

AN INTRODUCTION TO Merlin.netTM Patient Care Network (PCN)

Heart Failure Management Portal

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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



Getting Started with Merlin.net[™] PCN

1. Getting started with Merlin.Net^m PCN Merlin.netTM PCN Overview

Heart Failure Portal Access

Interview (%) https://merlin.net/

FOR HF-ONLY CLINICS:

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



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

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All Patients

Shows all of the patients in your clinic:

- Active
- Inactive
- Scheduled
- Implanted

All (3	5) ☆ Priority (0) 🕞	No recent PA pressure	eadings (3	(35) R	eady for Billing (0)				2 500	oll a Patient More 4	ictions ¥
				-	DA Taxa d (Last 7			and condicate the second	<i>e</i> ch	on a radent more r	coolis v
\$	Patient Name	Last Measurement		olic	PA Frend (Last 7 days)	0	 PAP Implant Date 	Medications	Latest Notes	Subscribed	
☆	Anderson, Hailey	10-03-2018 PAP Θ	:	20 mmHg		0	08-21-2018	Registered	10-03-2018: A new calibration occurred result	*	•
☆	White, Frazier	10-05-2018 PAP ⊝		19 mmHg		0	08-21-2018	Pending (12 days)	10-04-2018: A new calibration occurred result	*	0
☆	Anderson, Henrietta	10-03-2018 PAP Θ		20 mmHg	~~~~	0	08-21-2018	Registered	10-03-2018: A new calibration occurred result	*	0
☆	White, Fabio	10-05-2018 PAP ⊝		19 mmHg		0	08-21-2018	Registered	10-04-2018: A new calibration occurred result	*	0
☆	Anderson, Henry	10-03-2018 PAP Θ		20 mmHg	~~~~	0	08-21-2018	Registered	10-03-2018: A new calibration occurred result	*	0
☆	White, Fergus	10-05-2018 PAP		19 mmHg		0	08-21-2018	Registered	10-04-2018: A new calibration occurred result	*	0
ŵ	Anderson, Harrison	10-03-2018 PAP 😑	:	20 mmHg		0	08-21-2018	Registered	02-25-2019: " or % or * or +	*	0
¢	White, Frederic	10-05-2018 PAP Θ		19 mmHg		0	08-21-2018	Registered	10-04-2018: A new calibration occurred result	*	0
☆	Anderson, Hubert	10-03-2018 PAP	1	20 mmHg		0	08-21-2018	Confirmed 10-03-2018	10-03-2018: A new calibration occurred result	*	0
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						-			10-03-2018: A new	_	
owin	g 1 - 25 of 35					Show	26 🔁 per page			44 4 1 2	44 4

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

> Cli	nic Profile		SETTINGS	-45	HISTORT	DROGS & MEDICA			
> PA	Sensor Pat	tient Default Setti	ngs						
> Th	resholds								
> No	tifications								
		Website Terms of Use	Clinic Terms and Conditio	ns Privacy Policy Cor	ntact Us www.cardiovasc	ular.abbott	Merlin.r	iet™ © 2019 Abbott	

Utility Navigation



- Links to Help resources
- Allows you to switch between Merlin.net[™] PCN portals

1. GETTING STARTED WITH MERLIN.NETTM PCN Setting Up Your Clinic

Settings

Abbott	NOTIFICATIONS	ALL PATIENTS	CLINIC			BD	HELP 🗸	SIGN OUT
			MERI	IN 10.0 DEMO				
		SETTINGS	USERS & LOCATIONS	HISTORY	DRUGS & MEDICAL CONDITIONS			

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

Abbott	NOTIFICATIONS	ALL PATIENTS	CLINIC			BD	HELP 🗸	SIGN OUT
			MERLI	N 10.0 DEMO				
		SETTINGS	USERS & LOCATIONS	HISTORY	DRUGS & MEDICAL CONDITIONS			

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



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Settings

Tips for **USER TYPES**:

* User Type:	Physician	,÷
	Allied Professional	×.
	Assistant	
	Physician	

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

Tips for **USER ROLES**:

* User Roles: Administrator Implanting Treating Consulting
Physician User Roles: Implanting Physician
Treating Physician

- 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

 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.netTM 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:

- 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.
- 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

Abbott N		ALL PATIENTS	CLINIC
✓ Patient Profile			
Patient			
* First Nam	e: John		
Middle Nam	e:		
* Last Nam	e: Smith		
Languag	e: English (US)	\$	
Patient I	D:		
* Date of Birtl	1:		
Merlin.net™ Numbe	r: 380051987		
Clinic Locatio	n: Specialty Group	\$	
Gende	er: 🔿 Female 💿 Male		
Cardiomyopath	y:	\$	
EF	%:		
Patient Messaging			
DirectCall™ metho	d: Text Message Primary/M	1obile p 🜲	
	Message and data rates	s may apply	

