FastPath™ Summary

2 Alerts

Battery
Longevity: 5,1-5,4 yrs

Implant Date:	8 Mar 2022
Last Max Charge	8,6 sec (Therapy)
Battery Current	21 uA
Remaining Capacity to ERI	91%

Test Results 9 Mar 2022 — Ⓐ Automatic

	Capture	Sense	Lead Impedance
A	**Not Performed** 0,75V @ 0,7ms (Bi)	**Not Performed** None (Bi)	**Not Performed** 390 Ω (Bi)
RV	**Not Performed** 0,5V @ 0,5ms (Bi)	**Not Performed** 6,0mV (RV Bi)	**Not Performed** 410 Ω (Bi)
LV	**Not Performed** 1,0V @ 0,5ms (D1-M2)		**Not Performed** 750 Ω (D1-M2)
HV			**40 Ω** (RV to SVC & Can) Ⓐ 37 Ω (RV to SVC & Can)

Parameters

			VT	VF
Mode	DDDR	Zone Configuration		
Base Rate	▸**90** bpm	Detection Criteria	171 bpm	214 bpm
Max Track Rate	110 bpm	Therapy **(ENABLED)**	ATP x3	ATP x1
Paced AV Delay	200 ms		25,0 J	36,0 J
Sensed AV Delay	150 ms		36,0 J	40,0 J
Ventricular Pacing	LV→RV , 30 ms		40,0 J x2	40,0 J x4

Capture & Sense	A	RV	LV	LV2
Cap Confirm	Monitor	Off	Off	
Pulse Amplitude (Margin)	2,5 V (1.3:1)	2,5 V	2,5 V	
Pulse Width	0,5 ms	0,5 ms	0,5 ms	
AutoSense	On	On		
Sensitivity	Auto Ⓐ	Auto Ⓐ		

Diagnostics Summary Since 9 Mar 2022

AP	98 %
BP	98 %
AMS Episodes	7
Mode Switch	<1%
AT/AF Burden	<1%

VT/VF Episodes: 3 Since 9 Mar 2022

	VT	VF
Episodes	0	3
ATP Delivered	0	3
Shocks Delivered	0	4

SVT Episodes: 0
Non-sustained Episodes: 0

Alerts

Episodes with alert conditions (3)
A. Pulse Amplitude Safety Margin < 2:1

▸ Manual-programmed ↳ Auto-programmed

Episodes Summary

Episodes Last Cleared	8 Mar 2022 13:36	Last Read	9 Mar 2022 13:37
SEGMs Last Cleared	8 Mar 2022 13:18		

Therapy Summary

	VT	VF
ATP Delivered	0	5
Shocks Delivered	0	6
Max Energy Shocks	0	2

Last HV Lead Impedance 40 Ω

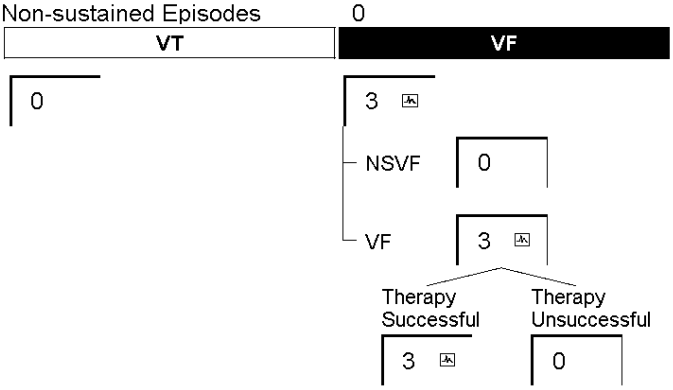
Total Aborted Shocks 1

Results of ATP Delivery

	VT	VF
Episodes Terminated	0	1
Episodes Not Terminated	0	4
Accelerations	0	

Episode Tree

Total VT/VF Episodes 3
SVT Episodes 0
Non-sustained Episodes 0



VT/VF Episodes

Date / Time	Type	Rate (bpm)	Duration (M:S)	Therapy Delivered	Alerts
9 Mar 2022 13:21	VF	240	00:29	ATP, 36J, 40J	x2
9 Mar 2022 13:21	VF	235	00:17	ATP, 36J	x1
9 Mar 2022 13:20	VF	235	00:17	ATP, 36J	x1

Other Episodes

No episodes recorded since last session

Extended Diagnostics

Parameters

Mode	DDDR	Max Track Rate	110 bpm
Base Rate	70 bpm	Paced/Sensed AV Delay	200/150 ms
Max Sensor Rate	110 bpm		

Events Since 9 Mar 2022

		Lifetime
AP	98%	98%
RVP	n/a	0%
BP	98%	98%
VSt	n/a	0%

Histogram does not include time in AMS

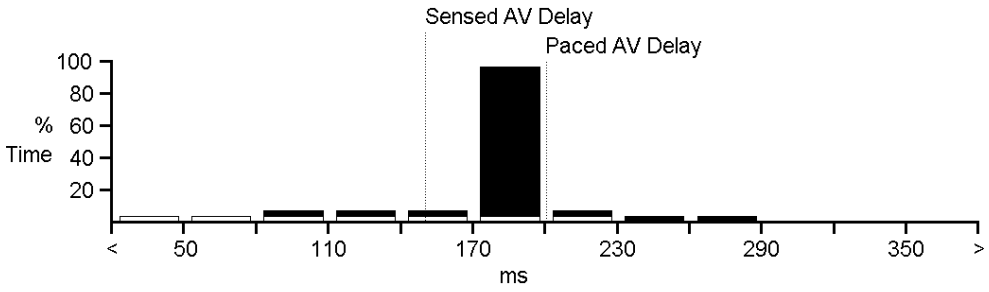
AS-VP	AS-VS	AP-VP	AP-VS	PVC
<1%	<1%	97%	1,3%	<1%
1,1K	52	98K	1,4K	0,6K

AV Interval Since 9 Mar 2022

AV Conduction <1 %

VS-AS Intervals < 80 ms 0

■ (AS-VP, AP-VP)
□ (AS-VS, AP-VS)



