



Abbott

POWERING HEARTS BEAT TO BEAT

CRM TRAINING & EDUCATION

Optimizing ICM Management with Merlin.net™

OPTIMIZING ICM MANAGEMENT WITH MERLIN.NET™

Taking Control of Your ICM Data Burden

Today's Agenda

Taking Control of Your ICM Data Burden

Time (hh:mm)	Topic
00:00-00:05	Opening Remarks (5 min) <ul style="list-style-type: none">• Agenda overview• AHP introduction/background
00:05-00:25	Tools Designed for ICM (20 min) <ul style="list-style-type: none">• Programming DirectAlerts™• Patient Symptom Button: overview of the feature and how to program• Key Episodes: overview of the feature and how to program• Remote Programming (for Assert-IQ™ ICM only)
00:25-00:40	Best Practices for Managing Data Burden (15 min) <ul style="list-style-type: none">• AHP shares personal experience and tips for managing data burden
00:40-00:55	Q&A (15 min)

TAKING CONTROL OF YOUR ICM DATA BURDEN

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CLINICAL DEVICE SPECIALIST

ATC CARDIOLOGY AT GRANDVIEW HEALTH

TAKING CONTROL OF YOUR ICM DATA BURDEN

DirectAlertsTM Programming

DirectAlerts Notifications

RECEIVE ALERTS THAT ARE IMPORTANT TO YOUR CLINIC

DirectAlerts notifications allow clinics to select the type of alerts that trigger remote transmissions.

DirectAlerts programmability is available under the **“DirectAlerts™ Notification”** section of the Patient Profile.

The screenshot displays the Abbott Merlin.net™ Patient Care Network interface. The top navigation bar includes the Abbott logo, user information (Signed in as S US, Help, Switch to, Sign Out), and the network name. The main navigation menu has tabs for Recent Transmissions, Patient List, Tools, and Clinic Administration. The Patient List tab is active, and the Patient profile sub-tab is selected. The patient's name, Dee Fibrillator, and ID are displayed. The DirectAlerts™ Notification section is highlighted, showing a table of alert types and their classifications. The table has columns for Alert Type and Alert Classification (Red, Yellow, Off). The Device Alerts section includes Battery Low, Parameter Errors, Monitor at End Of Service, Device Reset, and Monitoring Disabled. The Clinical Alerts section includes AF Episode, Continuous AF, AF Burden, V. Rate during AF, Tachy Episode, Brady Episode, Pause Episode, and Symptom Episode. A checkbox for 'Record Symptom using Patient App' is checked. A link for 'Override in effect for this patient' is visible at the bottom.

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Device Reset	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Continuous AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
AF Burden	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
V. Rate during AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Tachy Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Brady Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pause Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

DirectAlerts Notifications

SET CLINIC DEFAULTS FOR DIRECTALERTS PREFERENCES

Defaults for your clinic's DirectAlerts notification settings can be programmed under the “**Clinic Administration**” tab by accessing the “**Cardiac Monitor**” in the “DirectAlerts™ settings” section.

The screenshot displays the Abbott Merlin.net Patient Care Network interface. The top navigation bar includes the Abbott logo, user information (Signed in as T Marks), and navigation options (Help, Switch to, Sign Out). The main navigation menu shows tabs for Recent Transmissions, Patient List, Tools, and Clinic Administration (highlighted with a yellow box). The left sidebar lists various administration options, with Cardiac Monitor highlighted. The main content area shows the DirectAlerts™ Settings for Cardiac Monitor, including sections for Alert Type (Device Alerts and Clinical Alerts) and Alert Classification (Red, Yellow, Off).

Alert Type	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Device Reset	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Continuous AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
AF Burden	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
V. Rate during AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Tachy Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Brady Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pause Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Record Symptom using Patient App ⓘ

ALL alerts can always be seen in Recent Transmissions.

DirectAlerts Notifications

ALERT CLASSIFICATION

Each Alert Type can be programmed with a different Alert Classification (Red or Yellow flag) or disable the alert using the “Off” option.

The **Red** and **Yellow** flag classifications determine who receives alerts for each alert type and the type of communication that will be received if that alert comes through.

The screenshot shows the Abbott Merlin.net Patient Care Network interface. The patient is identified as Dee Fibrillator, with Patient ID: Asser-IQ™ EL+ ICM, DM5500. The interface is for configuring DirectAlerts™ Notifications. The 'Alert Classification' table is highlighted with a yellow border.

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Device Reset	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Continuous AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
AF Burden	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
V. Rate during AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Tachy Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Brady Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pause Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

DirectAlerts Notifications

ALERT CLASSIFICATION

Under the “**Clinic Administration**” tab, clinics can program how **Red** and **Yellow** flag notifications are received during and after office hours.

Options include:

- Email
- Fax
- Phone
- Text Message
- None

The screenshot displays the 'DirectAlerts™ Settings for Cardiac Monitor' page. The left sidebar contains a navigation menu with 'Clinic Administration' selected. The main content area is divided into sections: 'Administration' (with sub-items like Clinic Profile, Scheduling & Messaging, etc.), 'DirectAlerts™ settings' (with sub-items like ICD/ CRT-D, Merlin@home Transmitter, etc.), and 'Cardiac Monitor' (with sub-items like Pacemaker/ CRT-P, Report Settings, etc.). The 'DirectAlerts™ settings' section is highlighted. It contains two columns of settings: 'Red Alerts' and 'Yellow Alerts'. Each column has two rows: 'during Office Hours to:' and 'after Office Hours to:'. The 'Yellow Alerts' dropdown menu is open, showing options: Email, Fax, Phone, Text Message, and None. Below these settings is the 'Clinic contact information' section, which includes fields for 'Text message', 'Email', 'Phone', and 'Fax'. The 'Phone' and 'Fax' fields are structured with Country Code, Area/City Code, and Phone Number sub-fields. The 'Text message' field contains '+1 111 111 1111' and the 'Email' field contains 'fontana@clinic.com'. A '* Required field' note is visible at the bottom left of the contact information section.

DirectAlerts Notifications

ALERT CLASSIFICATION

Select who on the medical team will receive alert notifications after office hours.

After office hours notifications can be received for:

- Red Alerts
- Yellow Alerts
- Both Red and Yellow Alerts
- Off

The screenshot displays the 'DirectAlerts™ Settings for Cardiac Monitor' page. The top navigation bar includes 'Recent Transmissions', 'Patient List', 'Tools', and 'Clinic Administration'. The sidebar on the left lists 'Administration' (Clinic Profile, Scheduling & Messaging, Clinic hours / holidays, DirectAlerts™ settings, ICD/ CRT-D, Merlin@home Transmitter, Pacemaker/ CRT-P) and 'Cardiac Monitor' (Clinic Settings, Report Settings, Export Options, Clinical Comments, Clinic Users, Clinic Locations). The main content area is divided into three sections: 'Red Alerts', 'Yellow Alerts', and 'Medical Team'. The 'Red Alerts' section has 'Send Red Alerts during Office Hours to:' set to 'Phone' and 'Send Red Alerts after Office Hours to:' set to 'Email'. The 'Yellow Alerts' section has 'Send Yellow Alerts during Office Hours to:' set to 'Text Message' and 'Send Yellow Alerts after Office Hours to:' set to 'Text Message'. A dropdown menu is open for the 'Send Yellow Alerts after Office Hours to:' field, showing options: Email, Fax, Phone, Text Message, and None. The 'Medical Team' section is highlighted with a yellow border and contains 'Send Alerts after Office Hours to Medical Team for:' set to 'Red Alerts', '* On-call Physician Contact:' with a search icon, an 'Email' dropdown, and '* Email:' set to 'doctor@abbott.com'. The 'Clinic contact information' section at the bottom includes fields for '* Text message:' (+1 111 111 1111), '* Phone:' (Country Code: 1, Area/City Code: 222, Phone Number: 222 2222), and '* Fax:' (Country Code: 1, Area/City Code: 333, Phone Number: 333 3333). A red asterisk indicates a required field.

DirectAlerts Notifications

ALERT CLASSIFICATION

Ensure that clinic contact information is updated for each communication type.

The screenshot displays the 'DirectAlerts™ Settings for Cardiac Monitor' page. The left sidebar shows a navigation menu with 'Clinic Administration' selected. The main content area is divided into three sections: 'Red Alerts', 'Yellow Alerts', and 'Medical Team'. The 'Red Alerts' section has dropdowns for 'Send Red Alerts during Office Hours to:' (Phone) and 'Send Red Alerts after Office Hours to:' (Email). The 'Yellow Alerts' section has dropdowns for 'Send Yellow Alerts during Office Hours to:' (Text Message) and 'Send Yellow Alerts after Office Hours to:' (Text Message). The 'Medical Team' section has a dropdown for 'Send Alerts after Office Hours to Medical Team for:' (Red Alerts) and an 'On-call Physician Contact' field (Email) with the value 'doctor@abbott.com'. The 'Clinic contact information' section is highlighted with a yellow border and contains the following fields:

	Country Code	Area/City Code	Phone Number
* Text message: +1 111 111 1111			
* Phone:	1	222	222 2222
* Fax:	1	333	333 3333

* Required field

DirectAlerts Notifications

OPTIMIZING ALERT NOTIFICATION

Transmission Date : 12-03-2019 07:28 AM

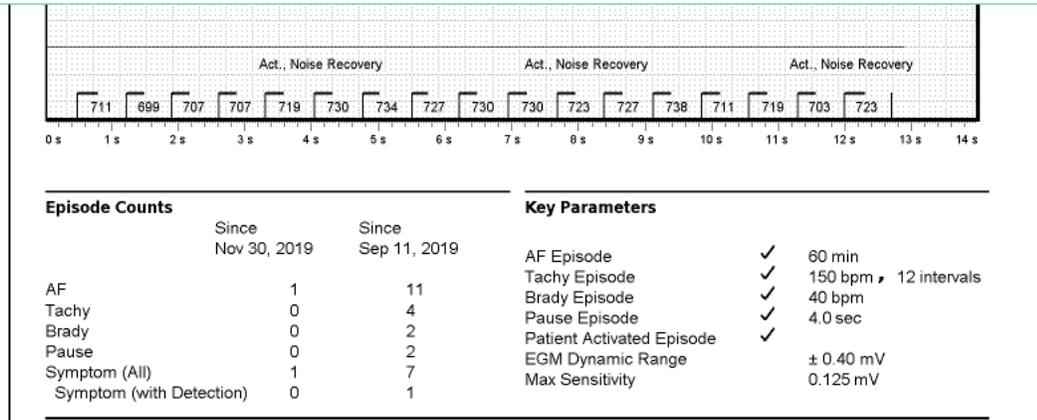
Summary
 FastPath™ Summary
 Episodes Summary
 Diagnostics Summary

