

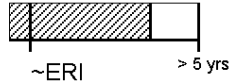
FastPath™ Summary

 **2 Alerts**

Page 1 of 1

Battery



Longevity: 3,5 yrs



Implant Date:	7 Mar 2017
Last Max Charge	7,5 sec (6 Jan 2022)
Battery Current	16 uA
Remaining Capacity to ERI	52%

Test Results 24 Mar 2022


 Automatic

	Capture	Sense	Lead Impedance
V	0,5V @ 0,5ms (Bi) 0,5V @ 0,5ms (Bi) 20 Oct 2021	None (Bi) None (Bi) 20 Oct 2021	390 Ω (Bi)  390 Ω (Bi) 20 Oct 2021
HV			35 Ω (RV to SVC & Can)  35 Ω (RV to SVC & Can) 20 Oct 2021

Parameters

		Zone Configuration	VT	VF
Mode	VVIR	Detection Criteria	176 bpm	240 bpm
Base Rate	▶80 bpm	Therapy (ENABLED)	ATP x3	ATP x1
			25,0 J	30,0 J
			30,0 J	36,0 J
			36,0 J x2	36,0 J x4

Capture & Sense

AutoCapture	V
Pulse Amplitude (Margin)	Off
Pulse Width	2,5 V (5.0:1)
AutoSense	0,5 ms
Sensitivity	On
	Auto 

Diagnostics Summary

Since 24 Mar 2022

VP >99 %

VT/VF Episodes: 0

Since 20 Oct 2021

	VT	VF
Episodes	0	0
ATP Delivered	0	0
Shocks Delivered	0	0

 SVT Episodes: 0
 Non-sustained Episodes: 0

Alerts


 Device cybersecurity upgrade is available
 V Percent Pacing Greater Than Limit

▶ Manual-programmed ▶ Auto-programmed

Episodes Summary

Page 1 of 1

 Episodes Last Cleared 6 Jul 2019 22:45
 SEGMs Last Cleared 7 Mar 2017 9:33

Last Read 24 Mar 2022 11:33

Therapy Summary

	VT	VF
ATP Delivered	0	0
Shocks Delivered	0	0
Max Energy Shocks	0	0
Last HV Lead Impedance	n/a	
Total Aborted Shocks	0	