Excludes time in AMS

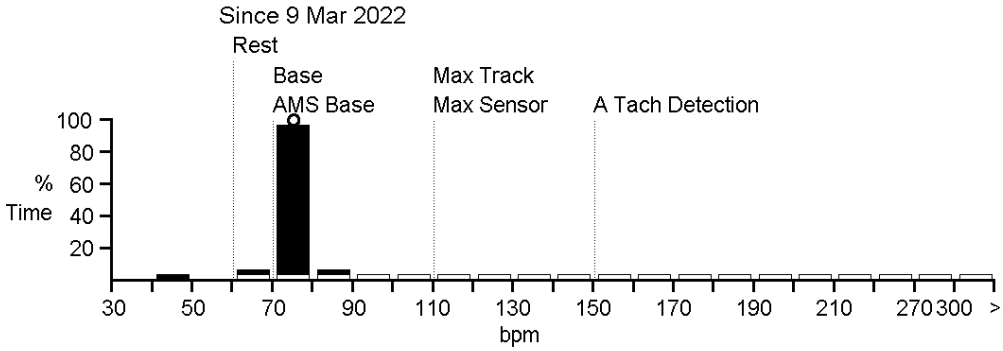
AS-VP %			<1	<1	<1	<1	<1	<1	<1				
AP-VP %				<1		98	<1						
AS-VS %	<1	<1	<1	<1	<1								
AP-VS %		<1	<1	<1	<1	<1	<1						
Total %	<1	<1	<1	<1	<1	99	<1	<1	<1				

Atrial Heart Rate Histogram Since 9 Mar 2022

AF Suppression™ n/a

Time at Max Track Rate <1%

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



AP %		<1		<1	99	<1																	
AS %				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total %		<1		<1	>99	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sensor %					100																		

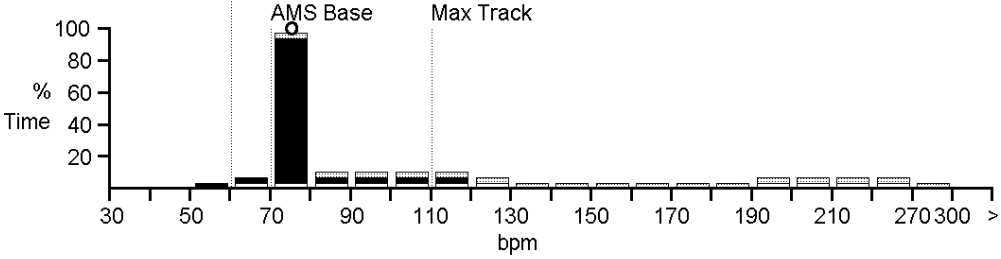
Extended Diagnostics

Ventricular Heart Rate Histogram

Since 9 Mar 2022

PMT Detections 0

Time at Max Track Rate <1%



■ Paced (AS-VP, AP-VP)
□ Sensed (AS-VS, AP-VS)
▦ PVC
∘ Sensor-Indicated Rate

Excludes time in AMS

AS-VP %				<1	<1	<1	<1	<1	<1													
AP-VP %			<1	1,9	95	<1																
AS-VS %					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	
AP-VS %				<1	<1	<1																
PVC %					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total %			<1	2,0	97	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sensor %					100																	

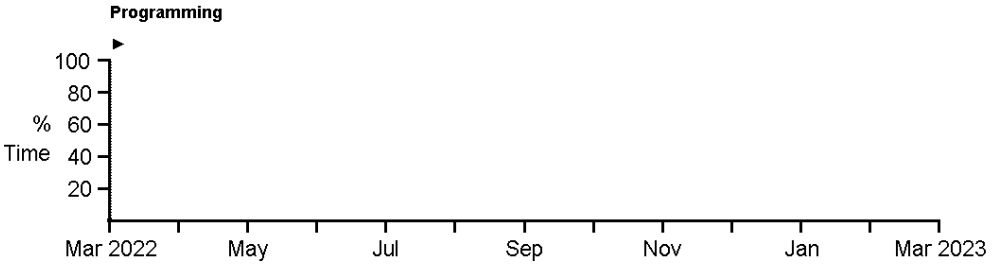
AT/AF Burden <1%

Since 9 Mar 2022

Total AT/AF Burden <1%

Since 8 Mar 2022

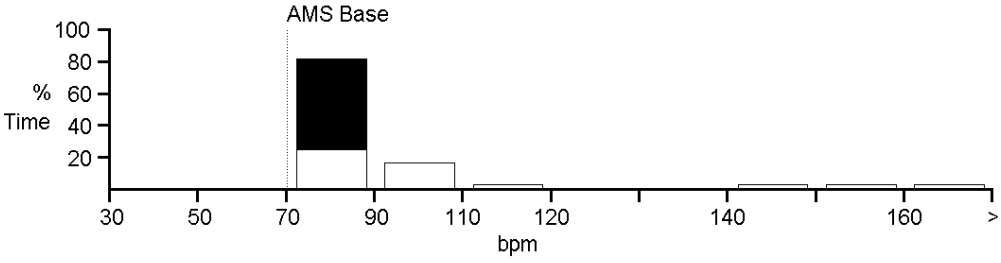
(0m 0d sampled in AT/AF)



V Rates During AMS

Since 9 Mar 2022

■ Paced (VP)
□ Sensed (VS)



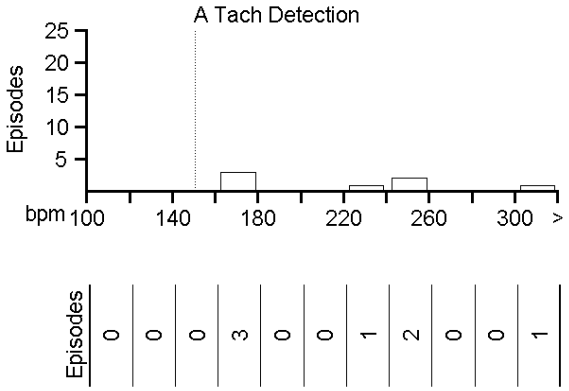
VP %			55							
VS %			26	16	<1			<1	<1	1,1
Total %			81	16	<1			<1	<1	1,1

