

FastPath™ Summary

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Battery Longevity: 7,0-7,9 yrs

~ERI >5 yrs

Implant Date:

21 Feb 2022

Last Max Charge Battery Current 7,8 sec (1 Feb 2022)

Battery Current 14 uA Remaining Capacity to ERI >95%

Test Results 22 Feb 2022

A Automatic

	Capture	Sense	Lead Impedance
A	0,5V @ 0,5ms (Bi) No previous results	3,0mV (Bi) 1,5mV (Bi)	440 Ω (Bi) 480 Ω (Bi)
٧	0,5V @ 0,5ms (Bi) 0,5V @ 0,5ms (Bi)	>12,0mV (Bi) >12,0mV (Bi)	600 Ω (Bi) 600 Ω (Bi)

Parameters				
Mode	DDD	Zone Configuration	VT	VF
Base Rate	▶55 bpm	Detection Criteria	181 bpm	230 bpm
Max Track Rate	110 bpm	Therapy (ENABLED)	ATP x3	ATP x1
Paced AV Delay	225 ms		25,0 J	36,0 J
Sensed AV Delay	200 ms		36,0 J	40,0 J
•			40.0 J x2	40.0 J x4

Capture & Sense	Α	٧
ACap™ Confirm/V. AutoCapture	Monitor	Off
Pulse Amplitude (Margin)	2,5 V (5.0:1)	2,5 V (5.0:1)
Pulse Width	0,5 ms	0,5 ms
AutoSense	On	On
Sensitivity	Auto 🕢	Auto 🔕

Since 22 Feb 2022	VT/VF Episodes: 0	Since 21 Fel	b 2022
<1 %		VT	VF
1,6 %	Episodes	0	0
	ATP Delivered	0	0
3	Shocks Delivered	0	0
<1%			
<1%	SVT Episodes: 0		
	Non-sustained Episode	es: 0	
	<1 % 1,6 % 3 <1%	<1 % 1,6 % Episodes ATP Delivered Shocks Delivered <1% <1% SVT Episodes: 0	<1 % 1,6 % Episodes 0 ATP Delivered 0 Shocks Delivered 0

No Alerts



Episodes Summary

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Episodes Last Cleared	21 Feb 2022 12:12
SEGMs Last Cleared	21 Feb 2022 11:45

Last Read 22 Feb 2022 8:37

Therapy Summary

	VT	VF
ATP Delivered	0	0
Shocks Delivered	0	0
Max Energy Shocks	0	0

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

Results of ATP Delivery

Last HV Lead Impedance n/a

Total Aborted Shocks 0

Episode Tree

No tachyarrhythmia episodes detected

VT/VF Episodes

No episodes recorded

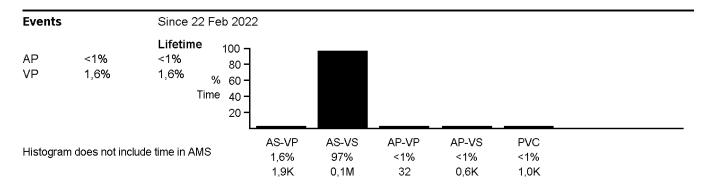
Other Episodes				
Date / Time	Type	Peak A / V Rate	Duration	Alerts
		(bpm)	(D:H:M:S)	
22 Feb 2022 8:32	AMS	427 / 171	0:00:00:40	
22 Feb 2022 8:20	AMS	415 / 149	0:00:02:42	
22 Feb 2022 8:19	AMS	334 / 127	0:00:00:20	
21 Feb 2022 14:47	Morphology Template Update			

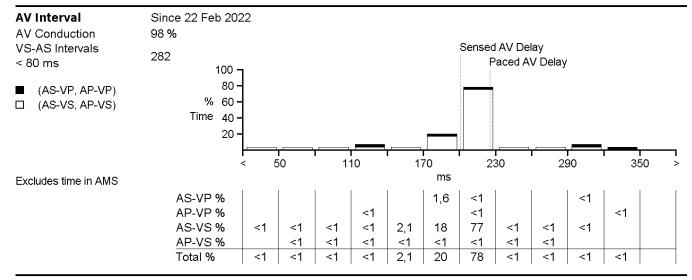


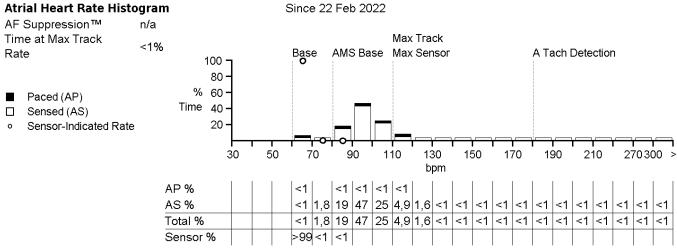
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Parameters