Results of ATP Delivery

	VT	VF
Episodes Terminated	0	0
Episodes Not Terminated	0	0
Accelerations	0	

Episode Tree

No tachyarrhythmia episodes detected

VT/VF Episodes

No episodes recorded since last session

Other Episodes

No episodes recorded since last session

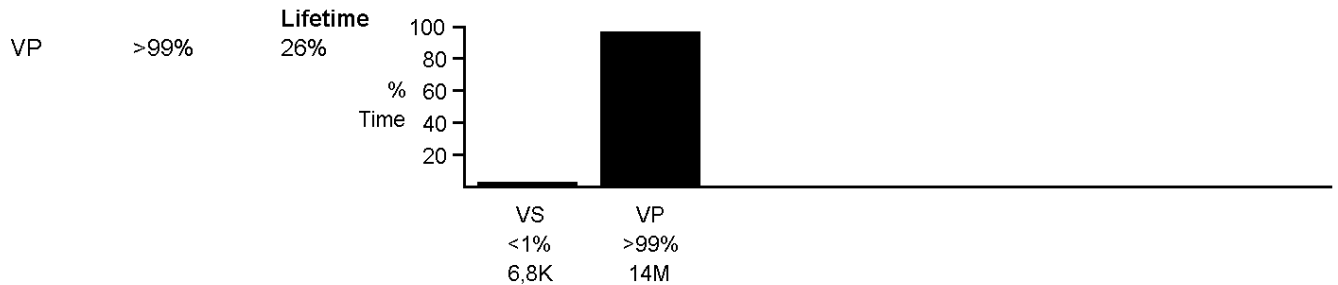
Extended Diagnostics

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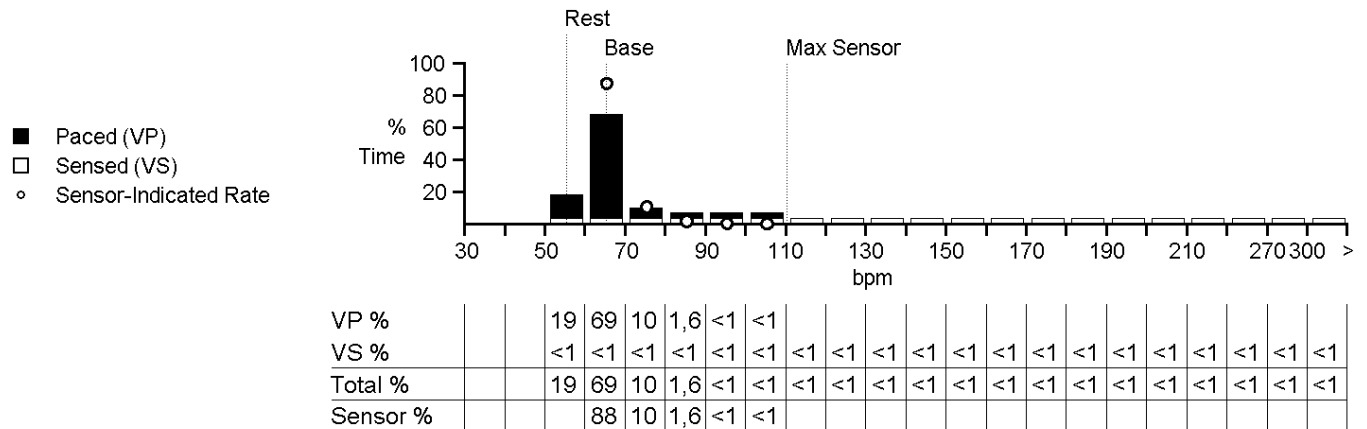
Parameters

Mode VVIR
 Base Rate 65 bpm
 Max Sensor Rate 110 bpm

Events Since 24 Mar 2022

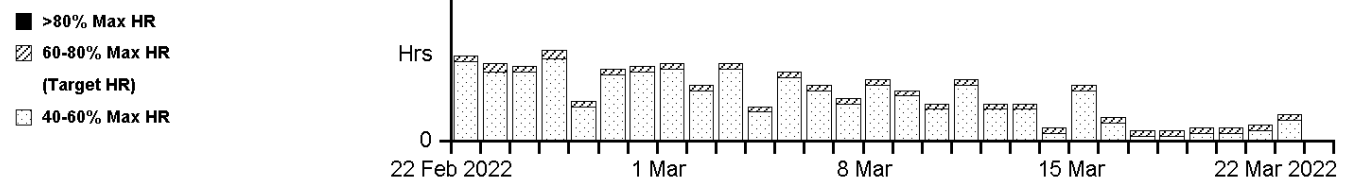


Ventricular Heart Rate Histogram Since 24 Mar 2022



Daily Exercise Training (Activity >1 minute)

Max Heart Rate 148 bpm



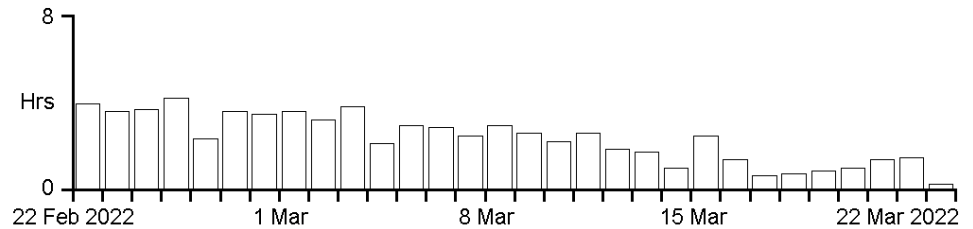


Extended Diagnostics

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Total Daily Activity

□ Activity



ST Episodes Since 7 Mar 2017
No episodes detected.

VT/VF Episodes: 0 Since 20 Oct 2021
New Episodes within 15 Min. of an ST Episode: 0



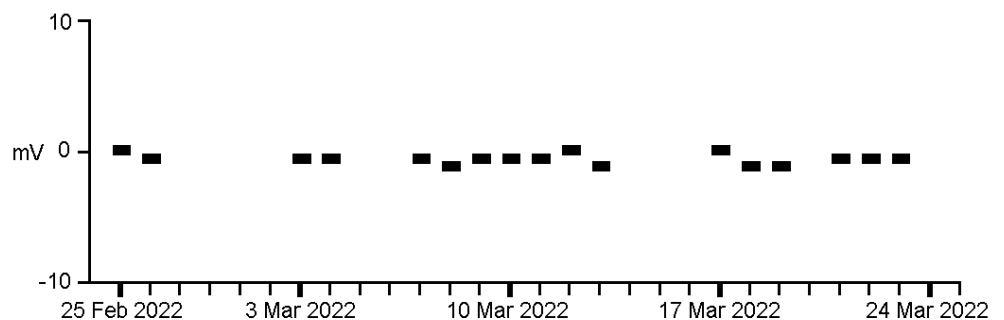
Episodes VT 0 VF 0
SVT Episodes: 0

No ST Baselines collected.

