
Patient, POI ID: 96552211	2 days	June 14, 2017	This is reviewed on 6/14/2017

Log into Merlin.net for more information.

* PA Sensor Patients of Interest Report subscription preferences can be changed in the user profile.
* This email address is NOT monitored. Please do not reply.

In accordance with the notice below, if you are not the intended recipient of this email, please contact your St. Jude Medical representative or the St. Jude Medical, Inc. by telephone at: +1 877 696 3754 (US) and delete this email from your computer. Thank you.

4. Reviewing Patients

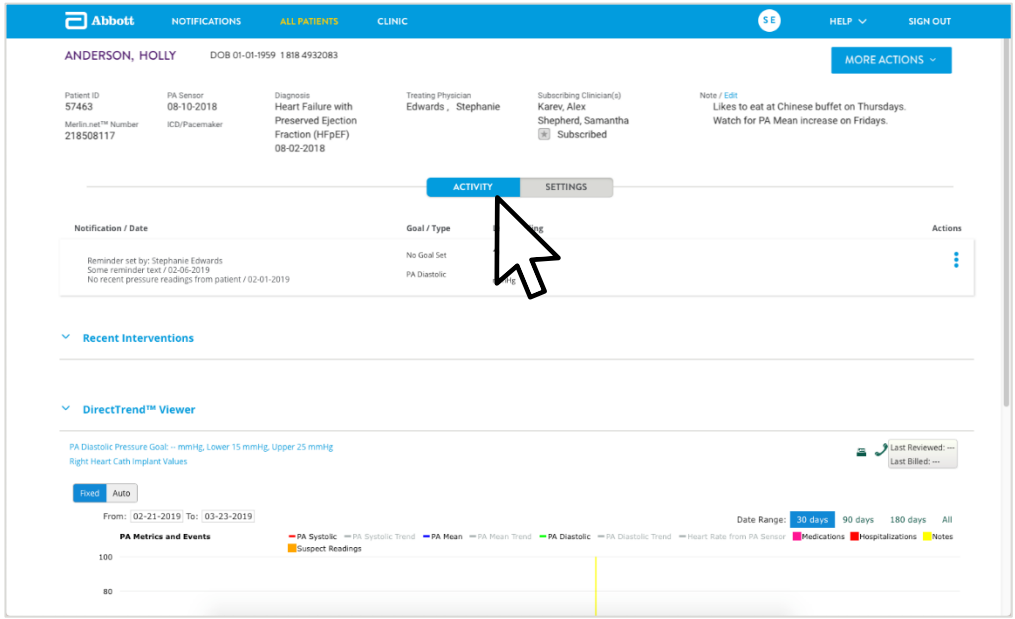
4. REVIEWING PATIENTS

Patient Data Review

Patient Activity

The **ACTIVITY** tab displays recent activity for a patient.

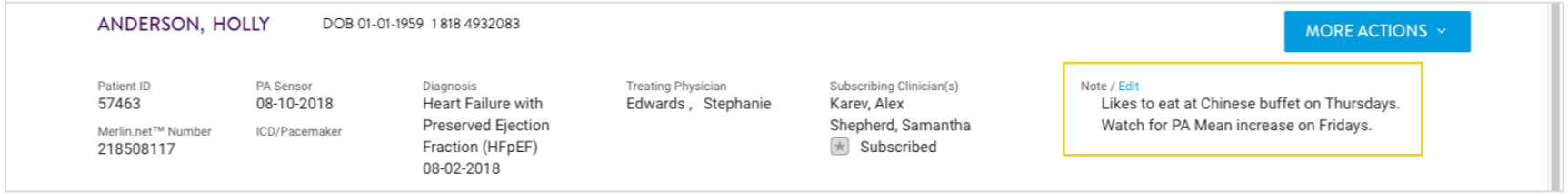
- Patient header
- Current notifications
- Recent interventions
- DirectTrend™ Viewer
- Readings



Patient Data Review

PATIENT HEADER

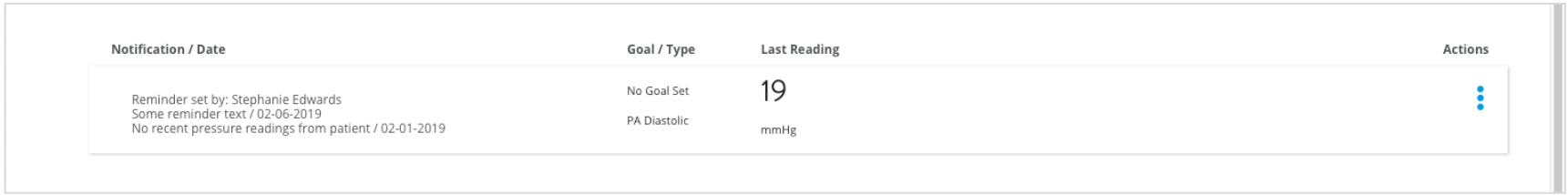
- Includes key information about patient
- Includes editable “post-it” note for extraneous details and/or clinic communication



Patient Data Review

NOTIFICATIONS

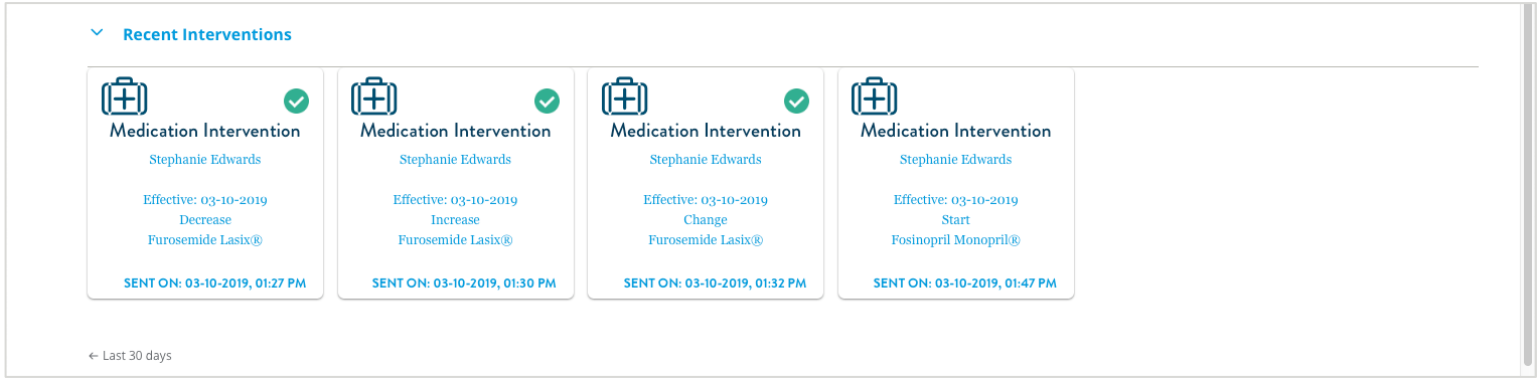
Mirrors current notifications for patient shown on Notifications List



Patient Data Review

RECENT INTERVENTIONS

- Includes medication adjustments and/or messages sent to the patient in the last 30 days
- Displays a green checkmark for interventions acknowledged by the patient on the myCardioMEMS™ app



Patient Data Review

DIRECTTREND™ VIEWER

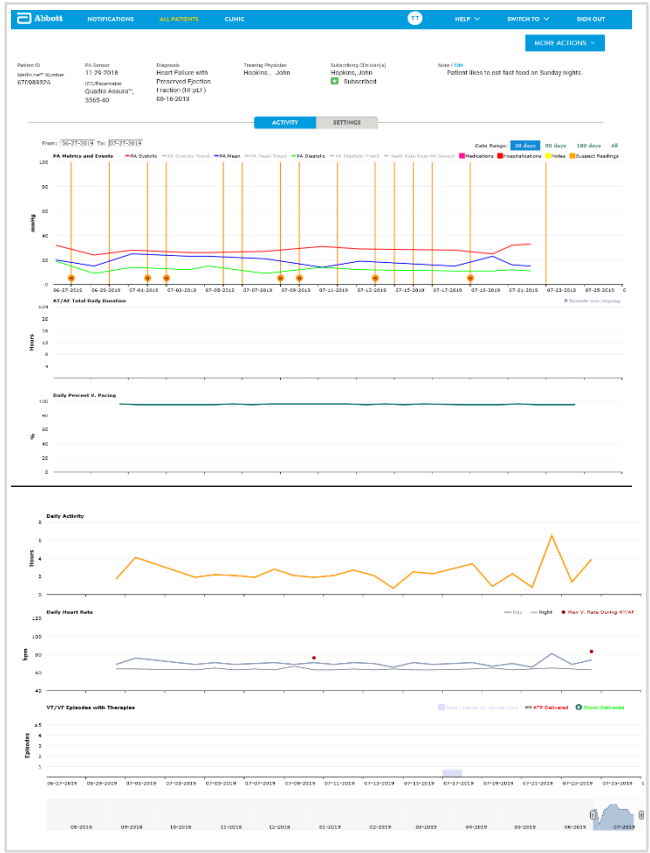
- Displays Mean, Systolic and Diastolic pressures over time
- Can be customized to display various trends over time
- Displays hospitalizations or notes entered in patient's record

