

# FastPath™ Summary

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## Battery



Implant Date: 29 Mar 2022

 Voltage 2,99 V  
 Magnet Rate 100,0 ppm  
 Battery Current 12 uA  
 Remaining Capacity to ERI >95%

 Longevity estimate is available after  
 24 hours of patient history is collected

## Test Results 29 Mar 2022

4 Automatic

	Capture	Sense	Lead Impedance
A	0,5V @ 0,4ms (Bi) No previous results	2,2mV (Bi) No previous results	400 Ω (Bi) No previous results
V	0,5V @ 0,4ms (Bi) No previous results	>12,0mV (Bi) No previous results	550 Ω (Bi) No previous results

## Parameters

Mode	↳ DDDR
Base Rate	↳ 55 bpm
Max Track Rate	130 bpm
Paced AV Delay	200 ms
Sensed AV Delay	150 ms

## Capture & Sense

	A	V
AutoCapture		Off
Pulse Amplitude (Margin)	2,5 V (5.0:1)	2,5 V (5.0:1)
Pulse Width	0,4 ms	0,4 ms
Sensitivity (Safety Margin)	0,5 mV (3.8:1)	2,0 mV (5.6:1)

## Diagnostics Summary

Since 29 Mar 2022

AP	0 %
VP	100 %

AMS Episodes	0
Mode Switch	0%
AT/AF Burden	0%

## Episodes Summary

Since 29 Mar 2022

	Counts	EGMs
AMS Entry	0	0
High Ventricular Rate	0	0
Magnet Response	0	0

## No Alerts

▶ Manual-programmed    ↳ Auto-programmed

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## Episodes Summary

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Episodes/SEGMs Last Cleared	29 Mar 2022 7:48	Last Read	29 Mar 2022 7:48
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### Triggers

	Counts	EGMs
AMS Entry	0	0
High Ventricular Rate (5 cycles @ 175 bpm)	0	0
Magnet Response	0	0

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### Device Reversions

	Counts	Last Recorded
A. Noise Reversion	1	28 Mar 2022
V. Noise Reversion	1	28 Mar 2022

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### Episodes

No episodes recorded

## Extended Diagnostics

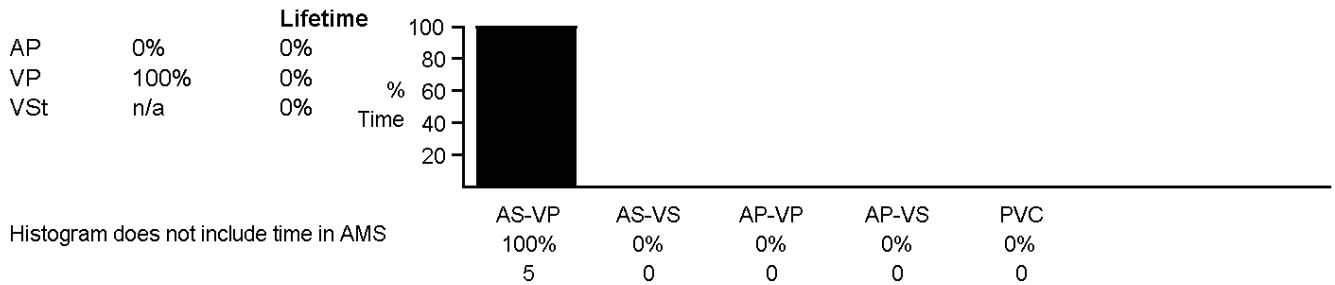
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### Parameters

Mode	DDD	Max Track Rate	130 bpm
Base Rate	60 bpm	Paced/Sensed AV Delay	200/150 ms
Max Sensor Rate	130 bpm		