ST Deviation Trend Resting HR Zone: 55-90 bpm

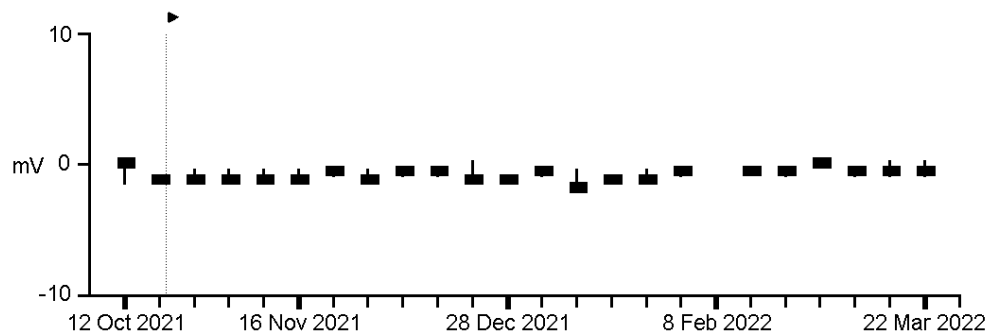
Last Month (daily)

▶ ST settings adjusted



Last 6 Months (weekly)

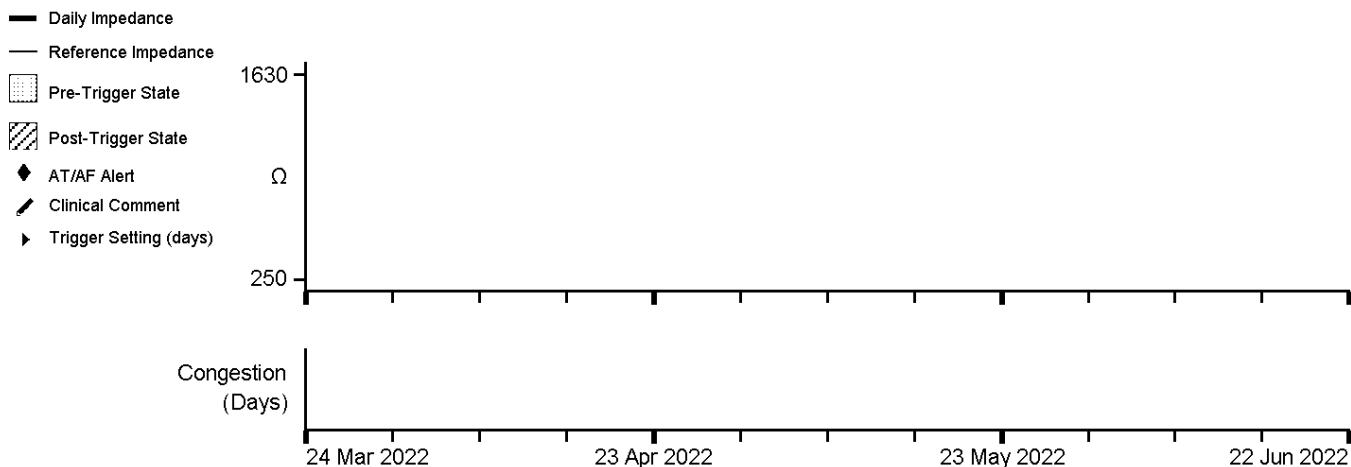
▶ ST settings adjusted



Extended Diagnostics

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CorVue™ Congestion Monitoring is OFF (3 Month View)



CorVue™ Congestion Monitoring is an additional information source for patient management. It is not meant to replace clinical assessments that are part of standard clinical practice.

