



UNLOCK THE POTENTIAL

Real World HeartLogic[™] Workflows

Clinic: Huntsville Hospital Heart Center Device Clinic
Hospital Affiliation: Huntsville Hospital
Location: 8 locations in the Huntsville, AL & surrounding area
370 HeartLogic Patients¹

- 15% of HL patients in Alert (active alert-based management)
- o 85% of HL patients out of Alert (standard remote monitoring schedule)
- o 91% of HL patients regularly remotely transmitting physiologic data



HEART CENTER HUNTSVILLE HOSPITAL

> Regina McGee Taylor, RN Senior Device Nurse The Heart Center

About Regina McGee Taylor & The Heart Center

Regina R. McGee Taylor, RN is a senior device nurse at The Heart Center Device Clinic in Huntsville, AL. She has over 15 years of experience with managing heart failure patients with Cardiac Rhythm Devices. She has developed protocols for and implemented a sub-specialty Congestive Heart Failure Device Clinic that now follows over 1300 patients. She developed a close working relationship with the Heart Failure Management Team at Huntsville Hospital and has built a successful remote monitoring program which includes a specific HeartLogic workflow and clinical protocol.

Huntsville Hospital's Heart Center and Heart Institute represents the largest and most experienced team of board-certified cardiologists, cardiothoracic surgeons and cardiac anesthesiologists in North Alabama and southern Tennessee as indicated by the American Hospital Directory². The team consists of 5 EP's who perform over 3800 EP procedures per year, 8 full time RN's, and 5 dedicated support staff.

HeartLogic Program Overview

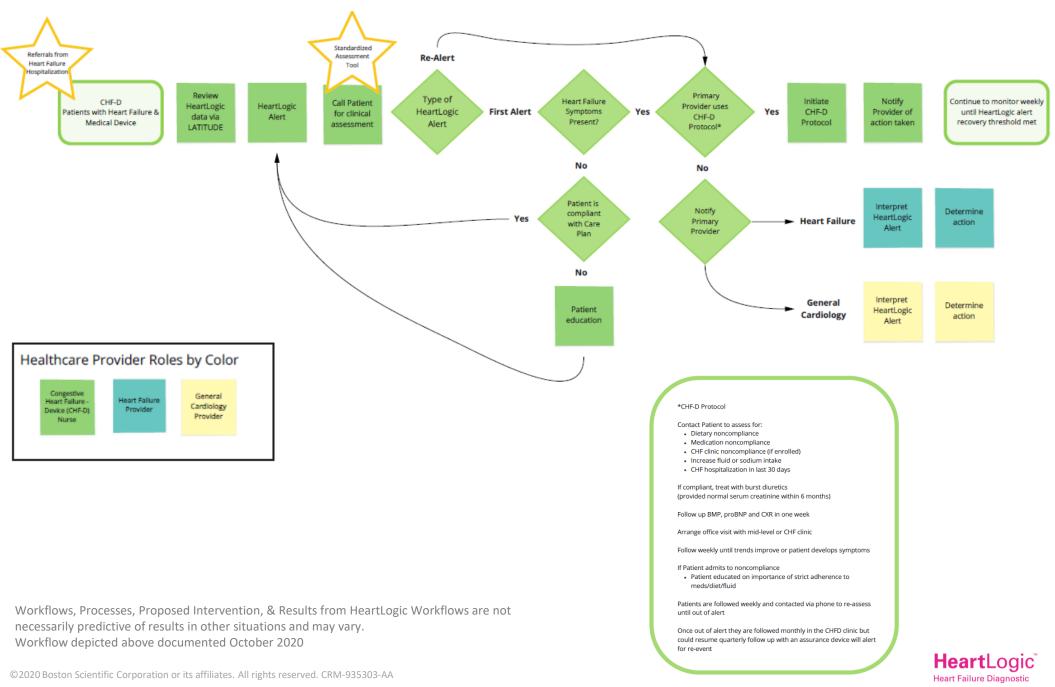
In 2013, a team of nurses was established within the EP practice focusing on patients who were at highest risk of congestive heart failure. The new team was aptly named the Congestive Heart Failure Device Clinic (CHF-D) team. They constructed criteria for which patients would receive care from this team in collaboration with their heart failure colleagues. The criteria prioritizes patients with a hospitalization for heart failure and a medical device. With the introduction of HeartLogic, the technology was a "game-changer" for the CHF-D clinic as it provided a streamlined solution for physiologic diagnostic monitoring with a predictive alert \rightarrow allowing the team to intervene and prevent worsening heart failure for at risk patients with the advanced early warning. Together, the Huntsville care teams established a consistent approach to patient assessment, education, and guideline directed protocols for medication titration, laboratory testing, and provider visits.