Extended Diagnostics

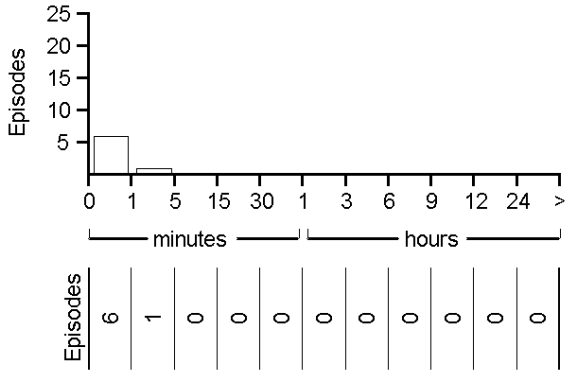
AMS Summary Since 9 Mar 2022

AMS Episodes	7
Mode Switch	<1%

Peak A Rate



Duration



Key AMS Log Episodes	Date and Time	Peak A Rate	Peak V Rate	Duration (D:H:M:S)
Most Recent Episode	9 Mar 2022 7:51	240 bpm	98 bpm	0:00:00:24
Peak V Rate Episode	9 Mar 2022 7:51	240 bpm	98 bpm	0:00:00:24
Longest Episode	8 Mar 2022 13:30	307 bpm	86 bpm	0:00:01:50

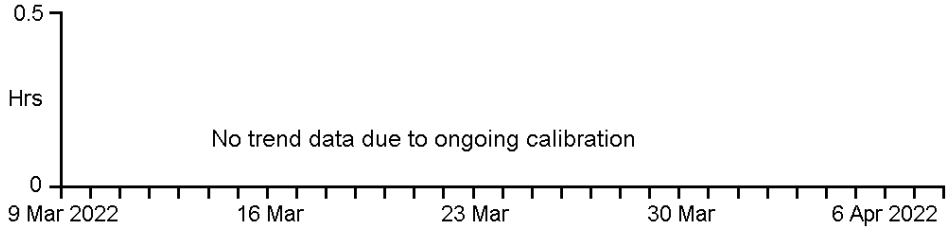
AMS Log

EGMs	Date and Time	Peak A Rate	Peak V Rate	Duration (D:H:M:S)
	9 Mar 2022 7:51	240 bpm	98 bpm	0:00:00:24
	8 Mar 2022 16:32	160 bpm	70 bpm	0:00:00:08
	8 Mar 2022 15:57	169 bpm	70 bpm	0:00:00:08
	8 Mar 2022 13:33	167 bpm	71 bpm	0:00:00:22
	8 Mar 2022 13:33	229 bpm	76 bpm	0:00:00:10
	8 Mar 2022 13:32	248 bpm	80 bpm	0:00:00:50
	8 Mar 2022 13:30	307 bpm	86 bpm	0:00:01:50

Daily Exercise Training (Activity >1 minute)

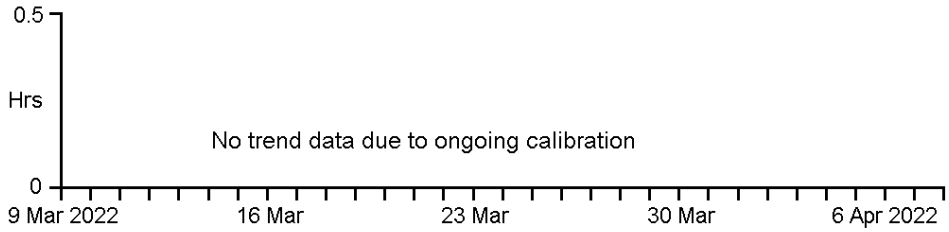
Max Heart Rate 143 bpm

■ **>80% Max HR**
▨ **60-80% Max HR**
(Target HR)
□ **40-60% Max HR**



Total Daily Activity

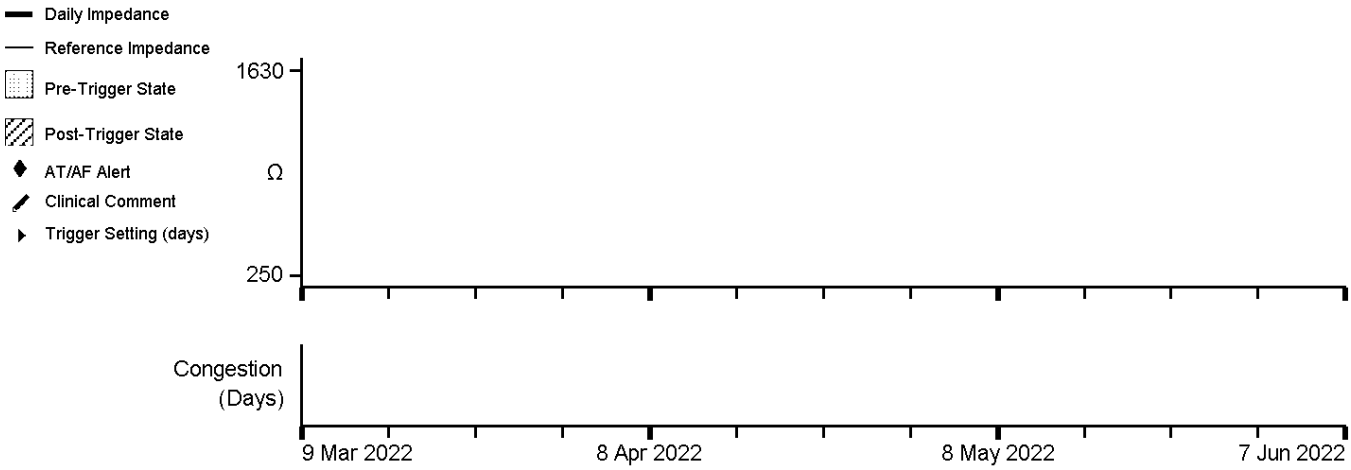
□ **Activity**



0m 1d 0h 5m Sampled since 8 Mar 2022 | 0m 0d 0h 3m Sampled in AMS | Last Read: 9 Mar 2022

Extended Diagnostics

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: 9 Mar 2022(8:37))