Alerts & episodes
 Episodes and EGMs

Date/Time	Zone/Type	CL (ms)	Therapy	Duration	EGM	Alerts
12-03-2019 07:24 AM	Symptom	N/A		-		
12-02-2019 09:51 PM	AF	N/A		8:15:04		

Parameters
Parameters

Other
View Merged Report



DirectAlerts™ Notification [Edit](#)

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Device Reset	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Continuous AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
AF Burden	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
V. Rate during AF	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tachy Episode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Brady Episode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pause Episode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Record Symptom using Patient App			

DirectAlerts Notifications

EXAMPLE

- High volume event counters
- High burden of alerts
- What is actionable?
- What can be changed?
 - Detection
 - Alerts
 - Key Episodes Option

Episode Counts		Key Parameters	
	Since Oct 23, 2023	Since Oct 9, 2023	
AF	2	30	✓ 2 min
Tachy	1	41	✓ 145 bpm , 12 intervals
Brady	0	2	✓ 30 bpm
Pause	0	19	✓ 5.0 sec
Symptom (All)	0	0	
Symptom (with Detection)	0	0	
			± 0.40 mV
			0.075 mV

10-21-2023 02:11 PM	Tachy	0:03	185 bpm max. 155 bpm avg.
10-21-2023 01:59 PM	Tachy	0:06	172 bpm max. 146 bpm avg.
10-21-2023 11:07 AM	Tachy	0:21	180 bpm max. 151 bpm avg.
10-21-2023 10:54 AM	AF	12:11	108 bpm avg.
10-21-2023 08:33 AM	AF	5:10	87 bpm avg.
10-20-2023 03:16 PM	Tachy	0:13	166 bpm max. 151 bpm avg.
10-20-2023 01:58 PM	AF	8:24	101 bpm avg.
10-20-2023 11:13 AM	AF	7:26	94 bpm avg.
10-20-2023 07:04 AM	Tachy	0:06	166 bpm max. 157 bpm avg.
10-20-2023 01:15 AM	Tachy	0:03	156 bpm max. 147 bpm avg.
10-20-2023 12:10 AM	Tachy	0:03	146 bpm max. 145 bpm avg.
10-20-2023 12:07 AM	Tachy	0:03	146 bpm max. 146 bpm avg.
10-19-2023 10:16 PM	Tachy	0:08	165 bpm max. 148 bpm avg.
10-19-2023 09:12 PM	Tachy	0:06	172 bpm max. 150 bpm avg.
10-19-2023 02:13 PM	Pause	0:05	-
10-19-2023 01:56 PM	Pause	0:05	-
10-18-2023 08:49 PM	Tachy	0:12	156 bpm max. 146 bpm avg.

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Device Reset	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Continuous AF	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
AF Burden	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
V. Rate during AF	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tachy Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Brady Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Pause Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Record Symptom using Patient App			

TAKING CONTROL OF YOUR ICM DATA BURDEN

Record Symptoms Button

Record Symptoms Button

ENABLE AND DISABLE PATIENT-INITIATED TRANSMISSIONS

If a patient believes they are experiencing a cardiac-related symptom, they can send a manual transmission by using the “**Record Symptoms**” button on their myMerlin™ Mobile App.

The “**Record Symptom**” button can be enabled or disabled through Merlin.net™ PCN.

- Program it for a specific patient under the “DirectAlerts™ Notifications” section of the Patient Profile
- Program your clinic-wide preference under the “DirectAlerts™ settings” for “Cardiac Monitor” under the “**Clinic Administration**” tab

The image displays two screenshots. On the left is a screenshot of the Merlin.net PCN interface. The top navigation bar includes 'Recent Transmissions', 'Patient List', 'Tools', and 'Clinic Administration'. The 'Patient List' tab is selected. Below this, the patient profile for 'Dee Fibrillator' is shown, including Patient ID: ASser-IQ™ EL+ ICM, DM5500. The 'DirectAlerts™ Notification' section is expanded, showing a table of alert types and classifications. The 'Record Symptom using Patient App' checkbox is checked. On the right is a screenshot of the myMerlin mobile app. The app shows the Abbott logo, a heart icon, and a 'Record Symptoms' button at the bottom.

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Device Reset	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Continuous AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
AF Burden	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
V. Rate during AF	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Tachy Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Brady Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Pause Episode	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

TAKING CONTROL OF YOUR ICM DATA BURDEN

Record Symptoms Button

PATIENT WILL NOT BE NOTIFIED IF THE BUTTON IS DISABLED



Button Enabled



Button Disabled

Archived	10-23-2023 09:06 PM	0 Alert Types	Patient initiated	Assert-IQ™ EL+ ICM,
Archived	10-22-2023 09:40 PM	0 Alert Types	Patient initiated	Assert-IQ™ EL+ ICM,
Archived	10-22-2023 09:36 PM	0 Alert Types	Patient initiated	Assert-IQ™ EL+ ICM,
Archived	10-21-2023 05:18 PM	0 Alert Types	Patient initiated	Assert-IQ™ EL+ ICM,
Archived	10-19-2023 02:03 AM	0 Alert Types	Scheduled	Assert-IQ™ EL+ ICM,
Archived	10-18-2023 09:01 AM	0 Alert Types	Patient initiated	Assert-IQ™ EL+ ICM,

TAKING CONTROL OF YOUR ICM DATA BURDEN

Key Episodes

The Power of Choice

Key Episodes is a feature available for Jot™ Dx and Assert-IQ™ ICM devices that reduces data burden without compromising time-to-diagnosis.

- Key Episodes eliminates EGM redundancy by delivering three episodes per arrhythmia type per day
- Jot Dx and Assert-IQ are the only ICM that allow customers to see key episodes OR all episodes

[3 KEY] EPISODES

Choose to view three key episodes for a patient or facility.

Nominally on to provide the most clinically relevant information.



[ALL] EPISODES

When events are rare, or clinical consequences of diagnosis are most dire, **ALL** information can be sent to the clinic.

Key Episode Selection

GET EPISODE DATA UNIQUE TO EACH ARRHYTHMIA TYPE

Better selection criteria provides the most insightful data for each arrhythmia type.¹

Assert-IQ™ ICM	
Arrhythmia Type	Key Episode Selection: Up to 3 EGMs per day, per arrhythmia type ¹
Atrial Fibrillation	1. Longest episode 2. Second longest episode 3. Fastest mean rate
Tachycardia	1. Longest episode 2. Second longest episode 3. Fastest maximum rate
Bradycardia	1. Longest episode 2. Second longest episode 3. Fastest minimum rate
Pause	1. Longest episode 2. Second longest episode 3. Shortest episode

Novel set of evaluation criteria is uniquely programmed to make up the three Key Episodes.

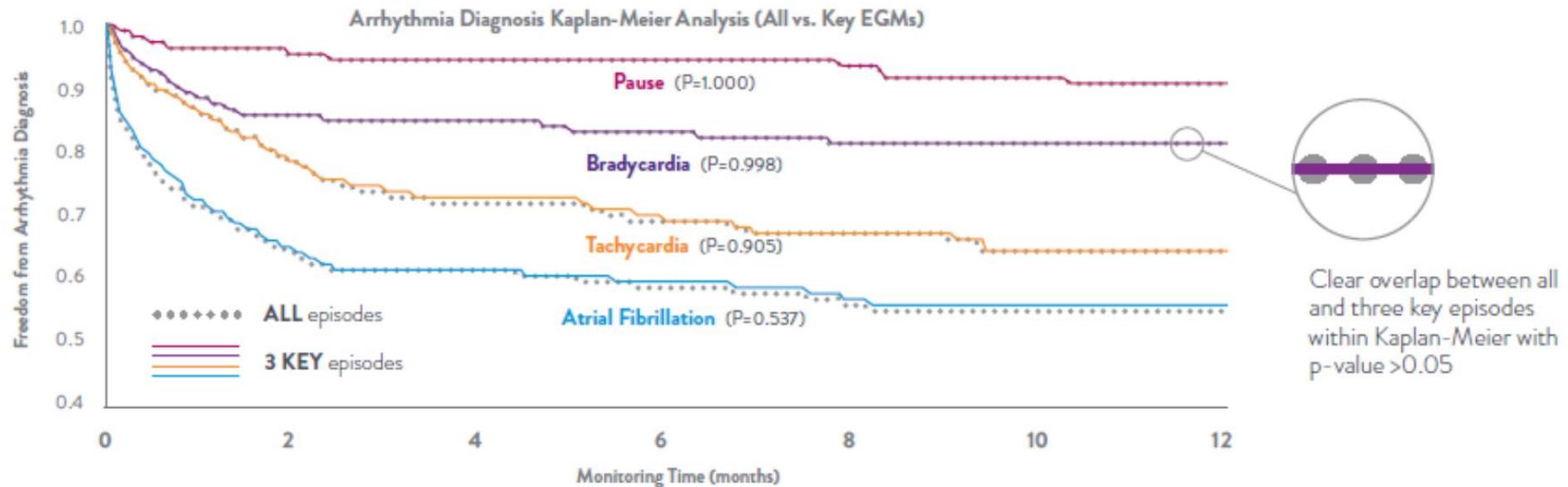
Competitive Comparison

	Assert-IQ™ ICM	Medtronic Reveal LINQ‡	Medtronic LINQ II‡
Arrhythmia Type	Key Episode Selection: Up to 3 EGMs per day, per arrhythmia type ¹	Selection: One EGM per day based on wireless data priority ²	Selection: Three auto episode EGMs per day per arrhythmia type ³
Atrial Fibrillation	<ol style="list-style-type: none"> 1. Longest episode 2. Second longest episode 3. Fastest mean rate 	<p>One EGM per day sent wirelessly</p> <p>Patient manual transmission optional to see all information³</p>	<p>Same standard criteria set for all arrhythmia types</p> <ol style="list-style-type: none"> 1. First episode 2. Second episode 3. Longest episode
Tachycardia	<ol style="list-style-type: none"> 1. Longest episode 2. Second longest episode 3. Fastest maximum rate 		
Bradycardia	<ol style="list-style-type: none"> 1. Longest episode 2. Second longest episode 3. Fastest minimum rate 		
Pause	<ol style="list-style-type: none"> 1. Longest episode 2. Second longest episode 3. Shortest episode 		

KEY EPISODES

No Delay-to-Diagnosis

EVEN WITH THREE KEY EPISODES TURNED ON, THERE IS NO LOSS OF ACCURACY, AND VIRTUALLY NO DELAY-TO-DIAGNOSIS⁴



Managing Data Burden

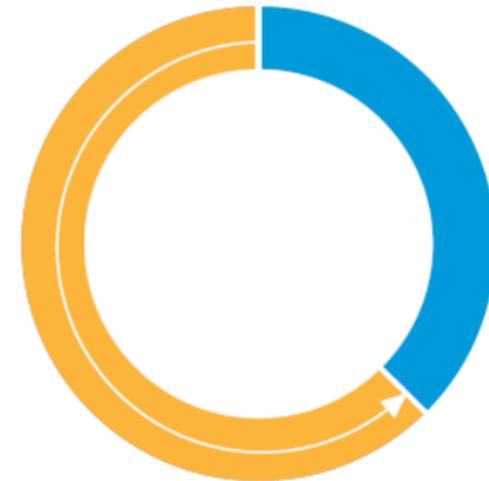
FOCUS YOUR DIAGNOSTIC DATA AND REDUCE YOUR DATA BURDEN

Choose to view three key episodes for a patient or facility.