ModeDDDMax Track Rate110 bpmBase Rate60 bpmPaced/Sensed AV Delay225/200 msMax Sensor Rate110 bpm

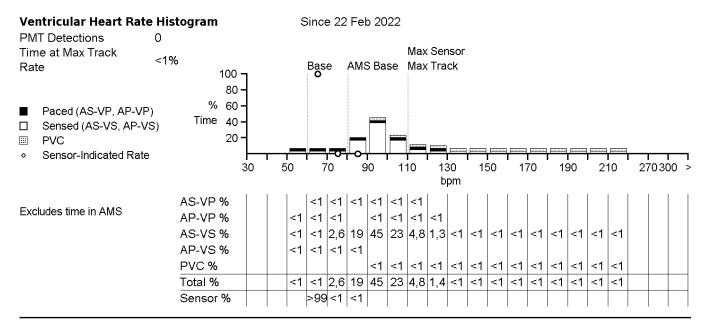








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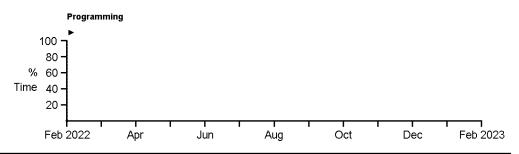
AT/AF Burden

<1%

Since 22 Feb 2022

Total AT/AF Burden <1% Since 21 Feb 2022

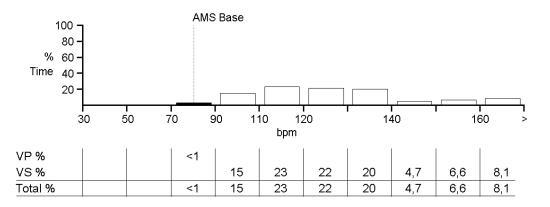
(0m 0d sampled in AT/AF)



V Rates During AMS

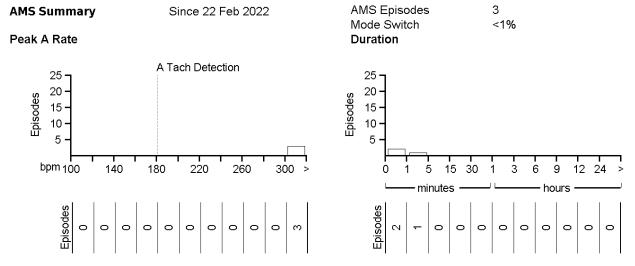
Since 22 Feb 2022







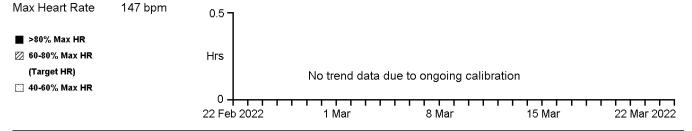
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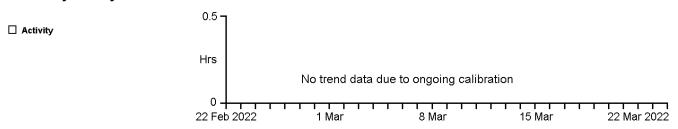
Key AMS Log Episodes	Date and Time	Peak A Rate	Peak V Rate	Duration (D:H:M:S)
Most Recent Episode	22 Feb 2022 8:32	427 bpm	171 bpm	0:00:00:40
Peak V Rate Episode	22 Feb 2022 8:32	427 bpm	171 bpm	0:00:00:40
Longest Episode	22 Feb 2022 8:20	415 bpm	149 bpm	0:00:02:42

AMS Log				
EGMs	Date and Time	Peak A Rate	Peak V Rate	Duration (D:H:M:S)
As.	22 Feb 2022 8:32	427 bpm	171 bpm	0:00:00:40
A	22 Feb 2022 8:20	415 bpm	149 bpm	0:00:02:42
₩.	22 Feb 2022 8:19	334 bpm	127 bpm	0:00:00:20

Daily Exercise Training (Activity > 1 minute)



Total Daily Activity



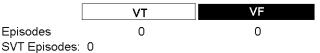


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ST Episodes Since 21 Feb 2022 No episodes detected.