No Congestion Episodes recorded

Parameters

Patient
Date of Birth 8 Jun 1944
EF % Unknown

Indications for Implant

Device	Manufacturer	Model	Serial	Implant Date
CRT-D	St. Jude Medical	Quadra Assura MP™ 3371-40QC	9973677	8 Mar 2022
A Lead				
RV Lead	St. Jude Medical	Durata™ 7120Q / 58 cm	BNP078743	8 Mar 2022
LV Lead	St. Jude Medical	Quartet™ 1457Q / 86 cm	DBU030198	8 Mar 2022

Basic Operation	
Mode	DDDR
Ventricular Pacing	LV→RV , 30 ms
V. Triggering	Off
Magnet Response	Normal
V. Noise Reversion Mode	Pacing Off
Episodal Pacing Mode	DDI
Sensor	On
Threshold (Measured Avg.)	Auto (+0.0) (2,0)
Slope	8
Max Sensor Rate	110 bpm
Reaction Time	Fast
Recovery Time	Medium

Refractories & Blanking	
PVARP	275 ms
Post-Vent. Atrial Blanking	90 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 bpm

Rates	
Base Rate	▸**90** bpm
Rest Rate	▸**Off**
Max Sensor Rate	110 bpm
Max Track Rate	110 bpm
Hysteresis Rate	Off
2:1 Block Rate	164 bpm

AT/AF Detection & Response	
Auto Mode Switch	DDIR
AMS V. Triggering	Off
A. Tachycardia Detection Rate	150 bpm
AMS Base Rate	↳**90** bpm
AF Suppression™	Off

Delays	
Paced AV Delay	200 ms
Sensed AV Delay	150 ms
Rate Responsive AV Delay	Medium
Shortest AV Delay	100 ms
SyncAV™ CRT Delta	Off

Capture & Sense	A	RV	LV	LV2
Cap Confirm	Monitor	Off	Off	
Backup Pulse Configuration	Bipolar			
Search Interval	8 hours			
Pulse Amplitude (Margin)	2,5 V (1.3:1)	2,5 V	2,5 V	
Pulse Width	0,5 ms	0,5 ms	0,5 ms	
AutoSense	On	On		
Sensitivity	Auto Ⓐ	Auto Ⓐ		

Last Programmed: Today 13:39
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 Ⓐ Automatic

Parameters

Leads	**A**	**RV**	**LV**	**LV2**
Lead Type	Bipolar	Bipolar	Quadripolar	
Pulse Configuration	Bipolar	Bipolar	Distal tip 1 - Mid 2	
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		125 Ω		

ShockGuard™ Settings (Zone Configuration)

	VT	VF
Detection Criteria	171 bpm/350 ms 50 intervals	214 bpm/280 ms 12 intervals
SVT Discrimination	On	
Therapy	ATP x3 25,0 J/704 V 36,0 J/845 V 40,0 J/890 V x2	ATP x1 36,0 J/845 V 40,0 J/890 V 40,0 J/890 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	**Morphology**		**Interval Stability**		Deliver therapy only if the criteria in this rate branch indicate VT.
V < A	Morphology	Off	Interval Stability	On w/AVA	
			Stability Delta	40 ms	
			AV Association Delta	60 ms	
			Window Size	12 intervals	
Sinus Tach	**Morphology**		**Arrhythmia Onset**		Deliver therapy only if the active criteria in this rate branch indicate VT.
V = A: On	Morphology	Off	Chamber Onset	On	
AV Interval Delta: Off			Sudden Onset	Off	
VT/VF					If Ventricular Rate is greater than the Atrial Rate, deliver therapy.
V > A					

Last Programmed: Today 13:39
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
Ⓐ Automatic

Parameters

SecureSense™ Settings

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

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

	A	RV	
		Pacemaker	**Defib**
Max Sensitivity	0,3 mV (0,3 mV @ 110 bpm)	Same as Defib (0,5 mV @ 110 bpm)	0,5 mV (0,5 mV @ 110 bpm)
Low Frequency Attenuation			On

	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
Shock Configuration	RV to SVC & Can
RV Polarity	Anode(+)
DynamicTx™ Over-Current Detection Algorithm	On

	1st Phase	**2nd Phase**
VF Shocks (Defib)	65 %	65 %
VT Shocks (CVRT)	Same as Defib	Same as Defib
Estimated Defib Pulse Width	5,0 ms	
Estimated CVRT Pulse Width	5,0 ms	
Shock Impedance	40 Ω (Measured)	

Last Programmed: Today 13:39
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
Ⓐ Automatic

Parameters

Post-Shock Pacing

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

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

Redetection & Post-Detection

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

Capacitor Maintenance

Charge Interval	4 months

MRI

MRI Mode	DOO
MRI Base Rate	85 bpm
MRI Paced AV Delay	120 ms
MRI Atrial Pulse Amplitude	5,0 V
MRI RV Pulse Amplitude	5,0 V
MRI Atrial Pulse Width	1,0 ms
MRI RV Pulse Width	1,0 ms
MRI Atrial Pulse Configuration	Bipolar
MRI RV Pulse Configuration	Bipolar
HV Lead Type	Dual Coil
MRI V. Pacing Chamber	RV Only

Congestion Monitoring

Congestion Monitoring	Off

Trigger Alerts When	Show on FastPath™	Notify Patient
AT/AF Episode (3 hours)	On	Off
AT/AF Burden (6 hours evaluated daily)	On	Off
V Rate during AT/AF (100 bpm for 6 hours, evaluated daily)	On	Off
A Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
RV Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
Therapy inhibits due to RV lead noise	On	On
5 episodes of Non-sustained RV Oversensing detected	On	Off
LV Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
HV Lead Impedance Out of Range (20 - 125 Ω)	On	On
Percent BiV Pacing Alert (<90% over 7 days)	On	Off
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 13:39
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
Ⓐ Automatic

Parameters

Episode Triggers	
Atrial Episode (AMS)	Low
VT (Detection)	High
VF (Detection)	High
Non-sustained RV Oversensing	High
Non-sustained VT/VF	Low
PMT	Off
Noise Reversion	Off
Magnet Response	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

Episode: VF (240 bpm / 250 ms)