Patient Data Review

CARDIAC RHYTHM MANAGEMENT DATA

Displays data from CRM devices, for patients with both a CardioMEMS™ PA Sensor and an Abbott pacemaker, ICD or CRT

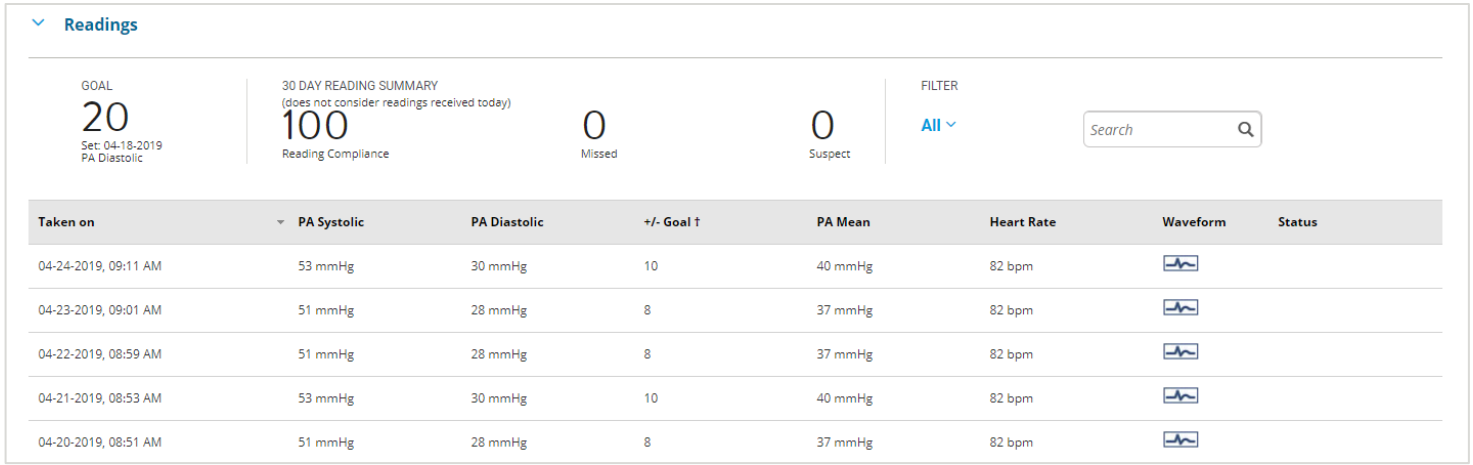
- AT/AF Burden
- Percent Ventricular Pacing
- Patient Activity
- Day and Night Heart Rate
- VT/VF Events with ATP and Shock Therapies



Patient Data Review

READINGS

- Displays readings in list format, with ability to page through previous readings
- Includes summary block with number of days with readings, number of days missed and number of suspect readings



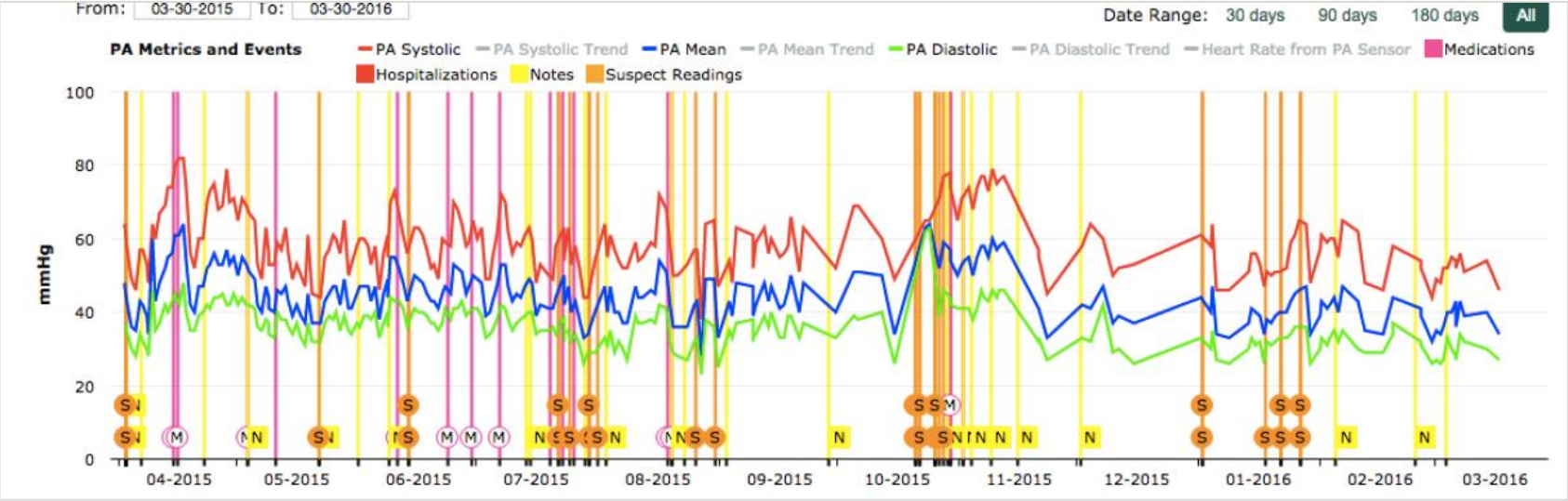
Taken on	PA Systolic	PA Diastolic	+/- Goal †	PA Mean	Heart Rate	Waveform	Status
04-24-2019, 09:11 AM	53 mmHg	30 mmHg	10	40 mmHg	82 bpm		
04-23-2019, 09:01 AM	51 mmHg	28 mmHg	8	37 mmHg	82 bpm		
04-22-2019, 08:59 AM	51 mmHg	28 mmHg	8	37 mmHg	82 bpm		
04-21-2019, 08:53 AM	53 mmHg	30 mmHg	10	40 mmHg	82 bpm		
04-20-2019, 08:51 AM	51 mmHg	28 mmHg	8	37 mmHg	82 bpm		

4. REVIEWING PATIENTS

Suspect Readings

Managing Suspect Readings

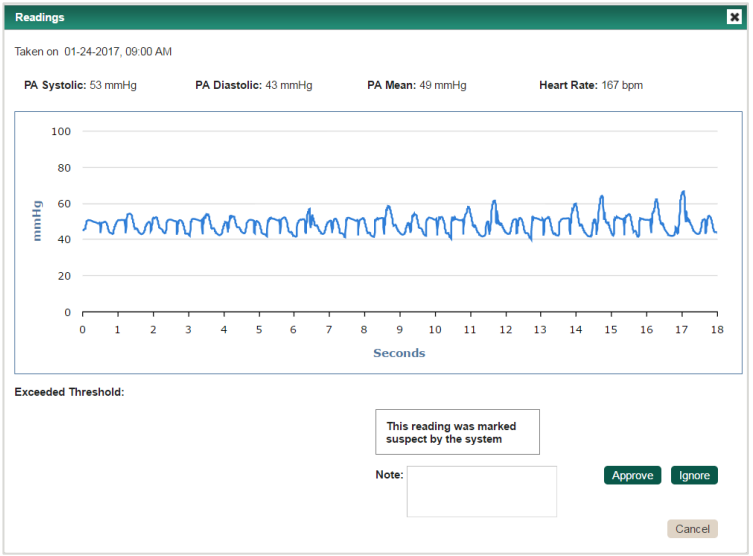
- Marked by the Patient Electronics System
- Indicated with an orange “Suspect” tag on the Readings List



Reviewing Suspect Readings

When reviewing suspect readings, it is important to determine if the waveform is **physiologic**.

- If the waveform is not physiologic, select **IGNORE**.
- If the waveform is, select **APPROVE**.



TIP: Review suspect readings regularly. If suspect readings aren't adjudicated, the Patient Electronics System will re-calibrate itself and become less conservative over time. Non-physiologic readings may "slip through" as acceptable, resulting in skewed trend data.

