



ASSERT-IQ™
INSERTABLE CARDIAC MONITOR (ICM)



MERLIN.NET™ PCN

REMOTE PROGRAMMING GUIDE

FLEXIBLE WORKFLOW TO OPTIMIZE PATIENT CARE

The Assert-IQ™ Insertable Cardiac Monitor (ICM) features the longest lasting battery at full performance, delivering clinically actionable data, IQ insights that go beyond diagnostics, and remote programmability. Remote programming allows you to adjust the settings of the device, optimize performance, and limit unnecessary alerts or transmissions for connected devices - all without requiring the patient to visit the clinic.

REMOTE PROGRAMMING IN THE MERLIN.NET™ PCN IS **EASY, INTUITIVE, AND SECURE**



**CLINICIAN INITIATES
REPROGRAMMING
REQUEST** via
Merlin.net PCN.

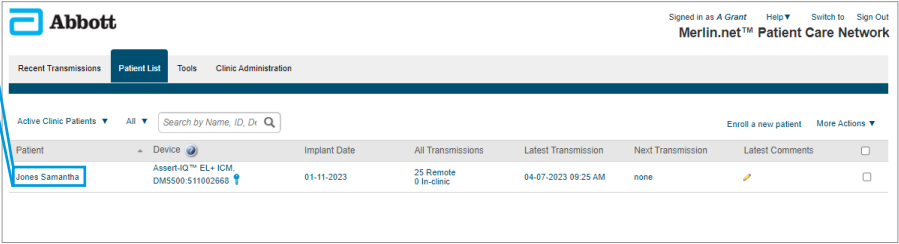
Reprogramming request
is **TRANSMITTED TO
THE PATIENT myMerlin™
Mobile App** on a connected
device without the need for
an office visit.

**NEW
SETTINGS
ARE SENT
TO THE
CONNECTED
DEVICE.**

STEP 1: INITIATE A REMOTE PROGRAMMING SESSION

Once you have identified a patient who needs device optimization, **click on the patient name to go to the Patient Profile tab.**

Jones, Samantha

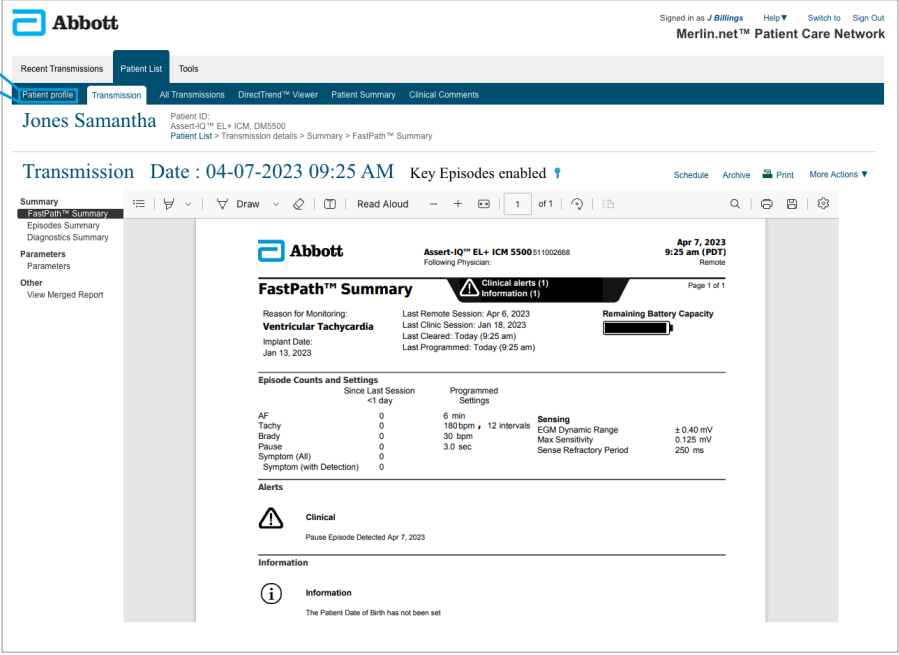


The screenshot shows the Abbott Merlin.net Patient Care Network interface. The 'Patient List' tab is selected. A table lists patients, with 'Jones, Samantha' highlighted. The table columns are Patient, Device, Implant Date, All Transmissions, Latest Transmission, Next Transmission, and Latest Comments. The patient's device is 'Assert-IQ™ EL+ ICM, DM5500-511002665' and the implant date is '01-11-2023'.