Entering Right Heart Cath Values

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

PA Sensor			Right Hear	t Cath Implant Valu	es Implant Rep	port				
Treating Clinic:	Merlin 10.0 Demo	Sensor Serial #:	A22EKN	$\mathbf{\mathbf{N}}$						
Clinic Phone:	1 555 555 5555	* Baseline Code:	2A85B-E568L	4						
* Treating physician:	Adams, Francis	\$ Sensor Location:		Ū,	\$	Right Heart Cath	Implant Values			×
Implanter:		Calibration Code:	CN3JU-J3GWN							
Implant Date:	04-06-2019	Activation Code:	2652			Right Hea	rt Cath Impl	ant Values		
Consulting Users:	RConsult, Dennis	Electronics Serial #:				Please enter value	Please enter values obtained during PA Sensor implant procedure.			
						RA Mean:	mmHg	PA Mean:		mmHg
						RV Systolic:	mmHg	PA Systolic:		mmHg
				CANC	CEL SAVE	RV Diastolic:	mmHg	PA Diastolic:		mmHg
*Required field						PCWP:	mmHg	Cardiac Output:		L/min
									CANCEL	SAVE

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

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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 <u>Notifications List</u> 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.

Abbott N	OTHERATIONS ALL PATIENTS CLINIC				CH	HELP		SIGN OU
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iotifications for patients follo	wed by: Me Y					Search		Q
Patient / Clinician	Notification / Date	 Goal / Type 	Last Measurement	Last Reading	PA Trend (Last 7 da	910	Actions	
Jenkins, Patrick DOB:01-01-1953 No subscribing clivicians	Pacent has multiple notifications. To triage and clear, go to the Pacent Page / 05-05-2019	20 PA Diastolic	05-06-2018 RAP	28mm/g	•••••	24 16	:	î
King, Anthony DOB: 01-01-1953 1-007-555555 Na subsorting cliniciens	3 readings above optimal range / 05:06:2019 Pressure is 10 mmHg above optimal ranger / 05:06:2019 Rapid pressure (mange of 10 mmHg above 16;06:01) Mass Pressure out of threadout / 04:16:2019 Synthic Pressure out of threadout / 04:18:2019 Protein on optimization phase / 04:20:2019 Print reading after 3 or more days / 04:18:2019 Print home reading since excellence or transfer. Beview genature-translatio / 04:08:2019	21 PA Duestalic	05-06-2019 PAP	30	••••	а 2	I	
Campbell, Sean 208: 01-01-5953 -555-555555 is subscribing circulans	Pressure is 10 mm/kg above optimal range / 05-05-2019 Rapid pressure change of 10 mm/kg over 1 day(b) / 05-05-2019 Maes Pressure out of threshold / 05-01-2019 Systolic Pressure out of threshold / 05-01-2019 Patient due for review / 05-06-2019	23 PA Daesalic	05-06-2019 PAP	28iq	••••	* 27 19	:	Į.
Status by Admin, Francis I	14-38-2019: patient was volume up a week ago, gave sne dose of last	9						
Richardson, Samuel DOB: 01-01-1953 No subscribing clinicians	2 or more readings above optimal range / 05-04-2019 Rapd pressure change of 10 mining over 1 day(2) (34-29-2019 Mana Pressure out of threshold / 64-29-2019 Systemic day for proder / 55-06-2019 Remote size trys (Preside Admin Remote size trys (Preside Admin Remote size trys (Preside Admin Remote size trys) (Preside Admin Remote s	23 PA Duestolic	05-06-2019 AMP	20	•••••	27 19	E	

3. MANAGING BY EXCEPTION Notification types

Notification Types

ТҮРЕ	SUB-TYPE	EXAMPLES	
Clinical Notifications based on PA pressure	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</n> 	
rate)	Other Notifications Related to the non-primary metric thresholds	Heart rate out of thresholdSystolic pressure out of threshold	
Administrative Notifications associated with administrative-level considerations		 No pressure readings for <n> days</n> 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</n>	OFF
Low pressure reading less than <n> from optimal range</n>	OFF
Rapid pressure change of <n> over 1 day</n>	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.)

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Administrative Notifications

NOTIFICATION	DEFAULT
No pressure readings for <n> days</n>	ON, N = 3
First pressure reading after <n> days</n>	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

Notifications for patients followed by:	Shepherd, Samantha 🔻				Search	Q
Patient / Clinician Noti	Me Karev, Alex	pe	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly 1 rea DOB : 01-01-1959 Hear 1-818-4932083 Shepherd, Samantha	Shepherd, Samantha Nate out of micshold (02 01 2013) PA Dia:	stolic	02-01-2019 PAP	19 _{mmHg}	25 15	:

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)

Notifications for patients fo	llowed by:	Shepherd, Samantha 🔻				Search	Q
Patient / Clinician	Notit	Me Karey Alex	pe	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly DOB : 01-01-1959 1-818-4932083 Shepherd, Samantha	1 rea Hear	Shepherd, Samantha Rate out of mireshold / 02-01-2013 PA Dia	stolic	02-01-2019 PAP	19 _{mmHg}	25 15	:
NOTIFICATION/DATE COLUMN

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

Notifications for patients fol	lowed by: Shepherd, Samantha 🔻				Search	Q
Patient / Clinician	Notification / Date	👻 Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly DOB: 01-01-1959 1-818-4932083	1 reading above optimal range / 02-01-2019 Heart Rate out of threshold / 02-01-2019	18	02-01-2019 PAP	19,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	25	.
Shepherd, Samantha		PA Diastolic		∎ ⊃ mmHg	15	•

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.