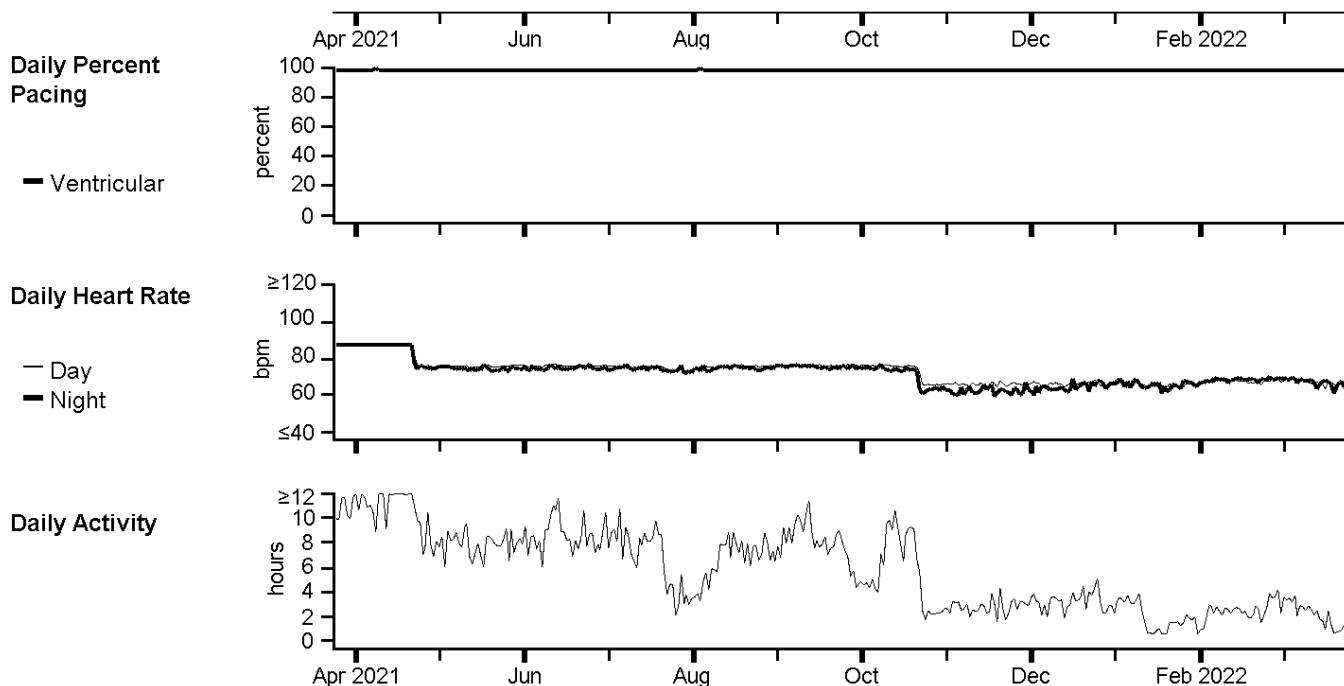
Congestion Details (Last Session: 20 Oct 2021)

No Congestion Episodes recorded

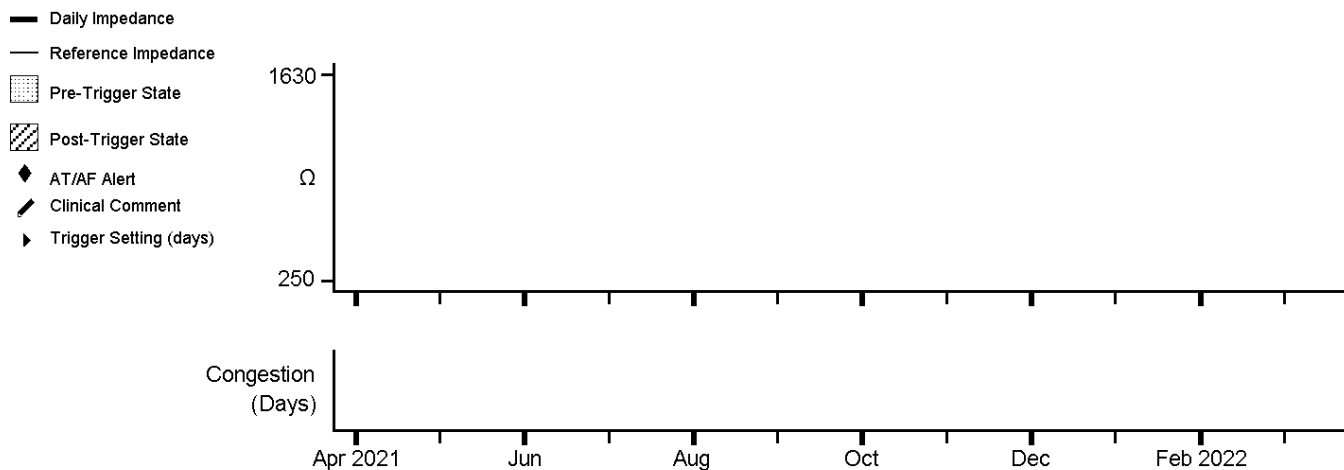


DirectTrend™ 1 Year Daily

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CorVue™ Congestion Monitoring is OFF



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Test Results: Ventricle

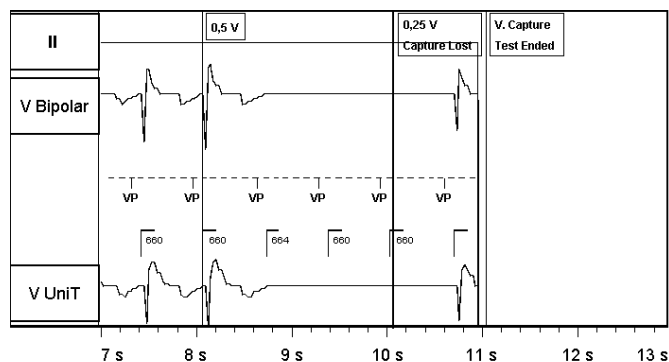
Page 1 of 2

Ventricular Capture Test

0,5 V @ 0,5 ms (Bi)
 Safety Margin: 5,0 : 1 @ 2,5 V
 0,5 V @ 0,5 ms (Bi)