Patient	Device	Implant Date	All Transmissions	Latest Transmission	Next Transmission	Latest Comments
Jones, Samantha	Assert-IQ™ EL+ ICM, DM5500-511002665	01-11-2023	25 Remote 0 In-clinic	04-07-2023 09:25 AM	none	

If you are viewing a transmission and want to make setting adjustments for that patient, the Patient Profile tab is on the left.

Patient Profile



The screenshot shows the Abbott Merlin.net Patient Care Network interface with the 'Patient Profile' tab selected for 'Jones, Samantha'. The 'FastPath™ Summary' is displayed, showing patient information, transmission details, and clinical alerts. The patient's device is 'Assert-IQ™ EL+ ICM 5500-511002665' and the transmission date is '04-07-2023 09:25 AM'. The summary includes a 'Reason for Monitoring' of 'Ventricular Tachycardia', 'Last Remote Session' of 'Apr 6, 2023', and 'Last Clinic Session' of 'Jan 18, 2023'. It also shows 'Episode Counts and Settings' for AF, Tachy, Brady, Pause, and Symptom (All), along with 'Programmed Settings' for 6 min, 180bpm, 12 intervals, 30 bpm, and 3.0 sec. Clinical alerts include 'Pause Episode Detected Apr 7, 2023'.

FastPath™ Summary

Reason for Monitoring: **Ventricular Tachycardia**

Last Remote Session: Apr 6, 2023
Last Clinic Session: Jan 18, 2023
Implant Date: Jan 13, 2023
Last Cleared: Today (9:25 am)
Last Programmed: Today (9:25 am)

Episode Counts and Settings

	Since Last Session <1 day	Programmed Settings
AF	0	6 min
Tachy	0	180bpm • 12 intervals
Brady	0	30 bpm
Pause	0	3.0 sec
Symptom (All)	0	
Symptom (with Detection)	0	

Programmed Settings

	Settings
Sensing	± 0.40 mV
ECG Dynamic Range	0.125 mV
Max Sensitivity	250 ms
Sense Refractory Period	

Alerts

Clinical
Pause Episode Detected Apr 7, 2023

Information
The Patient Date of Birth has not been set

Click on **Remote Programming** from the left column then click **Edit** to initiate a remote programming session.

Remote Programming

Abbott Signed in as J.Billings Help Switch to Sign Out
Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assent-IQ™ EL+ ICM, DM5500
Patient List > Patient profile > Remote Programming

Patient profile Remote Programming **EDIT**

PRINT PROFILE

Parameters last checked on 04-10-2023 02:01 AM Connectivity Latest transmission 04-07-2023 09:25 AM Last Programming 04-07-2023 09:25 AM Reason for Monitoring Ventricular Tachycardia
DirectAlerts™ Notification Programming History

Baseline Clinical Data

SENSING

VEGM Dynamic Range ± 0.40 mV Max Sensitivity 0.125 mV

Sense Refractory Period 250 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	☒	6 min	High	
Continuous AF Episode Alert	☒	30 min	n/a	
AF Burden Alert (Daily)	☒	9 hours	n/a	
V. Rate during AF Alert (Daily)	☒	100 bpm for 6 hours	n/a	
Tachy Episode	☒	180 bpm for 12 intervals	High	

Abbott Signed in as J.Billings Help Switch to Sign Out
Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assent-IQ™ EL+ ICM, DM5500
Patient List > Patient profile > Remote Programming

Patient profile Remote Programming **EDIT**

PRINT PROFILE

Parameters last checked on 04-10-2023 02:01 AM Connectivity Latest transmission 04-07-2023 09:25 AM Last Programming 04-07-2023 09:25 AM Reason for Monitoring Ventricular Tachycardia
DirectAlerts™ Notification Programming History