### Events

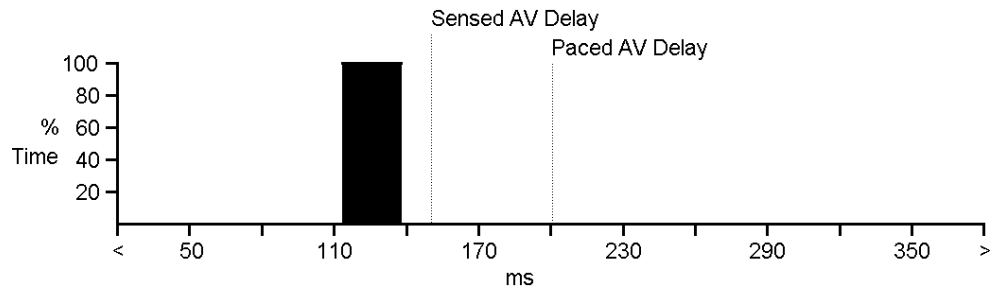
Since 29 Mar 2022



### AV Interval

Since 29 Mar 2022

 AV Conduction 0 %  
 VS-AS Intervals < 80 ms 0

 ■ (AS-VP, AP-VP)  
 □ (AS-VS, AP-VS)


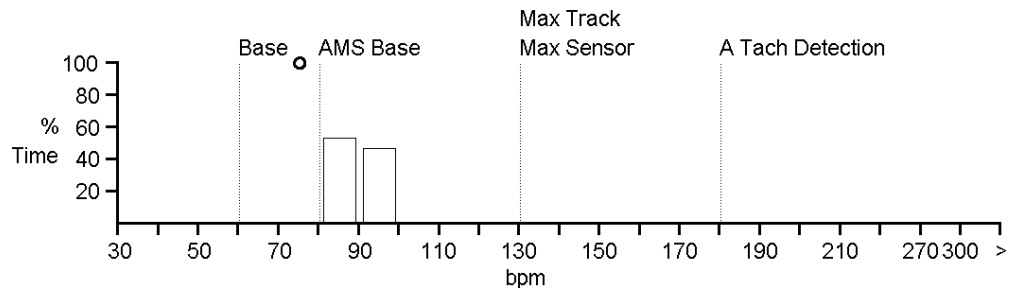
Excludes time in AMS

AS-VP %	100
AP-VP %	
AS-VS %	
AP-VS %	
Total %	100

### Atrial Heart Rate Histogram

Since 29 Mar 2022

 AF Suppression™ n/a  
 Time at Max Track Rate 0%

 ■ Paced (AP)  
 □ Sensed (AS)  
 ○ Sensor-Indicated Rate


AP %	
AS %	53 47
Total %	53 47
Sensor %	100



## Extended Diagnostics

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## Ventricular Heart Rate Histogram

