

LATITUDE[®] Patient Management System

Freedom to do more

LATITUDE[®]

Patient Management System

DINCRM0569EA

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- **Overview**
- Key Benefits
- Benefits in HF-Management
- The future of RPM

Freedom to do more

LATITUDE[®] Patient Management Overview

Boston Scientific

Patient's Home

Boston Scientific CRM Device



External Sensors

LATITUDE[®] Web Server



Device Managing Physicians



Objectives

- Device management
- Arrhythmia management

Health Following Physicians



Objectives

- Collaborative patient management
- HF management

LATITUDE is being widely used and accepted



- We received CE approval for LATITUDE in July 2009
- There are more than 1400 patients enrolled on LATITUDE across Europe
- LATITUDE is being used by more than 300 physicians in more than 200 hospitals across Europe

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- Our Experience with LATITUDE®
- The future of RPM

Freedom to do more

User Friendly Interface

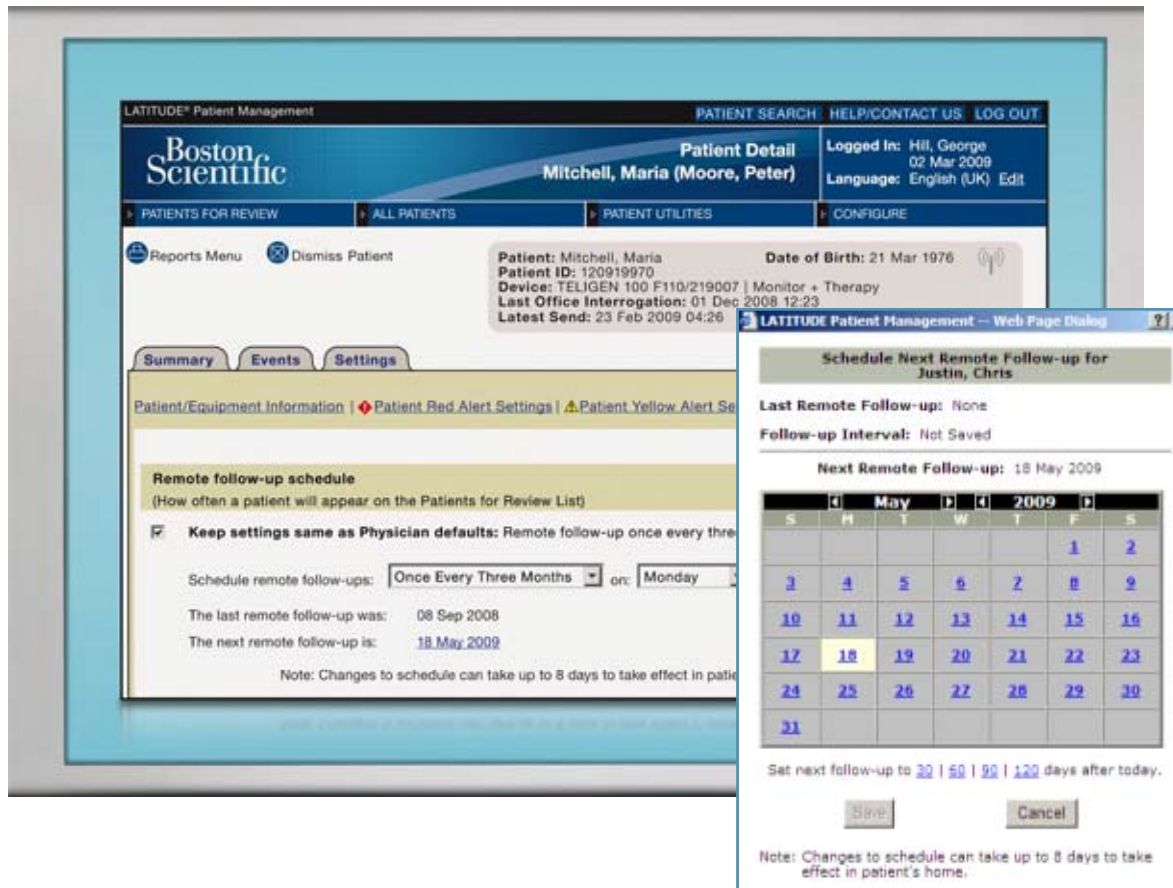
Patient data can be accessed anywhere and at any time on the secure LATITUDE® website



- Instantly **familiar** to physicians used to COGNIS® CRT-D and TELIGEN® ICD devices
- The same COGNIS® CRT-D & TELIGEN® ICD innovations in the Programmer will be visible in LATITUDE®¹