VT/VF Episodes: 0 Since 21 Feb 2022

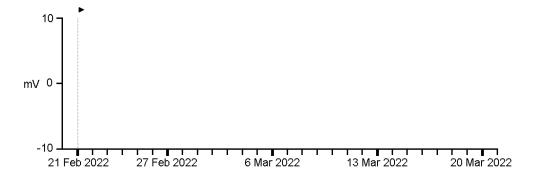
New Episodes within 15 Min. of an ST Episode: 0



ST Deviation Trend Resting HR Zone: 60-86 bpm

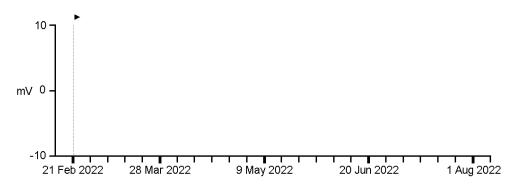
Last Month (daily)

▶ ST settings adjusted



Last 6 Months (weekly)

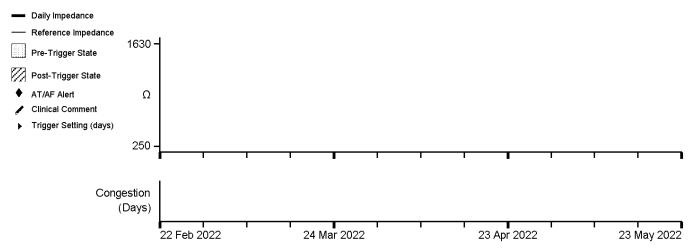
ST settings adjusted





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CorVue™ Congestion Monitoring is OFF (3 Month View)

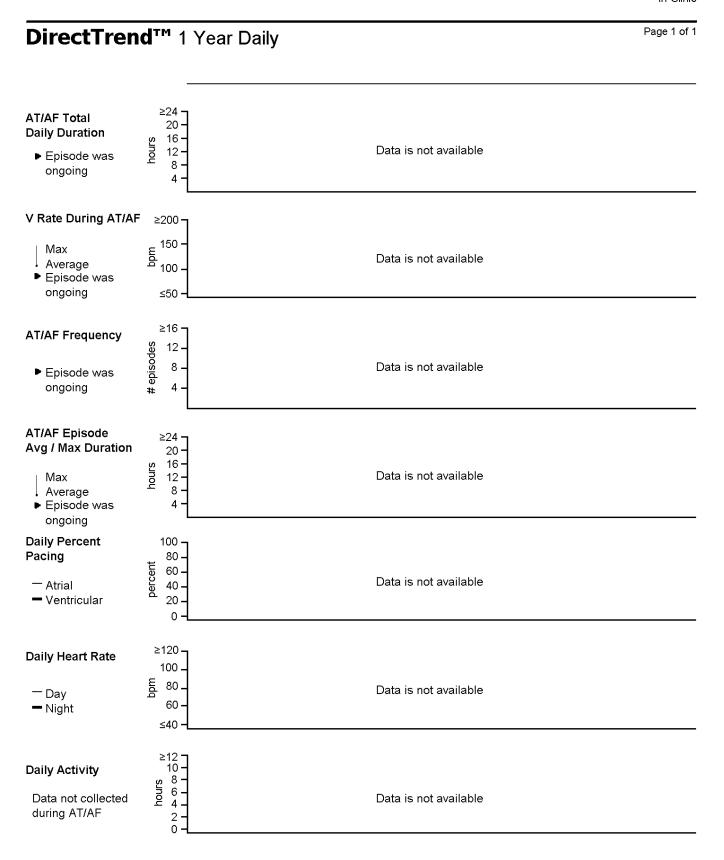


CorVue™ Congestion Monitoring is an additional information source for patient management. It is not meant to replace clinical assessments that are part of standard clinical practice.