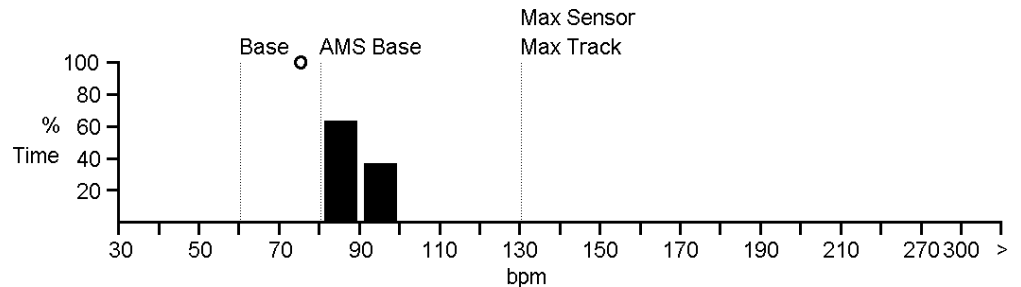
Since 29 Mar 2022

PMT Detections 0

Time at Max Track 0%

Rate

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



Excludes time in AMS

AS-VP %	63	37
AP-VP %		
AS-VS %		
AP-VS %		
PVC %		
Total %	63	37
Sensor %	100	

## AT/AF Burden

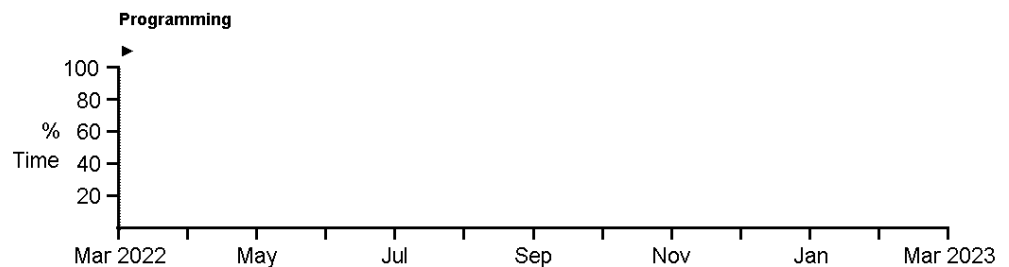
0%

Since 29 Mar 2022

Total AT/AF Burden 0%

Since 29 Mar 2022

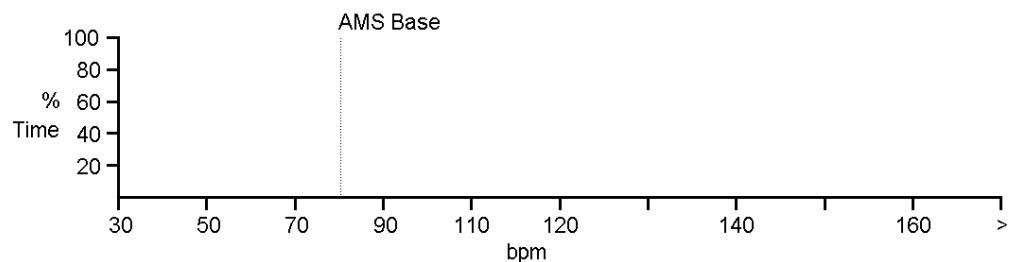
(0m 0d sampled in AT/AF)



## V Rates During AMS

Since 29 Mar 2022

- Paced (VP)
- Sensed (VS)



VP %	
VS %	
Total %	

## Extended Diagnostics

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### AMS Summary

Since 29 Mar 2022

AMS Episodes

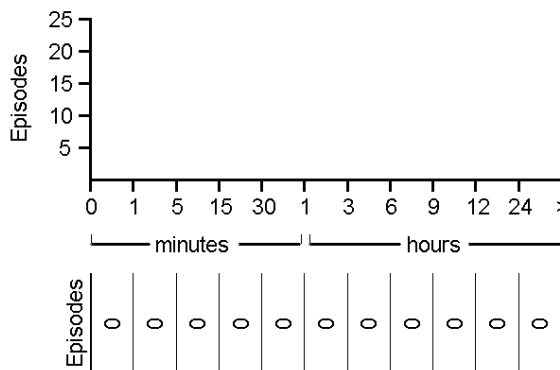
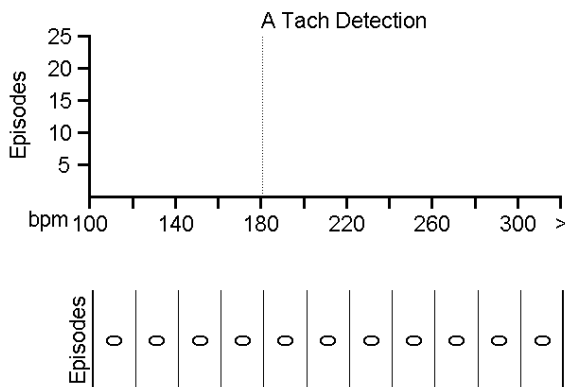
0

Mode Switch

0%

Duration

Peak A Rate



### Key AMS Log Episodes

No AMS episodes recorded

### AMS Log

No AMS episodes recorded

### Key HVR Log Episodes

No High Ventricular Rate episodes recorded

### HVR Log

No High Ventricular Rate episodes recorded

## DirectTrend™ 1 Year Daily

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### AT/AF Total Daily Duration