24 Mar 2022

20 Oct 2021

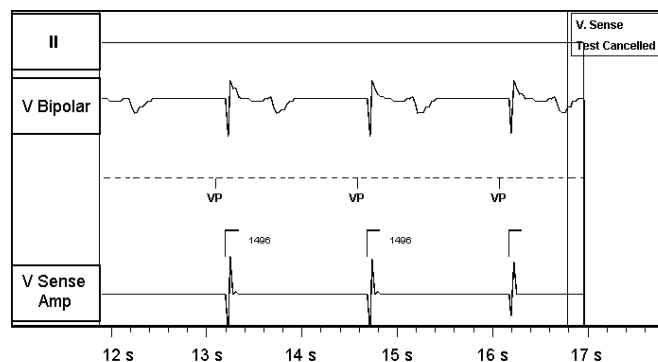


Ventricular Sense Test

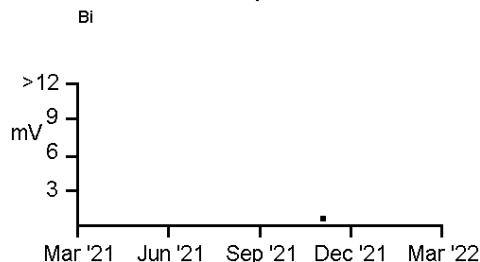
None (Bi)
 None (Bi)

24 Mar 2022

20 Oct 2021



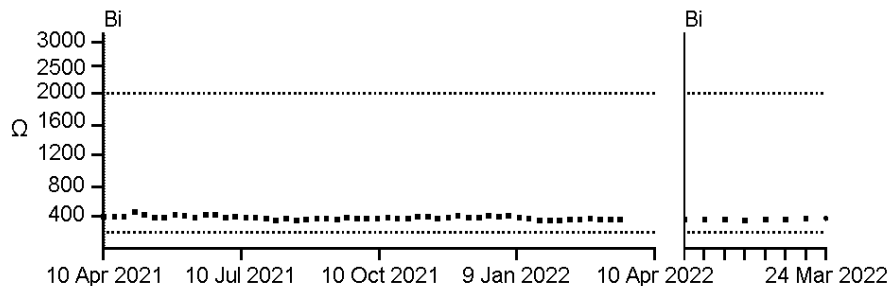
Ventricular Sense Amplitude Trend



Ventricular Lead Monitoring:

390 Ω (Bi) 24 Mar 2022

1-year trend



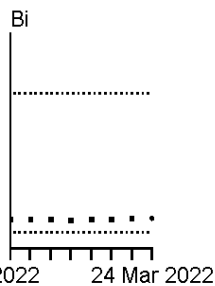
Configurations

Bipolar

First Measurement

590 Ω (7 Mar 2017)