Congestion Details (Last Session: 21 Feb 2022)

No Congestion Episodes recorded







Test Results: Atrium

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Atrial Capture Test

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

No previous results

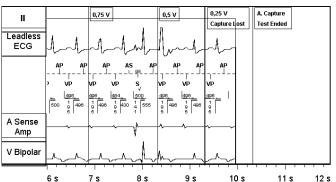
Atrial Sense Test

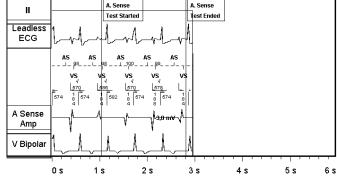
3,0 mV (Bi)

22 Feb 2022

1,5 - 1,5 mV (Bi)

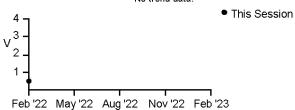
22 Feb 2022 21 Feb 2022

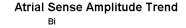


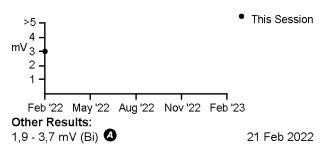


ACap™ Confirm Trend

No trend data.





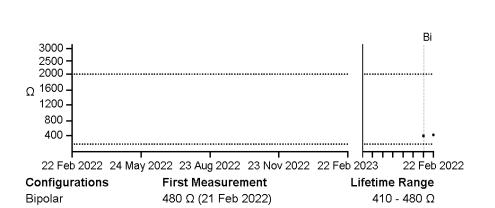


Atrial Lead Impedance:

1-year trend

440 Ω (Bi) 22 Feb 2022

Last 7 Days



Programmed Pulse Bipolar Configuration Lead Monitoring Monitor Lower Limit 200Ω Upper Limit 2.000Ω



Test Results: Ventricle

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Ventricular Capture Test

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

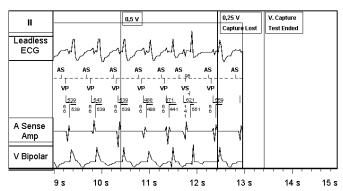
0,5 V @ 0,5 ms (Bi)

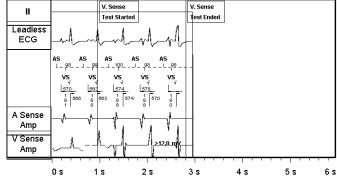
22 Feb 2022 21 Feb 2022

Ventricular Sense Test

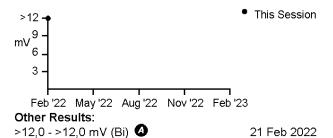
>12,0 mV (Bi) >12,0 ->12,0 mV (Bi) 22 Feb 2022

21 Feb 2022

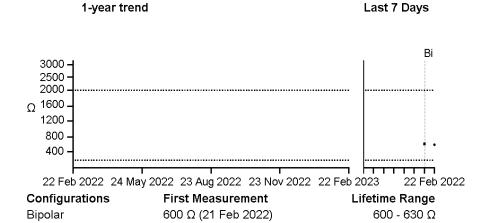




Ventricular Sense Amplitude Trend



Ventricular Lead Monitoring: 600 Ω (Bi) 22 Feb 2022



Configuration V. Lead Monitoring Monitor Lower Limit 200Ω Upper Limit 2.000Ω

Bipolar

Programmed Pulse



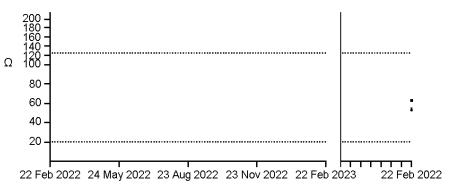
Test Results: HV Lead Impedance and Battery

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44 Ω (RV to SVC & Can) 22 Feb 2022

1-year trend Last 7 Days



 $\begin{array}{lll} \mbox{Programmed Shock} & \mbox{RV to SVC} \\ \mbox{Configuration} & \& \mbox{Can} \\ \mbox{Lower Limit} & 20 \ \Omega \\ \mbox{Upper Limit} & 125 \ \Omega \\ \end{array}$

- RV to Can
- RV to SVC
- SVC to Can

P Therapies

First Measurement Lifetime Range RV to Can 74 Ω (21 Feb 2022)

 $63 - 74 \Omega$

RV to SVC 52 Ω (21 Feb 2022)

SVC to Can 65 Ω (21 Feb 2022)

52 - 53 Ω 53 - 65 Ω

Battery Information

Longevity: 7,0-7,9 yrs



Last Max Charge

Battery Current

Remaining Capacity to ERI

7,8 sec (1 Feb 2022)