► Episode was  
ongoing



### V Rate During AT/AF

↓ Max  
Average  
► Episode was  
ongoing



### AT/AF Frequency

► Episode was  
ongoing



### AT/AF Episode Avg / Max Duration

↓ Max  
Average  
► Episode was  
ongoing



### Daily Percent Pacing

— Atrial  
— Ventricular



### Daily Heart Rate

— Day  
— Night



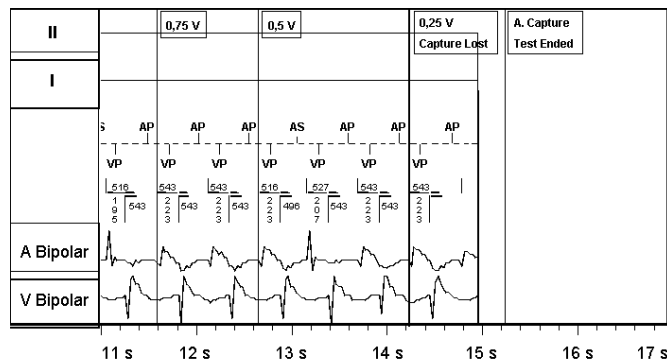
## Test Results: Atrium

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### Atrial Capture Test

0,5 V @ 0,4 ms (Bi)  
Safety Margin: 5,0 : 1 @ 2,5 V  
No previous results

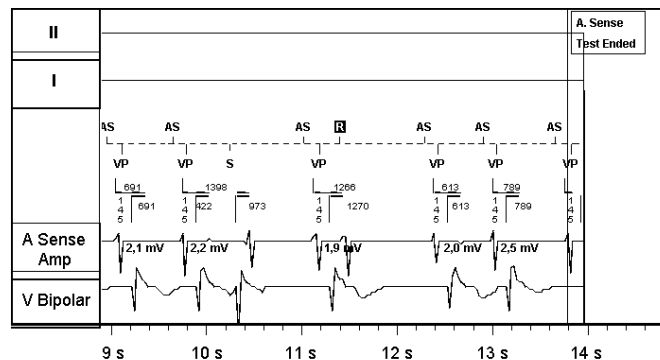
29 Mar 2022



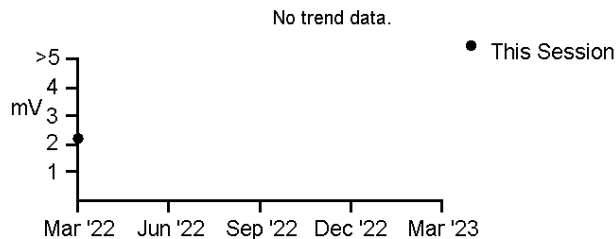
### Atrial Sense Test

2,2 mV (1,9 - 2,5 mV) (Bi)  
Safety Margin: 3,8 : 1 @ 0,5 mV  
No previous results

29 Mar 2022



### Atrial Sense Amplitude Trend



### Atrial Lead Impedance:

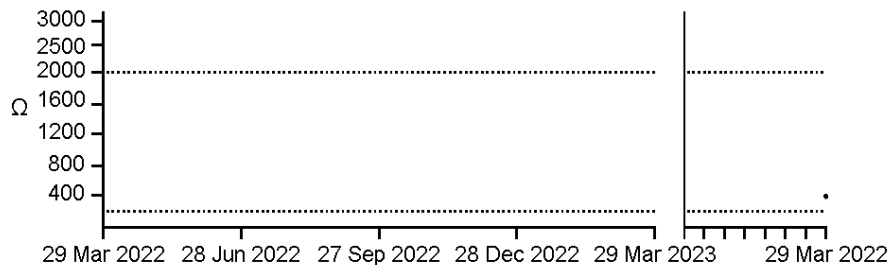
400  $\Omega$  (Bipolar) 29 Mar 2022

#### 1-year trend

**A** Auto Polarity Switch

#### Last 7 Days

Programmed Pulse Configuration  
Lead Monitoring  
Lower Limit 200  $\Omega$   
Upper Limit 2.000  $\Omega$



#### Configurations

Bipolar

#### First Measurement

400  $\Omega$  (29 Mar 2022)