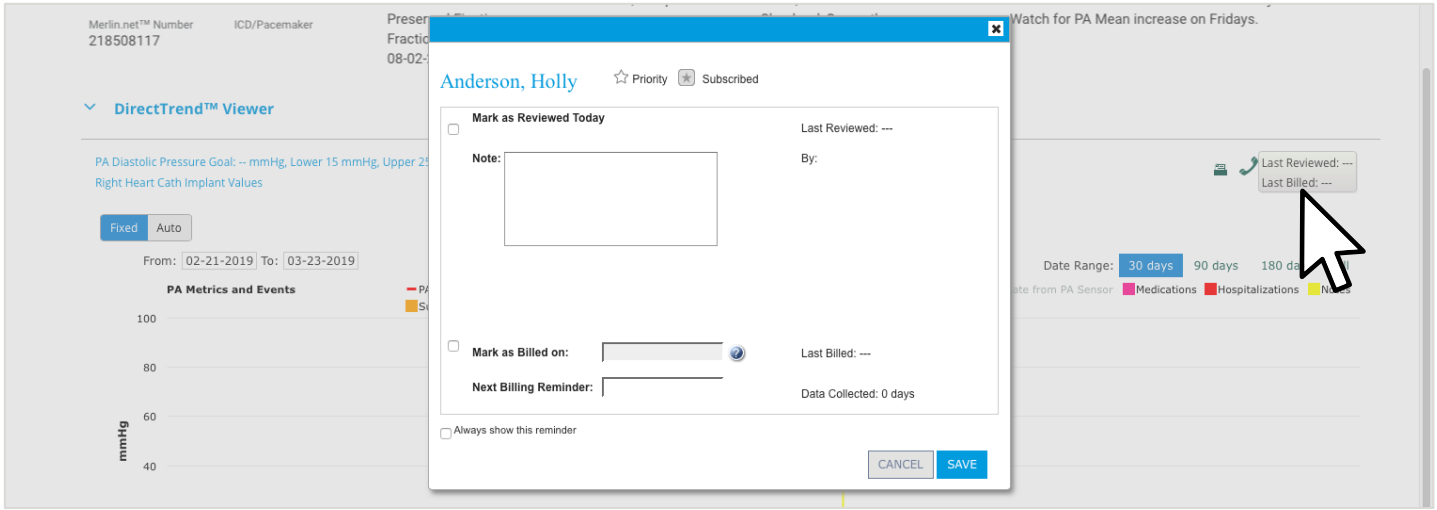
4. REVIEWING PATIENTS

Finishing Your Review

Finishing Your Review

From the **LAST REVIEWED/LAST BILLED BUTTON** above the DirectTrend™ Viewer:

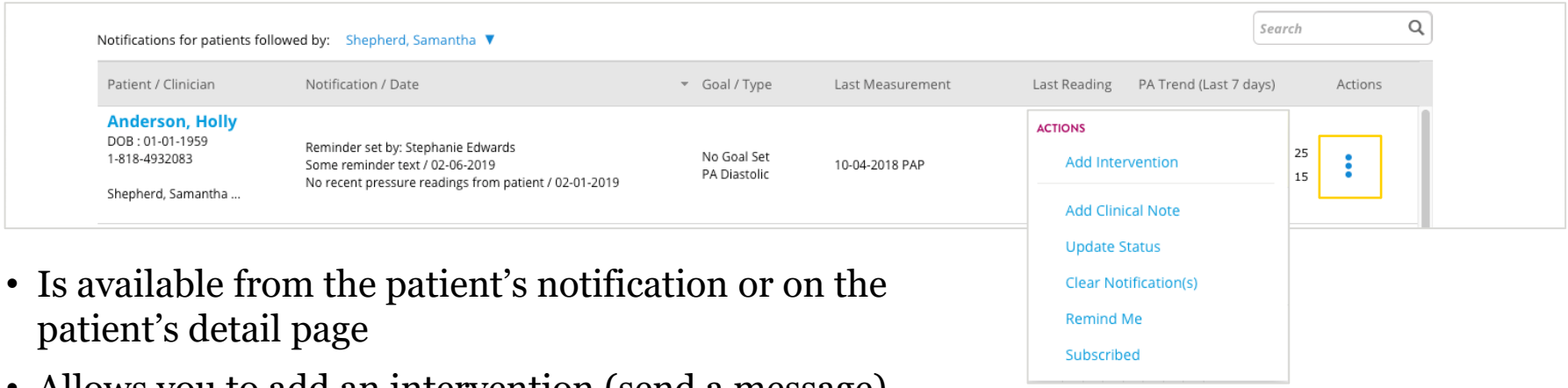
- Check the Mark as Reviewed box and enter a note (optional)
- Enter a Mark as Billed on date (if applicable)



5. Taking Actions

Taking Actions

ACTIONS BUTTON

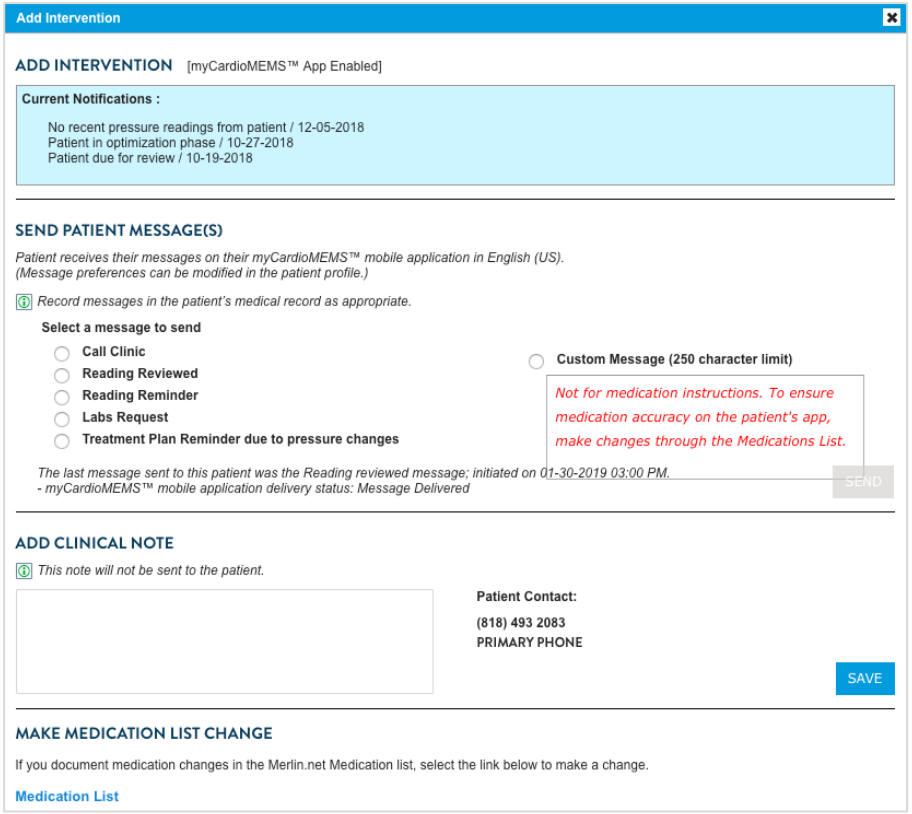


- Is available from the patient's notification or on the patient's detail page
- Allows you to add an intervention (send a message), add a note, update a patient's status, clear the notification, set a reminder or subscribe to a patient

Taking Actions

ADD INTERVENTION

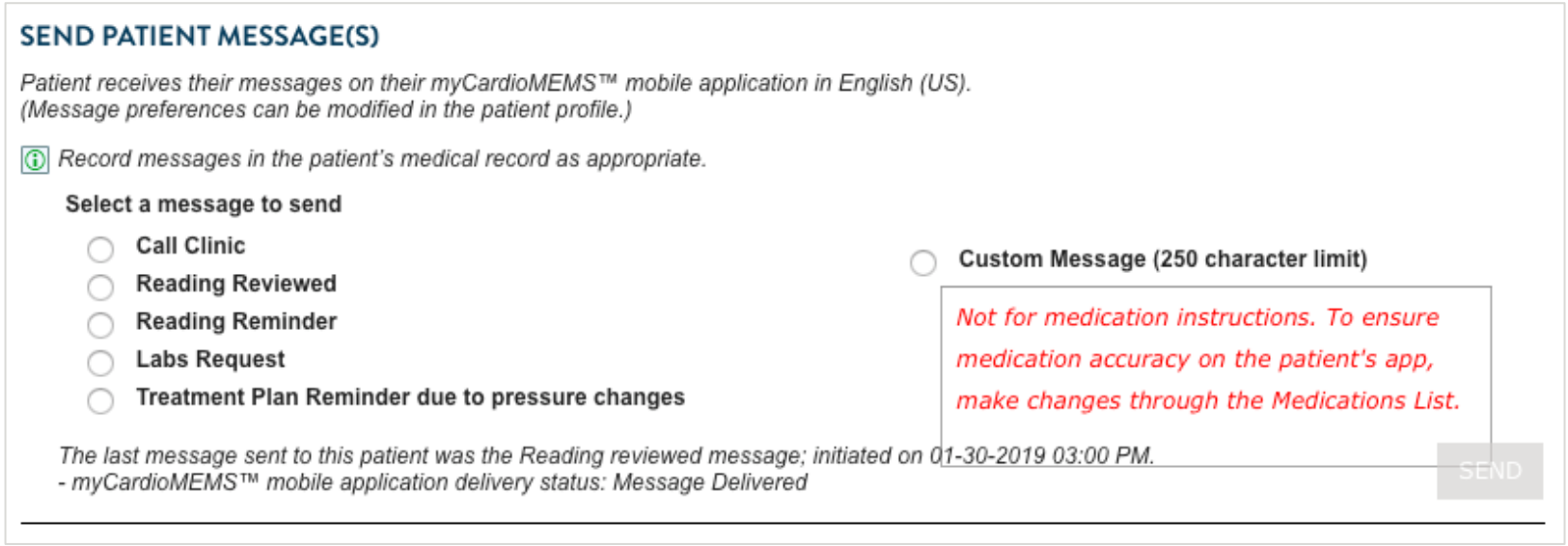
- Shows current notifications
- Provides method to send a message to a patient
- Allows for clinical note
- Links to Medication List for a Medication Intervention