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)

Notifications for patients follo	wed by: Shepherd, Samantha 🔻				Search	Q
Patient / Clinician	Notification / Date	👻 Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly DOB:01-01-1959 1-818-4932083	1 reading above optimal range / 02-01-2019 Heart Rate out of threshold / 02-01-2019	18 PA Diastolic	02-01-2019 PAP	19 mmHg	25	.
Shepherd, Samantha		PAblastolic			15	

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

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

Notifications for patients follow	wed by: Shepherd, Samantha 🔻				Search	٩
Patient / Clinician	Notification / Date	👻 Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly DOB:01-01-1959 1-818-4932083	1 reading above optimal range / 02-01-2019 Heart Rate out of threshold / 02-01-2019	18 PA Discretific	02-01-2019 PAP	19.mmHg	25	.
Shepherd, Samantha		PA Diastolic			15	

PA TREND COLUMN

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

Notifications for patients follow	ed by: Shepherd, Samantha 🔻				Search	Q
Patient / Clinician	Notification / Date	👻 Goal / Type	Last Measurement	Last Reading	PA Trend (Last 7 days)	Actions
Anderson, Holly DOB: 01-01-1959 1-818-4932083	1 reading above optimal range / 02-01-2019 Heart Rate out of threshold / 02-01-2019	18 PA Diastalia	02-01-2019 PAP	19 mmHg	25	
Shepherd, Samantha		PA Diastolic			15	

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

✓ Not	ifications		
	Clinical Notifications	Administrative Notificati	ons
	Primary Notifications	No pressure readings for 3 alog	s)
	 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 test than 10 mmHg from optimal range Rapid pressure change of 10 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 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 2 	 First pressure reading after 3 2 de Pressure reading is suspect Patient review reminder Patient does not have pressure goal estat Patient in optimization phase 	ey(s) alished Other Notifications These notifications are detected only i Diastolic pressure out of threshold Diastolic pressure trend out of threshold Mean pressure trend out of threshold Heart rate out of threshold Pulse pressure out of threshold Systolic pressure out of threshold Systolic pressure end out of threshold
			The availability of the "Diastolic Press potifications depends on the patient's prin

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@sim.com Sent: Date: 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.

				Last		
Patient	Notification / date	Goal / Type	Last Measurement	Reading	7 day trend**	Latest Note
		Goal associated		<nn> mmHg</nn>		
	<notification 1=""> / <date 1="">;</date></notification>	with Primary		(value of the		
<first name=""> <last< td=""><td><notification 2=""> / <date 2="">;</date></notification></td><td>Metric</td><td></td><td>primory</td><td></td><td></td></last<></first>	<notification 2=""> / <date 2="">;</date></notification>	Metric		primory		
name>,	-	-07-	<date last="" of="" reading=""></date>	metric in the	v7, v6, v3, v4, v3, v2, v1	
<id: id="" patient=""></id:>	<notification n=""> / <date n=""></date></notification>	"Not Set"	<device type=""></device>	last reading)	oldestnewest	<latest clinical="" note=""></latest>
		20				
James Shortz	Return to optimal after med change / 10-20-2018	PA Diastolic	20-Oct-2018 PAP	16 mmHg	23, 23,, 24, 22, ?, 16	
James Buffett,		18				
ID: LSOS1976	Spike of 5 mmHg in 1 day / 10-20-2018	PA Diastolic	20-Oct-2018 PAP	25 mmHg	22, 23, 25, 19, 22,, 25	
	3 readings out of optimal range / 10-18-2018;	23	20-Oct-2018 PAP			
S.Ray Vonn	Spike of 5 mmHg in 1 day / 10-17-2018	PA Mean	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@sim.com [mailto:devnoreply@sim.com] Sent: Wednesday, June 14, 2017 3:30 PM Subject: [simencrypt] 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 Weekly PAD Avg Dave with PAD Last Review Latest Notes (Weekly Change) Out of Range 0614. Missed FVR 3 of 3 days June 14, 2017 This is reviewed today 34 mmHg (+25) (August 11, 2017) fvr0614 1 of 1 days 34 mmHa Not Set A new calibration occurred resulting in a Baseline Code of: Missed Pat (August 11, 2017) 24609-118094 Weekly change ≥ 5 mmHg with Weekly PAD within threshold range Neekly PAD Ava Days with PAD Last PAD Last Review Latest Notes (Weekly Change Out of Range 0607 Threshold Pat 23 mmHg (-6) 2 of 3 days 39 mmHa (June 13, 2017) Not Set A new calibration occurred resulting in a Baseline Code of 2A6C9-U8C94 25 mmHg (+13) 0 of 1 days 25 mmHg June 14, 2010 This is reviewed by the Clinic Secondary (June 9, 2017 physician today 0607. Missed Pat 29 mmHg (-5) 0 of 3 days 34 mmHa Not Set A new calibration occurred resulting in a Baseline Code of (August 10, 2017) 2A6C9-U8C94 Patient, POI 17 mmHg (-5) 1 of 4 days 10 mmHg June 14, 2017 This is reviewed on 6/14/2017 ID: 96552211 (June 12, 2017) Non-Compliant: No readings in last 1 days Davs Since Las Last Review Latest Notes Reading PriandSec 192 days Not Set A new calibration occurred resulting in a Disabled Patient Ann Baseline Code of: 2A6C9-U8C94 143 days SecondarvisON Not Set A new calibration occurred resulting in a Baseline Code of: 2A6C9-U8C94 Enrolled_inPri ONinPrimary, Not Set A new calibration occurred resulting in a 14 days Baseline Code of: 2A6C9-U8C94 Comanaged_Primary Noread fvr961 Not Set A new calibration occurred resulting in a 12 days Missed Pat3 Baseline Code of: 2A6C9-U8C94 Andfvr0208, A new calibration occurred resulting in a 12 days Not Set PrimoffSeconon Baseline Code of: 2A6C9-U8C94 Clinic Secondary 5 days June 14, 2017 This is reviewed by the physician toda OBR, Default 5 davs June 8, 2017 This is a note Patient POI 2 days June 14, 2017 This is reviewed on 6/14/2017 ID: 9655221 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 in 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