#### Lifetime Range

400  $\Omega$

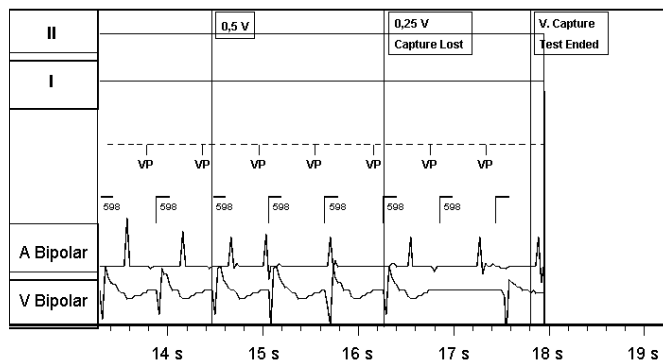
## Test Results: Ventricle

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### Ventricular Capture Test

0,5 V @ 0,4 ms (Bi)  
Safety Margin: 5,0 : 1 @ 2,5 V  
No previous results

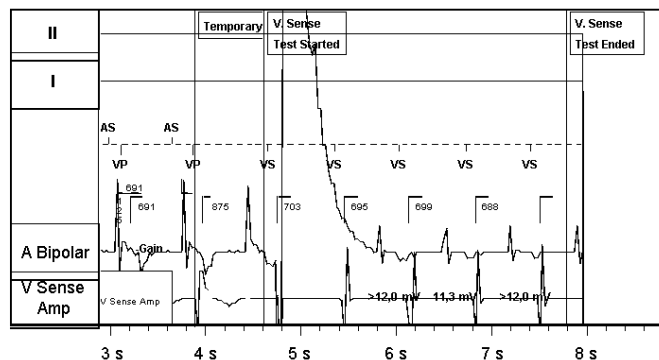
29 Mar 2022



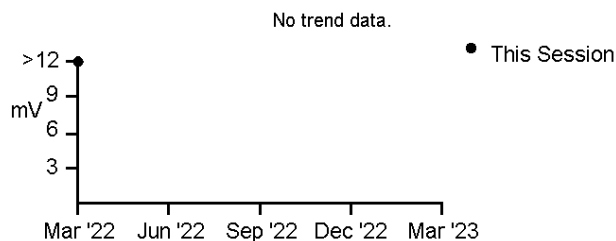
### Ventricular Sense Test

>12,0 mV (11,3 - >12,0 mV) (Bi)  
Safety Margin: 5,6 : 1 @ 2,0 mV  
No previous results

29 Mar 2022



### Ventricular Sense Amplitude Trend



### Ventricular Lead Monitoring:

550 Ω (Bipolar) 29 Mar 2022

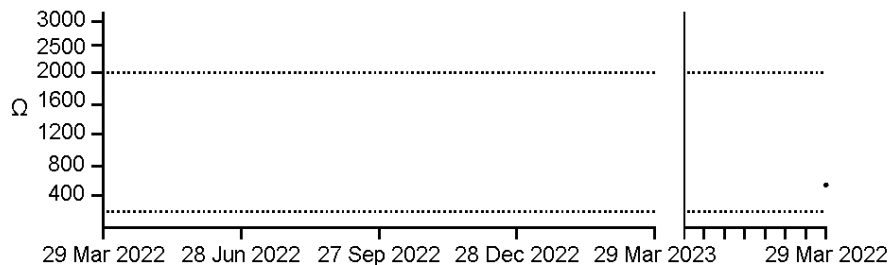
1-year trend

**A** Auto Polarity Switch

Last 7 Days

Programmed Pulse Configuration  
Bipolar  
V. Lead Monitoring Monitor

Lower Limit 200 Ω  
Upper Limit 2.000 Ω



Configurations

Bipolar

First Measurement

550 Ω (29 Mar 2022)

Lifetime Range

550 Ω



## Test Results: Battery

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### Battery Information

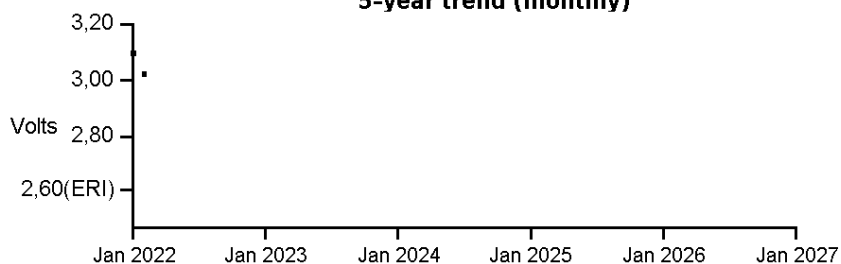


Voltage	2,99 V
Magnet Rate	100,0 ppm
Battery Current	12 uA
Remaining Capacity to ERI	>95%