9 Mar 2022 13:21

Duration	00:29 (M:S)	**Alerts**	**At least one shock unsuccessful**
Detection Criteria	214 bpm		**Three or more VT/VF episodes in 24 hours**

Therapy	**Results**
1) ATP x 1	1) VF
2) Defib 36,0 J (844V)	2) VF
3) Defib 40,0 J (890V)	3) Below Rate Detection (CL > 995 ms)

HV Therapy	
Last HV Lead Impedance	40 Ω
First Charge Time	6,9 sec
Last Charge Time	8,6 sec
Delivered PW	+5,0 ms, -5,0 ms

ATP Therapy Details
VF ATP Therapy

Therapy
Burst 1 216, 216, 216, 216, 216, 216, 216 ms

Diagnosis Summary

	Diagnosis
	VF
Time to Diagnosis	2,75 sec
Rate (CL)	240 bpm (250 ms)

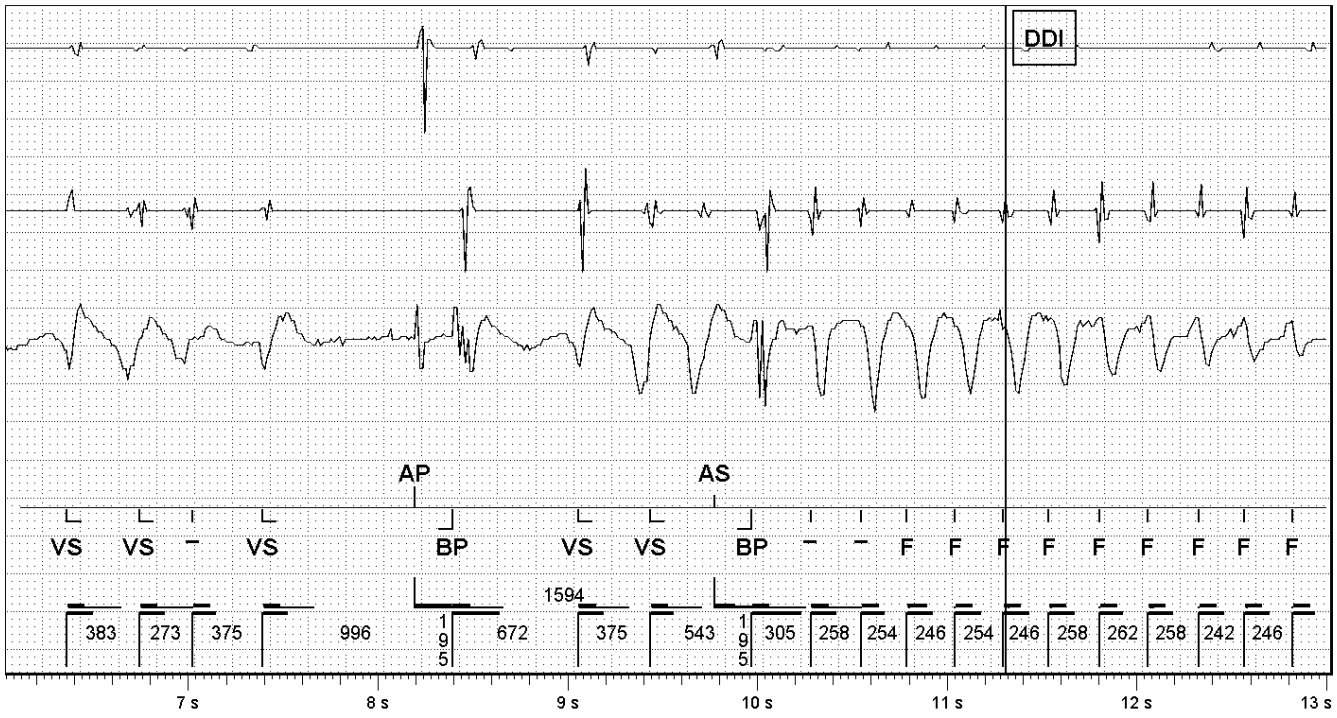
DeFT Response™ Settings (Shock Waveform)			**1st Phase**	**2nd Phase**
Waveform	Biphasic	VF Shocks (Defib)	65 %	65 %
Waveform Mode	Tilt	VT Shocks (CVRT)	Same as Defib	Same as Defib
Shock Configuration	RV to SVC & Can			
RV Polarity	Anode(+)			
Defib Max Sensitivity	0.5 mV			

Episode: VF (240 bpm / 250 ms)

9 Mar 2022 13:21

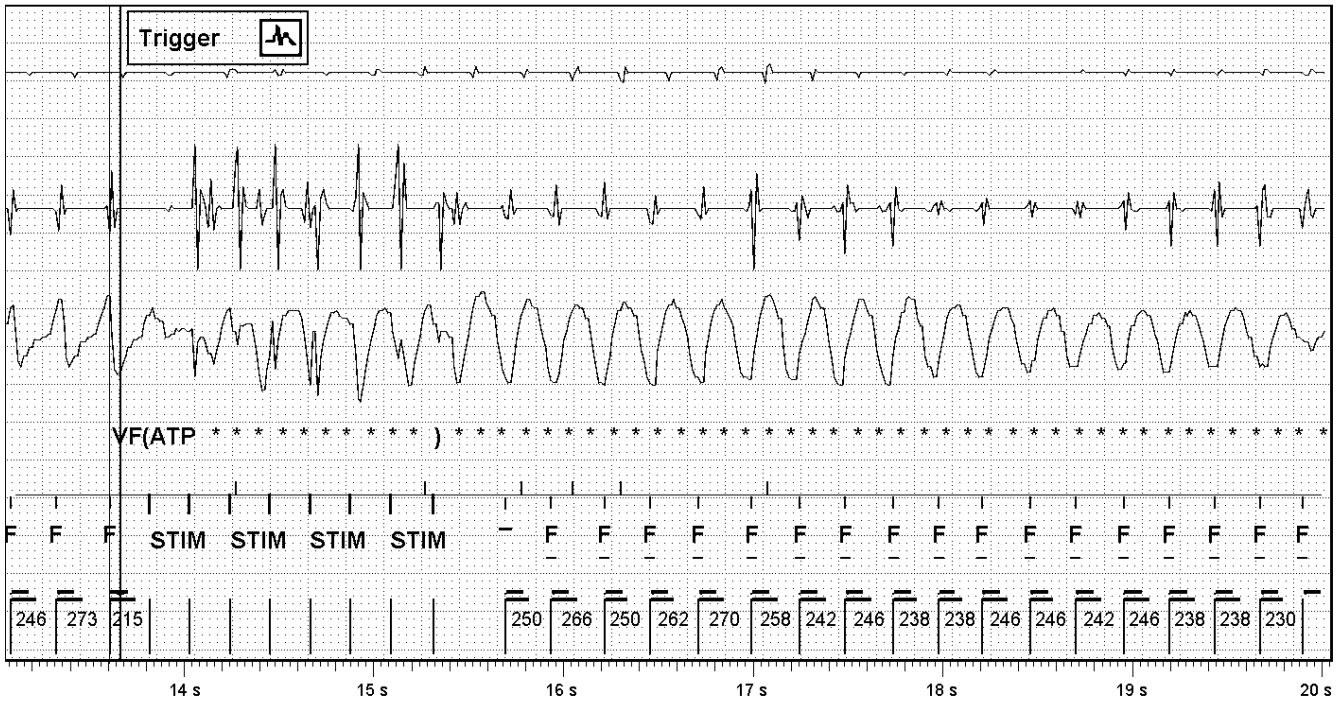
1: A Sense Amp AutoGain (3,4 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,6 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