Decrease your data burden on average by

With Key Episodes turned on and pause algorithm improvements

63%⁵



Key Episodes

POTENTIAL STAFF TIME SAVINGS FROM REDUCED DATA BURDEN

All patients⁵

Hours/year reduction

120

36

Clinic Personnel
(100 patients)

Electrophysiologists
(100 patients)

Top 25th percentile patients⁵

Hours/year reduction

300

96

Clinic Personnel
(100 patients)

Electrophysiologists
(100 patients)

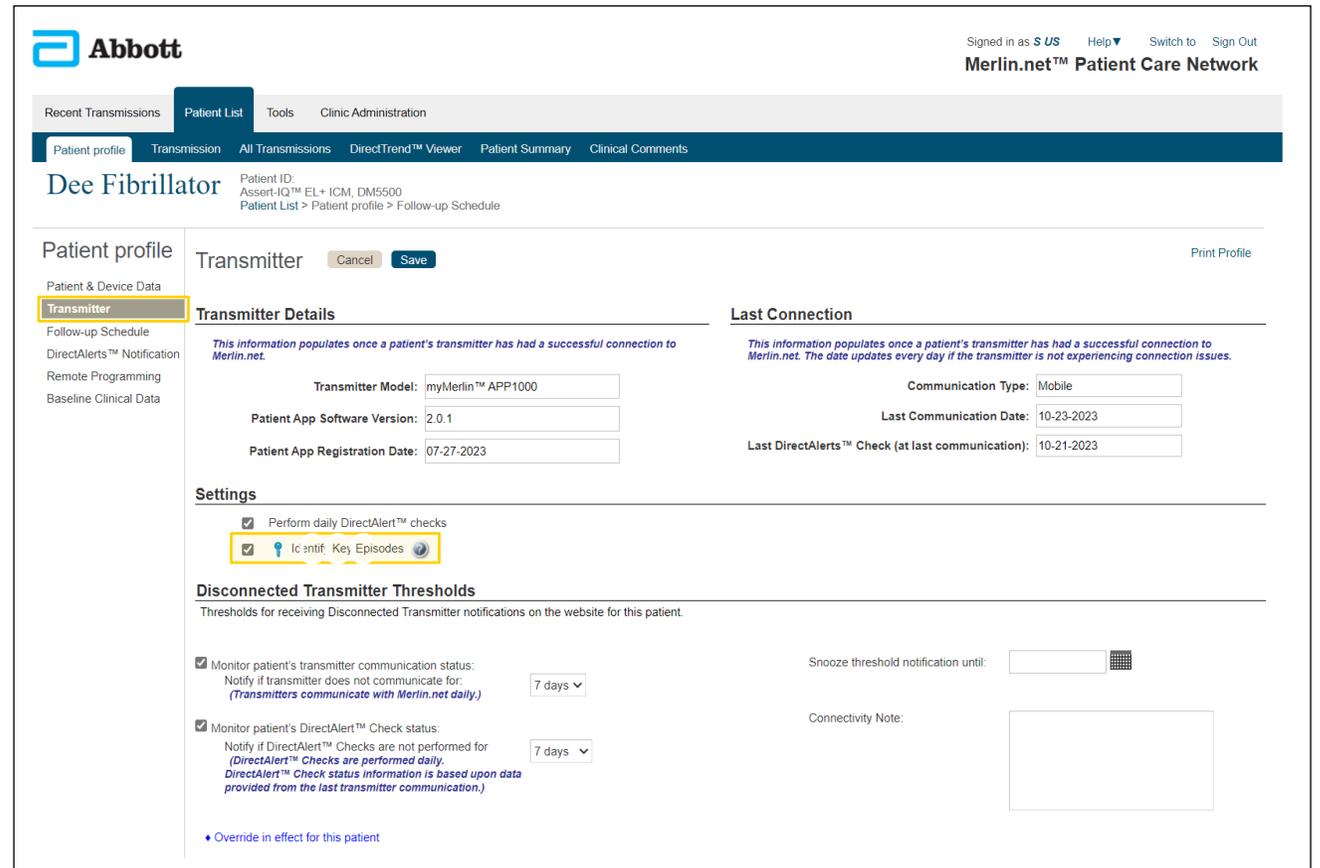
Patient-Specific Programming

ENABLE UNDER THE PATIENT PROFILE

Changes made in the Patient Profile for Identify Key Episodes override the clinical default settings.

Enable the feature for specific patients by accessing the “**Transmitter**” section of the Patient Profile.

Key Episodes can be enabled and disabled by checking the “**Identify Key Episodes**” box.



KEY EPISODES

Clinic-Wide Programming

ENABLE THE FEATURE CLINIC-WIDE

Enable the feature clinic-wide for all eligible ICMs by accessing the “**Report Settings**” section of the “**Clinic Administration**” tab.

Key Episodes can be enabled and disabled by checking the “**Identify Key Episodes**” box.

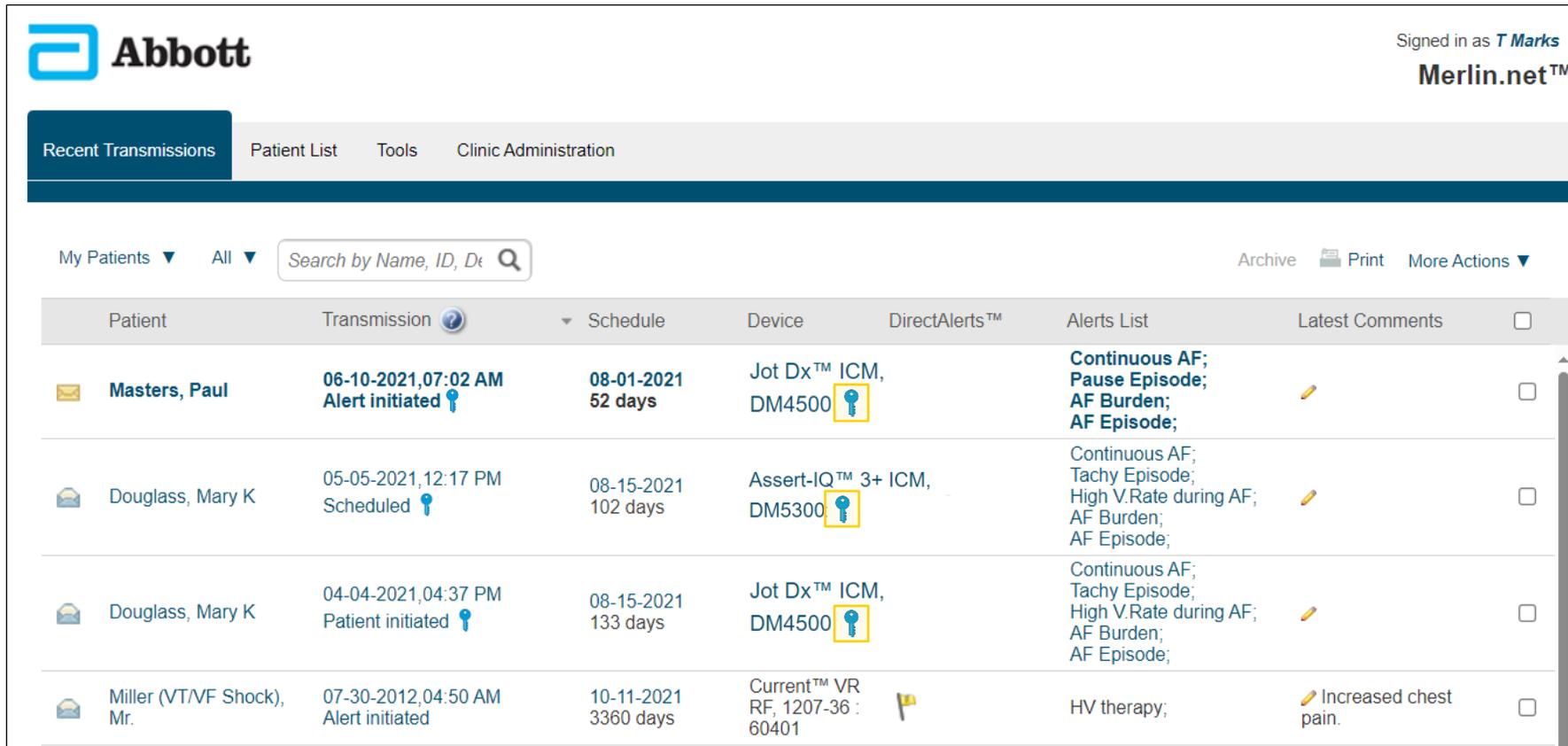
The screenshot displays the Abbott Merlin.net Patient Care Network interface. At the top, the user is signed in as T Marks. The navigation bar includes 'Recent Transmissions', 'Patient List', 'Tools', and 'Clinic Administration' (highlighted with a yellow box). The left sidebar lists various administration options, with 'Clinic Settings' and 'Report Settings' (highlighted with a yellow box) selected. The main content area is titled 'Report Settings' and includes an 'Edit' button. It contains several sections of settings:

- For a session, always print:** A collection of checkboxes for report content, including 'Select All', 'Summary', 'All Alerts and Episodes', 'All Diagnostics', 'All Tests', 'ICD/Pacemaker', and 'Cardiac Monitor'.
- Cover Sheet:** A section for report formatting, including 'Always print cover sheet', 'And include:' (with sub-options for Patient name, Clinic name, Comment box, Medical Team, Page number, and Today's date), and 'Always print comments starting 90 days prior to print date'.
- Other Features:** A section with 'Do not show alerts for available device upgrades' and 'Identify Key Episodes' (highlighted with a yellow box).