Baseline Clinical Data

SENSING

VEGM Dynamic Range ± 0.40 mV Max Sensitivity 0.125 mV

Sense Refractory Period 250 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	☒	6 min	High	
Continuous AF Episode Alert	☒	30 min	n/a	
AF Burden Alert (Daily)	☒	9 hours	n/a	
V. Rate during AF Alert (Daily)	☒	100 bpm for 6 hours	n/a	
Tachy Episode	☒	180 bpm for 12 intervals	High	

STEP 2: TWO-FACTOR AUTHENTICATION

You can choose to complete the two-factor authentication process with a **text message or email**. You will only complete this process once per Merlin.net™ PCN session. *This is a secure process to ensure only authorized personnel make programming changes.*

Additional Log On Security

An Authentication Code is required to Remotely Program patients.
1. Select the delivery method
2. Press "Get Authentication Code"
3. Enter received code and press "Continue".

Select the delivery method to receive an Authentication Code.

Text message
☐ *****7890

Email
☒ n*****@gmail.com

Get Authentication Code

Authentication code **Continue** **Cancel**

STEP 3: MAKE SETTING ADJUSTMENTS REMOTELY & SAVE

Begin making the desired setting adjustments to optimize your patient's device. **Click Save.**

Abbott Signed in as A Grant Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools Clinic Administration

Patient profile Transmission All Transmissions DirectTrend™ Viewer Patient Summary Clinical Comments

Jones Samantha Patient ID: Assert-IQ™ EL+ ICM, DM5500 Recent Transmissions > Patient profile > Remote Programming

Remote Programming CANCEL **SAVE**

PRINT PROFILE

Patient & Device Data
Transmitter
Follow-up Schedule
DirectAlerts™ Notification
Remote Programming
Baseline Clinical Data

Parameters last checked on 04-10-2023 02:01 AM
Connectivity
Latest transmission 04-07-2023 09:25 AM
Last Programming 04-07-2023 09:25 AM
Reason for Monitoring Ventricular Tachycardia
Programming History

SENSING

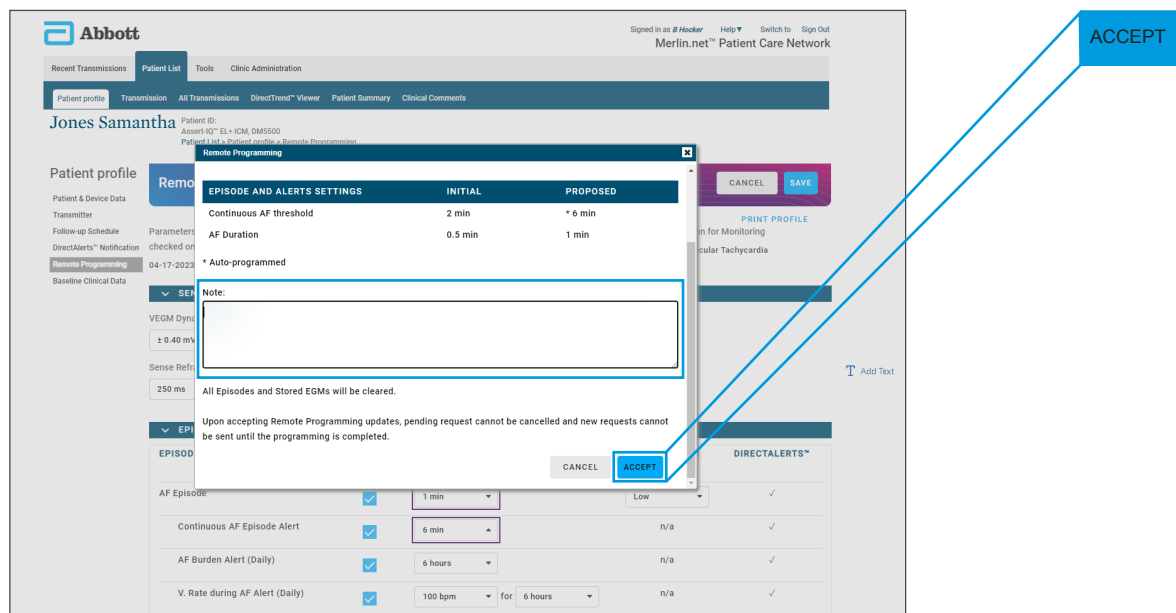
VEGM Dynamic Range ± 0.40 mV
Max Sensitivity 0.125 mV
Sense Refractory Period 250 ms
Sense Refractory Decay Delay 60 ms
Threshold Start 75 %