¹ Ex: Counters, Events, Battery gauge, Trends, Alerts

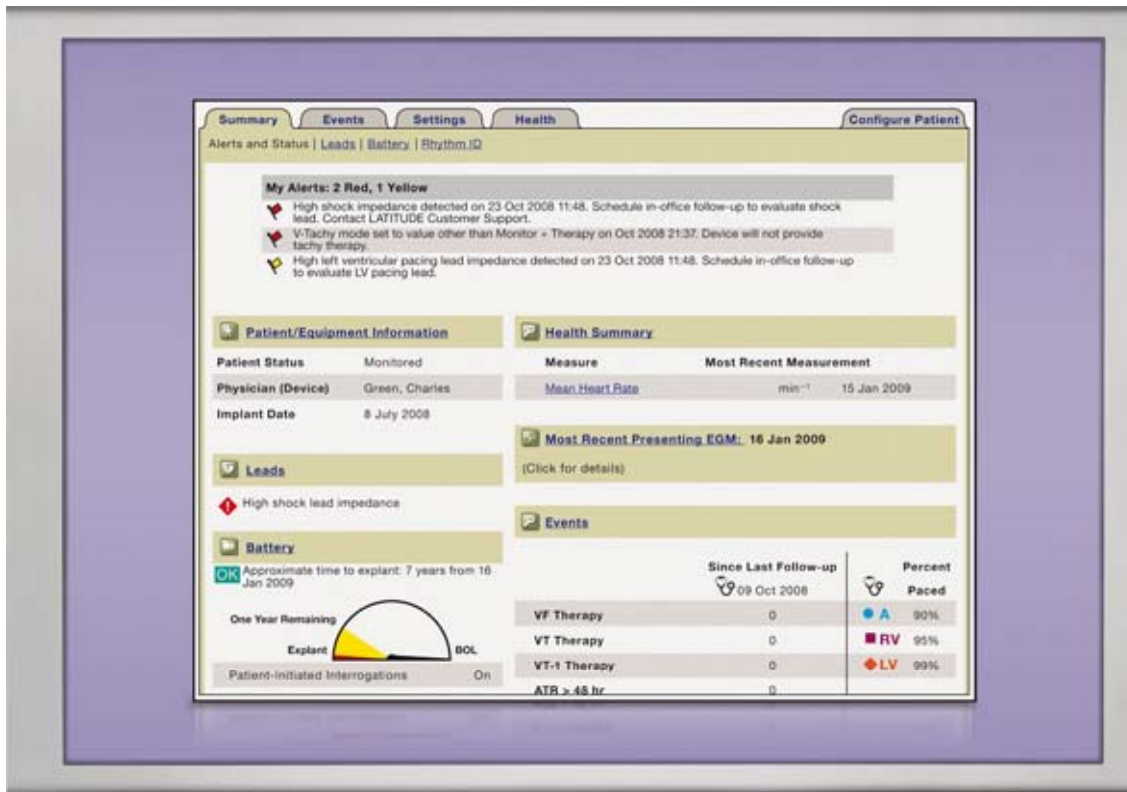
Remote Follow-Up



- Establish a recurring follow-up schedule according to patient's needs and hospital protocol
- Maintaining the freedom to accommodate changes in patient's needs, thus reducing in hospital follow-ups
- LATITUDE® is compatible with the industry standard Health Level 7 data format. Data can be sent to hospitals EMR system

Remote Monitoring

- System Summary
- Clinical Events



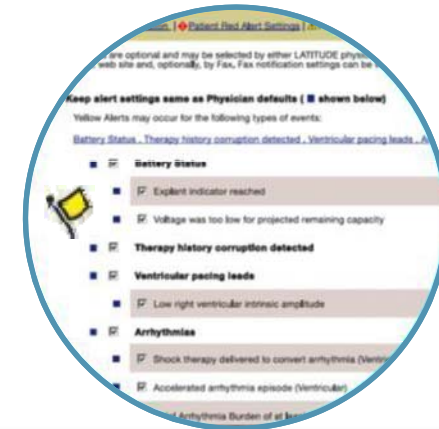
- Daily or weekly check of specific device information and cardiac status, with physician notification
- Transmission of relevant clinical information, normally found during programmer interrogation, between scheduled office checks¹

¹ Cannot perform threshold test via remote monitoring

Remote Yellow Alert Reconfiguration

Yellow Alerts can be remotely re-configured according to each patient's clinical indications through the secure LATITUDE[®] website without bringing the patient into the hospital

- Arrhythmias
 - Shock therapy delivered to convert arrhythmia
 - Accelerated arrhythmia episode (ventricular)
 - Atrial Arrhythmia Burden
 - Patient-triggered event stored
- Weight change
 - At least .91 kg average over two days or at least 2.27 kg in a week
- Battery
 - Voltage was too low for projected remaining capacity
 - Explant indicator reached
- Cardiac Resynchronization Therapy Pacing
- Right Ventricular Pacing
- Therapy history corruption detected
- Ventricular pacing leads
 - Low right ventricular intrinsic amplitude
 - Low left ventricular intrinsic amplitude
 - Low left ventricular pacing lead impedance
 - High left ventricular pacing lead impedance
- Atrial pacing leads
 - Low atrial intrinsic amplitude
 - Low atrial pacing lead impedance
 - High atrial pacing lead impedance