KEY EPISODES

Key Episodes Icon

KEY EPISODES ICON () WILL BE DISPLAYED WHEN THE FEATURE IS ENABLED



The screenshot shows the Abbott Merlin.net interface. At the top left is the Abbott logo. At the top right, it says "Signed in as T Marks" and "Merlin.net™". Below the logo is a navigation bar with "Recent Transmissions" (selected), "Patient List", "Tools", and "Clinic Administration". Below the navigation bar is a search bar with "My Patients" and "All" dropdowns, and a search input field containing "Search by Name, ID, Dc". To the right of the search bar are "Archive", "Print", and "More Actions" options. The main content is a table with the following columns: Patient, Transmission, Schedule, Device, DirectAlerts™, Alerts List, and Latest Comments. The table contains four rows of data. The first row for "Masters, Paul" has a key icon in the Transmission column and the Device "Jot Dx™ ICM, DM4500" also has a key icon. The second row for "Douglass, Mary K" has a key icon in the Transmission column and the Device "Assert-IQ™ 3+ ICM, DM5300" also has a key icon. The third row for "Douglass, Mary K" has a key icon in the Transmission column and the Device "Jot Dx™ ICM, DM4500" also has a key icon. The fourth row for "Miller (VT/VF Shock), Mr." has a flag icon in the DirectAlerts™ column. The Alerts List column contains text such as "Continuous AF; Pause Episode; AF Burden; AF Episode;" and "Continuous AF; Tachy Episode; High V.Rate during AF; AF Burden; AF Episode;". The Latest Comments column contains "Increased chest pain."

Patient	Transmission 	Schedule	Device	DirectAlerts™	Alerts List	Latest Comments	<input type="checkbox"/>
 Masters, Paul	06-10-2021, 07:02 AM Alert initiated 	08-01-2021 52 days	Jot Dx™ ICM, DM4500 		Continuous AF; Pause Episode; AF Burden; AF Episode;		<input type="checkbox"/>
 Douglass, Mary K	05-05-2021, 12:17 PM Scheduled 	08-15-2021 102 days	Assert-IQ™ 3+ ICM, DM5300 		Continuous AF; Tachy Episode; High V.Rate during AF; AF Burden; AF Episode;		<input type="checkbox"/>
 Douglass, Mary K	04-04-2021, 04:37 PM Patient initiated 	08-15-2021 133 days	Jot Dx™ ICM, DM4500 		Continuous AF; Tachy Episode; High V.Rate during AF; AF Burden; AF Episode;		<input type="checkbox"/>
 Miller (VT/VF Shock), Mr.	07-30-2012, 04:50 AM Alert initiated	10-11-2021 3360 days	Current™ VR RF, 1207-36 : 60401		HV therapy;	 Increased chest pain.	<input type="checkbox"/>

TAKING CONTROL OF YOUR ICM DATA BURDEN

Remote Programming

REMOTE PROGRAMMING

NEW Remote Programming with Assert-IQ™ ICM

ASSERT-IQ ICM REMOTE PROGRAMMING MEETS PATIENTS WHERE THEY ARE



- Improves efficiency for our customers
- Patient does not need to travel to the clinic
- Clinician remotely programs the device parameters via Merlin.net™ PCN web application*
- Device is re-programmed via the myMerlin™ mobile app
- No patient intervention needed

*Available on DM5300/DM5500

Assert-IQ™
Insertable Cardiac Monitor (ICM)

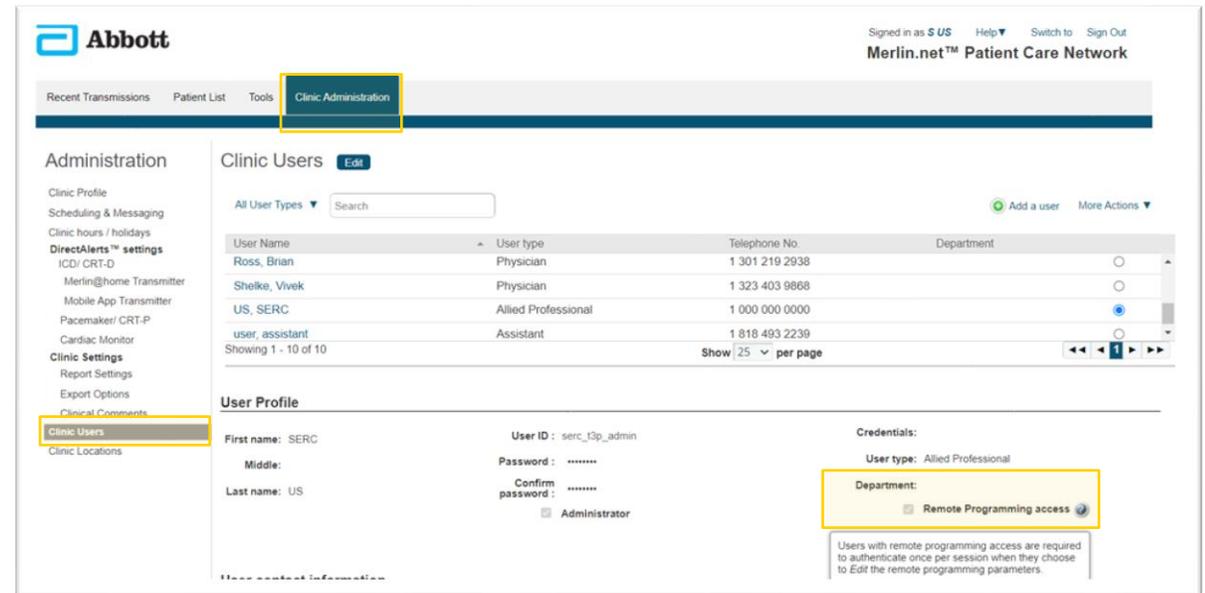
Remote Programming Access

Remote Programming (RP) access is programmable through Merlin.net™ PCN.

RP access is limited to users with RP programmability.

- Users registered as Allied Professionals, Physicians, or Default Clinic settings will all have access to RP automatically
- RP access is not available for users registered as Assistants
- New Users will nominally be given RP access

We highly encourage ALL clinic administrators to review their clinic users' RP privileges.

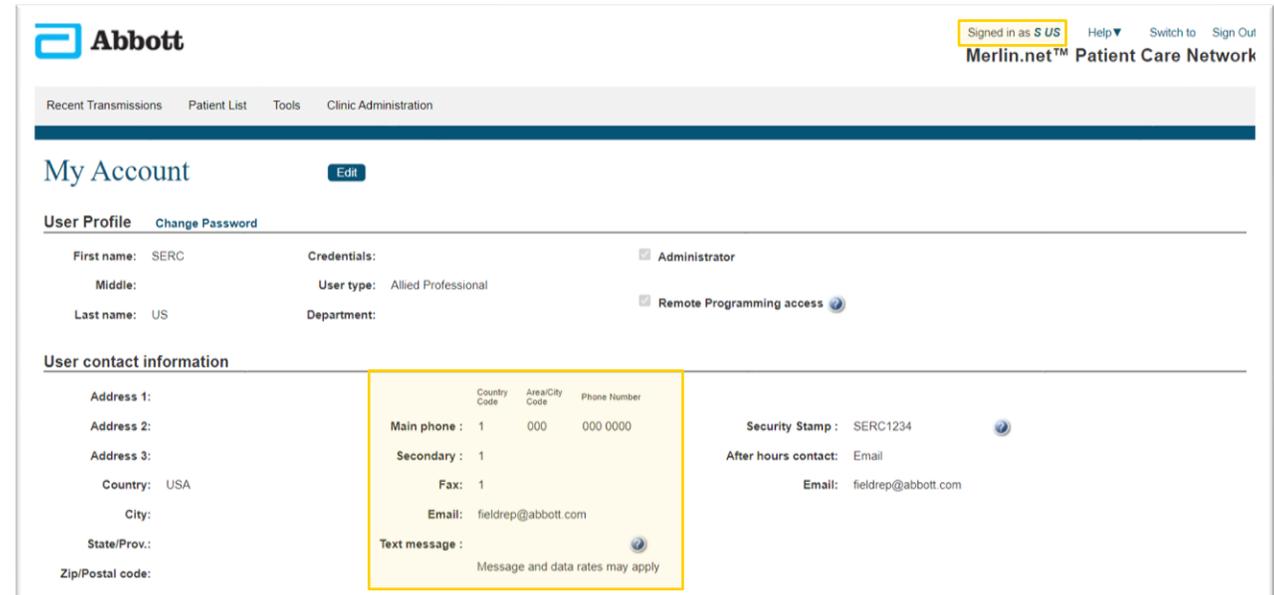


Clinic administrators can edit RP access for the entire clinic under the “Clinic Administration” tab and navigate to “Clinic Users”. RP programmability is located on the bottom right of each User Profile.

Update User Contact Information

Abbott representatives and clinicians will be prompted for 2-Factor Authentication (2-FA) once per login session when making remote programming changes.

- Text or email verification can be used to receive the 2-FA code.
- The phone number and email address listed under the “User Profile” will be used for 2-FA. Please ensure this information is up to date under your profile settings.



User account information can be accessed by clicking on your login username on the top right corner. Select “Edit” to change your contact information.

Clinician Remote Programming Workflow

ACCESSING THE REMOTE PROGRAMMING (RP) TAB

Find the patient for which you want to make RP changes and navigate to their Patient Profile.

The “Remote Programming” section can be found on the left.

