

FastPath™ Summary

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Battery

Longevity: 2.5 yrs



Implant Date: 20 Oct 2010

Voltage 2.57 V
Last Max Charge 14.5 sec (15 Feb 2014)
Battery Current 25 uA

Test Results 6 Mar 2014

A Automatic

	Capture	Sense	Lead Impedance
A	Not Performed 0.5V @ 0.5ms (Bi) 13 Jan 2014	4.5mV (Bi) A 2.5mV (Bi) 13 Jan 2014	460 Ω (Bi) A 540 Ω (Bi) 12 Jan 2014
RV	Not Performed 0.75V @ 0.5ms (Bi) 13 Jan 2014	11.9mV (RV Bi) 11.3mV (RV Bi) 18 Dec 2013	450 Ω (Bi) A 450 Ω (Bi) 12 Jan 2014
LV	Not Performed 2.75V @ 0.9ms (Bi) 13 Jan 2014		840 Ω (Bi) A 960 Ω (Bi) 12 Jan 2014
HV			74 Ω (RV to Can) A 74 Ω (RV to Can) 12 Jan 2014

Parameters

Mode	DDDR	Zone Configuration	VT-1	VT-2	VF
Base Rate	60 min ⁻¹	Detection Criteria	139 min ⁻¹	166 min ⁻¹	230 min ⁻¹
Max Track Rate	110 min ⁻¹	Therapy (ENABLED)	Monitor	ATP x5	36.0 J
Paced AV Delay	140 ms			ATP x5	36.0 J
Sensed AV Delay	90 ms			36.0 J	36.0 J x4
Ventricular Pacing	RV→LV, 10 ms			36.0 J x2	

Capture & Sense

	A	RV	LV
Cap Confirm	Off	Off	Off
Pulse Amplitude	2.5 V	2.5 V	4.5 V
Pulse Width	0.5 ms	0.5 ms	0.9 ms
AutoSense	On	On	
Sensitivity	Auto A	Auto A	

Diagnostics Summary

Since 19 Nov 2012

AP	70 %
BP	>99 %
AMS Episodes	0
Mode Switch	0%
AT/AF Burden	<1%

VT/VF Episodes: 0

Since 13 Jan 2014

	VT-1	VT-2	VF
Episodes	0	0	0
ATP Delivered		6	
Shocks Delivered		0	0
SVT Episodes: 0			

No Alerts

► Manual-programmed ◄ Auto-programmed

Episodes Summary

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 Episodes Last Cleared
 SEGMs Last Cleared

 22 Aug 2012 13:47
 4 Apr 2012 8:12

Last Read

6 Mar 2014 12:35

Therapy Summary

	<input type="button" value="VT-1"/>	<input type="button" value="VT-2"/>	<input checked="" type="button" value="VF"/>
ATP Delivered	6		
Shocks Delivered	0 0		
	VT-1 Zone is Monitor Only		
Last HV Lead Impedance	n/a		
Total Aborted Shocks	1		

Results of ATP Delivery

	<input type="button" value="VT-1"/>	<input type="button" value="VT-2"/>
Episodes Terminated	0	6
Episodes Not Terminated	0	0
Accelerations	0	0