Longevity estimate is available after  
 24 hours of patient history is collected

### Voltage Trend

#### 5-year trend (monthly)



2 months sampled

# Presenting Rhythm Freeze

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29 Mar 2022 7:46

☒ Temporary

## Key Parameters

Mode	DDD
Base Rate	60 bpm
Rest Rate	Off
Paced AV Delay	200 ms
Sensed AV Delay	150 ms
Max Track Rate	130 bpm
Max Sensor Rate	130 bpm
Hysteresis Rate	Off
V. AutoCapture	Off
AF Suppression™	Off
Ventricular Intrinsic Preference (VIP™)	Off
Negative AV Hysteresis/Search	Off
Rate Responsive AV Delay	<input checked="" type="checkbox"/> Off
Rate Responsive PVARP/V Ref	<input checked="" type="checkbox"/> Off
Ventricular Safety Standby	On

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

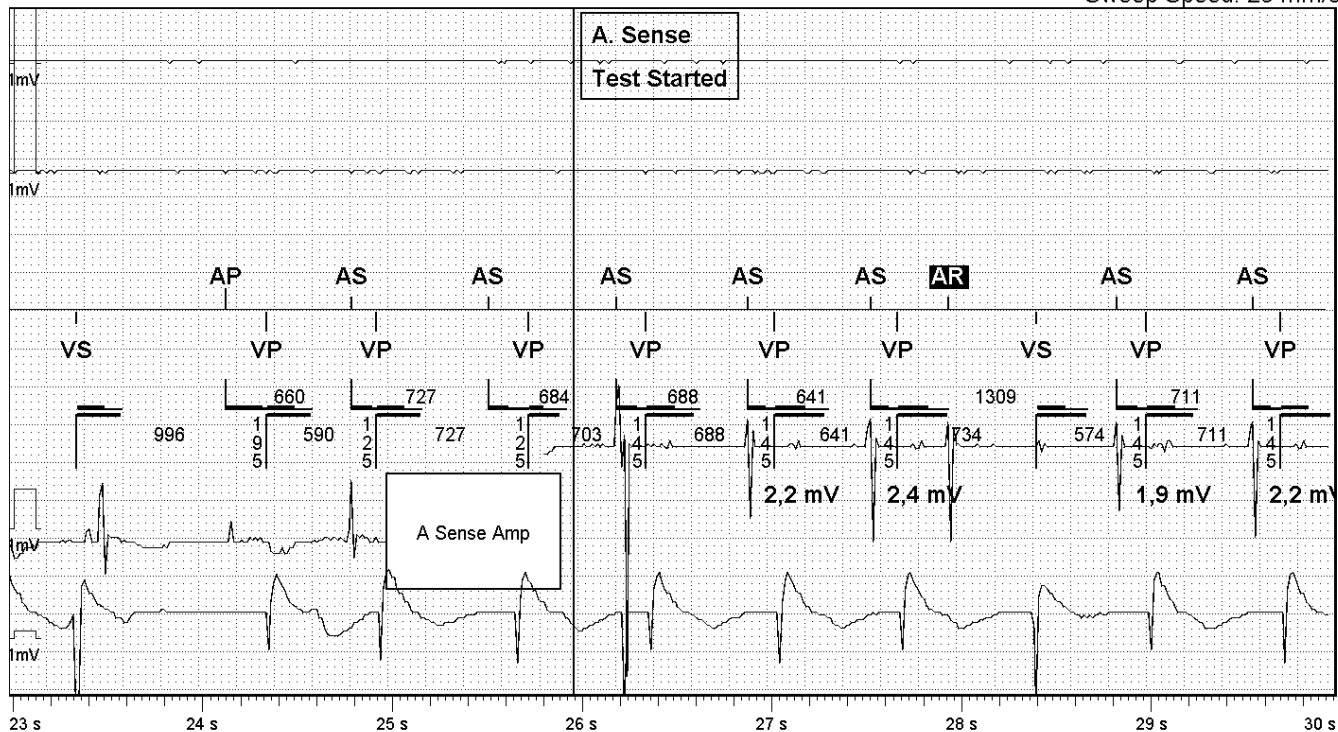
4: A Bipolar AutoGain (5,4 mm/mV)