14 uA >95% Longevity estimate is based on

patient history

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Presenting Rhythm Freeze

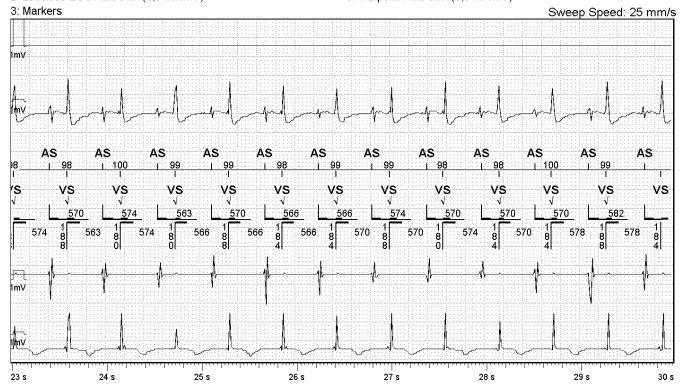
22 Feb 2022 8:37

Key Parameters

Mode DDD Base Rate 60 bpm Rest Rate Off Paced AV Delay 225 ms Sensed AV Delay 200 ms Max Track Rate 110 bpm Max Sensor Rate 110 bpm Hysteresis Rate Off ACap™ Confirm Monitor V. AutoCapture Off AF Suppression™ Off Ventricular Intrinsic Preference (VIP™) On Negative AV Hysteresis/Search Off Rate Responsive AV Delay Off Rate Responsive PVARP/V Ref High Ventricular Safety Standby On

- 1: II AutoGain (100,0 mm/mV)
- 2: Leadless ECG AutoGain (0,9 mm/mV)

- 4: A Sense Amp AutoGain (2,5 mm/mV)
- 5: V Bipolar AutoGain (0,9 mm/mV)





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110 bpm

Parameters

Indications for Implant

Date of Birth EF %

30 %

31 Mar 1948

Device	Manufacturer	Model	Serial	Implant Date
ICD	St. Jude Medical	Fortify Assura™ DR 2359-40QC	9971166	21 Feb 2022
A Lead				

V Lead

Basic Operation	
Mode	DDD
Magnet Response	Normal
V. Noise Reversion Mode	Pacing Off
Episodal Pacing Mode	DDI
Sensor	Passive
Threshold (Measured Avg.)	Auto (+0.0) (2,0)
Slope	8
Max Sensor Rate	110 bpm
Posetion Time	Fact

Rates	
Recovery Time	Medium
Reaction Time	Fast
Max Sensor Rate	110 bpm
Slope	8

Rates	
Base Rate	▶55 bpm
Rest Rate	▶50 bpm
Max Sensor Rate	110 bpm
Max Track Rate	110 bpm
Hysteresis Rate	▶50 bpm
Search Interval	 Off
Cycle Count	▶1 cycles
2:1 Block Rate	141 bpm

Delays	
Paced AV Delay	225 ms
Sensed AV Delay	200 ms
Rate Responsive AV Delay	Off
Ventricular Intrinsic Preference (VIP™)	On
VIP™ Extension	100 ms
Search Interval	1 min
Search Cycles	1
Negative AV Hysteresis/Search	Off

Capture & Sense	Α
ACap™ Confirm/V. AutoCapture	Monitor
Backup Pulse Configuration	Bipolar
Search Interval	8 hours
Pulse Amplitude (Margin)	2,5 V (5.0
Pulse Width	0,5 ms
AutoSense	On
Sensitivity	Auto 🕢

	Refractories & Blanking	
	PVARP	275 ms
	Post-Vent. Atrial Blanking	60 ms
	Rate Responsive PVARP/V Ref	High
	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

AT/AF Detection & Response	
Auto Mode Switch	DDIR
A. Tachycardia Detection Rate	180 bpm
AMS Base Rate	80 bpm
AF Suppression™	Off

PMT Detection Rate

aptare & Sense		v
Cap™ Confirm/V. AutoCapture	Monitor	Off
Backup Pulse Configuration	Bipolar	
Search Interval	8 hours	
Pulse Amplitude (Margin)	2,5 V (5.0:1)	2,5 V (5.0:1)
Pulse Width	0,5 ms	0,5 ms

Last Programmed: Today 8:42 Parameters that are "n/a" are not shown

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

On

Auto 🙆

▶ Manual-programmed

Automatic



Parameters

HVLI Upper Limit

SVT Discrimination

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Leads	Α	٧
Lead Type	Bipolar	Bipolar
Pulse Configuration	Bipolar	Bipolar
Sense Configuration	Bipolar	Bipolar
Lead Monitoring	Monitor	Monitor
Lower Limit	200 Ω	200 Ω
Upper Limit	2.000Ω	2.000 Ω
HVLI Lower Limit		20 Ω