Episode Tree

No tachyarrhythmia episodes detected

VT/VF Episodes

No episodes recorded since last session

Other Episodes

No episodes recorded

Diagnostics Summary

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Events Since 19 Nov 2012

AP	70%	Lifetime	53%
RVP	n/a		0%
BP	>99%		98%
VSt	n/a		0%

Includes time in AMS

Events

AS-VP	29%
AS-VS	<1%
AP-VP	70%
AP-VS	<1%
PVC	<1%, 0.1M counts

Excludes time in AMS

Heart Rate Histogram

Since 19 Nov 2012

Atrial

AF Suppression™

n/a

- Paced (AP)
- Sensed (AS)
- Sensor-Indicated Rate

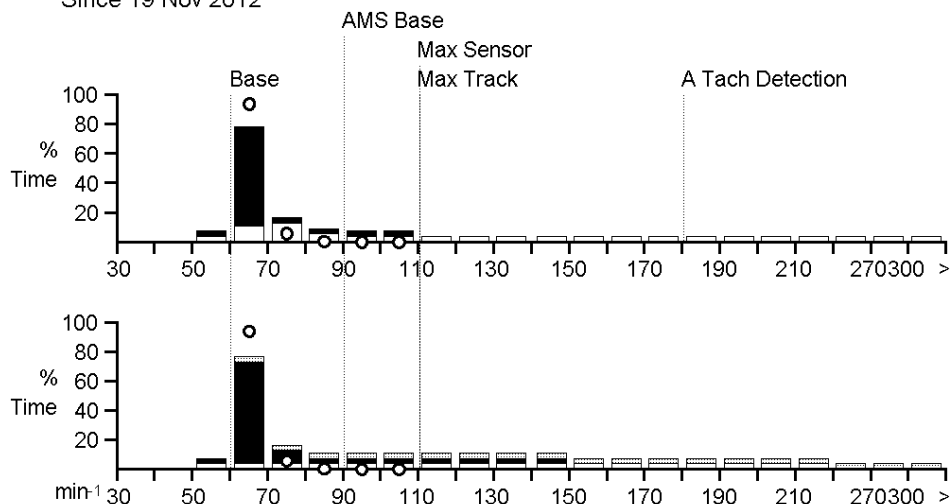
Ventricular

Time at Max Track Rate

PMT Detections

- Paced (AS-VP, AP-VP)
- Sensed (AS-VS, AP-VS)
- ▨ PVC
- Sensor-Indicated Rate

Excludes time in AMS



AT/AF Burden

Total AT/AF Burden

<1%

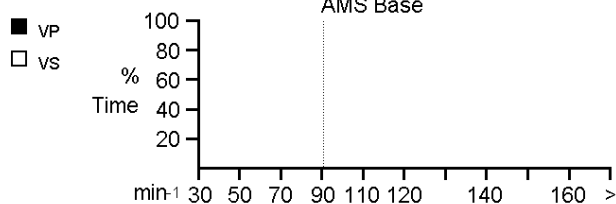
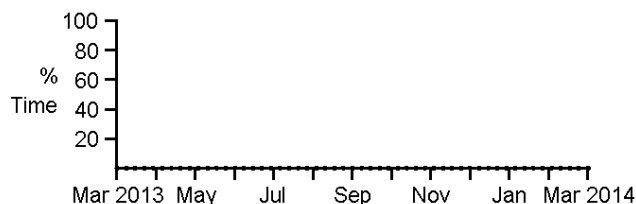
<1%

Since 19 Nov 2012

Since 20 Oct 2010

V Rates During AMS

Since 19 Nov 2012



AMS Summary

Since 19 Nov 2012

AMS Episodes

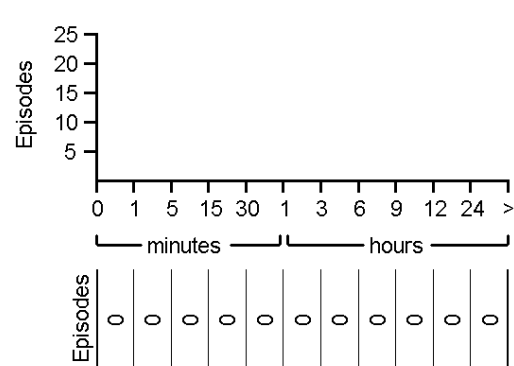
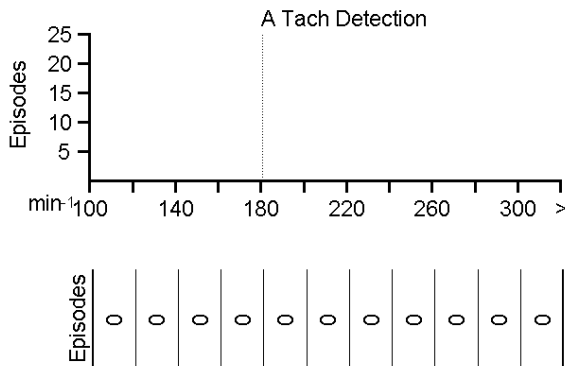
0