Abbott	NOTIFICATIONS	ALLPAHENIS	CLINIC			THEFT Y	31011001
NDERSON, HOL	LLY DOB 01-01-	1959 1818 4932083				MORE A	
tatient ID 17463 ferlin.net™ Number 18508117	PA Sensor 08-10-2018 ICD/Pacemaker	Diagnosis Heart Failure with Preserved Ejection Fraction (HFpEF) 08-02-2018	Treating Physician Edwards , Stephanie	Subscribing Clinician(s) Karev, Alex Shepherd, Samantha R Subscribed	Note / Edit Likes to eat at Chi Watch for PA Mea	nese buffet on Thurso in increase on Fridays	lays.
			ΑCTIVITY	SETTINGS			
Notification / Date			Goal / Type I	ing			Actions
Reminder set by: Ste	ephanie Edwards		No Goal Set	~			
Some reminder text No recent pressure i	t / 02-06-2019 readings from patient / 02	01-2019	PA Diastolic	U			
Some reminder text No recent pressure i Recent Interven	c/ 02.06-2019 readings from patient / 02 ntions Viewer	01-2019	PA Diantolic	IJ			ere Bassaund-
Some reminder text No recent pressure i Recent Interver DirectTrend ¹¹⁴ V 24 Diastolic Pressure Gol light Heart Cath implant	/ 02.06-2019 readings from patient / 02 ntions Viewer at - mmitg. Lower 15 mm	01-2019 Hg. Upper 25 mmHg	PA Diantolic	Ū		لہ ہے	Last Reviewed: Last Billed:
Some reminder text No recent pressure i Recent Interve: DirectTrend TM / PA Distolic Pressure Gol Right Heart Cahi Inplant From: (0.2-21- PA Metrica	/ 22.36-2019 readings from patient / 02 intions Viewer al. – mmitg, Lower 15 mm Viabus 2019 To: (03-23-2019) a and Events	No. 2019 Ng. Upper 25 mmNg - 20. Systelic - Filix 6	PA Diantolic	Rend - PA Disatolic - PA Disatolic Tre	Date Ranger:	ی مراجع والی میلید. 10 days والی میلید 10 days والی میلید.	Last Reviewed: Last Billed: 180 days All Ilizations Notes
Some reminder text No recent pressure to Present pressure to DirectTrend TM \ PA Dissolic Pressure Go. Right Heart Cath Implant From: 0.2-21- PA Metrica 100	/ 22.36-2019 readings from patient / 02 ntions Viewer at mmitg. Lower 15 mm Values 2019 To: (03-23-2019) a and Events	Hg, Upper 25 mmHg - PA Systelic - Fill 5 - Sayset Readings	PA Diantolic	Rend - PA Diastolic Tre	Date Range: and →Heart Rate from PA Service	S0 days 90 days Medications ∎Hospita	Last Reviewed: Last Billed: 180 days All Itzations Notes

PATIENT HEADER

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

ANDERSON, HO	OLLY DOB 01-0	1-1959 1818 4932083			MORE ACTIONS ~
Patient ID 57463	PA Sensor 08-10-2018	Diagnosis Heart Failure with	Treating Physician Edwards , Stephanie	Subscribing Clinician(s) Karev, Alex	Note / Edit Likes to eat at Chinese buffet on Thursdays.
Merlin.net™ Number 218508117	ICD/Pacemaker	Preserved Ejection Fraction (HFpEF) 08-02-2018		Shepherd, Samantha Subscribed	Watch for PA Mean increase on Fridays.