EPISODE AND ALERTS SETTINGS

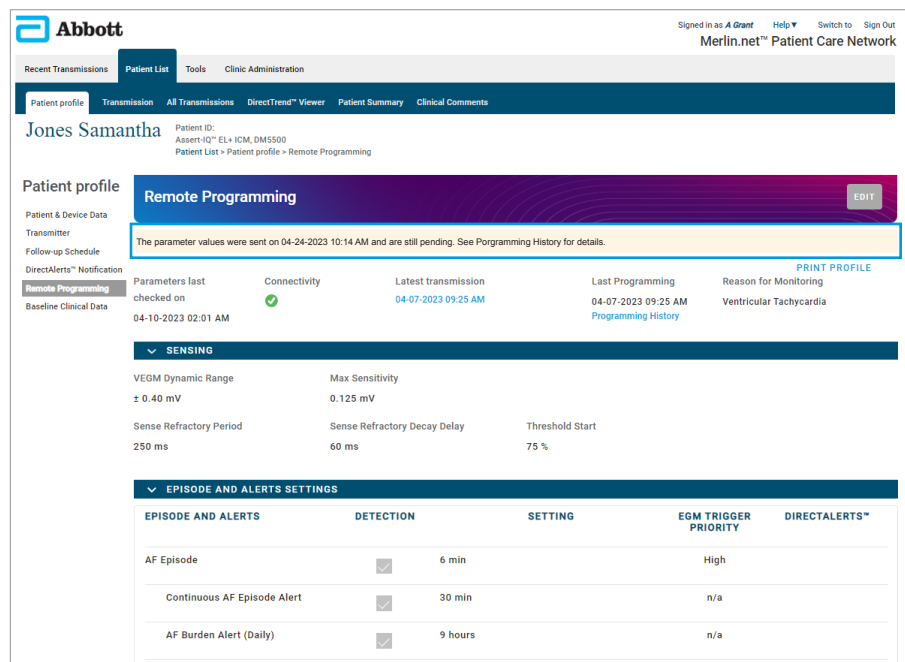
EPISODE AND ALERTS	DETECTION	SETTING	EGM TRIGGER PRIORITY	DIRECTALERTS™
AF Episode	☒	10 min	Low	
Continuous AF Episode Alert	☒	30 min	n/a	
AF Burden Alert (Daily)	☒	9 hours	n/a	
V. Rate during AF Alert (Daily)	☒	100 bpm for 6 hours	n/a	

Click Accept.

You can record any notes for this remote programming session in the notes section.



The pending status banner confirms the remote programming changes were sent to the patient’s myMerlin™ Mobile App.



Once the myMerlin™ Mobile App is connected to the patient's Assert-IQ™ ICM, the adjustments will be made to the device.

You can view the status of all remote programming sessions by clicking on the **Patient List** tab and filtering the results by **Patients with pending or unsuccessful remote programming**. Once the remote programming changes are made to the patient's Assert-IQ ICM, a transmission will show in the **Recent Transmission** tab with a date and time stamp.

The screenshot shows the Merlin.net Patient Care Network interface. The top navigation bar includes the Abbott logo, user information (Signed in as A Grant), and links for Help, Switch to, and Sign Out. The main navigation tabs are Recent Transmissions, Patient List (selected), Tools, and Clinic Administration. Below the tabs, there's a section for Active Clinic Patients with a dropdown menu set to 'All' and a search bar. A dropdown menu is open under 'Show', listing various filters. The filter 'Patients with pending or unsuccessful remote programming' is highlighted. Below this, a 'Search By' dropdown lists various search criteria. The main table displays patient data with columns: Patient, All Transmissions, Latest Transmission, Next Transmission, Latest Comments, and a checkbox. The first row shows 'Jones Samantha' with 25 Remote and 0 In-clinic transmissions, a latest transmission on 04-07-2023 at 09:25 AM, and no next transmission.