Mode Switch

0%

Duration

Peak A Rate



Parameters

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Patient

Date of Birth

EF %

Unknown

Indications for Implant

Device	Manufacturer	Model	Serial	Implant Date
CRT-D	St. Jude Medical	Promote Accel™ 3215-36	704408	20 Oct 2010
A Lead				
RV Lead				
LV Lead				

Basic Operation

Mode	DDDR
Ventricular Pacing	RV → LV, 10 ms
V. Triggering	Off
Magnet Response	Normal
V. Noise Reversion Mode	Pacing Off
Episodal Pacing Mode	VVI
Sensor	On
Threshold (Measured Avg.)	Auto (+0.0) (2.0)
Slope	8
Max Sensor Rate	110 min ⁻¹
Reaction Time	Fast
Recovery Time	Medium

Refractories & Blanking

PVARP	275 ms
Post-Vent. Atrial Blanking	120 ms
Rate Responsive PVARP/V Ref	Low
Shortest PVARP/V Ref	225 ms
A/V Pace Refractory	190/250 ms
A/V Sense Refractory	93/125 ms
Ventricular Blanking	52 ms
Ventricular Safety Standby	On
Arrhythmia Unhiding	3 intervals
PVC Response	Off
PMT Response	Atrial Pace
PMT Detection Rate	110 min ⁻¹

Rates

Base Rate	60 min ⁻¹
Rest Rate	Off
Max Sensor Rate	110 min ⁻¹
Max Track Rate	110 min ⁻¹
Hysteresis Rate	Off
2:1 Block Rate	173 min ⁻¹

AT/AF Detection & Response

Auto Mode Switch	DDIR
AMS V. Triggering	Off
A. Tachycardia Detection Rate	180 min ⁻¹
AMS Base Rate	90 min ⁻¹
AF Suppression™	Off

Delays

Paced AV Delay	140 ms
Sensed AV Delay	90 ms
Rate Responsive AV Delay	Medium
Shortest AV Delay	90 ms
Neg. AV Hysteresis/Search	Off

Capture & Sense

	A	RV	LV
Cap Confirm	Off	Off	Off
Pulse Amplitude	2.5 V	2.5 V	4.5 V
Pulse Width	0.5 ms	0.5 ms	0.9 ms
AutoSense	On	On	
Sensitivity	Auto A	Auto A	

 Last Programmed: 13 Jan 2014 11:11
 Parameters that are "n/a" are not shown

 Bold values were changed this session (See
 Wrap-up™ Overview report for details)

 ▶ Manual-programmed **A** Automatic
 ↳ Auto-programmed

Parameters

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Leads

	A	RV	LV
Lead Type	Bipolar	Bipolar	Bipolar
Pulse Configuration	Bipolar	Bipolar	Bipolar
Sense Configuration	Bipolar	RV Bipolar	
Lead Monitoring	Monitor	Monitor	Monitor
Lower Limit	200 Ω	200 Ω	200 Ω
Upper Limit	2,000 Ω	2,000 Ω	2,000 Ω
HVLI Lower Limit		20 Ω	
HVLI Upper Limit		200 Ω	

ShockGuard™ Settings (Zone Configuration)

	VT-1	VT-2	VF
Detection Criteria	139 min-1/430 ms 12 intervals	166 min-1/360 ms 16 intervals	230 min-1/260 ms 12 intervals
SVT Discrimination	On	On	
Therapy	Monitor Only	ATP x5 ATP x5 36.0 J/830 V 36.0 J/830 V x2	36.0 J/830 V 36.0 J/830 V 36.0 J/830 V x4
VT Therapy Timeout	Off		

SVT Discrimination

SVT Discrimination	Dual Chamber
SVT Discrimination Timeout	Off
SVT Upper Limit	Same as VF

Rate Branch	Additional Discriminators				Diagnosis
AF/A Flutter V < A	Morphology Morphology Match AutoUpdate	On 60 %, 5 of 8 Off	Interval Stability Interval Stability Stability Delta AV Association Delta (Passive) Window Size	On 80 ms 60 ms 12 intervals	If All of the criteria in this rate branch indicate VT, deliver therapy.
Sinus Tach V = A: On AV Interval Delta: Off	Morphology Morphology Match AutoUpdate	On 60 %, 5 of 8 Off	Sudden Onset Sudden Onset Onset Delta	On 100 ms	If All of the criteria in this rate branch indicate VT, deliver therapy.
VT/VF V > A					If Ventricular Rate is greater than the Atrial Rate, deliver therapy.