NOTIFICATIONS

Mirrors current notifications for patient shown on Notifications List

Notification / Date	Goal / Type Last Reading	Acti
Reminder set by: Stephanie Edwards Some reminder text / 02-06-2019 No recent pressure readings from patient / 02-01-2019	No Goal Set 19 PA Diastolic mmHg	

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

(千)) 📀 🖉	(千) 📀	(千) 📀	「千)	
Medication Intervention	Medication Intervention	Medication Intervention	Medication Intervention	
Stephanie Edwards	Stephanie Edwards	Stephanie Edwards	Stephanie Edwards	
Effective: 03-10-2019	Effective: 03-10-2019	Effective: 03-10-2019	Effective: 03-10-2019	
Decrease	Increase	Change	Start	
Furosemide Lasix®	Furosemide Lasix®	Furosemide Lasix®	Fosinopril Monopril®	
SENT ON: 03-10-2019, 01:27 PM	SENT ON: 03-10-2019, 01:30 PM	SENT ON: 03-10-2019, 01:32 PM	SENT ON: 03-10-2019, 01:47 PM	

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



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



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

✓ Readings						
GOAL 20 Set: 04-18-2019 PA Diastolic	30 DAY READING SUMMARY (does not consider readings re 1000 Reading Compilance	ceived today) Mi) ssed	O FILT Suspect	er Sear	ch Q
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 recalibrate 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)

Merlin.net TM Number ICD/Pacemaker 218508117	Preser Fractic 08-02-		×	Watch for PA Mean increase on Fridays.
✓ DirectTrend™ Viewer		Anderson, Holly & Priority Subscribed	Last Reviewed:	
PA Diastolic Pressure Goal: mmHg, Lower 15 mmHg Right Heart Cath Implant Values	, Upper 25	Note:	By:	Jast Reviewed: Last Billed:
Fixed Auto From: 02-21-2019 To: 03-23-2019				Date Range: 30 days 90 days 180 da
PA Metrics and Events	– P/			ate from PA Sensor. Medications Hospitalizations No.
80		Mark as Billed on:	Last Billed: Data Collected: 0 days	
60 Нши 40		Always show this reminder	CANCEL SAVE	
				1

ACTIONS BUTTON

Notifications for patients followed by: Shepherd, Samantha 🔻				Search Q
Patient / Clinician Notification / Date	👻 Goal / Type	Last Measurement	Last Reading PA Trend (Last 7	days) Actions
Anderson, Holly DOB : 01-01-1959 1-818-4932083 Some reminder text / 02-06-2019 No recent pressure readings from patier	No Goal Set 1t / 02-01-2019 PA Diastolic	10-04-2018 PAP	ACTIONS Add Intervention Add Clinical Note	25 15
vailable from the patient's	notification or o	n the	Update Status Clear Notification(s)	