Red Alert Notification

Red Alerts (Clinical Event Notification) will always appear on the secure website; if you wish, LATITUDE Customer Support can call you as well



- Remote monitoring disabled due to limited battery capacity
- High or low shock lead impedance
- High or low shock lead impedance detected when attempting to deliver a shock
- High or low right ventricular pacing lead impedance
- High voltage detected on shock lead during charge
- Tachy mode set to value other than Monitor + Therapy
- PG has detected a possible device malfunction
- Device parameter error



Important Note: These conditions would bring up the clinical events screen on the programmer

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Patient Initiated Interrogation

Clinicians control patient-initiated interrogations via the LATITUDE® website to prevent unexpected data transmissions



- With the **physician's permission**, communication can be initiated by the patient, who simply has to push a button on the communicator to begin the ad-hoc interrogation process **in addition to scheduled interrogations**

Support & Service



Boston Scientific offers a comprehensive training and support offering starting from implementation support through to ongoing dedicated LATITUDE® Customer Support

LATITUDE®
Patient Management System

WE ARE HERE TO HELP

Our multilingual LATITUDE® Customer Service team is only a toll-free telephone call away. For help please email latitude.international@bsci.com or call your local number:

| | | |
|-----------------------|-----------------|---------------|
| AUSTRIA | ☎ 0800 202289 | 📞 01206091097 |
| BELGIUM | ☎ 0800 80697 | 📞 022006115 |
| DENMARK | ☎ 70100182 | 📞 43682205 |
| FINLAND | ☎ 010804819 | 📞 0972519245 |
| FRANCE | ☎ 0805540422 | 📞 0157323452 |
| GERMANY | ☎ 00951709481 | 📞 06951709485 |
| IRELAND | ☎ 1890812005 | 📞 010569525 |
| ITALY | ☎ 848 781164 | 📞 0291483117 |
| NETHERLANDS | ☎ 0800 0292077 | 📞 0202061368 |
| NORWAY | ☎ 81000047 | 📞 24150841 |
| PORTUGAL | ☎ 800844729 | 📞 0217610252 |
| SPAIN | ☎ 901010840 | 📞 012754448 |
| SWEDEN | ☎ 0201605707 | 📞 0851761653 |
| SWITZERLAND | ☎ 0844 000110 | 📞 0445118205 |
| UNITED KINGDOM | ☎ 0845 602 9283 | 📞 02030273475 |



- Hospital staff will benefit from **onsite product and service training** by dedicated, qualified Boston Scientific experts
- **Qualified Boston Scientific experts** will be at hand to respond to general service and product questions in various European languages
- **Dedicated LATITUDE® Customer Support** team of experts offer immediate assistance on a range of subjects¹



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¹ incl. set-up, alert configuration & interrogation options

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External Sensors

LATITUDE® is the only patient monitoring system that meets ESC Class 1 recommendations for HF patients to monitor their weight & blood pressure regularly¹



- Objective data can guide treatment decisions
- Reports on implanted device diagnostics (e.g. arrhythmias, heart rate variability, activity log)
- Wireless weight scale and BP-monitor incl. optional weight alert
- Symptom self-report QOL-questions (optional)

“Patients should weigh themselves on a regular basis to monitor weight change, preferably as part of a regular daily routine” (ESC Class 1 Guidelines²)

“Frequent monitoring of heart failure patients’ clinical status, specifically their body weights, can alert clinicians to the early stages of heart failure de-compensation” (Chaudhry et al., 2007³)

“Clinically important increases in body weight begin at least 1 week before hospitalization for heart failure” (Chaudhry et al., 2007³)

¹ Supporting data available. ²ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure 2008', European Heart Journal, 2008, 29, 2388-2442 ³ Chaudhry et al. 'Patterns of Weight Change Preceding Hospitalization for Heart Failure', Circulation , 2007, Volume 116, Number 14;

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Next developments in LATITUDE

Boston
Scientific

- Increase the partnership of physicians inside and outside the hospital to focus on data they need
- Develop access to additional internal and external sensors to earlier detect HF progression
- Increase mobility of patients and physicians
- Increase flexibility of LATITUDE usage to be tailored to individual physicians needs
- LATITUDE can be used with all our new CRM devices

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LATITUDE

- + Increase patients QoL
- + Reduce costs of HF treatment
- + Physicians focus on information they need

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