Patient	All Transmissions	Latest Transmission	Next Transmission	Latest Comments	
Jones Samantha	25 Remote 0 In-clinic	04-07-2023 09:25 AM	none		☐

Patients with pending or unsuccessful remote programming

The screenshot shows the Merlin.net Patient Care Network interface with the filter 'Patients with pending or unsuccessful remote programming' applied. The main table displays patient data with columns: Patient, Device, Remote Programming, Latest Transmission, Next Transmission, Connectivity, Last Transmitter Communication, Latest Comments, and a checkbox. The first row shows 'Jones Samantha' with an Assert-IQ™ EL+ ICM device (ID: DM5500 511002668), a remote programming session on 04-24-2023 at 10:14 AM (status: Pending), a latest transmission on 04-07-2023 at 09:25 AM, no next transmission, a green connectivity status, a last transmitter communication on 04-21-2023, and no latest comments.

Patient	Device	Remote Programming	Latest Transmission	Next Transmission	Connectivity	Last Transmitter Communication	Latest Comments	
Jones Samantha	Assert-IQ™ EL+ ICM DM5500 511002668	04-24-2023 10:14 AM Pending	04-07-2023 09:25 AM	none	✓	04-21-2023		☐

The Merlin.net™ PCN will continuously attempt to send the remote programming adjustments to the patient's myMerlin Mobile App for 72 hours.

FAQs

1. Can the clinic administrator control who has access to conduct remote programming?

Yes, each clinic profile can have remote programming privileges toggled on or off by an administrator.

The screenshot shows the Merlin.net Patient Care Network interface. The top navigation bar includes the Abbott logo, a user login status (Signed in as J Smith), and links for Help, Switch to, and Sign Out. The main navigation menu on the left includes Recent Transmissions, Patient List, Tools, and Clinic Administration. The Clinic Administration section is expanded, showing options for Clinic Profile, Scheduling & Messaging, Clinic hours / holidays, DirectAlerts™ settings, ICD/CRT-D, Merlin/home Transmitter, Pacemaker CRT-P, Cardiac Monitor, Clinic Settings, Report Settings, Export Options, Clinical Comments, Clinic Users, and Clinic Locations. The Clinic Users section is selected, displaying a table of users. A callout box highlights the 'Remote Programming access' toggle for the user 'Franklin, Tony'.

User Name	User type	Telephone No.	Department
Appleton, William	Physician	1 888 888 8888	Cardiology
Billings, Joseph	Physician	1 888 888 8888	Cardiology
Franklin, Tony	Allied Professional	1 888 888 8888	Cardiology
Glasser, Steven	Assistant	1 888 888 8888	Cardiology

Showing 1 - 10 of 10 Show 25 per page

User Profile

First name: Tony User ID: TonyP
Middle: Password: Confirm password: ☐ Administrator
Last name: Franklin

Credentials:
User type: Allied Professional
Department: Cardiology
☒ Remote Programming access

User contact information

Address 1: Country: USA Area/Code: 888 Phone Number: 888 8888
Address 2: Main phone: 1 Secondary: 1
Address 3: Fax: 1
City: Text message: Message and data rates may apply
State/Prov: Email: J.Billings@gmail.com
Zip/Postal code: Security Stamp: 12345
After hours contact: None

Note: Remote programming access is not available for users registered as **Assistants**.

2. How will a user know if a remote programming transmission is successful?

Once the parameter changes are successful, a remote programming transmission will be shown on the **Recent Transmissions** tab. A summary report with details of the changes and notes (if applicable) will be included.

Abbott				
Recent Transmissions Patient List Tools				
Clinic Patients Cardiac Monitor Search by Name, ID, Dx				
Patient	Transmission	Schedule	Device	Dir
Smith, Sarah	01-10-2023, 04:42 PM Remote Programming	02-27-2023 17 days	Assert-IQ™ 3+ ICM DM5300 : 511002658	

Smith, Sarah
Assert-IQ™ 3+ ICM, DM5300: 511002658

01-10-2023
04:42 PM
Remote

Remote Programming Summary Report

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

Sensing

Max Sensitivity

Initial
0.125 mV

Present

0.175 mV

Sense Refractory Decay Delay

60 ms

30 ms

Episode and Alerts Settings

AF Duration

Initial
10 min

Present

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(511002658 pr04.20.71.00)
myMerlin™APP1000 v2.0.0 MN7000 v0.21.rev3