• 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

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

ADD INTERVENTION [myCardioMEMS ¹¹ App Enabled] Current Notifications :	Add Intervention	
Current Notifications : No recent pressure readings from patient / 12-05-2018 Patient in optimization phase / 10-27-2018 Patient due for review / 10-19-2018 END PATIENT MESSAGE(S) altent receives their messages on their myCardioMEMS [™] mobile application in English (US). dessage preferences can be modified in the patient profile.) Reading Reviewed Call Clinic Call Clinic Cala Clinic Catages end Catages Catages end Catages end Catages end Cata	DD INTERVENTION [myCardioMEMS [™] App Enabled]	
No recent pressure readings from patient / 12-05-2018 Patient in optimization phase / 10-27-2018 Patient due for review / 10-19-2018 EKIND PATIENT MESSAGE(S) EXEND PATIENT MESSAGE(S) EXEND PATIENT MESSAGEs on their myCardioMEMS ¹⁴⁴ mobile application in English (US). Seacord messages on the patient granding in the patient profile.) Reacing Reviewed Call Clinic Call Clinic Call Clinic Cataging Reviewed Call Clinic Catages and the patient was the Reading reviewed message: initiated on 01-30-2019 03:00 PM. Treatment Plan Reminder due to pressure changes The last message sent to this patient was the Reading reviewed message: initiated on 01-30-2019 03:00 PM. The last message sent to the patient. Patient Contact: (B18) 493 2083 PRIMARY PHONE AKKE MEDICATION LIST CHANGE You document medication changes in the Merlin.net Medication list, select the link below to make a change.	Current Notifications :	
SEEND PATIENT MESSAGE(S) Patient receives their messages on their myCardioMEMS™ mobile application in English (US). Message preferences can be modified in the patient profile.) Image: Record messages in the patient's medical record as appropriate. Select a message to send Call Clinic Reading Reviewed Labs Request Treatment Plan Reminder due to pressure changes The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. • myCardioMEMS™ mobile application delivery status: Message Delivered State MEDICAL NOTE This note will not be sent to the patient. Patient Contact: (B19, 493 2083) PRIMARY PHONE	No recent pressure readings from patient / 12-05-2018 Patient in optimization phase / 10-27-2018 Patient due for review / 10-19-2018	
Patient receives their messages on their myCardioMEMS [™] mobile application in English (US). Message preferences can be modified in the patient profile.) Select a message to send Call Clinic Reading Reviewed Reading Reviewed Labs Request Treatment Plan Reminder due to pressure changes The last message sent to this patient was the Reading reviewed message: initiated on 0(1-30-2019 03:00 PM myCardioMEMS [™] mobile application delivery status: Message Delivered Delivered Patient Contact: (818) 493 2083 PRIMARY PHONE You document medication changes in the Merlin.net Medication list, select the link below to make a change.	END PATIENT MESSAGE(S)	
Secord messages in the patient's medical record as appropriate. Select a message to send Call Clinic Reading Reviewed Labs Request Treatment Plan Reminder due to pressure changes The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. or myCardioMEMS TM mobile application delivery status: Message Delivered Patient Contact: (618) 493 2083 PRIMARY PHONE You document medication changes in the Merlin.net Medication list, select the link below to make a change.	Patient receives their messages on their myCardioMEMS™ mobile ap Message preferences can be modified in the patient profile.)	oplication in English (US).
Select a message to send Call Clinic Custom Message (250 character limit) Reading Reviewed Not for medication instructions. To ensure medication accuracy on the patient's app, make changes through the Medications List. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. Sec · myCardioMEMS™ mobile application delivery status: Message Delivered Sec VDD CLINICAL NOTE Patient Contact: [@18] 493 2083 PRIMARY PHONE AKE MEDICATION LIST CHANGE You document medication changes in the Merlin.net Medication list, select the link below to make a change.	Record messages in the patient's medical record as appropriate.	
Call Clinic Custom Message (250 character limit) Reading Reviewed Not for medication instructions. To ensure medication accuracy on the patient's app, make changes through the Medications List. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. Sec - myCardioMEMS ¹¹⁴ mobile application delivery status: Message Delivered Sec DD CLINICAL NOTE Patient Contact: (818) 493 2083 PRIMARY PHONE VAKE MEDICATION LIST CHANGE You document medication changes in the Merlin.net Medication list, select the link below to make a change.	Select a message to send	
Reading Reviewed Not for medication instructions. To ensure medication accuracy on the patient's app, make changes through the Medications List. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. SE DD CLINICAL NOTE This note will not be sent to the patient. Patient Contact:: (818) 493 2083 PRIMARY PHONE SE	O Call Clinic	Custom Message (250 character limit)
Reading Reminder Not for medication instructions. To ensure medication accuracy on the patient's app, make changes through the Medications List. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. DD CLINICAL NOTE Patient Contact: (818) 493 2083 PRIMARY PHONE PATIENT Contact: (918) 493 2083 PRIMARY PHONE SA	Reading Reviewed	
Labs Request medication accuracy on the patient's app, make changes through the Medications List. The last message sent to this patient was the Reading reviewed message; initiated on 01-30-2019 03:00 PM. Image: Changes through the Medications List. - myCardioMEMS™ mobile application delivery status: Message Delivered Image: Changes through the Medications List. DD CLINICAL NOTE Image: Changes through the patient. Image: Changes through the patient was the patient. Patient Contact: (818) 493 2003 PRIMARY PHONE VAKE MEDICATION LIST CHANGE You document medication changes in the Merlin.net Medication list, select the link below to make a change. Image: Changes through the Merlin.net Medication list, select the link below to make a change.	Reading Reminder	Not for medication instructions. To ensure
Treatment Plan Reminder due to pressure changes make changes through the Medications List. The last message sent to this patient was the Reading reviewed message: initiated on 01-30-2019 03:00 PM. see - myCardioMEMS™ mobile application delivery status: Message Delivered see DD CLINICAL NOTE Patient Contact: (818) 493 2083 PRIMARY PHONE MAKE MEDICATION LIST CHANGE See You document medication changes in the Merlin.net Medication list, select the link below to make a change. See	Labs Request	medication accuracy on the patient's app,
The last message sent to this patient was the Reading reviewed message: initiated on 01-30-2019 03:00 PM. Stell - myCardioMEMS™ mobile application delivery status: Message Delivered Stell DD CLINICAL NOTE Patient Contact: (818) 493 2083 PRIMARY PHONE VAKE MEDICATION LIST CHANGE Stell You document medication changes in the Merlin.net Medication list, select the link below to make a change. Stell	Ireatment Plan Reminder due to pressure changes	make changes through the Medications List.
DD CLINICAL NOTE This note will not be sent to the patient. Patient Contact: (818) 493 2083 PRIMARY PHONE AKE MEDICATION LIST CHANGE you document medication changes in the Merlin.net Medication list, select the link below to make a change.	The last message sent to this patient was the Reading reviewed n - myCardioMEMS™ mobile application delivery status: Message L	nessage; initiated on d <u>1-30-2019 03:00 PM.</u> Delivered
This note will not be sent to the patient. Patient Contact: (818) 493 2083 PRIMARY PHONE AAKE MEDICATION LIST CHANGE you document medication changes in the Merlin.net Medication list, select the link below to make a change.	DD CLINICAL NOTE	
Patient Contact: (818) 493 2083 PRIMARY PHONE AKE MEDICATION LIST CHANGE you document medication changes in the Merlin.net Medication list, select the link below to make a change.	This note will not be sent to the patient.	
(818) 493 2083 PRIMARY PHONE		Patient Contact:
PRIMARY PHONE AAKE MEDICATION LIST CHANGE You document medication changes in the Merlin.net Medication list, select the link below to make a change.		(818) 493 2083
MAKE MEDICATION LIST CHANGE you document medication changes in the Merlin.net Medication list, select the link below to make a change.		PRIMARY PHONE
MAKE MEDICATION LIST CHANGE		SA
you document medication changes in the Merlin.net Medication list, select the link below to make a change.	VAKE MEDICATION LIST CHANGE	
	vou document medication changes in the Merlin.net Medication list.	select the link below to make a change.