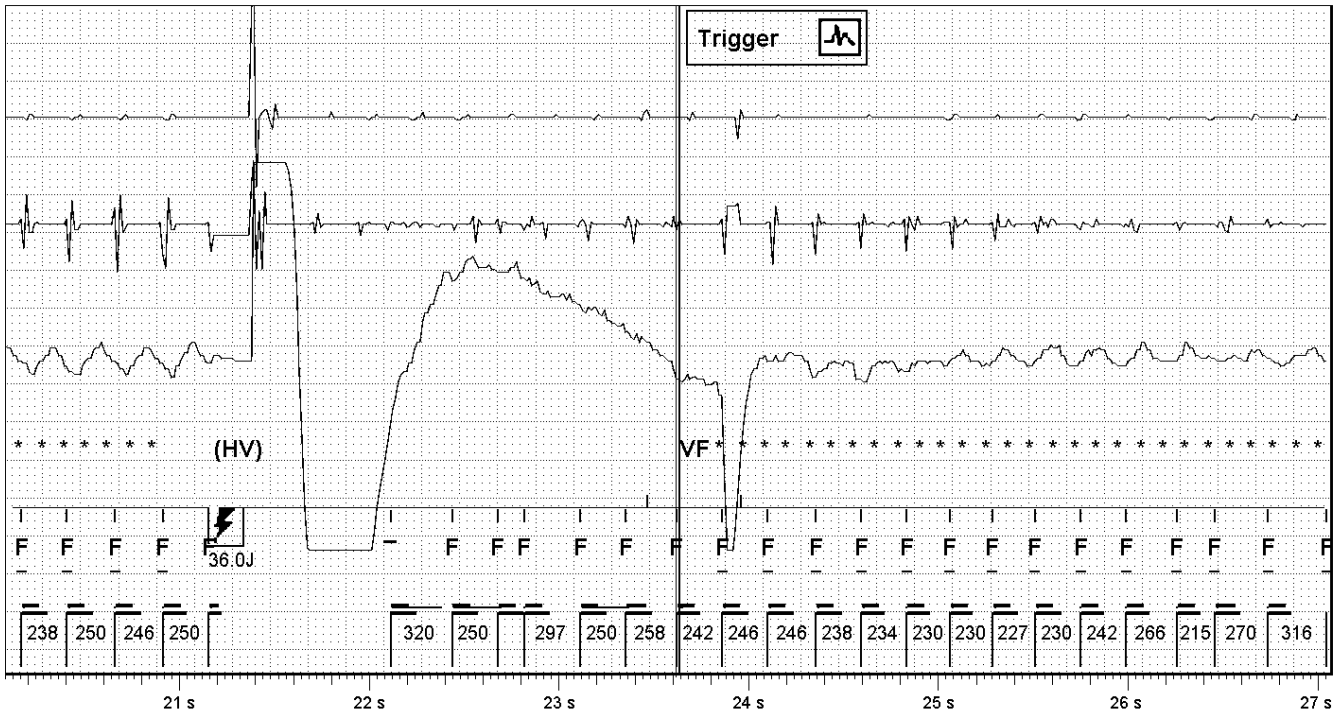
Episode: VF (240 bpm / 250 ms) (Continued)