1

The screenshot shows the Abbott Merlin.net Patient Care Network interface. The top navigation bar includes 'Recent Transmissions', 'Patient List', 'Tools', and 'Clinic Administration'. The 'Patient List' tab is active, and the 'Patient profile' sub-tab is highlighted. The patient's name is 'Education #1 Demo' and the device ID is 'Assert-IQ™ EL+ ICM, DM5500'. The 'Remote Programming' section is highlighted in a purple bar with an 'EDIT' button. Below this, a table displays patient data:

Follow-up Schedule	Parameters last	Connectivity	Latest transmission	Last Programming	Reason for Monitoring
DirectAlerts™ Notification	checked on	No Communication	04-24-2023 10:41 AM	04-24-2023 10:41 AM	Suspected AF
Remote Programming	04-24-2023 10:41 AM	9 days		Programming History	

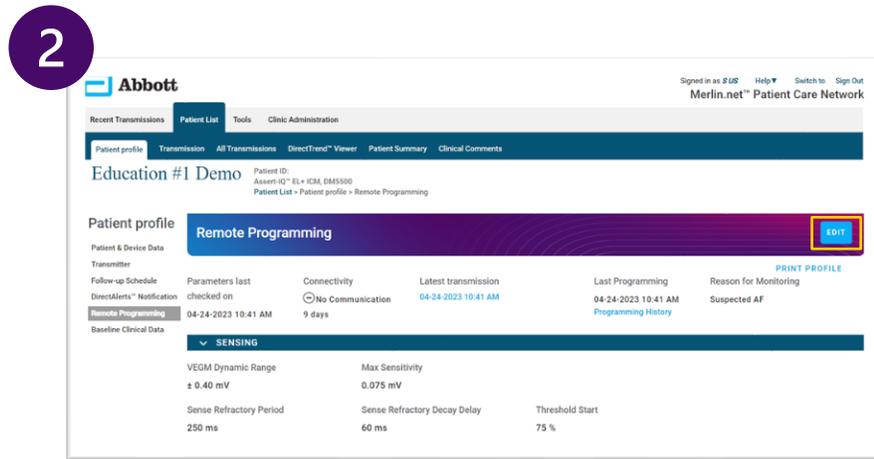
Below the table, the 'SENSING' section is expanded, showing the following parameters:

Parameter	Value
VEGM Dynamic Range	± 0.40 mV
Max Sensitivity	0.075 mV
Sense Refractory Period	250 ms
Sense Refractory Decay Delay	60 ms
Threshold Start	75 %

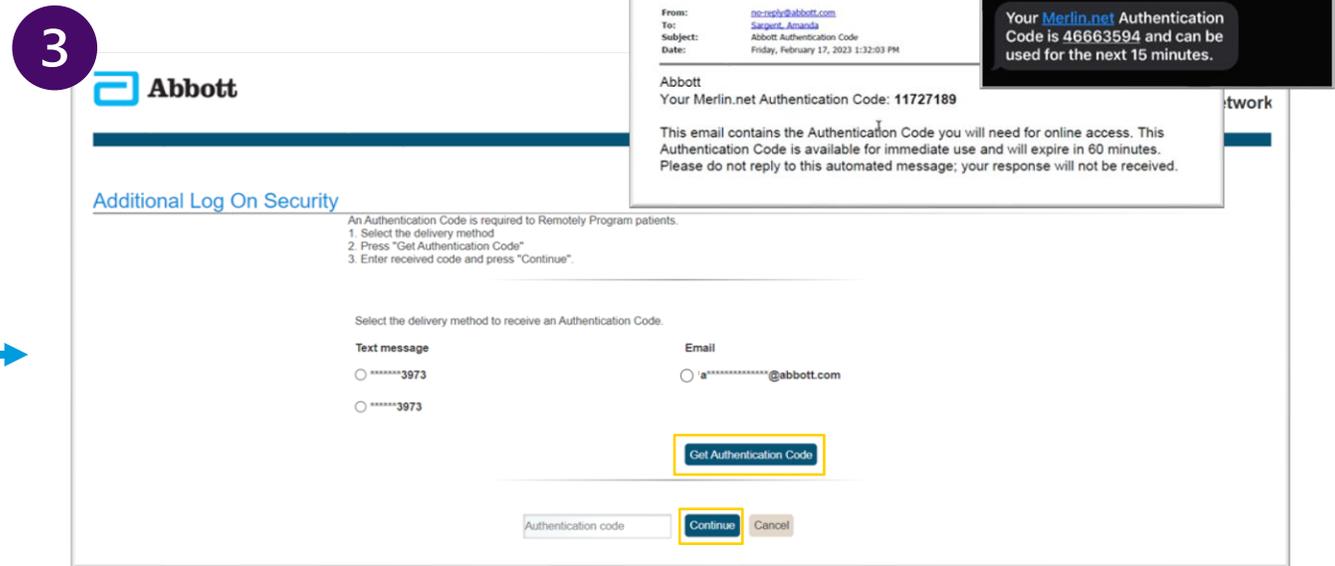
REMOTE PROGRAMMING

Clinician Remote Programming Workflow

2-FACTOR AUTHENTICATION



Clinician must select **Edit** on the Remote Programming tab to begin a RP session.



The Clinician will be prompted for an 8-digit authentication code to verify their identity before a RP request can be made. The code can be received via email or text, and once the preferred method is selected, the user clicks “**Get Authentication Code**”.

Once code is received, insert code in the provided box and select “**Continue**”.

Clinician Remote Programming Workflow

SELECT PARAMETER CHANGES NEEDED AND REVIEW

When a parameter is selected, a dropdown menu of all available settings will be displayed. The list will show a “P” next to the parameter that is currently programmed.

Parameters that have changed will be highlighted in a purple box.

Once finished, select “**Save**”.

Note: Reason for Monitoring and Patient Name/DOB cannot be programmed through RP. Posture IQ insight can only be programmed if calibration setup has been completed.

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Remote Programming

Parameters last checked on: 04-24-2023 10:41 AM
Connectivity: No Communication (9 days)
Latest transmission: 04-24-2023 10:41 AM
Last Programming: 04-24-2023 10:41 AM
Reason for Monitoring: Suspected AF

SENSING

VEGM Dynamic Range: ± 0.40 mV
Max Sensitivity: 0.1 mV
Sense Refractory Period: 275 ms
Sense Refractory Decay Delay: 60 ms
Threshold Start: 75%

EPISODE AND ALERTS SETTINGS

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	6 min	High	
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	3 hours	n/a	
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	100 bpm for 6 hours	n/a	
Tachy Episode	<input checked="" type="checkbox"/>	165 bpm for 12 intervals	Low	
Brady Episode	<input checked="" type="checkbox"/>	30 bpm	Low	
Pause Episode	<input checked="" type="checkbox"/>	3.0 sec	Low	
Symptom Episode	<input checked="" type="checkbox"/>	On (with Detect)	High	<input checked="" type="checkbox"/>

STORED EGM SETTINGS
DETECTION QUALIFIER
ADDITIONAL SETTINGS

5

EDUCATION #1, DEMO
ASSERT-IQ™ EL+ ICM, DM5500: 511001788
SERC_T3P_ADMIN

Programming Changes

EPISODE AND ALERTS SETTINGS	INITIAL	PROPOSED
AF Burden: Total Time in AF	6 hours	3 hours
Pause Duration	4.0 sec	3.0 sec

SENSING	INITIAL	PROPOSED
Max Sensitivity	0.075 mV	0.1 mV
Sense Refractory Period	250 ms	275 ms

* Auto-programmed

COMMENTS
I can read comments made by others in this section.

CANCEL CONTINUE

The following screen will prompt the clinician to review the proposed changes.

If the proposed changes look correct, select “**Continue**”.

REMOTE PROGRAMMING

Clinician Remote Programming Workflow

PENDING CHANGES AND TRANSMISSION

6

Abbott Merlin.net™ Patient Care Network

Patient profile: Remote Programming

The parameter values were sent on 05-05-2023 12:18 PM and are still pending. See Programming History for details.

Parameters last checked on	Connectivity	Latest transmission	Last Programming	Reason for Monitoring
04-24-2023 10:41 AM	No Communication	04-24-2023 10:41 AM	04-24-2023 10:41 AM	Suspected AF

SENSING

VEGM Dynamic Range	Max Sensitivity	
± 0.40 mV	0.075 mV	
Sense Refractory Period	Sense Refractory Decay Delay	Threshold Start
250 ms	60 ms	75 %

A yellow banner will appear on the RP screen notifying the clinician that the requested RP changes are pending.

7

Abbott

Recent Transmissions Patient List Tools

Patient	Transmission	Schedule	Device
Smith, John	05-11-2022 12:24 PM Remote Programming	02-27-2023 200 days	Assert IQ™ 7=ICM DM5300 : 511002169

Remote Programming Summary Report

Patient: Smith, Sarah
Assert-IQ™ 3+ ICM, DM5300: 511002858

01-10-2023 04:42 PM Remote

Page 1 of 2

Patient Date of birth: 01-01-1957 Reason for Monitoring: Other

Notes: Episodes and Stored EGMs cleared, Diagnostics cleared, Test Updates

Programming Changes	Initial	Present
Sensing		
Max Sensitivity	0.125 mV	0.175 mV
Sense Refractory Decay Delay	60 ms	30 ms
Episode and Alerts Settings	Initial	Present
AF Duration	10 min	2 min
Continuous AF threshold	30 min	*6 min
All Present Parameters		
Sensing		Present
Max Sensitivity	0.175 mV	
Sense Refractory Decay Delay	30 ms	
Sense Refractory Period	250 ms	
Threshold Start	75 %	
VEGM Dynamic Range	± 0.40 mV	
Episode and Alerts Settings	Present	
AF Burden Alert	On	
AF Burden: Total Time in AF	6 hours	
AF Duration	2 min	
AF EGM Trigger Priority	High	
AF Episode Detection	On	
Brady Cutoff Rate	30 bpm	
Brady EGM Trigger Priority	High	
Brady Episode Detection	On	
Continuous AF Episode Alerts	On	
Continuous AF threshold	6 min	
High V Rate Threshold	100 bpm	
Pause Duration	3.0 sec	

Assert-IQ™ 3+ ICM, DM5300(511002858 p04.20.71.00)
myMerlin™APP1000 v2.0.0 MN7000 v0.21.rev3

Remote Programming Summary Report Page 1 of 2
01-10-2023 04:42 PM

Once the parameter changes are successful, a RP transmission will be shown on the “**Recent Transmissions**” tab.

A summary report with details of the changes and notes (if applicable) will be included with the transmission.