Intervention Types

ТҮРЕ	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

SEND PATIENT MESSAGE(S)

Patient receives their messages on their myCardioMEMS[™] mobile application 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)

Not for medication instructions. To ensure medication accuracy on the patient's app, make changes through the Medications List.

The last message sent to this patient was the Reading reviewed message; initiated on 0<u>1-30-2019 03:00 PM.</u> - myCardioMEMS™ mobile application delivery status: Message Delivered

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).

ADD CLINICAL NOTE

Allows you to document notes about patient

Add Clinical Note		×
ADD CLINICAL NOTE This note will not be sent to the patient.	Patient Contact: (818) 493 2083 PRIMARY PHONE	
		SAVE

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

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





CLEAR NOTIFICATION(S)

Notifications for patients fo	lowed by: Shepherd, Samantha		1	Let Deading DA Tarad (Let 7 days)	A
Patient / Clinician	Notification / Date	♥ Goal / Type	Last Measurement	Last Reading PA Trend (Last 7 days)	Actions
Anderson, Holly DOB: 01-01-1959	Reminder set by: Stephanie Edwards			ACTIONS	
1-818-4932083	Some reminder text / 02-06-2019	No Goal Set PA Diastolic	10-04-2018 PAP	Add Intervention	15
Shepherd, Samantha	No recent pressure readings non patient / 02-01-2019			Add Clinical Note	
				Update Status	
ws you to	remove a notification fi	om		Clear Notification(s)	
Notificatio	ng List and nationt acti	wity page		Remind Ma	
notificatio	his list and patient acti	vity page			
	(1 . 1 . 1 . 1 . 1	• • •		Subscribed	

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

well as any status notes associated with that patient

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

Remind Me	×
Set Reminder Notification	
Remind me on a day:	
Enter a reason why you want to be reminded (text will be displayed as a notification on the Notifications List)	
Existing Reminders	
	SAVE

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

SUBSCRIBE

Notifications for patients fo	Notification / Date	👻 Goal / Type	Last Measurement	Last Reading PA Trend (Last 7 days)	Actions	
Anderson, Holly DOB: 01-01-1959 1-818-4932083	Reminder set by: Stephanie Edwards Some reminder text / 02-06-2019 No recent pressure readings from patient / 02-01-2019	No Goal Set PA Diastolic	10-04-2018 PAP	ACTIONS Add Intervention	25 15	:	I
Allows you to	subscribe to (or "follow	") specifi	с	Add Clinical Note Update Status Clear Notification(s) Remind Me			
Ensures patier	nts you are interested in on the Notifications Lis	n are mac	le	Subscribed			

6. Other Patient Settings

Ejection Fraction (EF)

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

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	IONS ALL PATIENTS CLINIC
Patient Details	Patient List > Patient Enrollment > Patient Details
PATIENT	
* First Name:	TEST
Middle Name:	
* Last Name:	Test
Language:	English (US)
* Date of Birth:	01-01-1950
Patient ID:	
Merlin.net™ Number:	
Clinic Location:	Waycross
Gender:	Female Male
Patient SSN:	
Cardiomyopathy:	\$
EF %:	

During enrollment > PATIENT DETAILS • After enrollment > PATIENT PROFILE

	INS ALL PATIENTS CLINIC
✓ Patient Profile	
Patient	
First Name:	Eric
Middle Name:	
Last Name:	Harris
Language:	English (US)
Patient ID:	Harris61266
* Date of Birth :	06-12-1966
Merlin.net [™] Number:	945332534
Clinic Location:	Waycross
Gender:	🔵 Female 🧿 Male
Cardiomyopathy:	\$
EF %:	

Other Patient Settings

DIAGNOSES

 \sim

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

Search Q		Add Diagnosis
Diagnosis Date	 Medical Condition 	Comments
10-24-2022	Elevated BNP	450 (BMI 29)
10-18-2022	NYHA Class II	
Showing 1 - 2 of 2	Sh	ww 10 → per page

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

C Abbott	NOTIFICATIONS	ALL PATIENTS	CLINIC	тм	HELP 🗡	switch to 🗸	SIGN OUT
/	/						

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

C Abbott	NOTIFICATIONS	ALL PATIENTS	CLINIC		тм	HELP 🗡	switch to 🗸	SIGN OUT
✓ FONTANA, BEL	LA DOB 01-05	-1965					MORE A	CTIONS ~
Patient ID US11001 Merlin.net [™] Number 852334366	PA Sensor 12-31-2021 ICD/Pacemaker	Diagnosis	Treating Physician Cunningham , Emerson	Subscribing Clinician(s)		Note / Edit		
Notification / Date			Goal / Type	SETTINGS Reading				Actions
No recent pressu Patient in optimiz	re readings from patient / 06 ation phase / 06-23-2021	5-23-2021	No Goal Set 16 PA Diastolic mmt) Hg				:
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