Intervention Types

TYPE	SUB-TYPE	EXAMPLES
Message Intervention A pre-written or custom message delivered to the patient.	**Standard Message** Short, pre-written or pre-recorded messages set at the clinic-level	• Text (SMS) • Voice • myCardioMEMS™ app
	Custom Messages Short, pre-written or pre-recorded messages set at the clinic-level	• myCardioMEMS app
Medication Intervention A change to a medication in a patient's medication list in Merlin.net™ PCN.		• myCardioMEMS app (if medication management is enabled)

Sending a Message Intervention

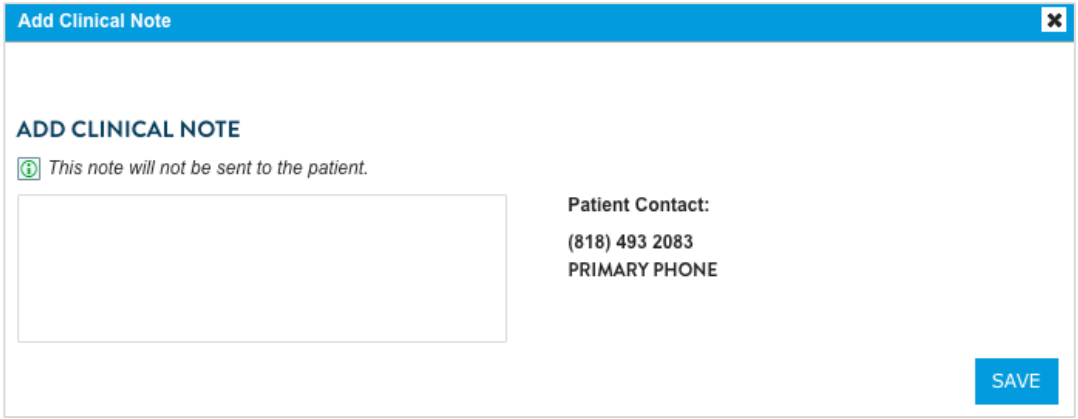


REMINDER: Custom messages should not be used with patients for whom medication list management is enabled in the patient app (a warning message will appear).

Taking Actions

ADD CLINICAL NOTE

Allows you to document notes about patient

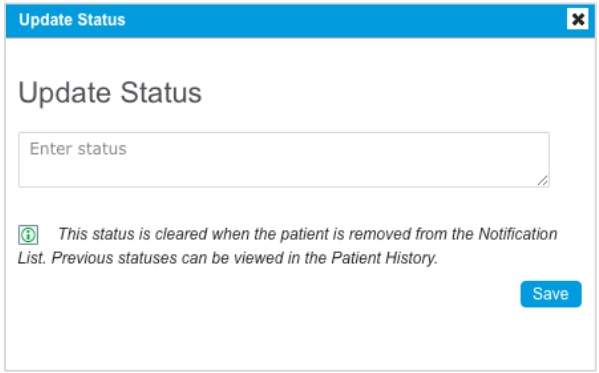


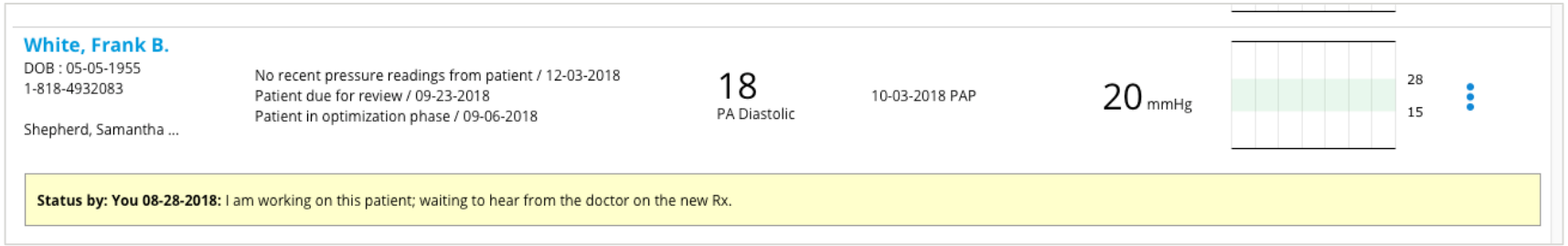
REMINDER: Notes are shown on patient detail page (Setting > Notes) and “Latest Notes” column on All Patients list.

Taking Actions

UPDATE STATUS

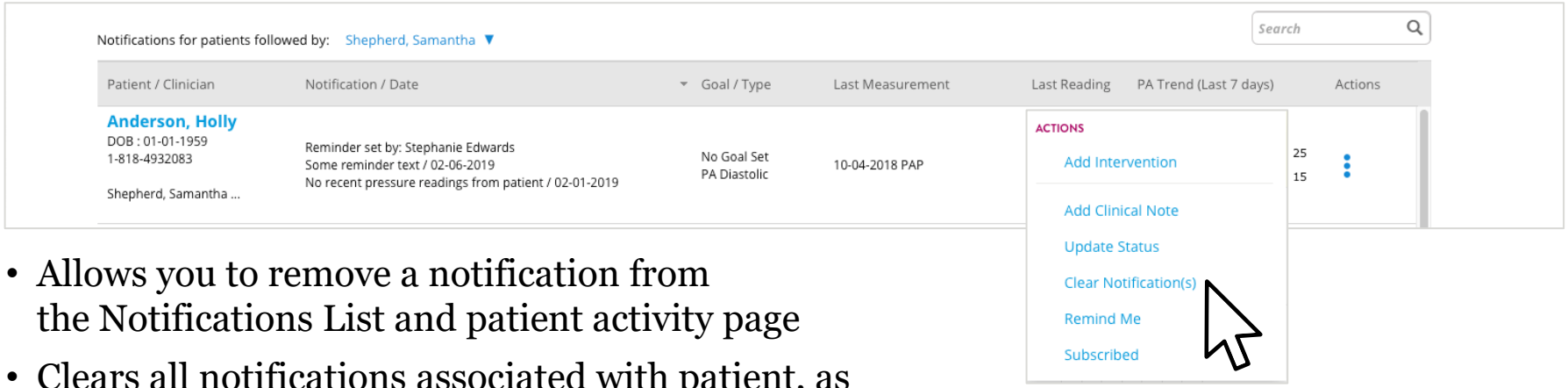
- Allows you to document “work in progress” on patient
- Useful as a reminder of where a you “left off,” or communicating with other clinicians about the status of a patient’s notification





Taking Actions

CLEAR NOTIFICATION(S)



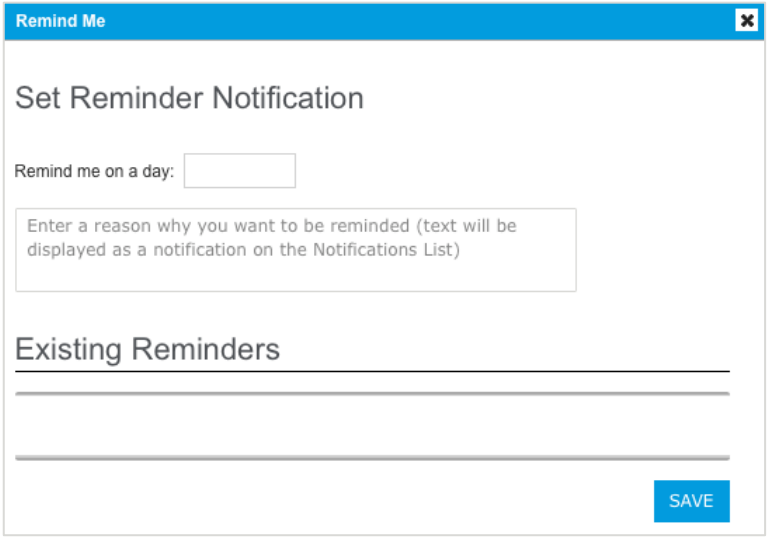
- Allows you to remove a notification from the Notifications List and patient activity page
- Clears all notifications associated with patient, as well as any status notes associated with that patient

REMINDER: Some notifications may clear automatically. For example, an "out of range" notification will clear automatically if the patient returns to the optimal state.