Last 7 Days



Lifetime Range

330 - 680 Ω

Programmed Pulse Configuration
 V. Lead Monitoring

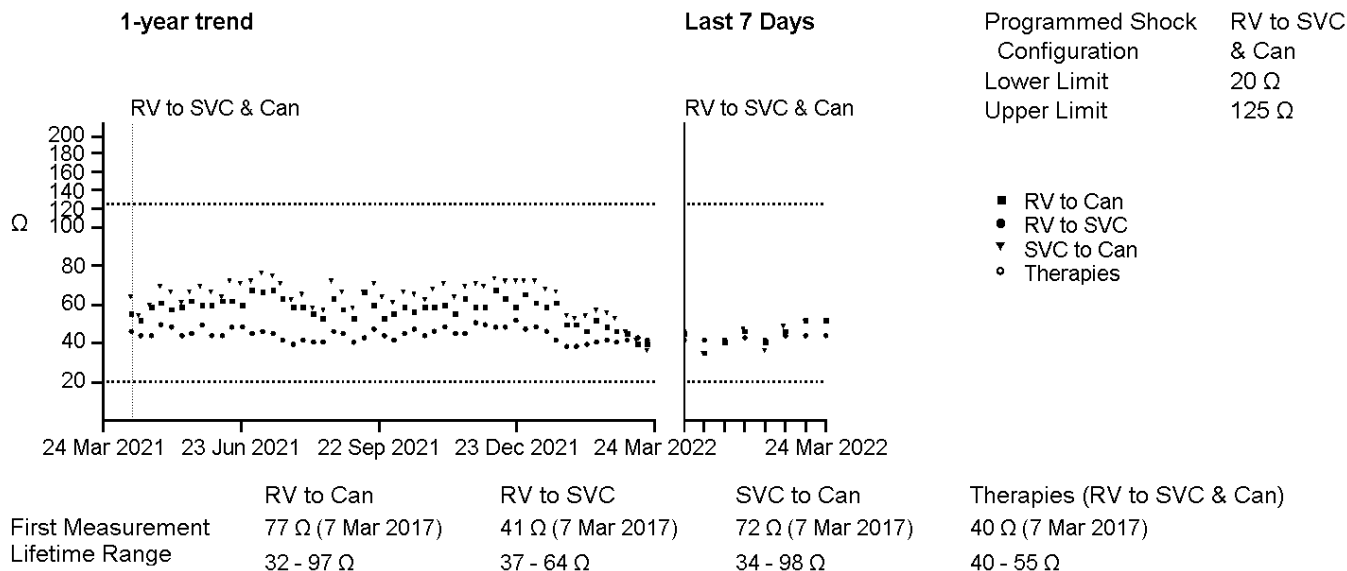
Bipolar
 Monitor

Lower Limit 200 Ω
 Upper Limit 2.000 Ω

Test Results: HV Lead Impedance and Battery

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HV Lead Impedance:

 35 Ω (RV to SVC & Can) 24 Mar 2022


Battery Information

Longevity: 3,5 yrs



Last Max Charge

7,5 sec (6 Jan 2022)

Longevity estimate is based on patient history

Battery Current

 16 μ A

Remaining Capacity to ERI

52%

Presenting Rhythm Freeze

Page 1 of 1

24 Mar 2022 11:34

Key Parameters

Mode	VVIR
Base Rate	65 bpm
Rest Rate	55 bpm
Max Sensor Rate	110 bpm
Hysteresis Rate	Off
V. AutoCapture	Off
Rate Responsive V Ref	Low

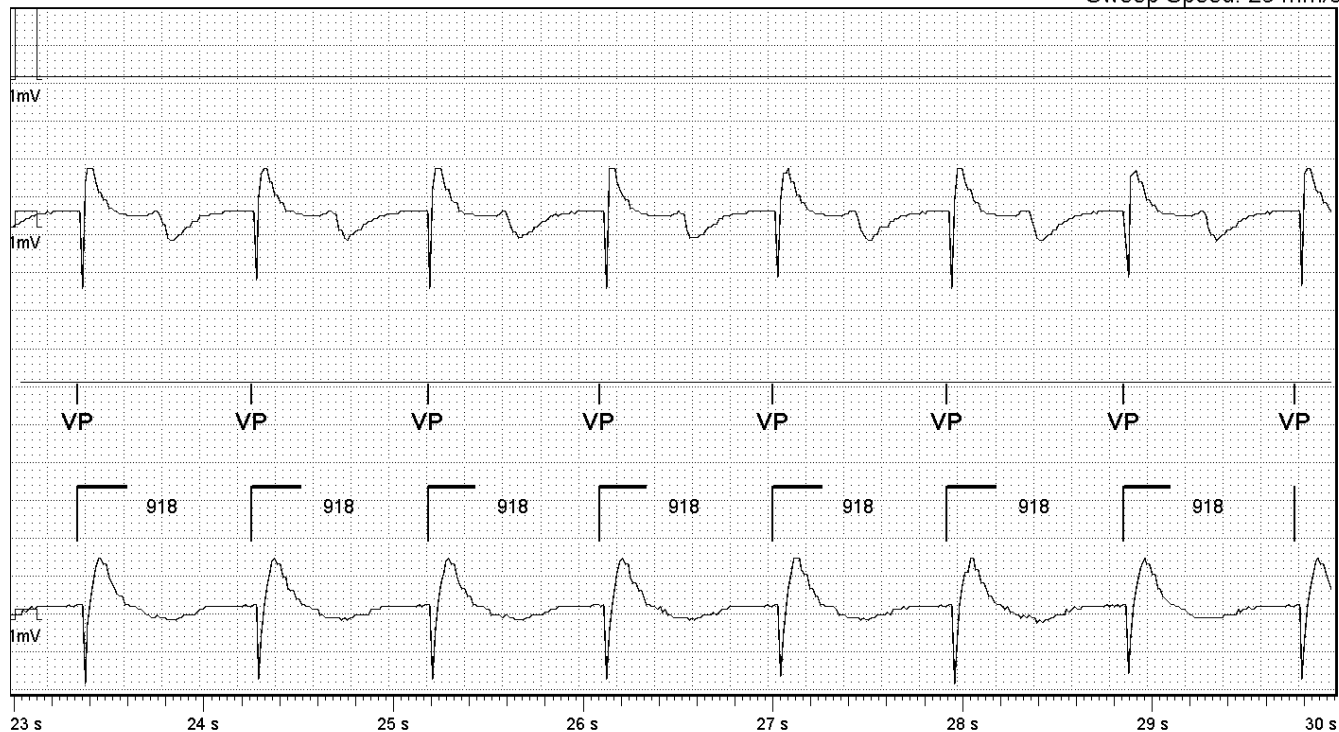
1: II AutoGain (100,0 mm/mV)