9 Mar 2022 13:21



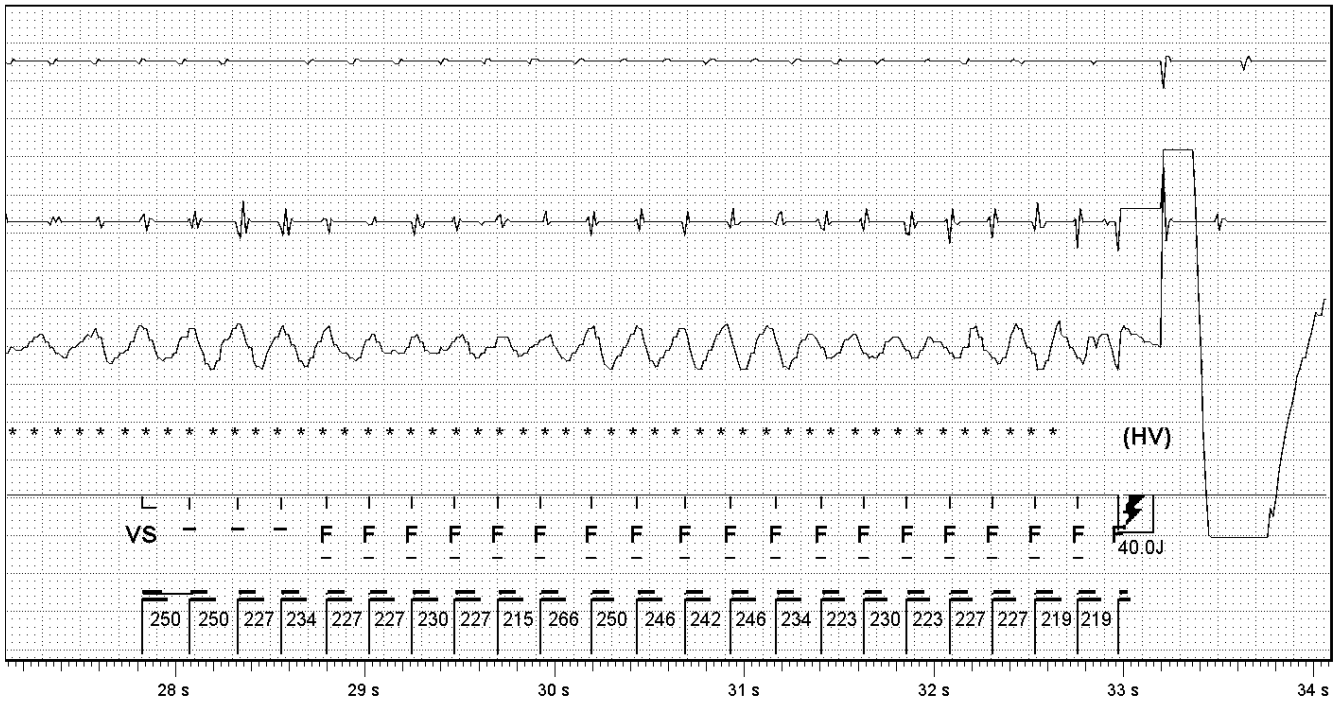
1: A Sense Amp AutoGain (3,4 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,6 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



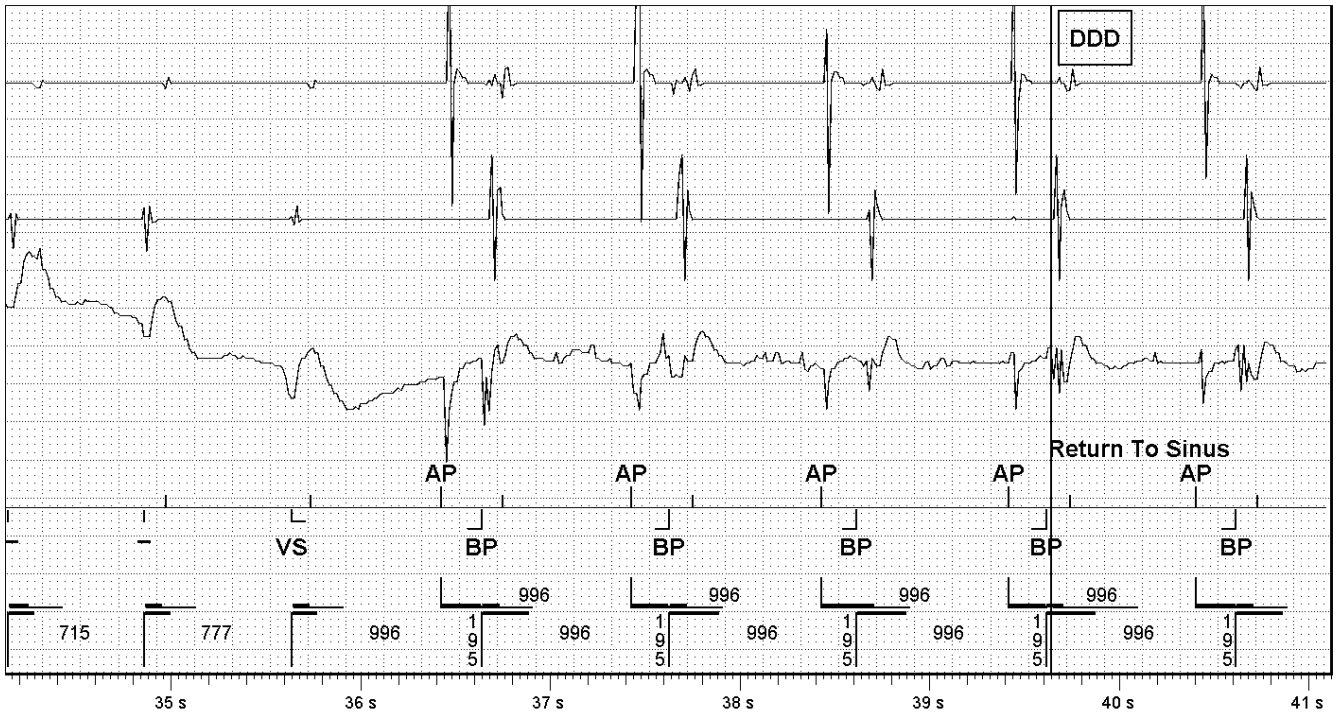
Episode: VF (240 bpm / 250 ms) (Continued)