Taking Actions

REMIND ME

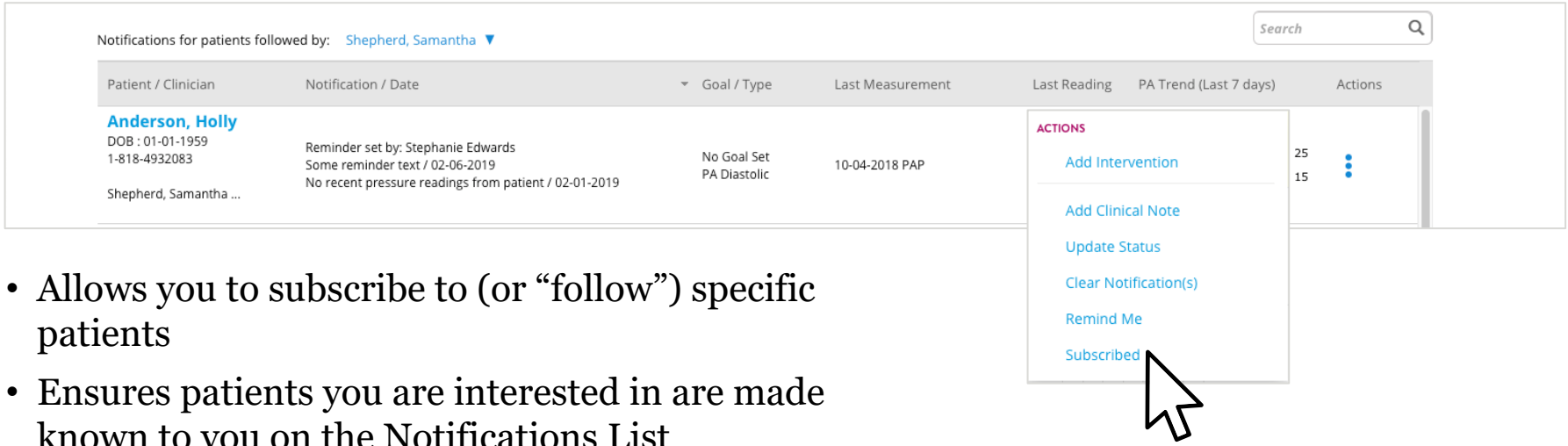
- Allows you to write a reminder about the notification itself, which will be displayed when the reminder comes due
- Useful for checking in on a patient after a medication change



TIP: Make sure your reminder is clear enough to understand next steps, as the reminder will not display previous notifications associated with the patient.

Taking Actions

SUBSCRIBE



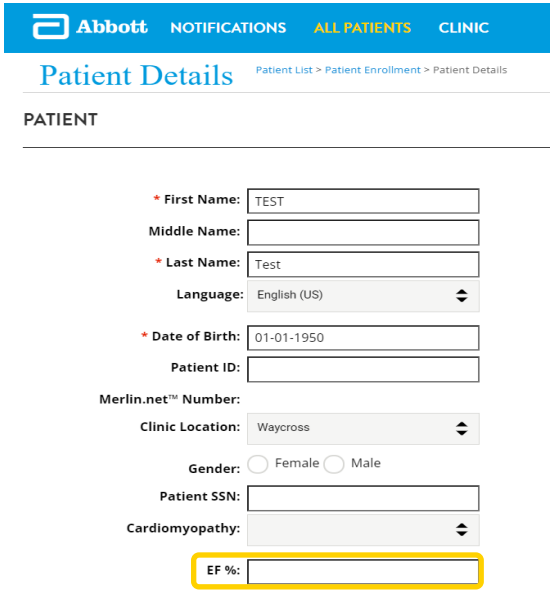
- Allows you to subscribe to (or “follow”) specific patients
- Ensures patients you are interested in are made known to you on the Notifications List

6. Other Patient Settings

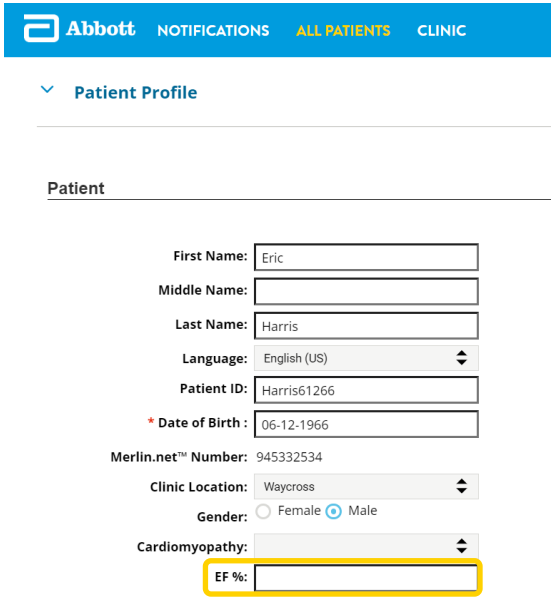
Ejection Fraction (EF)

EF CAN BE ENTERED FOR EACH PATIENT DURING *OR* AFTER ENROLLMENT IN MERLIN.NET™ PCN

- During enrollment > **PATIENT DETAILS**



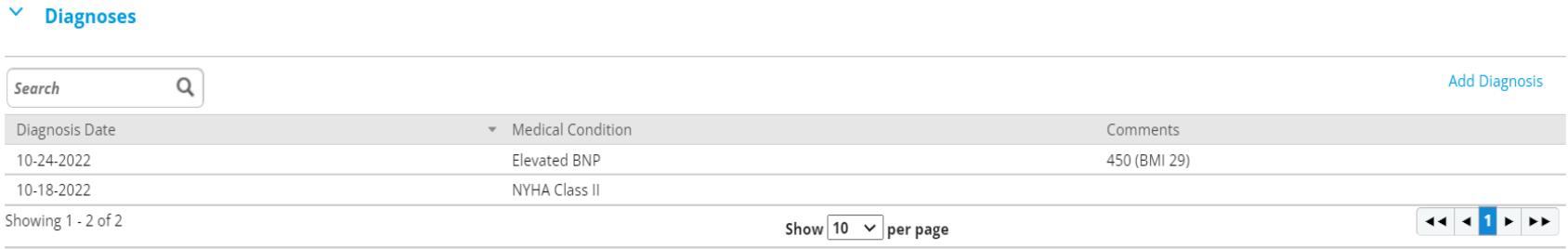
- After enrollment > **PATIENT PROFILE**



Other Patient Settings

DIAGNOSES

- Allows you to enter one or more diagnoses for a patient
- Is displayed in patient header
- NYHA classification and natriuretic peptide (BNP or NT-proBNP) indications for sensor implant are documented here

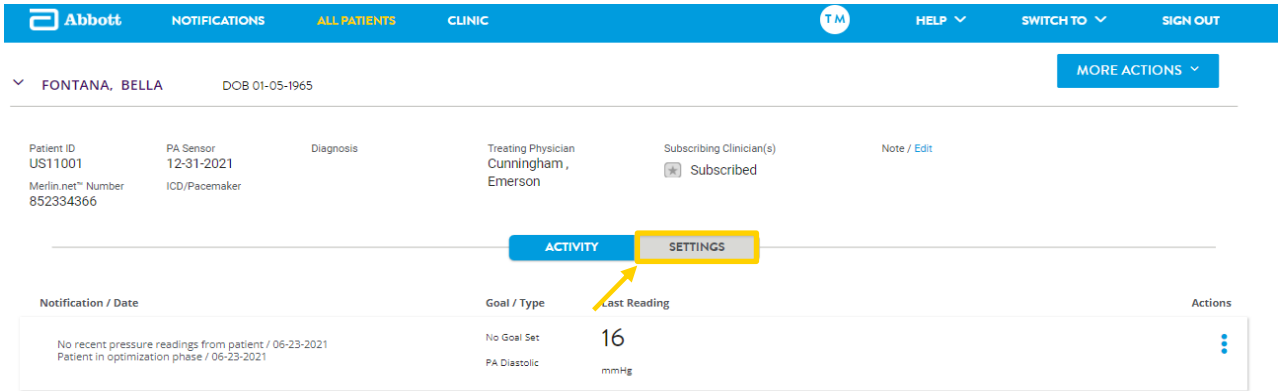


NYHA Class and BNP/NT-proBNP Data Entry

DIAGNOSES

- Select a patient from the **NOTIFICATIONS** or **ALL PATIENTS** tab by clicking on the patient's name