C Abbott	NOTIFICATIONS	ALL PATIENTS	CLINIC		тм	HELP 🗡	switch to 🗡	SIGN OUT
> Patient Profile	e							
> myCardioMEM	/IS™ Mobile Applicat	ion						
Diagnoses								
Search	Q							Add Diagnosis
Diagnosis Date			 Medical Condition 			Commen	its 🥖	
Showing 0 - 0 of 0				Show 10 💙 per page				44 4 1 + ++

> Medications

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:	
Medical Condition:	
Commenter	NYHA Class II Heart Failure
Comments.	NYHA Class IV Heart Failure
	NYHA Class III Heart Failure

DIAGNOSIS DATE

• Date of NYHA classification assessment (prior to or the day of CardioMEMSTM 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**

Proprietary and confidential — do not distribute

BNP/NT-proBNP Data Entry

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

Diagnosis	×	
Add Diagnosi	s	-
Diagnosis Date:	11-01-2022	
Medical Condition:	Elevated	
Comments:	Elevated NT-proBNP	
Commenta.	Elevated BNP	
Diagnosis		×
Add Diagno	osis	
Diagnosis Da	te: 11-01-2022	
Medical Condition	on: Elevated BNP	1
Commen	ts: 300 (BMI 30)	1
	CANCEL SAVE	

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 MAT-1901214 v4.0 | Item approved for U.S. use only. | 7-Nov-23 | 75

Proprietary and confidential — do not distribute

MEDICATIONS

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

✓ Medications								
Search	Q						Add Temporary Medication	Add Medication
Drug	Class	Adjustment	Date	Dose	Frequency	Patient Instructions	Clinic Comments	
Furosemide (Lasix®)	Loop Diuretic	Start	05-13-2019	20 mg 1.0 Tablet	BID (Twice a day)	Sent by Sam, Treat		Delete Adjust
Showing 1 - 1 of 1					Show 10 ᅌ per page			
PRN Medicatio	Q							
Drug	Class	Adjustment	Date D	ose	Frequency	Patient Instructions	Clinic Comments	
Showing 0 - 0 of 0					Show 10 ᅌ per page			

GOALS AND THRESHOLDS (OTHER METRICS)

PA Mean Pressure IO IO IO IO Patient Threshold Remove Override PA Diastolic Trend IO IO	
PA Diastolic Trend 8 30 Clinic Threshold PA Mean Trend Image: Clinic Threshold Image: Clinic Threshold	
PA Mean Trend	
PA Systolic Pressure 35 🗘 Patient Threshold Remove Override	
PA Systolic Trend	
Heart Rate 90 🗘 Patient Threshold Remove Override	
Pulse Pressure	

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

PATIENT DOES <u>NOT</u> RETURN TO OPTIMAL STATE.



Notifications received:

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

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



Notifications received:



HOSPITALIZATIONS

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

✓ Hospitalizations					
Search Q				Add Hospitalization	
Admission	 Discharge 	Duration	Notes		
04-01-2019	04-05-2019	4 days	Fatigue and light headedness		
Showing 1 - 1 of 1			Show 10 c per page		

NOTES

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

Votes		
Search Q	Add	Note
Date -	Contents	
05-16-2019	Reviewed Today	
05-13-2019	Add Lasix 20mg	
05-13-2019	lasix	
05-13-2019	add medication	
04-25-2019 Showing 1 - 6 of 6	Test Note Show 10 o per page	• ••

PATIENT MESSAGING

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

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: 09:00 AM 🗢 and: 07:00 PM 🗢

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

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



THRESHOLDS

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

✓ Thresholds				
Metric	Active	Lower Bound	Upper Bound	
PA Diastolic Pressure		8	30	This metric is always active at the clinic level but can be disabled for individual patients.
PA Mean Pressure		10	30	This metric is always active at the clinic level but can be disabled for individual patients.
PA Diastolic Trend				
PA Mean Trend				
PA Systolic Pressure				
PA Systolic Trend				
Heart Rate	v	50	100 🔹	
Pulse Pressure				

NOTIFICATIONS

Allows you to set default notifications for patients

✓ Notifications	
Clinical Notifications	Administrative Notifications
Primary Notifications	☑ No pressure readings for 7 🗘 day(s)
 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 10 mmHg over 1 day(s) Pressure readings transitioned from High to Low range (without patient returning to optimal state) Pressure reading stransitioned from Low to High range (without patient returning to optimal state) 1 reading above optimal range 3 readings above optimal range 	 First pressure reading after er(s) First 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
□ 7 or more readings above optimal range	
7 or more readings below optimal range Patient returns to optimal state after medication change	

8. User Settings





- 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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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.

CardioMEMSTM 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.

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