Regina McGee Taylor's Top 3 Pieces of Advice for a Successful HeartLogic Workflow

- 1. Repeated patient education leads to successful remote monitoring.
 - 2. Established protocols allow your team to treat early HF events.
- 3. HeartLogic assures "you will know before they go", allowing you to prevent an admission.



Huntsville Heart Center's HeartLogic Workflow



EDUCARE

UNLOCK THE POTENTIAL



Congestive Heart Failure (CHF) Device Team

If a patient has one or more of the following: a HF admission, HF symptoms reported to their general cardiologist, reports at the outpatient CHF Clinic, or has a HeartLogic alert, the patient is triaged to the CHF-D team. The CHF-D RN's interpret the HeartLogic data, contact patients for signs, symptoms, & compliance, and then determine the intervention through a standardized protocol.

Heart Failure and General Cardiologist Teams

For patients who are not enrolled in the CHF-D clinic, HeartLogic alerts and initial assessment from the CHF-D clinic are sent to the patient's primary cardiologist who determines 1) enrollment into the CHF-D clinic or 2) appropriate next steps/action. Upon CHF-D clinic enrollment, the Primary Cardiologist is notified of all HeartLogic alerts, the recommended intervention (from CHF-D clinic), and notification of further device diagnostic findings such as atrial fibrillation or drop in Bi-V pacing %.

The Device Clinic (EP Provider, Device RN's, Support Staff)

*Not shown in HeartLogic Alert Management Workflow The Huntsville Heart Center Device Clinic team manages all CRM devices and non-HeartLogic alerts. The device team is responsible for initial patient education, a 6week post op clinic visit (which may include calibration of the Sleep Incline sensor), routine scheduled device interrogations, and regular remote monitoring and billing.

Empowering Patients Through Education

Huntsville Hospital + The Huntsville Heart Center have a keen focus on educating their HeartLogic patients; at implant, in the event of a HeartLogic alert, and recovery. The collaborative team of EP providers, a Hospital Nurse Educator, Boston Scientific Representatives, Device Clinic Staff, and CHF-D Nurses may account for as many as 9 unique patient education touchpoints from device implant to heart failure recovery. The education focuses on remote connectivity adherence and HeartLogic's ability to remotely track a patient's heart failure status. The focus on patient education has led to 91% of HeartLogic patients regularly remotely transmitting physiologic data.

The 3A Process for The Heart Center



HeartLogic alerts are directly triaged by the device clinic team of RN's who specialize in HF remote patient management (CHF-D team) through the utilization of a secondary group in LATITUDE NXT.

ASSESSMENT

In coordination with the HeartLogic Index, the patient assessment includes: dietary & medication compliance, provider visit history, and HF hospitalizations within the last 30 days.

ACTION

The action is driven by a clinical protocol with escalation criteria for provider interpretation & intervention. The CHF-D RN communicates the recommended action to the patient and their provider.

CRT-D Systems -RESONATE™HF, RESONATE™, RESONATE™X4, VIGILANT™, VIGILANT™X4, MOMENTUM™, MOMENTUM™ X4

INDICATIONS AND USAGE

These Boston Scientific Cardiac Resynchronization Therapo Defibilitators (CRT-Ds) are indicated for patients with heart failure who receive stable cotimal oharmacologic therapo (OPT) for heart failure and who meet any one of the following classifications: Moderate to severe heart failure (NYHA Class III-IV) with EF ≤ 35% and QRS duration ≥ 120 ms; or left bundle branch block (LBBB) with ORS duration ≥ 130 ms. EF ≤ 30%, and mild (NYHA Class II) ischemic or nonischemic heart failure or asymptomatic (NYHA Class I) ischemic heart failure

CONTRAINDICATIONS

There are no contraindications for this device.