- Below the patient header, choose **SETTINGS**

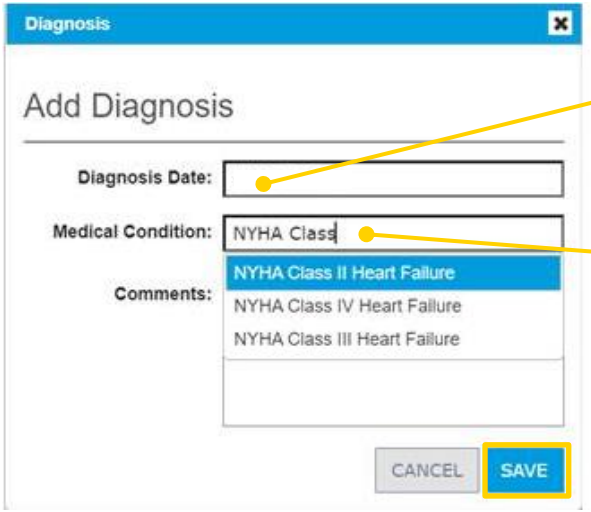


NYHA Class and BNP/NT-proBNP Data Entry

Once in **SETTINGS**, navigate to the **DIAGNOSES** subsection then choose **ADD DIAGNOSIS** to add NYHA and BNP/NT-proBNP data

NYHA Class Data Entry

- After choosing **ADD DIAGNOSIS** option, a window will open with additional fields
  - The information is organized into table columns
    - Diagnosis Date
    - Medical Condition
    - Comments



DIAGNOSIS DATE

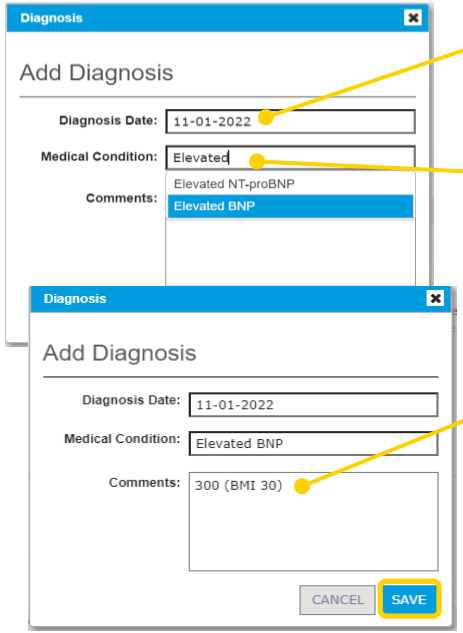
- Date of NYHA classification assessment (prior to or the day of CardioMEMS™ PA Sensor implant)

MEDICAL CONDITION

- Start typing “NYHA Class” and a list of options will appear
- Select the NYHA class used for CardioMEMS implant qualification then click **SAVE**

BNP/NT-proBNP Data Entry

- If a patient qualifies for CardioMEMS™ HF System based on elevated natriuretic peptides, follow the same steps as NYHA Class documentation
  - **SETTINGS > DIAGNOSES > ADD DIAGNOSIS**



DIAGNOSIS DATE

- Date of BNP/NT-proBNP lab draw (prior to or the day of CardioMEMS™ PA Sensor implant)

MEDICAL CONDITION

- Start typing “Elevated” and a list of options will appear
- Select the appropriate natriuretic peptide lab used for CardioMEMS implant qualification

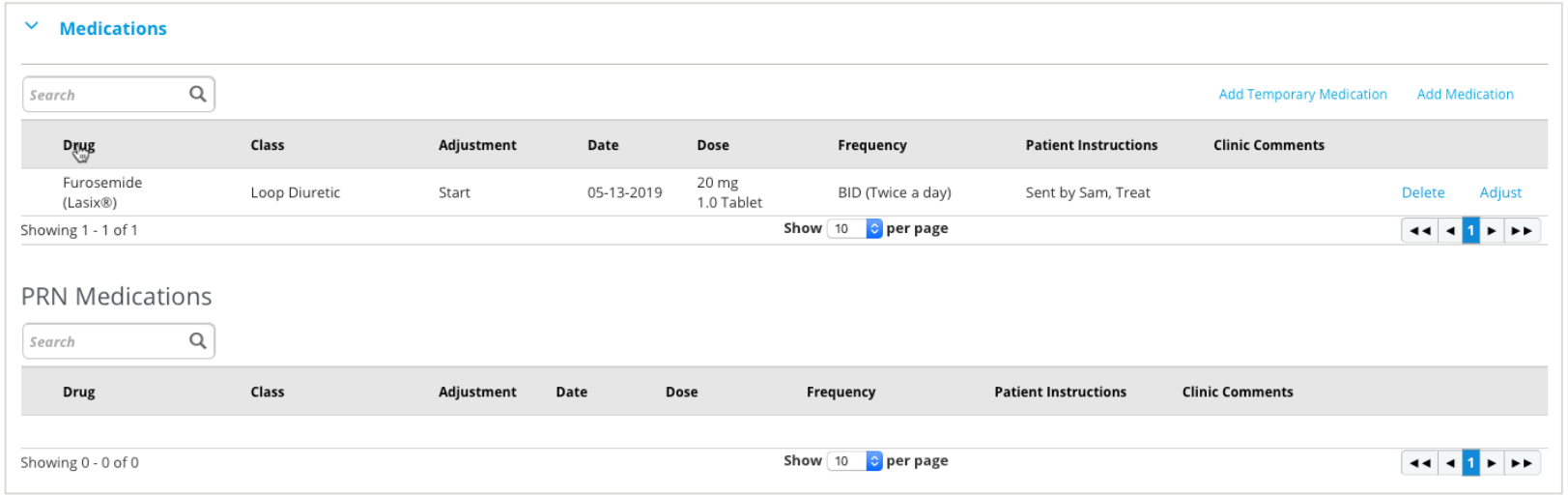
COMMENTS

- Enter the lab value for BNP/NT-proBNP in pg/ml followed by the BMI in kg/m2 in parentheses
- Round all numbers to the nearest integer and do not include decimal points
- Once completed click **SAVE**

Other Patient Settings

MEDICATIONS

Not required, but of benefit if patient is enrolled to use the myCardioMEMS™ app and medication management is “on”



Other Patient Settings

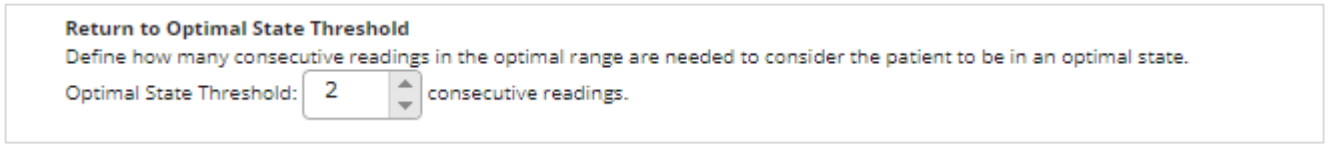
GOALS AND THRESHOLDS (OTHER METRICS)

Other Metrics			Lower Bound	Upper Bound		
PA Mean Pressure	☐		10	25	*Patient Threshold*	Remove Override
PA Diastolic Trend	☐		8	30	*Clinic Threshold*	
PA Mean Trend	☐					
PA Systolic Pressure	☐		15	35	*Patient Threshold*	Remove Override
PA Systolic Trend	☐					
Heart Rate	☐		50	90	*Patient Threshold*	Remove Override
Pulse Pressure	☐					

Other Patient Settings

RETURN TO OPTIMAL STATE THRESHOLD

A patient is considered in the “optimal state” when they have had at least two consecutive readings in the optimal range (or other number set by the clinic)

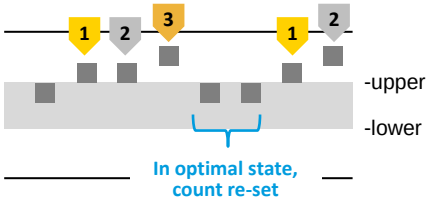


TIP: For patients who tend to “see-saw” in and out of their optimal range, increase the “return to optimal state” threshold to avoid triggering unnecessary notifications.