4: V Unipolar Tip AutoGain (1,7 mm/mV)

2: V Bipolar AutoGain (2,4 mm/mV)

3: Markers

Sweep Speed: 25 mm/s



Parameters

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Patient

 Date of Birth 23 Jul 1949
 EF % 45 %

Indications for Implant

Ischemic Cardiomyopathy, Ventricular Fibrillation (VF)

Device	Manufacturer	Model	Serial	Implant Date
ICD	St. Jude Medical	Ellipse™ VR 1377-36QC	7318109	7 Mar 2017
V Lead	St. Jude Medical	Durata™ 7120Q	BNP060312	7 Mar 2017
Device cybersecurity upgrade is available				

Basic Operation

 Mode VVIR
 Magnet Response Normal
 V. Noise Reversion Mode Pacing Off
 Sensor On
 Threshold (Measured Avg.) Auto (+0.0) (2,0)
 Slope 8
 Max Sensor Rate 110 bpm
 Reaction Time Medium
 Recovery Time Medium

Refractories & Blanking

 Rate Responsive V Ref Low
 Shortest V Ref 225 ms
 V Pace Refractory 250 ms
 V Sense Refractory 125 ms
 Arrhythmia Unhiding 3 intervals

Rates

 Base Rate ▶ **80 bpm**
 Rest Rate 55 bpm
 Max Sensor Rate 110 bpm
 Hysteresis Rate Off

Capture & Sense

 AutoCapture V
 Off
 Pulse Amplitude (Margin) 2,5 V (5.0:1)
 Pulse Width 0,5 ms
 AutoSense On
 Sensitivity Auto **A**
Leads

 V
 Lead Type Bipolar
 Pulse Configuration Bipolar
 Sense Configuration Bipolar
 Lead Monitoring Monitor
 Lower Limit 200 Ω
 Upper Limit 2.000 Ω
 HVLI Lower Limit 20 Ω
 HVLI Upper Limit 125 Ω

Parameters

Page 2 of 5

ShockGuard™ Settings (Zone Configuration)

	VT	VF
Detection Criteria	176 bpm/340 ms 50 intervals	240 bpm/250 ms 19 intervals
SVT Discrimination	On	
Therapy	ATP x3 25,0 J/729 V 30,0 J/800 V 36,0 J/875 V x2	ATP x1 30,0 J/800 V 36,0 J/875 V 36,0 J/875 V x4
VT Therapy Timeout	Off	

SVT Discrimination

SVT Discrimination	Ventricular Only
SVT Discrimination Timeout	Off
SVT Upper Limit	Same as VF

Rate Branch	Additional Discriminators			Diagnosis
VT Diagnosis Criteria	Morphology	Interval Stability		If All of the active SVT Discrimination criteria indicate VT, deliver therapy.
	Morphology Type	On Far Field MD	Interval Stability Stability Delta	
	Match	90 %, 3 of 10	SIH Count Window Size	
	Configuration	RV Coil-Can		
	Sudden Onset			
	Sudden Onset Onset Delta	On 100 ms		
			On w/SIH 40 ms	
			2 intervals 12 intervals	

SecureSense™ Settings

SecureSense™	On
Far Field MD / SecureSense™ Configuration	RV Coil-Can
Timeout Until Therapy	Off
Trigger alert for Non-sustained V Oversensing (NSO)	5 episodes

Parameters

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ATP Details

 ATP Pulse Amplitude 7,5 V
 ATP Pulse Width 1,0 ms

	VT		VF	
	Therapy 1	Therapy 2	Therapy 1	
ATP Type			ATP While Charging	
ATP Upper Rate Cutoff			250 bpm/240 ms	
Number of Bursts	3		1	
Number of Stimuli	8		8	
Add Stimuli per Burst	Off			
Burst Cycle Length	85 %		85 %	
Min. Burst Cycle Length	200 ms		170 ms	
Readaptive	Off			
Scanning	On (Dec)			
Scan Step	10 ms			
Ramp	Off		Off	

SenseAbility™ Settings

	V	
	Pacemaker	Defib
Max Sensitivity	Same as Defib (0,5 mV @ 110 bpm)	0,5 mV (0,5 mV @ 110 bpm)
Low Frequency Attenuation		On
	Post-Sensed	Post-Paced
Decay Delay	60 ms	95 ms
Threshold Start	50 %	1,0 mV