WARNINGS

Read this manual thoroughly before implantation to avoid damage to the pulse generator and/or lead. For single patient use only. Do not reuse, reprocess, or resterilize. Always have external defibrillation equipment available during implant and electrophysiologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external defibrillation to avoid damage to the pulse generator and/or lead. For single patient use only. Do not reuse, reprocess, or resternal defibrillation equipment available during implant and electrophysiologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external defibrillation available during implant and electrophysiologic testing. The contract is a final and control in the contro in the contro in the control in inhibition. Physicians should use medical discretion when implanting this device in patients who present with slow VT. Advise patients to seek medical guidance before entering environments that could adversely affect the peration of the active implantable medical device. In planting notice that prevents entry by patients who have a pulse generator. RESONATE Hr, RESONATE and MCMINTUM device except for those with an RA: IS-1; RV: IS-1/DF-1; LV: LV-1 lead connection are considered MR Conditional. For these devices, unless all of the MRI Conditional. For these devices, unless all of the MRI Conditional. For these devices, or neet, MRI scanning of the patient does not meet MR Conditional requirements for the implantable medical device. contrait adverse events acolicable when the Conditions of Use are met or not met, refer to the MRI Technical Guide. Do not subject a catient with an implanted pulse cenerator and/or lead to diathermy. If desired, ensure that Patient Triopered Monitor (PTM) is enabled prior to sending the patient resonance is programmed to Store EGM. Once the PTM feature has been triopered and the maane response set to Inhibit therapy the patient should not reapply the magnet.

PRECAUTIONS

The Control of the product labeling: clinical considerations, sterilization and storage, implantation, device programming, environmental and medical therapy hazards, hospital and medical environments, follow up testing, explant and disposal, supplemental precautionary information. Advise patients to avoid sources of EMI because EMI may cause the pulse generator to delive inappropriate therapy or inhibit appropriate therapy.

POTENTIAL ADVERSE EVENTS

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CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instruction

ICD Systems - RESONATE™ HF. RESONATE™ EL, PERCIVA™ HF. PERCIVA™, VIGILANT™ EL, MOMENTUM™ EL ICD

INDICATIONS AND USAGE

Boston Scientific implantable cardioverter defibrillators (ICDs) are intended to provide ventricular antitachycardia pacing (ATP) and ventricular defibrillation for automated treatment of life-threatening ventricular arrhythmias.

CONTRAINDICATIONS

Use of these Boston Scientific pulse generators are contraindicated for the following: patients whose ventricular tachyar/hythmias have a transient cause, such as: digitalis intoxication, electrocyte imbalance, hypoxia, sepsis; or patients whose ventricular tachyar/hythmias have a transient cause, such as: digitalis intoxication, electrocyte imbalance, hypoxia, sepsis; or patients whose ventricular tachyar/hythmias have a transient cause, such as:

Read this manual thoroughly before implantation to avoid damage to the pulse generator and/or lead. For single patient use only, Do not reuse, reprocess, or resterilize. Always have external defibrillation equipment available during implant and electrophysicologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external defibrillation equipment available during implant and electrophysicologic testing. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external defibrillation equipment available during implant and electrophysicologic testing. not use this pulse generator with another pulse generator. Program the pulse generator Tachy Models) to Off during implant, explant, or costmortem procedures to avoid inadvertent high voltage shocks. Do not kink, twist, or braid the lead with other leads as doing so could cause lead insulation abrasion damage or conductor damage. For leads that require the use of a Connector Tock, use caution handling the lead terminal when the Conceptor Tool is not present on the lead. Do not directly contact the lead terminal with any surgical instruments or electrical connector roots, horese, hencistas, and clamps. Do not contact any other portion of the DF4-LLH or DF4 MOMENTUM devices are considered MR Conditional. For these devices, unless all of the MRI conditional devices to MRI scanning. For potential adverse events applicable when the Conditional of the patient and/or damage to the Implanted system, and significant harm to or death of the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. Once the Patient Triggered Monitor is enabled prior to sending the patient hore. enabled, the patient should not apply the magnet.

PRECAUTIONS

For specific information on precautions, refer to the following sections of the product labeling: clinical considerations, sterilization and storage, implantation, device programming, environmental and medical therapy hazards, hospital and medical environments, follow up testing, explant and disposal, supplemental precautionary information.