How Do We Count Out-of-Range Readings?

n = out of range reading count (colored flag indicates notification triggered)

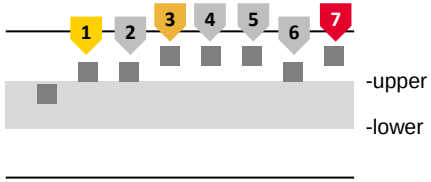
PATIENT RETURNS TO OPTIMAL STATE (TWO CONSECUTIVE READINGS IN OPTIMAL RANGE). READING COUNT IS RE-SET.



Notifications received:

- 1 1 reading above optimal range
- 3 3 readings above optimal range
- 1 1 reading above optimal range

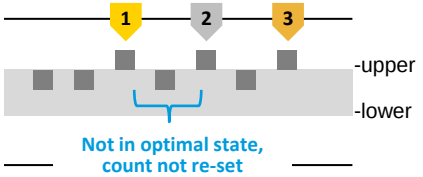
PATIENT DOES NOT RETURN TO OPTIMAL STATE.



Notifications received:

- 1 1 reading above optimal range
- 3 3 readings above optimal range
- 7 7 readings above optimal range

PATIENT SEE-SAWS IN AND OUT OF OPTIMAL RANGE, BUT DOES NOT RETURN TO OPTIMAL STATE. COUNT NOT RE-SET.



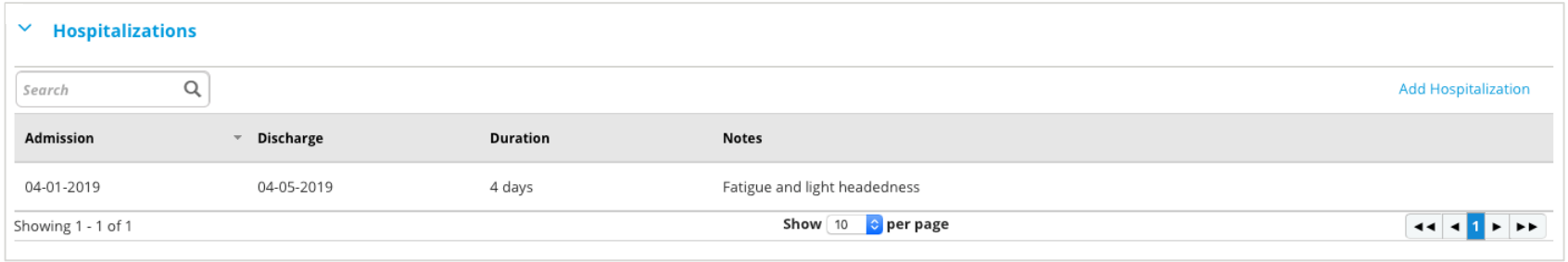
Notifications received:

- 1 1 reading above optimal range
- 3 3 readings above optimal range

Other Patient Settings

HOSPITALIZATIONS

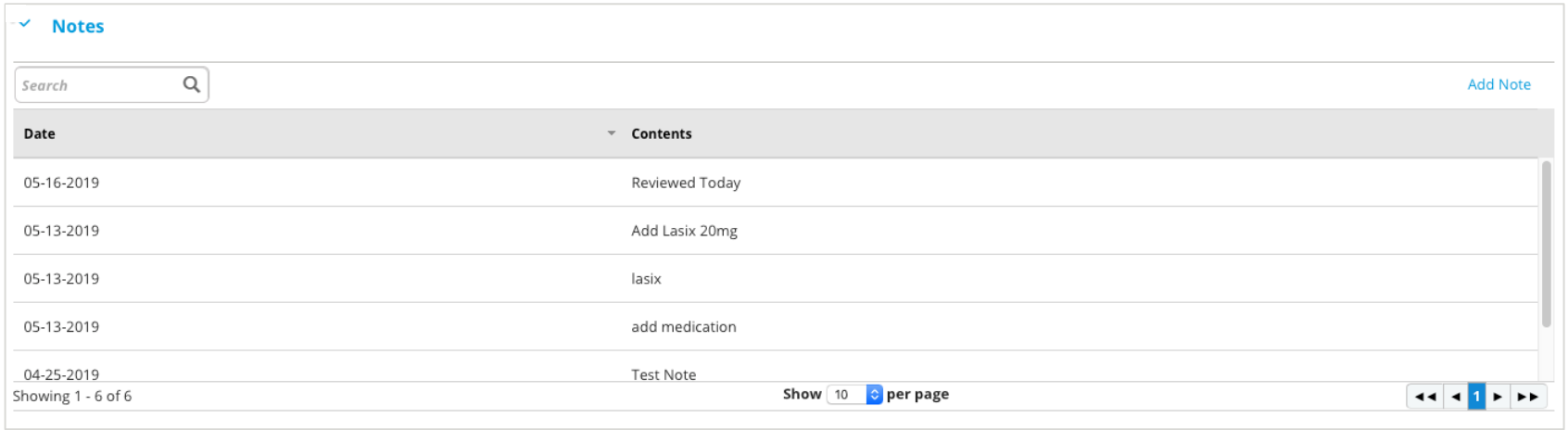
Hospitalizations will appear in a pink shaded band on the DirectTrend™ Viewer



Other Patient Settings

NOTES

Displays a running list of all notes entered here and through other Add Clinical Note actions throughout the site

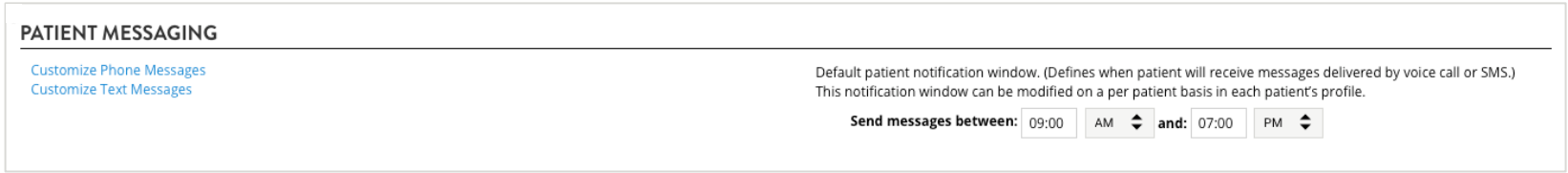


7. Clinic-Wide Settings

Clinic-Wide Settings

PATIENT MESSAGING

Allows you to customize (at a clinic-level) phone and text messages sent to patients

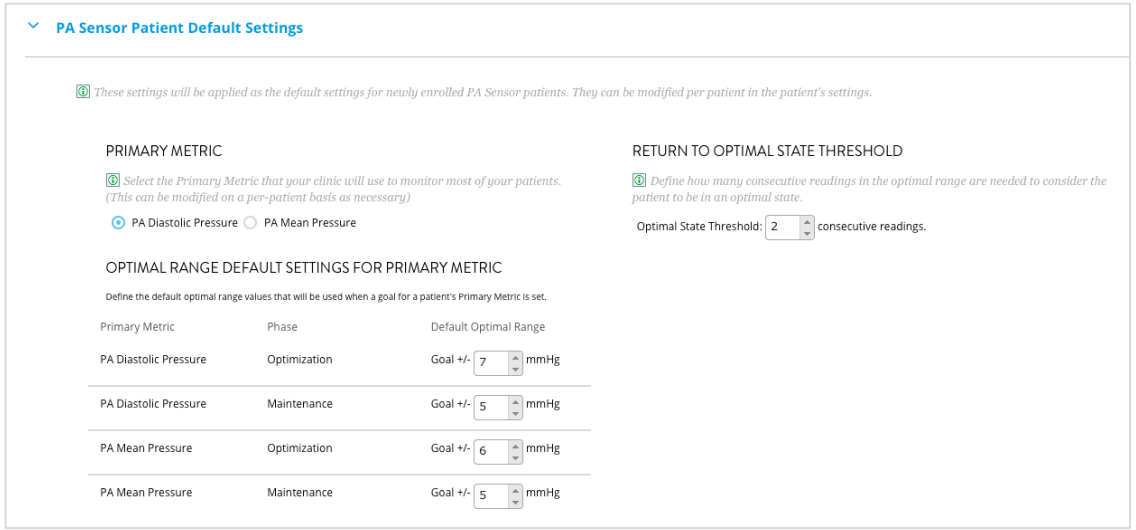


TIP: Record messages in the voice of the clinician or physician who most commonly contacts patients.