ShockGuard™ Settings (Zone Configuration)

	L VT	VF
Detection Criteria	181 bpm/330 ms	230 bpm/260 ms
	50 intervals	12 intervals

Therapy	ATP x3	ATP x1

On

25,0 J/704 V 36,0 J/845 V 36,0 J/845 V 40,0 J/890 V x4 40,0 J/890 V x4

125 Ω

VT Therapy Timeout Off

SVT Discrimination

SVT Discrimination Dual Chamber

SVT Discrimination Timeout Off

SVT Upper Limit Same as VF

Rate Branch AF/A Flutter		Additional Discriminators			Diagnosis	
		Morphology		Interval Stability		If All of the criteria in
V < A		Morphology Type Match	90 %, 3 of 10	Interval Stability Stability Delta AV Association Delta Window Size	On w/AVA 40 ms 60 ms 12 intervals	this rate branch indicate VT, deliver therapy.
		Configuration AutoUpdate Hysteresis	RV Coil-Can 3 hrs Off			
Sinus Tach		Morphology		Arrhythmia Onset		If All of the criteria in
V = A: AV Interval Delta:	On Off	Morphology Same as V < A	On	Chamber Onset Sudden Onset	On Off	this rate branch indicate VT, deliver therapy.
VT/VF V > A						If Ventricular Rate is greater than the Atrial Rate, deliver therapy.

Last Programmed: Today 8:42
Parameters that are "n/a" are not shown

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

Manual-programmedAuto-programmed

Automatic

On

Therapy 1

8

85 %

Off

Pacemaker

170 ms

ATP While Charging

250 bpm/240 ms



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Parameters

SecureSense™ Settings

SecureSense™

Far Field MD / SecureSense™ Configuration RV Coil-Can

Timeout Until Therapy Off

Trigger alert for Non-sustained V Oversensing (NSO) 5 episodes

ATP Details

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

> VT Therapy 1 Therapy 2

ATP Type

ATP Upper Rate Cutoff Number of Bursts 3 8 Number of Stimuli

Off Add Stimuli per Burst Burst Cycle Length 85 % Min. Burst Cycle Length 200 ms

Readaptive Off Scanning On (Dec) Scan Step 10 ms

Ramp Off

SenseAbility™ Settings

Α

Max Sensitivity 0,3 mV Same as Defib $0.5 \, \text{mV}$

(0,3 mV @ 110 bpm) (0,5 mV @ 110 bpm) (0,5 mV @ 110 bpm)

Low Frequency Attenuation

Post-Sensed Post-Paced Post-Sensed Post-Paced

Decay Delay 0 ms 0 ms 60 ms 95 ms Threshold Start 50 % 0,8 mV 50 % 1,0 mV

DeFT Response™ Settings (Shock Waveform)

Waveform Biphasic Waveform Mode Tilt

RV to SVC & Can Shock Configuration

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

5,5 ms

Estimated Defib Pulse Width 5,5 ms

Shock Impedance 44 Ω (Measured)