2: I AutoGain (100,0 mm/mV)

5: V Bipolar AutoGain (1,2 mm/mV)

3: Markers

Sweep Speed: 25 mm/s



# Parameters

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**Patient**

Date of Birth

EF %

Unknown

**Indications for Implant**
**Device**

Pacemaker

A Lead

V Lead

**Manufacturer**

St. Jude Medical

**Model**

Endurity™ Core 2152

**Serial**

6378045

**Implant Date**

29 Mar 2022

Additional Cardiac Hardware - Unknown

**Basic Operation**

Mode

V. Triggering

Magnet Response

V. Noise Reversion Mode

Sensor

Threshold (Measured Avg.)

Slope (Measured Auto)

Max Sensor Rate

Reaction Time

Recovery Time

**▶ DDDR**

Off

Battery Test

DOO

**▶ On**

Auto (+0.0) (2,0)

Auto (+2) (8)

130 bpm

Fast

Medium

**Refractories & Blanking**

PVARP

Post-Vent. Atrial Blanking

Rate Responsive PVARP/V Ref

Shortest PVARP/V Ref

A/V Pace Refractory

A/V Sense Refractory

Ventricular Blanking

Ventricular Safety Standby

PVC Response

PMT Response

PMT Detection Rate

275 ms

150 ms

High

175 ms

190/250 ms

93/250 ms

44 ms

On

Off

Atrial Pace

130 bpm

**Rates**

Base Rate

Rest Rate

Max Sensor Rate

Max Track Rate

Hysteresis Rate

Search Interval

Cycle Count

Intervention Rate

2:1 Block Rate

**▶ 55 bpm**
**▶ 50 bpm**

130 bpm

130 bpm

**▶ 50 bpm**
**▶ Off**
**▶ 1 cycles**
**▶ Off**

185 bpm

**AT/AF Detection & Response**

Auto Mode Switch

A. Tachycardia Detection Rate

AMS Base Rate

AF Suppression™

DDIR

180 bpm

80 bpm

Off

**Delays**

Paced AV Delay

Sensed AV Delay

Rate Responsive AV Delay

Ventricular Intrinsic Preference (VIP™)

VIP™ Extension

Search Interval

Search Cycles

Negative AV Hysteresis/Search

200 ms

150 ms

**▶ Off**
**▶ On**
**▶ 100 ms**
**▶ 1 min**
**▶ 1**

Off

**Capture & Sense**

AutoCapture

Pulse Amplitude (Margin)

Pulse Width

Sensitivity (Safety Margin)

A

2,5 V (5.0:1)

0,4 ms

0,5 mV (3.8:1)

V

Off

2,5 V (5.0:1)

0,4 ms

2,0 mV (5.6:1)

Last Programmed: Today 7:48

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

**A** Automatic



## Parameters

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### Leads

	A	V
Lead Type	Bipolar	Bipolar
Pulse Configuration	Bipolar	Bipolar
Sense Configuration	Bipolar	Bipolar
Lead Monitoring	Monitor	Monitor
Lower Limit	200 $\Omega$	200 $\Omega$
Upper Limit	2.000 $\Omega$	2.000 $\Omega$

### MRI

MRI Mode	DOO
MRI Base Rate	85 bpm
MRI V. Pulse Amplitude	5,0 V
MRI V. Pulse Width	1,0 ms
MRI V. Pulse Configuration	Bipolar
MRI Activator	Disabled