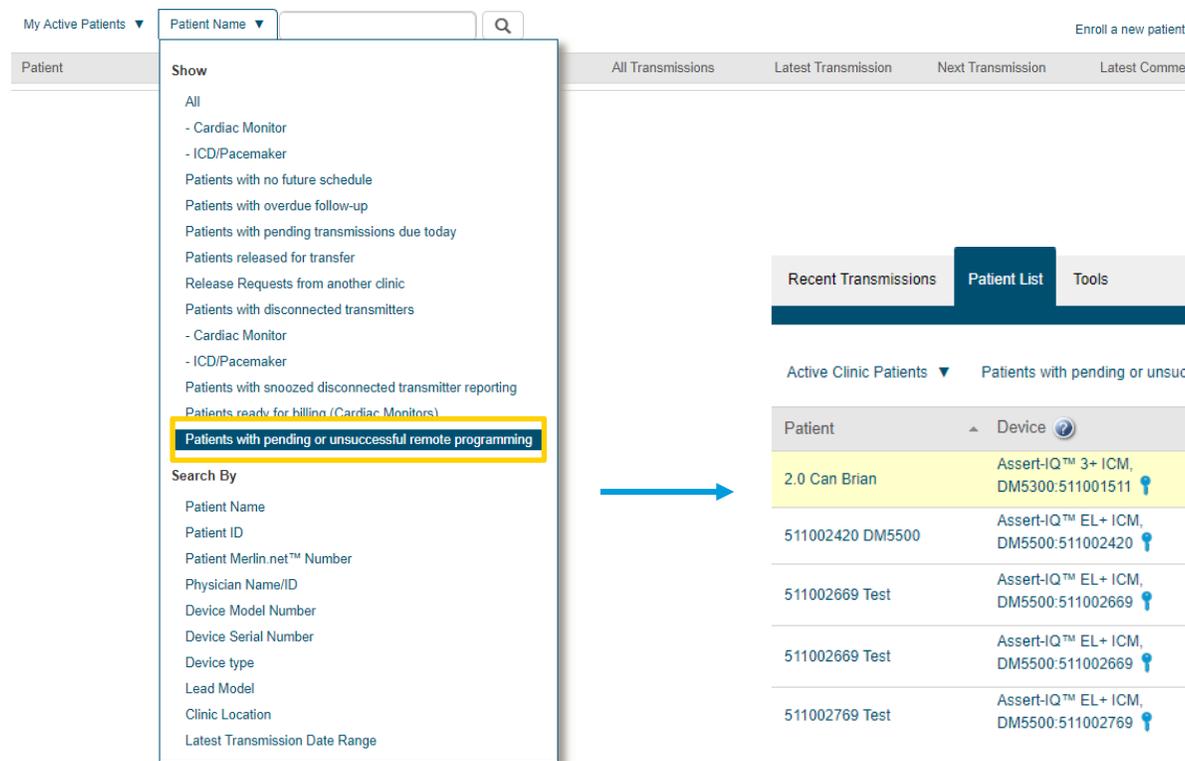
New Patient List Filter



Under “**Patient List**”, there is a new filter called “**Patients with pending or unsuccessful remote programming**”.

This lists patients with pending or failed RP requests, but it will not give a reason.

Reminder: If a RP request is successful, a transmission will come through and be seen under “**Recent Transmissions**”.



Patient	Device	Remote Programming	Latest Transmission	Next Transmission	Connectivity	Last Transmitter Communication
2.0 Can Brian	Assert-IQ™ 3+ ICM, DM5300:511001511	Pending	08-19-2022 03:08 PM	04-23-2023 247 days	No Communication >30 days	08-22-2022
511002420 DM5500	Assert-IQ™ EL+ ICM, DM5500:511002420	03-02-2023 09:09 AM Failed	03-14-2023 09:54 AM	04-23-2023 40 days	No Communication 17 days	03-20-2023
511002669 Test	Assert-IQ™ EL+ ICM, DM5500:511002669	Failed	12-22-2022 11:49 PM	04-23-2023 122 days	No Communication >30 days	12-24-2022
511002669 Test	Assert-IQ™ EL+ ICM, DM5500:511002669	Failed	12-22-2022 11:49 PM	04-23-2023 122 days	No Communication >30 days	12-24-2022
511002769 Test	Assert-IQ™ EL+ ICM, DM5500:511002769	02-10-2023 09:15 AM Failed	01-21-2023 04:11 AM	04-23-2023 92 days	No Communication >30 days	01-23-2023

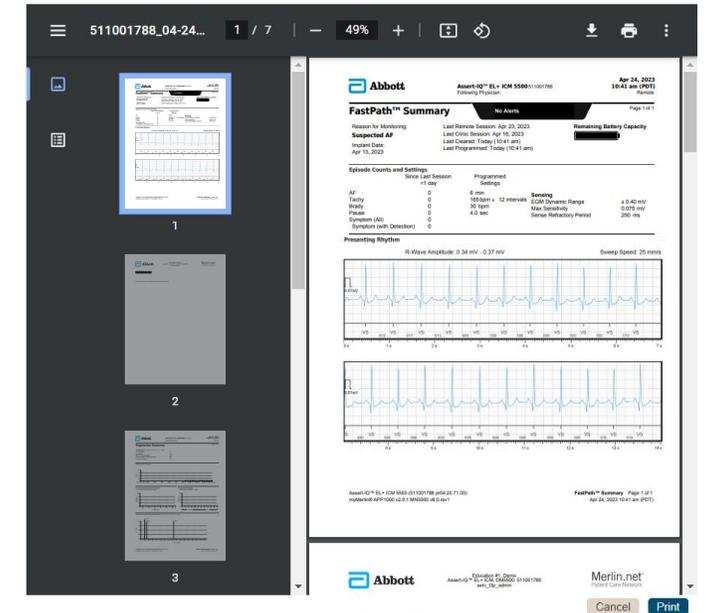
REMOTE PROGRAMMING

Additional Remote Programming Details

Connectivity status, latest transmission report, remote programming history, and indication for monitoring are all conveniently located on the top of the RP page.

The screenshot shows the 'Remote Programming' interface. At the top, there are buttons for 'CANCEL' and 'SAVE', and a 'PRINT PROFILE' link. Below this, there are several status indicators: 'Parameters last checked on' (08-23-2022), 'Connectivity' (green checkmark), 'Latest transmission' (08-23-2022 5:29 PM, highlighted with a yellow box), 'Last Programming' (08-23-2022), and 'Reason for Monitoring' (Ventricular Tachycardia). There are also links for 'Programming History' and 'PRINT PROFILE'. The interface is divided into sections: 'SENSING' and 'EPISODE AND ALERTS SETTINGS'. The 'SENSING' section includes dropdown menus for 'VEGM Dynamic Range' (± 0.40 mV), 'Max Sensitivity' (0.125 mV), 'Sense Refractory Period' (250 ms), 'Sense Refractory Decay Delay' (60 ms), and 'Threshold Start' (75 %). The 'EPISODE AND ALERTS SETTINGS' section contains a table with columns for 'EPISODE AND ALERTS', 'DETECTION', 'SETTING', 'EGM TRIGGER PRIORITY', and 'DIRECTALETS™'. A dropdown menu is open over the 'SETTING' column, showing options for 'AF Burden Alert (Daily)' (3 hours), 'V. Rate during AF Alert (Daily)' (1 hour, 3 hours, 6 hours, 9 hours, 12 hours, 24 hours, 30 min), and 'Symptom Episode' (On (with Detect)).

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALETS™
AF Episode	<input checked="" type="checkbox"/>	2 min	Low	<input checked="" type="checkbox"/>
Continuous AF Episode Alert	<input type="checkbox"/>	n/a	n/a	<input checked="" type="checkbox"/>
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	3 hours	n/a	<input checked="" type="checkbox"/>
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	1 hour 3 hours 6 hours 9 hours 12 hours 24 hours 30 min	for 6 hours	<input checked="" type="checkbox"/>
Tachy Episode	<input checked="" type="checkbox"/>	for 12 intervals	High	<input checked="" type="checkbox"/>
Brady Episode	<input checked="" type="checkbox"/>		Low	<input checked="" type="checkbox"/>
Pause Episode	<input checked="" type="checkbox"/>	3.0 sec	Low	<input checked="" type="checkbox"/>
Symptom Episode	<input checked="" type="checkbox"/>	On (with Detect)	High	<input checked="" type="checkbox"/>



Selecting the date under “Latest Transmission” will open the most recent transmission report.

REMOTE PROGRAMMING

Additional Remote Programming Details

Connectivity status, latest transmission report, remote programming history, and indication for monitoring are all conveniently located on the top of the RP page.

The screenshot shows the 'Remote Programming' interface. At the top, there are buttons for 'CANCEL' and 'SAVE'. Below this, there are several status indicators: 'Parameters last checked on 08-23-2022', 'Connectivity' (checked), 'Latest transmission 08-23-2022 5:29 PM', 'Last Programming 08-23-2022', and 'Reason for Monitoring Ventricular Tachycardia'. A 'PRINT PROFILE' button is also present. A 'Programming History' link is highlighted with a yellow box and a blue arrow pointing to the right. Below these are sections for 'SENSING' (VEGM Dynamic Range, Max Sensitivity, Sense Refractory Period, Sense Refractory Decay Delay, Threshold Start) and 'EPISODE AND ALERTS SETTINGS' (a table of episode and alert settings).

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	2 min	Low	<input checked="" type="checkbox"/>
Continuous AF Episode Alert	<input type="checkbox"/>	n/a	n/a	<input checked="" type="checkbox"/>
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	3 hours	n/a	<input checked="" type="checkbox"/>
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	1 hour 3 hours 6 hours 9 hours 12 hours 24 hours 30 min	for 6 hours	<input checked="" type="checkbox"/>
Tachy Episode	<input checked="" type="checkbox"/>	for 12 intervals	High	<input checked="" type="checkbox"/>
Brady Episode	<input checked="" type="checkbox"/>		Low	<input checked="" type="checkbox"/>
Pause Episode	<input checked="" type="checkbox"/>	3.0 sec	Low	<input checked="" type="checkbox"/>
Symptom Episode	<input checked="" type="checkbox"/>	On (with Detect)	High	<input checked="" type="checkbox"/>

The screenshot shows the 'Merlin.net™ PCN - Remote Programming' history page. It displays a list of programming changes for a patient on 05-15-2021 at 10:59 AM, pending. The page is organized into several sections: 'Episode & Alert Settings', 'Stored EGM Settings', 'Detection Qualifiers', 'Sensing', and 'Others'. Each section lists various parameters with their current 'Initial' values and 'Proposed' values. A legend at the bottom indicates that blue arrows represent manual-programmed changes and black arrows represent auto-programmed changes. A note at the bottom states: 'Note: Too many AF Episodes were noted. Remote programmed by Dr. Brazeal.' A 'Close' button is located at the bottom right.