Parameters

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ATP Details

 ATP Pulse Amplitude 7.5 V
 ATP Pulse Width 1.0 ms

	VT-1		VT-2	
	Therapy 1	Therapy 2	Therapy 1	Therapy 2
Number of Bursts			5	5
Number of Stimuli			8	8
Add Stimuli per Burst			Off	Off
Burst Cycle Length			81 %	85 %
Min. Burst Cycle Length			200 ms	200 ms
Readaptive			Off	Off
Scanning			On (Dec)	On (Dec)
Scan Step			10 ms	10 ms
Ramp			Off	On
Ramp Step				10 ms

SenseAbility™ Settings

	A		RV	
			Pacemaker	Defib
Max Sensitivity	0.2 mV (0.3 mV @ 110 min ⁻¹)		Same as Defib (0.7 mV @ 110 min ⁻¹)	0.3 mV (0.7 mV @ 110 min ⁻¹)
	Post-Sensed	Post-Paced	Post-Sensed	Post-Paced
Decay Delay	0 ms	0 ms	60 ms	Auto A
Threshold Start	50 %	0.8 mV	62.5 %	Auto A

DeFT Response™ Settings (Shock Waveform)

Waveform	Biphasic	
Waveform Mode	Tilt	
Shock Configuration	RV to Can	
RV Polarity	Anode(+)	
	1st Phase	2nd Phase
VF Shocks (Defib)	65 %	65 %
VT Shocks (CVRT)	Same as Defib	Same as Defib
Estimated Defib Pulse Width	9.6 ms	
Estimated CVRT Pulse Width	9.6 ms	
Shock Impedance	74 Ω (Measured)	

Post-Shock Pacing

 Mode DDD
 Base Rate 60 min⁻¹
 Pause 2 sec
 Duration 0.5 min

Redetection & Post-Detection

 VT Redetection 6 intervals
 Sinus Redetection Nominal (5 intervals)
 Post VF/VT-2 Detection Same as VT-2

Capacitor Maintenance

Charge Interval 3 months

	A	BV
Pulse Amplitude	7.5 V	7.5 V
Pulse Width	1.5 ms	1.5 ms

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Parameters

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Trigger Alerts When

AT/AF Episode (3 hours)
 AT/AF Burden (6 hours evaluated daily)
 V Rate during AT/AF (100 min-1 for 6 hours, evaluated daily)
 A Lead Impedance Out of Range (200 - 2,000 Ω)
 RV Lead Impedance Out of Range (200 - 2,000 Ω)
 LV Lead Impedance Out of Range (200 - 2,000 Ω)
 HV Lead Impedance Out of Range (20 - 200 Ω)
 Device at ERI
 Charge Time Limit Reached (32 sec)
 Possible HV Circuit Damage
 Device Parameter Reset
 Backup VVI

Show on FastPath™

On
 On
 On
 On
 On
 On
 On
 On
 On
 On
 On

Notify Patient

Off
 Off
 Off
 On
 On
 On
 On
 On
 On
 On
 On

Patient Notifier Delivery

Vibration Duration 6 sec
 Number of Notifications 4
 Time Between Notifications 10 hours

Episode Triggers

Atrial Episode (AMS) Low
 VT (Detection) High
 VF (Detection) High
 PMT Low
 Noise Reversion Low
 Magnet Response Off

Stored EGM Configuration

VT/VF EGM Max Duration 1 min
 VT/VF Pre-Trigger Max Duration 14 sec
 Channels (Storage) 2 (22 min)
 Channel 1 A Sense Amp
 Channel 2 V Sense Amp