### Trigger Alerts When

High Ventricular Rate (175 bpm, 5 cycles)	On
AT/AF Episode (3 hours)	On
AT/AF Burden (6 hours evaluated daily)	On
V Rate during AT/AF (100 bpm for 6 hours, evaluated daily)	On
A Lead Impedance Out of Range (200 - 2.000 $\Omega$ )	On
V Lead Impedance Out of Range (200 - 2.000 $\Omega$ )	On
Percent V Pacing Alert (>40% over 7 days)	On
Device at ERI	On
Device Parameter Reset	On
Backup VVI	On

### Show on FastPath™

### Episode Triggers

Atrial Episode (AMS Entry)	Low
High Ventricular Rate (5 @ 175 bpm)	High
Consecutive PVCs (n/a)	Off
PMT	Off
Noise Reversion	Off
Magnet Response	Low

### Stored EGM Configuration

Channels (Storage)	2 (4 SEGMs)
Channel 1	A Sense Amp
Channel 2	V Sense Amp

# Wrap-up™ Overview

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**Patient**

 Date of Birth  
 EF %

Unknown

**Indications for Implant**
**Device**

 Pacemaker  
 A Lead  
 V Lead

**Manufacturer**

St. Jude Medical

**Model**

Endurity™ Core 2152

**Serial**

6378045

**Implant Date**

29 Mar 2022

**Battery**

 Voltage 2,99 V  
 Magnet Rate 100,0 ppm  
 Battery Current 12 uA  
 Remaining Capacity to ERI >95%

 Longevity estimate is available after  
 24 hours of patient history is collected

**Test Results** 29 Mar 2022

**A** Automatic

	Capture	Sense	Lead Impedance
A	0,5V @ 0,4ms (Bi)	2,2mV (Bi)	400 Ω (Bi)
V	0,5V @ 0,4ms (Bi)	>12,0mV (Bi)	550 Ω (Bi)

**Parameters**

 Mode ↘ DDDR  
 Base Rate ↗ 55 bpm  
 Max Track Rate 130 bpm  
 Paced AV Delay 200 ms  
 Sensed AV Delay 150 ms

**Programming Changes**

	Initial	Final
Base Rate	60 bpm	↗ 55 bpm
Cycle Count	n/a	↘ 1 cycles
Hysteresis Rate	Off	↗ 50 bpm
Intervention Rate	n/a	↘ Off
Mode	DDD	↘ DDDR
MRI Mode	VOO	DOO
Rate Responsive AV Delay	Medium	↘ Off
Rest Rate	Off	↗ 50 bpm
Search Cycles	n/a	↘ 1
Search Interval	n/a	↘ Off
Search Interval	n/a	↘ 1 min
Sensor	Passive	↗ On
Shortest AV Delay	100 ms	↘ n/a
Ventricular Intrinsic Preference (VIP™)	Off	↗ On
VIP™ Extension	n/a	↘ 100 ms

**No Alerts**

- ↗ Manual-programmed
- ↘ Auto-programmed

## MRI Summary (MRI Settings Disabled)

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Leads	Manufacturer	Model	Serial	Implant Date
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A  
V

Parameter	Permanent (Currently programmed)	MRI
Mode	DDDR	DOO
Base Rate	55 bpm	85 bpm
Paced AV Delay	200 ms	n/a
A/V Pulse Amplitude	2,5 / 2,5 V	n/a / 5,0 V
A/V Pulse Width	0,4 / 0,4 ms	n/a / 1,0 ms
A/V Pulse Configuration	Bipolar / Bipolar	n/a / Bipolar
MRI Activator	Disabled	Disabled

### MRI Checklist

☒ Items with a checkmark were assessed during the session.

	A	V
<input type="checkbox"/> Bipolar Capture	0,5 V @ 0,4 ms	0,5 V @ 0,4 ms
Thresholds are stable at ≤ 2.5V @ 0.5ms		
<input checked="" type="checkbox"/> Bipolar Pacing Lead	400 Ω	550 Ω
Impedances are within range		

☐ SJM leads are approved for MRI  
 No Additional Cardiac Hardware (adapters, extenders, abandoned leads)



MRI Conditional

MRI scanning conditions are determined by the combination of cardiac devices and lead(s), please refer to manuals.sjm.com.

### MRI Log

Date Enabled	Time In	Time Out	Duration (D:H:M)
No entries found			