Programming Changes	Initial	Proposed
Episode & Alert Settings		
AF Burden: Total Time in AF	8 hours	*1 hour
AF Duration	2 min	*0.5 min
AF EGM Trigger Priority	High	*Low
Brady Cutoff Rate	30 bpm	*40 bpm
Brady EGM Trigger Priority	Low	*High
Continuous AF Threshold	8 min	*2 min
High V Rate Threshold	100 bpm	*110 bpm
Pause Duration	3.0 sec	*4.0 sec
Pause EGM Trigger Priority	High	*Low
Tachy Count	12 intervals	*11 intervals
Tachy Cutoff Rate	180 bpm	*175 bpm
Tachy EGM Trigger Priority	Low	*High
Total Time in High V Rate	8 hours	*1 hour
Stored EGM Settings		
AF Post-Trigger Duration	120 sec	*20 sec
AF Pre-Trigger Duration	30 sec	*80 sec
Other Post-Trigger Duration	30 sec	*20 sec
Other Pre-Trigger Duration	30 sec	*40 sec
Symptom Post-Trigger Duration	60 sec	*30 sec
Symptom Pre-Trigger Duration	8 min	*6 min
Detection Qualifiers		
Arrhythmia Detection during Activity	On	*Off
Bigeminy Qualifier	Off	*On
Onset Delta	n/a	*18 %
Sudden Onset	Off	*On
Sensing		
EGM Dynamic Range	± 0.80 mV	*± 0.40 mV
Max Sensitivity	0.125 mV	*0.1 mV
Sense Refractory Decay Delay	60 ms	*30 ms
Sense Refractory Period	250 ms	*225 ms
Threshold Start	75 %	*62.5 %
Others		
Symptom Alert	Initial: On (with Detection)	Proposed: *On (All Symptoms)

“Programming History” will show prior or pending remote programming requests.

REMOTE PROGRAMMING

Additional Remote Programming Details

Connectivity status, latest transmission report, remote programming history, and indication for monitoring are all conveniently located on the top of the RP page.

The screenshot displays the 'Remote Programming' interface. At the top, there are buttons for 'CANCEL' and 'SAVE', and a 'PRINT PROFILE' button highlighted with a yellow box. Below this, a summary section shows 'Parameters last checked on' (08-23-2022), 'Connectivity' (green checkmark), 'Latest transmission' (08-23-2022 5:29 PM), 'Last Programming' (08-23-2022), and 'Reason for Monitoring' (Ventricular Tachycardia). The 'SENSING' section includes dropdowns for 'VEGM Dynamic Range' (± 0.40 mV), 'Max Sensitivity' (0.125 mV), 'Sense Refractory Period' (250 ms), 'Sense Refractory Decay Delay' (60 ms), and 'Threshold Start' (75 %). The 'EPISODE AND ALERTS SETTINGS' section is a table with columns for 'EPISODE AND ALERTS', 'DETECTION', 'SETTING', 'EGM TRIGGER PRIORITY', and 'DIRECTALERTS™'. The table lists settings for AF Episode, Continuous AF Episode Alert, AF Burden Alert (Daily), V. Rate during AF Alert (Daily), Tachy Episode, Brady Episode, Pause Episode, and Symptom Episode. A dropdown menu is open for the 'AF Burden Alert (Daily)' setting, showing options from 1 hour to 30 min. A blue arrow points from the 'PRINT PROFILE' button to the 'Merlin.net™ PCN - Patient Profile' window on the right. This window displays patient details, including Clinic Name, Address, Phone, Fax, Patient Name, Patient ID, Medical Team, Patient Details (Name, Date of Birth, Merlin.net™ number, Clinic Location, Gender, Patient Speaks), Patient Address and Contact (Address 1-3, Phone, Other phone, Email), and Patient Device Information (Device name, Implant Date, Serial #, Implanting Physician). A 'PRINT' button is visible at the bottom right of the patient profile window.

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	2 min	Low	<input checked="" type="checkbox"/>
Continuous AF Episode Alert	<input type="checkbox"/>	n/a	n/a	<input checked="" type="checkbox"/>
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	3 hours	n/a	<input checked="" type="checkbox"/>
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	1 hour for 6 hours	n/a	<input checked="" type="checkbox"/>
Tachy Episode	<input checked="" type="checkbox"/>	12 hours for 12 intervals	High	<input checked="" type="checkbox"/>
Brady Episode	<input checked="" type="checkbox"/>	24 hours	Low	<input checked="" type="checkbox"/>
Pause Episode	<input checked="" type="checkbox"/>	3.0 sec	Low	<input checked="" type="checkbox"/>
Symptom Episode	<input checked="" type="checkbox"/>	On (with Detect)	High	<input checked="" type="checkbox"/>

“Print Profile” will show patient details, contact, and device information. Information can be printed directly from this screen.

Considerations for Reprogramming

UTILITY OF REMOTE REPROGRAMMING FOR NON-ACTIONABLE EPISODES

- Nighttime bradycardia
- Asymptomatic bradycardia, lower brady detection
- Known AF and patient on anticoagulants
- Program to only longer AF episodes
- Known RVR with AF reported as tachycardia episodes
- Non-actionable pause events
- Changes to sensing for false detections

TAKING CONTROL OF YOUR ICM DATA BURDEN

Tips & Best Practices

Key Considerations

- Stay connected
- Detection and alert programming reviews following implant
- Clinical actions
- Identifying challenges in your clinic

SyncUP™ Support Services

EXPERIENCE ENHANCED PATIENT COMPLIANCE

The **SyncUP Support Services** make it easy for patients to set Abbott's ICM remote monitoring from the comfort of their own home, eliminating the need to stay post-implantation to configure the app. This service is the conduit to improved patient compliance and peace of mind. No home-based transmitter or patient activator is needed. The patient simply uses a smartphone.



97%
of patients were compliant
with myMerlin™ mobile app.

*Patients can use an Abbott-provided mobile transmitter if they do not have a smartphone.

ICM Programming Options

DIRECTALERTS™ PER INDICATION

Indication for Monitoring:	Enabled DirectAlerts:
Syncope / Seizures	Symptom, Pause, Brady, Tachy
Cryptogenic Stroke / Suspected AF	AF, Continuous AF
AF Monitoring / AF Management / Post Ablation	AF Threshold, AF Burden
Ventricular Tachycardia	Symptom, Tachy
Palpitations	Suspected AF: Symptom, AF Other: Symptom, Pause, Brady, Tachy

TIPS & BEST PRACTICES

Detection and Alert Parameters

Episode & Alert Settings		Detection	EGM Trigger Priority	Merlin.net DirectAlerts™
AF Episode (10 min)				
Continuous AF Alert (30 min)		<input checked="" type="checkbox"/>	High	<input checked="" type="checkbox"/>
AF Burden Alert (6 hours, Daily)		<input checked="" type="checkbox"/>	n/a	<input checked="" type="checkbox"/>
V Rate During AF Alert (100 bpm for 6 hours, Daily)		<input checked="" type="checkbox"/>	n/a	<input checked="" type="checkbox"/>
Tachy Episode (175 bpm, 16 intervals)		<input checked="" type="checkbox"/>	Low	<input checked="" type="checkbox"/>
Brady Episode (30 bpm)		<input checked="" type="checkbox"/>	Low	<input checked="" type="checkbox"/>
Pause Episode (5.0 sec)		<input checked="" type="checkbox"/>	Low	<input checked="" type="checkbox"/>
Symptom Episode				
On (with Detection)		<input checked="" type="checkbox"/>	High	<input checked="" type="checkbox"/>

Stored EGM Settings			
AF Pre-Trigger Duration	30 sec	Symptom Pre-Trigger Duration	4 min
AF Post-Trigger Duration	30 sec	Symptom Post-Trigger Duration	30 sec
Other Post-Trigger Duration	30 sec	Number of Stored EGMs	First 13
Other Pre-Trigger Duration	30 sec		

Detection Qualifiers			
Activity		Tachy	
Arrhythmia Detection During Activity	On	Bigeminy Qualifier	On
AF		Sudden Onset	On
AF Sensitivity	Balanced	Onset Delta	18 %

Sensing			
VEGM Dynamic Range	± 0.40 mV		
Max Sensitivity	0.075 mV		
Sense Refractory Period	250 ms		
Sense Refractory Decay Delay	60 ms		
Threshold Start	75 %		

Additional Settings			
Activity Trends	On	Posture	On
PVC Burden	On	Most recent Posture Calibration	Oct 18, 2023

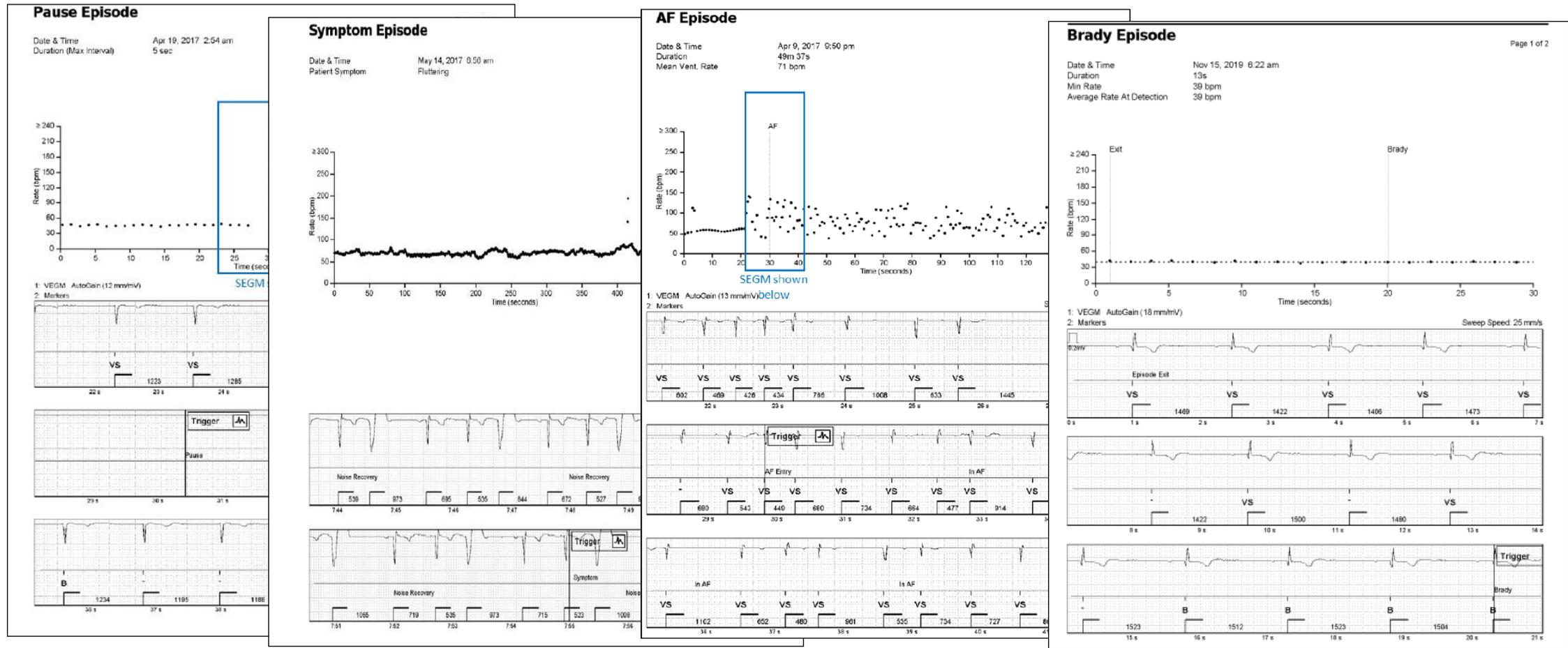
DirectAlerts™ Notification [Edit](#)