DeFT Response™ Settings (Shock Waveform)

Waveform	Biphasic	
Waveform Mode	Tilt	
Shock Configuration	RV to SVC & Can	
RV Polarity	Anode(+)	
DynamicTx™ Over-Current	On	
Detection Algorithm		
	1st Phase	2nd Phase
VF Shocks (Defib)	65 %	65 %
VT Shocks (CVRT)	Same as Defib	Same as Defib
Estimated Defib Pulse Width	4,0 ms	
Estimated CVRT Pulse Width	4,0 ms	
Shock Impedance	35 Ω (Measured)	

 Last Programmed: Today 11:37
 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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Post-Shock Pacing

Mode	VVI
Base Rate	60 bpm
Pause	2 sec
Duration	0,5 min

Redetection & Post-Detection

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

	V
Pulse Amplitude	7,5 V
Pulse Width	1,5 ms

	Capacitor Maintenance
Charge Interval	6 months

MRI

MRI Mode	Pacing Off
HV Lead Type	Dual Coil

Congestion Monitoring

Congestion Monitoring	Off
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ST Monitoring Settings

Diagnostic	On			
	Resting HR	Elev. 1 HR	Elev. 2 HR	Elev. 3 HR
Heart Rate Range	55-90 bpm	91-106 bpm	107-122 bpm	123-140 bpm
Iso. Interval Start	148 ms	130 ms	118 ms	112 ms
Iso. Interval Duration	54 ms	48 ms	42 ms	42 ms
ST Interval Start	72 ms	60 ms	60 ms	54 ms
ST Interval Duration	54 ms	48 ms	42 ms	42 ms
Positive Threshold	100 % R Peak	100 % R Peak	100 % R Peak	100 % R Peak
Negative Threshold	100 % R Peak	100 % R Peak	100 % R Peak	100 % R Peak

Trigger Alerts When


	Show on FastPath™	Notify Patient
V Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
Therapy inhibits due to V lead noise	On	On
5 episodes of Non-sustained V Oversensing detected	On	Off
HV Lead Impedance Out of Range (20 - 125 Ω)	On	On
Percent V Pacing Alert (>40% over 7 days)	On	Off
ST Episode Alert	On	Off
ST Suggested Thresholds Available Alert	On	
Device at ERI	On	On
Charge Time Limit Reached (32 sec)	On	On
Possible HV Circuit Damage	On	On
Device Parameter Reset	On	On
Backup VVI	On	On

Patient Notifier Delivery

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

 Last Programmed: Today 11:37
 Parameters that are "n/a" are not shown

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

 ▶ Manual-programmed  Automatic
 ↳ Auto-programmed

Parameters

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Episode Triggers

VT (Detection)	High
VF (Detection)	High
Non-sustained V Oversensing	High
Non-sustained VT/VF	Low
Noise Reversion	Off
Magnet Response	Low
Morphology Template Update	Low

Stored EGM Configuration

VT/VF EGM Max Duration	1 min
VT/VF Pre-Trigger Max Duration	14 sec
Channels (Storage)	1 (45 min)
Channel 1	V Sense Amp

Wrap-up™ Overview

 **2 Alerts**

Page 1 of 1

Patient

 Date of Birth 23 Jul 1949
 EF % 45 %


Indications for Implant

Ischemic Cardiomyopathy, Ventricular Fibrillation (VF)

Implant Physician Kozak

Device	Manufacturer	Model	Serial	Implant Date
ICD	St. Jude Medical	Ellipse™ VR 1377-36QC	7318109	7 Mar 2017
V Lead	St. Jude Medical	Durata™ 7120Q	BNP060312	7 Mar 2017
Device cybersecurity upgrade is available				


Battery



 Longevity: 3,5 yrs


 Last Max Charge 7,5 sec (6 Jan 2022)
 Battery Current 16 uA
 Remaining Capacity to ERI 52%

Longevity estimate is based on patient history

Test Results 24 Mar 2022

 Automatic

	Capture	Sense	Lead Impedance
V	0,5V @ 0,5ms (Bi)	None (Bi)	390 Ω (Bi) 
HV			35 Ω (RV to SVC & Can) 

Parameters

		Zone Configuration	VT	VF
Mode	VVIR	Detection Criteria	176 bpm	240 bpm
Base Rate	▶80 bpm	Therapy (ENABLED)	ATP x3	ATP x1
			25,0 J	30,0 J
			30,0 J	36,0 J
			36,0 J x2	36,0 J x4

Programming Changes

	Initial	Final
Base Rate	65 bpm	▶80 bpm

Alerts

 Device cybersecurity upgrade is available
 V Percent Pacing Greater Than Limit

- ▶ Manual-programmed
- ↳ Auto-programmed