Last Programmed: Today 8:42

Estimated CVRT Pulse Width

Parameters that are "n/a" are not shown

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

▶ Manual-programmed ♣ Auto-programmed

٧

Defib

Automatic



Parameters

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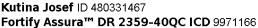
Post-Shock Pacing Mode Base Rate Pause Duration	DDD 60 bpm 2 sec 0,5 min		VT Red Sinus F Post VF	ection & Post-De etection Redetection Detection	tection 6 intervals Nominal (5 intervals) Same as VT Same as VT
Pulse Amplitude Pulse Width	A 7,5 V 1,5 ms	V 7,5 V 1,5 ms		tor Maintenance Interval	4 months
MRI MRI Mode HV Lead Type		Pacing Off Dual Coil			
Congestion Monitoring Congestion Monitoring	Off				
ST Monitoring Settings Diagnostic	On				
Heart Rate Range	Resting H • 50-86 bpm		v. 1 HR 04 bpm	Elev. 2 HR 105-122 bpm	Elev. 3 HR 123-140 bpm
lso. Interval Start	4160 ms	\ 136	ms	9130 ms	4124 ms
lso. Interval Duration	960 ms	454 n	าร	448 ms	448 ms
ST Interval Start	478 ms	66 n	าร	60 ms	460 ms
ST Interval Duration	960 ms	48 n	าร	448 ms	42 ms
Positive Threshold	100 % R F	Peak 100	% R Peak	100 % R Pea	ak 100 % R Peak
Negative Threshold	100 % R F	Peak 100	% R Peak	100 % R Pea	ik 100 % R Peak
Trigger Alerts When			Show o	on FastPath™	Notify Patient
AT/AF Episode (3 hours)			On		
AT/AF Burden (6 hours evalua	AT/AF Burden (6 hours evaluated daily)			Off	
V Rate during AT/AF (100 bpm for 6 hours, evaluated daily)					Off
•	A Lead Impedance Out of Range (200 - 2.000 Ω)				On
V Lead Impedance Out of Range (200 - 2.000 Ω)				n On	
Therapy inhibits due to V lead noise			On On		
5 episodes of Non-sustained V Oversensing detected 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		
ST Suggested Thresholds Available Alert			On		
Device at ERI			On		On
	Charge Time Limit Reached (32 sec)				On
Possible HV Circuit Damage			On		On
Device Parameter Reset			On		On
Backup VVI			On		On

Last Programmed: Today 8:42
Parameters that are "n/a" are not shown

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

Manual-programmedAuto-programmed







Foi

22 Feb 2022 8:43 In-Clinic

Parameters

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Patient	Notifier	Delivery
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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 Non-sustained V Oversensing High Non-sustained VT/VF Low PMT Off 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) 2 (22 min)
Channel 1 A Sense Amp
Channel 2 V Sense Amp



Wrap-up™ Overview

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Patient

Indications for Implant

Date of Birth

31 Mar 1948 30 %

EF %

Device Manufacturer ICD St. Jude Medical Model Fortify Assura™ DR 2359-40QC Serial 9971166 Implant Date

21 Feb 2022

A Lead V Lead

Battery

Longevity: 7,0-7,9 yrs

> 5 yrs ~ERI

Last Max Charge **Battery Current**

14 uA >95% Remaining Capacity to ERI

7,8 sec (1 Feb 2022)

Longevity estimate is based on

patient history

Test Results 22 Feb 2022 Automatic

Capture

Sense

Lead Impedance

Α 0,5V @ 0,5ms (Bi)

3,0mV (Bi)

440 Ω (Bi)

٧ 0,5V @ 0,5ms (Bi)

>12,0mV (Bi)

600 Ω (Bi)

HV

44 Ω (RV to SVC & Can)

۷F

Parameters

DDD Zone Configuration Mode **▶55** bpm Detection Criteria Base Rate Therapy (ENABLED) Max Track Rate 110 bpm Paced AV Delay 225 ms Sensed AV Delay 200 ms

VT 181 bpm 230 bpm ATP x3 ATP x1 25,0 J 36,0 J 36,0 J 40,0 J 40,0 J x2 40,0 J x4

Programming Changes	Initial	Final
Base Rate	60 bpm	▶55 bpm
Cycle Count	n/a	♣1 cycles
Elevated 1 Isoelectric Interval Duration	48 ms	∿ 54 ms
Elevated 1 Isoelectric Interval Start	130 ms	∿ 136 ms
Elevated 2 Isoelectric Interval Duration	42 ms	- 48 ms
Elevated 2 Isoelectric Interval Start	124 ms	∿ 130 ms
Elevated 2 ST Interval Duration	42 ms	• 48 ms
Elevated 3 Isoelectric Interval Duration	42 ms	∿ 48 ms
Elevated 3 Isoelectric Interval Start	118 ms	▶ 124 ms
Elevated 3 ST Interval Start	54 ms	∿ 60 ms
Hysteresis Rate	Off	▶50 bpm
Rest Rate	Off	▶50 bpm
Resting Isoelectric Interval Duration	54 ms	∿ 60 ms
Resting Isoelectric Interval Start	148 ms	∿ 160 ms
Resting Min Rate	60 bpm	∿ 50 bpm
Resting ST Interval Duration	54 ms	∿ 60 ms
Resting ST Interval Start	72 ms	∿ 78 ms
Search Interval	n/a	₽ Off

- Manual-programmed
- Auto-programmed



Wrap-up™ Overview

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No Alerts

[▶] Manual-programmed