Alert Type	Alert Classification		
	Red	Yellow	Off
Device Alerts			
Battery Low	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Parameter Errors	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Monitor at End Of Service	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Device Reset	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitoring Disabled	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Clinical Alerts			
AF Episode	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Continuous AF	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
AF Burden	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
V. Rate during AF	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tachy Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Brady Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Pause Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Symptom Episode	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Record Symptom using Patient App			

TIPS & BEST PRACTICES

Tips for Managing Data

1. TAKE CLINICAL ACTION 2. REPROGRAM 3. CHANGE ALERTS



Real Life Workload “Drivers”

High Volume of “Symptom Event” Triggers

- Utility of patient “**Record Symptom**” option
- Considerations when to use and when to disable
- Patient education/communication

False Event Alerts

- Indication for monitoring drives nominal programming
- Consider standing orders: reprogramming basic parameters

Multiple Episodes with Alert

- New, false, redundant?
- Actionable vs. non-actionable
- Reprogramming options: *Detection and Alerts*

DirectAlerts™ Parameters

OPTIMIZING ALERT NOTIFICATION

DirectAlerts™ Notification

[Edit](#)

Alert Type

Alert Classification

Red Yellow Off

Device Alerts

Battery Low

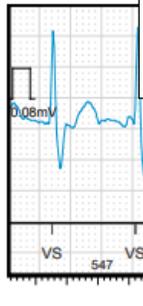
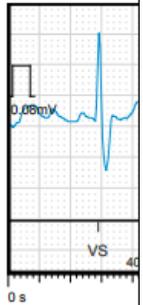
Episode Counts and Settings

Since Last Session
1 day

Programmed
Settings

AF
Tachy
Brady
Pause
Symptom (All)
Symptom (wit

Presenting R



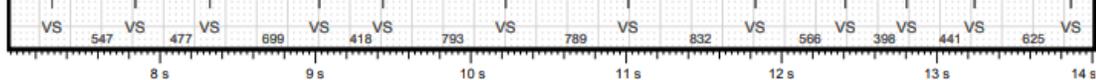
EPISODE AND ALERTS SETTINGS

EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	<input checked="" type="checkbox"/>	10 min	High	<input checked="" type="checkbox"/>
Continuous AF Episode Alert	<input checked="" type="checkbox"/>	30 min	n/a	<input checked="" type="checkbox"/>
AF Burden Alert (Daily)	<input checked="" type="checkbox"/>	24 hours	n/a	<input checked="" type="checkbox"/>
V. Rate during AF Alert (Daily)	<input checked="" type="checkbox"/>	100 bpm for 6 hours	n/a	<input checked="" type="checkbox"/>
Tachy Episode	<input checked="" type="checkbox"/>	160 bpm for 18 intervals	Low	<input checked="" type="checkbox"/>

Pause Episode

Symptom Episode

Record Symptom using Patient App



TIPS & BEST PRACTICES

Episode Review Tools

Transmission Date : 09-16-2020 02:06 AM Export Transmission Print

Summary
FastPath™ Summary
Episodes Summary
Diagnostics Summary

Alerts & episodes
Episodes and EGMs

Parameters
Parameters

Other
View Merged Report

Episode Type: AT/AF Brady Pause Symptom Tachy

Assessment: Appropriate Inappropriate Not Sure Not Assessed

Search

Show Current More Actions

Assessment	Episode Date/Time	Episode Type	Duration	EGM	Transmission Date/Time	<input type="checkbox"/>
	09-16-2020 02:04 AM	AT/AF	-		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-16-2020 01:15 AM	Pause	0:04		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 11:12 PM	AT/AF	16:07		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 10:46 PM	Brady	0:04		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 09:46 PM	AT/AF	16:05		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 09:23 PM	AT/AF	22:24		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 08:20 PM	AT/AF	16:19		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 07:57 PM	AT/AF	20:17		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 06:31 PM	AT/AF	39:27		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 05:05 PM	AT/AF	39:25		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 03:39 PM	AT/AF	21:30		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 02:13 PM	AT/AF	20:42		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 01:10 PM	AT/AF	16:04		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 12:46 PM	AT/AF	20:38		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 11:44 AM	AT/AF	16:05		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 11:20 AM	AT/AF	20:33		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 10:18 AM	AT/AF	16:16		09-16-2020 02:06 AM	<input type="checkbox"/>
	09-15-2020 09:55 AM	AT/AF	20:32		09-16-2020 02:06 AM	<input type="checkbox"/>

Search

Show Current More Actions

- Current
- 1 week
- 2 weeks
- 30 days
- 60 days
- 90 days
- 120 days

Workflow Considerations: Maximizing Merlin.net™ PCN Tools

- Utilize event EGM review options to enhance reports
- Optimize programming
 - Adjust detection parameters
 - Reprogram alerts as needed
 - Remote reprogramming option with Assert-IQ™ ICM

Staffing Resources

CONSIDERATIONS FOR WORKFLOW

- Implant and enrollment
- Verify patient is active in Merlin.net™ PCN and they have connected-tip cards for connection troubleshooting
- Patient follow-up post-implant
- Q&A telephone call or appointment
- Scheduling billable reports in Merlin.net™ and scheduling system
- Routine reporting/billing
- Daily triage for alerts: clinical staff
- Surveillance for disconnected monitors: admin support

Clinic Resources

CONSIDERATIONS FOR PROGRAMMING AND PROTOCOLS

- Address nominal programming
- Address nominal alerts
- Provider triage process
- Reprogramming protocol/standing order for alerts for the clinic
- Reprogramming protocol/standing order for non-actionable data review
- Remote reprogramming permissions
- Clinical lead for addressing protocols and changes

TAKING CONTROL OF YOUR ICM DATA BURDEN

Q & A

References

1. Abbott. Assert-IQ ICM User Manual
2. Medtronic. REVEAL LINQ[‡] LNQ11 Insertable Cardiac Monitor and Patient Assistant PA96000 Clinician Manual. Updated August 26, 2015. Accessed January 17, 2023. https://manuals.medtronic.com/content/dam/emanuals/crdm/CONTRIB_215651.pdf
3. Medtronic. LINQ II[‡] LNQ22 Insertable Cardiac Monitor Clinician Manual. Updated September 01, 2022. Accessed January 17, 2023. https://manuals.medtronic.com/content/dam/emanuals/crdm/M032283C001B_view.pdf
4. HRS 2021 Poster - Reducing Clinical Review Burden of Insertable Cardiac Monitors In Patients with Frequent Arrhythmia Detections
5. EGM Burden Reduction in Jot Dx[™] ICM, Technical Development Report System DOC 90805939 Rev A.
6. Piorkowski C, Shaik NA, Tilz RR, et al. Early Real-World Adoption of Mobile Remote Monitoring Using Confirm Rx Insertable Cardiac Monitor. Presented at Asia Pacific Heart Rhythm Society (APHRS); Taipei, Taiwan; Oct 17-20, 2018

IMPORTANT SAFETY INFORMATION

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mymerlin@abbott.com

INDICATIONS, SAFETY & WARNINGS

Merlin.net™ Patient Care Network (PCN)

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. This product is intended for use by or under the direction of a physician.

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‡ Indicates a third party trademark, which is property of its respective owner.

Assert-IQ™ Insertable Cardiac Monitor

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.

Indications for Use: The Assert-IQ™ ICM is indicated for the monitoring and diagnostic evaluation of patients who experience unexplained symptoms that may be cardiac-related such as: dizziness, palpitations, chest pain, syncope, and shortness of breath, as well as patients who are at risk for cardiac arrhythmias such as bradycardia, tachycardia, and sinus pauses.

The Assert-IQ ICM is also indicated for patients who have been previously diagnosed with atrial fibrillation (AF) or who are susceptible to developing AF. The Assert-IQ ICM is intended to be inserted subcutaneously in the left pectoral region, also described as the left anterior chest wall. The Assert-IQ ICM has not been specifically tested for pediatric use.

Intended Use: The Assert-IQ ICM is intended to help physicians and clinicians monitor, diagnose and document the heart rhythm in patients who are susceptible to cardiac arrhythmias and unexplained symptoms by detecting arrhythmias and transmitting data for review.

Contraindications: There are no known contraindications for the insertion of the Assert-IQ ICM. However, the patient's particular medical condition may dictate whether or not a subcutaneous, chronically inserted device can be tolerated.

Potential Adverse Events: Possible adverse events (in alphabetical order) associated with the device, include the following: allergic reaction, bleeding, chronic nerve damage, erosion, excessive fibrotic tissue growth, extrusion, formation of hematomas or cysts, infection, keloid formation and migration.

Refer to the User's Manual for detailed indications for use, contraindications, warnings, precautions and potential adverse events. An Abbott mobile transmitter is available for patients without their own compatible mobile device. ™ Indicates a trademark of the Abbott group of companies.

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