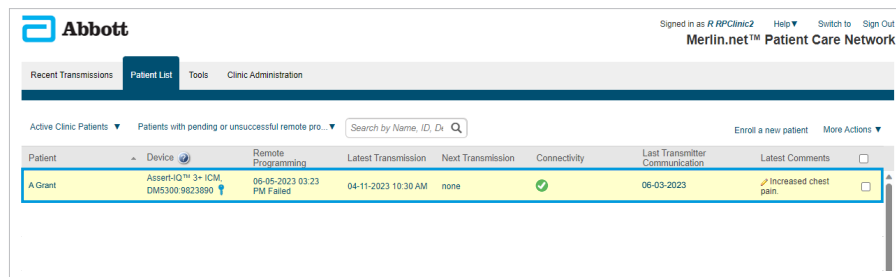
Remote Programming Summary Report Page 1 of 2

01-10-2023 04:42 PM

3. What should a user do if a remote programming transmission is unsuccessful?

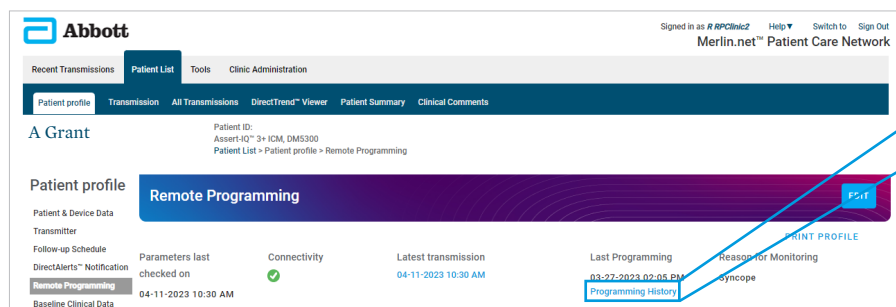
If the remote programming request is unsuccessful, a user can resubmit the parameter changes without having to re-enter each change. To retry a remote programming session, follow the steps below.

STEP 1: SELECT AN UNSUCCESSFUL REMOTE PROGRAMMING REQUEST



Patient	Device	Remote Programming	Latest Transmission	Next Transmission	Connectivity	Last Transmitter Communication	Latest Comments
A Grant	Assert-IQ™ 3+ ICM, DM5300 9623890	06-05-2023 03:23 PM Failed	04-11-2023 10:30 AM	none	✓	06-03-2023	Increased chest pain

STEP 2: CLICK ON PROGRAMMING HISTORY



Abbott Signed in as *R RPClinic2* Help Switch to Sign Out
Merlin.net™ Patient Care Network

Recent Transmissions Patient List Tools Clinic Administration

Active Clinic Patients Patients with pending or unsuccessful remote pro... Search by Name, ID, Di... Enroll a new patient More Actions

Patient ID: Assert-IQ™ 3+ ICM, DM5300
Patient List > Patient profile > Remote Programming

Remote Programming

Parameters last checked on 04-11-2023 10:30 AM

Connectivity ✓

Latest transmission 04-11-2023 10:30 AM

Last Programming 03-27-2023 02:05 PM

Reason for Monitoring syncope

Programming History

STEP 3: REVIEW THE REMOTE PROGRAMMING REQUEST, MAKE ANY NECESSARY NOTES, AND SELECT “RETRY”

Programming History

Programming Changes (Remote)

06-05-2023 3:23 PM Unsuccessful - verify patient's Connectivity.

SENSING	INITIAL	PROPOSED
Sense Refractory Decay Delay	95 ms	190 ms
Sense Refractory Period	250 ms	350 ms

* Auto-programmed

Note:

RETRY

RETRY

For any questions, please reach out to your Abbott Sales Representative.

For technical support please contact the Remote Care Technical Support Team.

United States and Canada

1 877-696-3754, or email myMerlin@abbott.com

Monday-Friday 8 a.m.-8 p.m. EST



Scan the QR code to watch the Remote Programming Video.

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.

Remote Programming with Merlin.net PCN is available for DM5500 and DM5300 models.

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