POTENTIAL ADVERSE EVENTS

Based on the literature and on pulse generator and/or lead implant experience, the following alphabetical list includes whethe he possible adverse evets associated with the included devices: Air embodiems, Targer reaction; Bleeding, Bradycardia; Cardia carbon reproduced antrythmia; Fluid accuration; Conductor coll fracture; Death; Elevated thresholds; Ercosphabetical list includes and be used antratythmia; Fluid accuration; Bleeding, Bradycardia; Cardia carbon reprodues threapy (e.g., shocks and antitachycardia pacing), hability to delibrillate or pace, Inpandie: Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability to delibrillate or pace, Inpandie; Chronic RV apical pacing; Inability, Including endocardins; Nocardial indexcition (MI); Myocardial netrosis; Myocardial Myocar (PMT); Pericardial rub, effusion; Pneumothorax; Pulse generator migration; Shunting current during delibrillation with internal or external paddles; Syncope; Tachyarrhythmias, which include acceleration of arrhythmias and early, recurrent atrial fibrillation; Thrombosis/thromboemboli; Valve damage; Vasovagal response; Venous occlusion; Venous trauma (e.g., perforation, dissection, erosion); Worsening heart failure. For a list of potential adverse events associated with MRI scanning, refer to the MRI Technical Guide

Patients may develop psychological intolerance to a pulse generator system and may experience the following: Dependency; Depression; Fear of premature battery depletion; Fear of a device malfunction

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CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions

LATITUDE[™] NXT Patient Management System

INTENDED USE

The LATITUDE" NXT Patient Management System is intended for use to remotely communicate with a compatible pulse generator from Boston Scientific CRM and transfer data to a central database. The LATITUDE NXT System provides patient data that can be used as part of the clinical evaluation of the patient

CONTRAINDICATIONS

The LATITUDE NXT Patient Management System is contraindicated for use with any implanted device other than a compatible Boston Scientific implanted device, Not all Boston Scientific implanted devices are compatible with the LATITUDE NXT System. For contraindications for use related to the implanted device, reler to the System Guide for the Boston Scientific implanted device, being interrogated

PRECAUTIONS

Afters may appear on the LATITUDE NXT website in order to receive alerts. Although secondary notification through email and SMS text messages is available, these reminders are dependent on external systems and may be delayed or not occur. The secondary notification feature does not eliminate or reduce the need to check the website. Implanted device data and alerts are typically available for review on the LATITUDE NXT website within 15 minutes of a successful interrogation. However, data upbads may take significantly longer (up to 14 days). If the Communicator is unable to interrogate the implanted device or if the Communicator is unable to contact the LATITUDE NXT server to uplead data, up to 14 days may elapse before the LATITUDE NXT server detects these conditions and informs the clinic user that monitoring is not occurring. If both of these conditions cocur at the same time, this notification could take up to 28 days. Implanted device data and alert notification may be delayed or not occur at all under visuos conditions, which include but are not limited to the following: System limitations; the Communicator is unplugged; the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is unplugged; the Communicator is damaged or malfunctions; the patient is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is unplugged; the Communicator is damaged or malfunctions; the patient is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the Communicator is not able to connect to the LATITUDE NXT server through the configure of hone system; the implanted device and the configure of hone system; the implanted device and the configure of hone system; the implanted device and the configure of hone system; the implanted device and the configure of hone system; the implanted device and the configure of hone system; the implanted device and the configure of hone system; the implanted

LATITUDE NXT System as described in the patient manual; if subscribed to the LATITUDE Cellular Data Plan, missing two or more payments discontinues the subscription; the clinic user can identify any patients that are not being monitored as described above by using the Not Monitored filter on the View Patient List

ADVERSE EFFECTS:

SYSTEM LIMITATIONS:

The LATITUDE NXT System does not provide continuous real-time monitoring, as a remote monitoring, asstem, the LATITUDE NXT System provides periodic patient monitoring based on clinician configured settings. There are many internal and external factors that can hinder, delay, or prevent acquisition and delivery of implanted device, sensor, and patient information as internded by the clinician. device clock: patient environment: cellular data service: telephone system: communicator memory capacity: clinic environment: schedule/configuration changes: or data processing

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Workflows, Processes, Proposed Intervention, & Results from HeartLogic Workflows are not necessarily predictive of results in other situations and may vary. All trademarks are the property of their respective owners

Sources

- Boston Scientific Internal Data. Current as of September 16, 2020. 1.
- https://www.theheartcenter.md/about-us. Accessed 9/14/2020 2.