Clinic-Wide Settings

PA SENSOR PATIENT DEFAULT SETTINGS

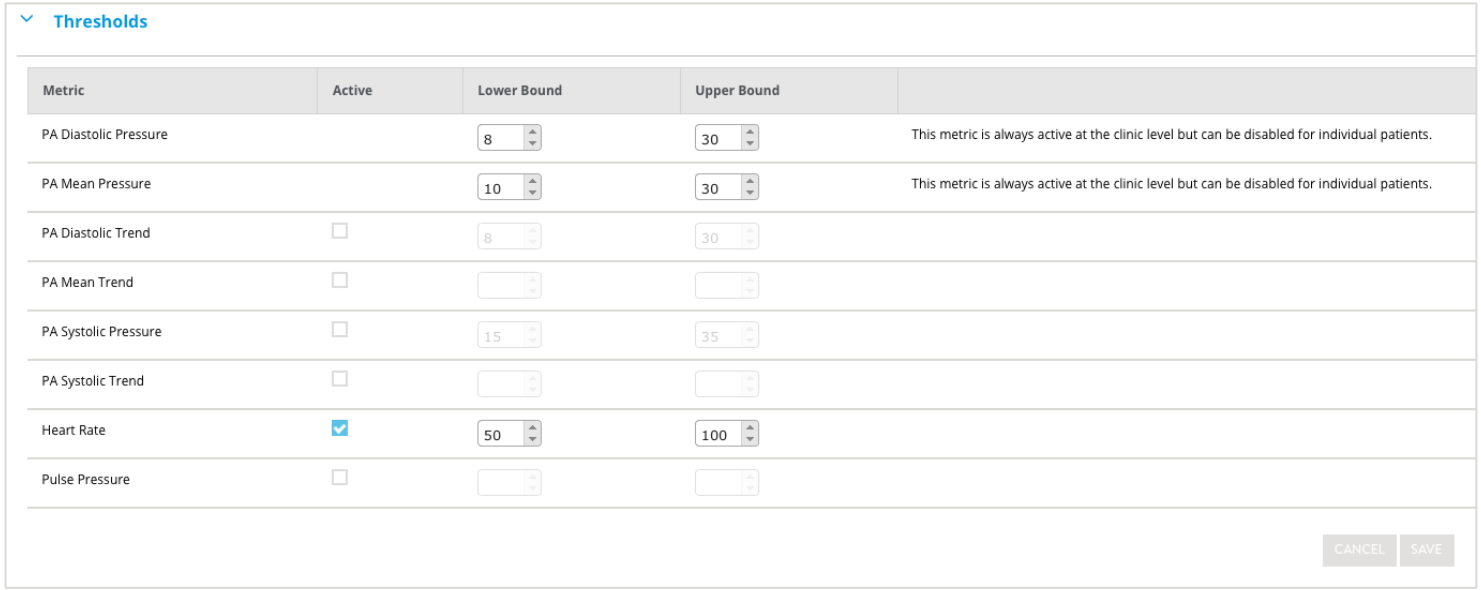
Allows you to set (at a clinic-level) defaults for the primary metric, optimal range, and return to optimal state threshold



Clinic-Wide Settings

THRESHOLDS

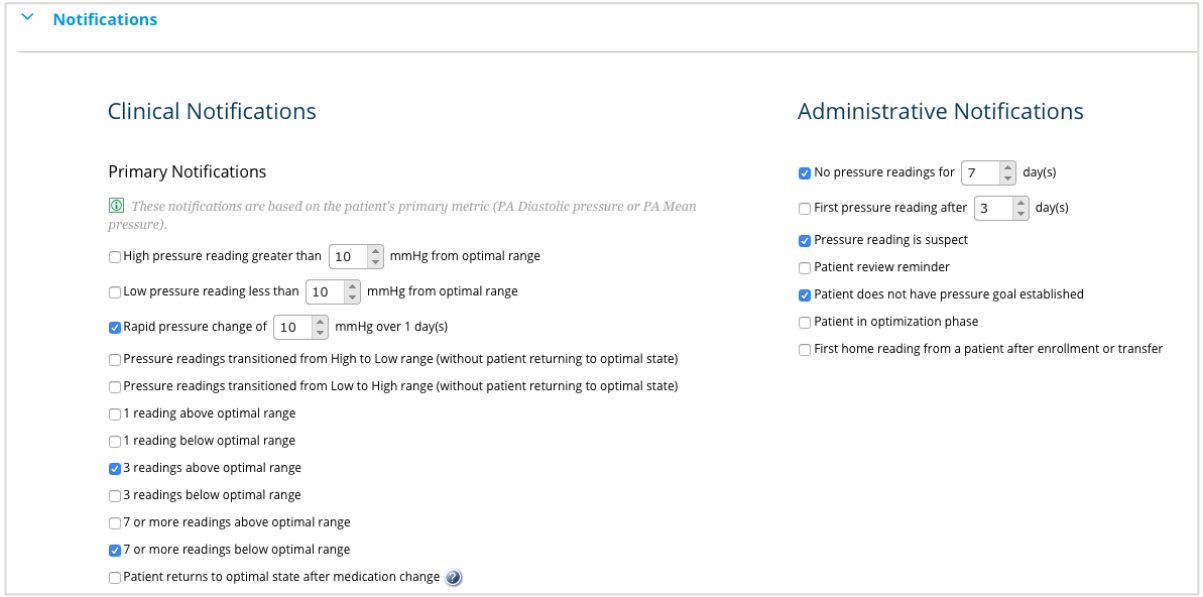
Allows you to set (at a clinic-level) defaults for other clinical thresholds, such as heart rate



Clinic-Wide Settings

NOTIFICATIONS

Allows you to set default notifications for patients



8. User Settings

User Settings

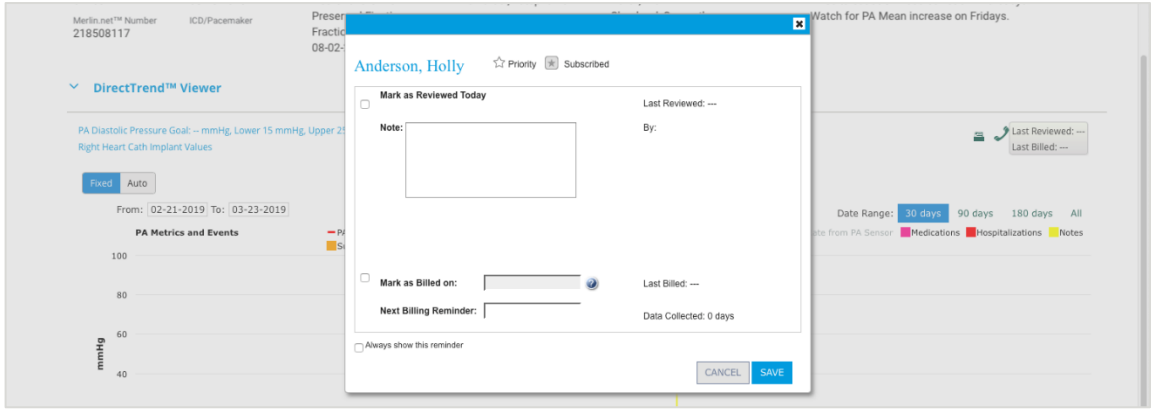
- Is accessed by clicking on user's initials in navigation bar
- Allows user to:
  - Change password
  - Update contact information
  - Set preferences for displays throughout the site
  - Subscribe to reports
  - Retrieve a temporary HES/HS password

9. Administrative Tasks

Billing Reminders

From the **LAST REVIEWED/LAST BILLED BUTTON** above the DirectTrend™ Viewer:

- Enter a Mark as Billed on date (if applicable)
- Enter Billing Reminder date

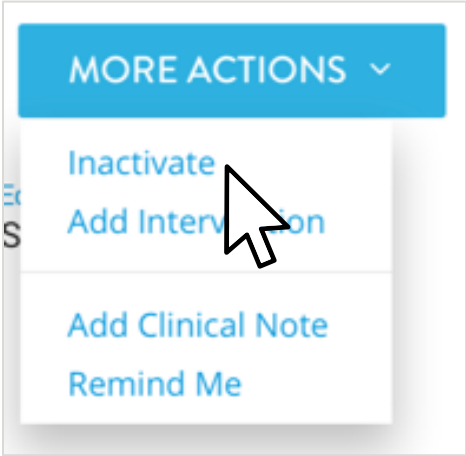


TIP: Use the Ready for Billing feature on the All Patients list to see a list of patients ready to be billed.

Inactivating a Patient

From the **PATIENT PROFILE > MORE ACTIONS** button:

- Click on Inactivate



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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‡ 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.

™ Indicates a trademark of the Abbott group of companies.
‡ Indicates a third party trademark, which is property of its respective owner.
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