9 Mar 2022 13:21



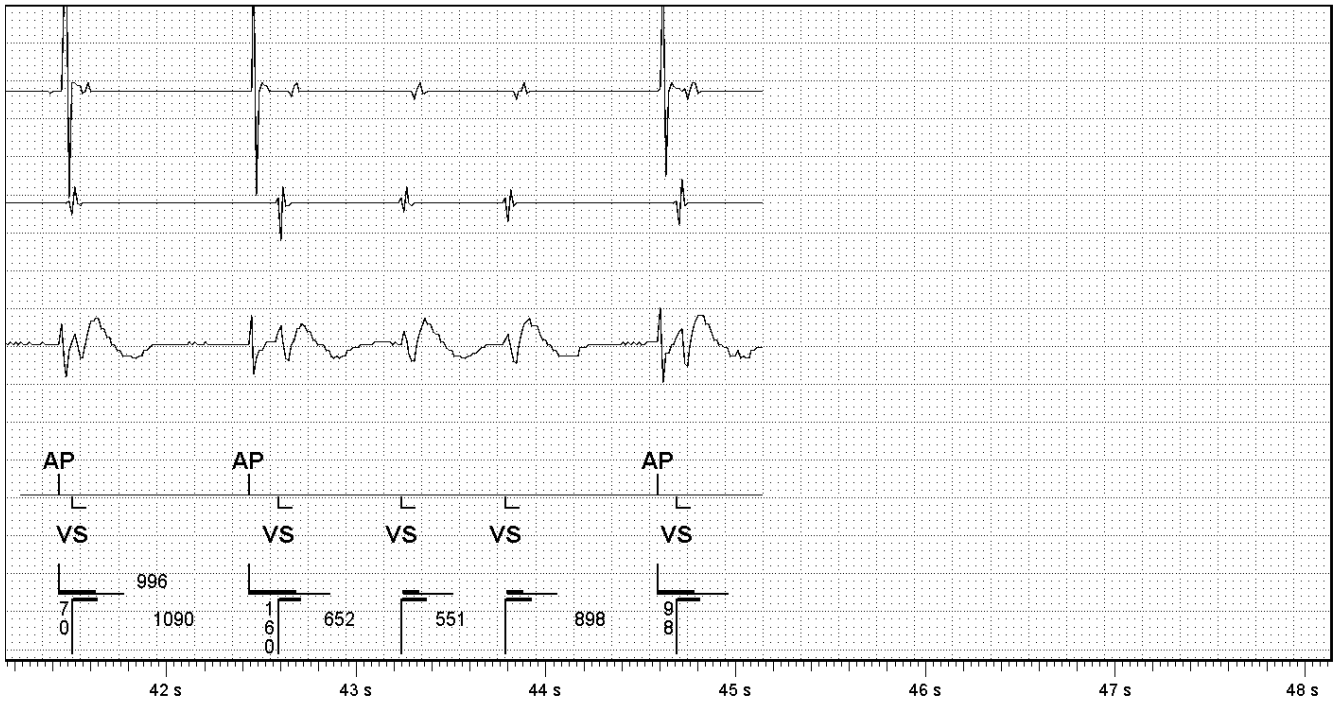
1: A Sense Amp AutoGain (3,4 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,6 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



Episode: VF (240 bpm / 250 ms) (Continued)

9 Mar 2022 13:21



1: A Sense Amp AutoGain (3,4 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,6 mm/mV)
4: Markers

Sweep Speed: 25 mm/s

Episode: VF (235 bpm / 255 ms)

9 Mar 2022 13:21

Duration	00:17 (M:S)	**Alerts**	**Three or more VT/VF episodes in 24 hours**
Detection Criteria	214 bpm		

Therapy	**Results**
1) ATP x 1	1) VF
2) Defib 36,0 J (844V)	2) Below Rate Detection (CL 860 ms)

HV Therapy	
Last HV Lead Impedance	40 Ω
Last Charge Time	6,6 sec
Delivered PW	+5,0 ms, -5,0 ms

ATP Therapy Details

VF ATP Therapy

Therapy

Burst 1 216, 216, 216, 216, 216, 216, 216 ms

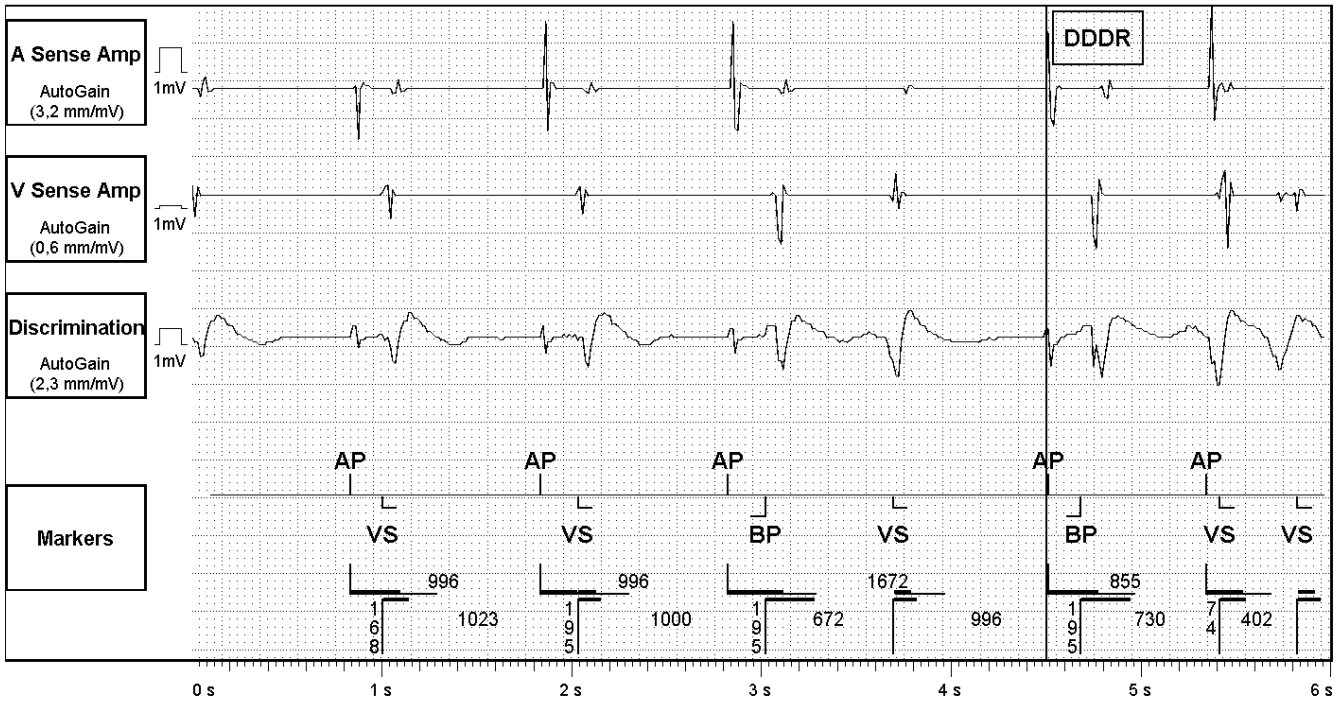
Diagnosis Summary

	Diagnosis
	VF
Time to Diagnosis	3,25 sec
Rate (CL)	235 bpm (255 ms)

DeFT Response™ Settings (Shock Waveform)			**1st Phase**	**2nd Phase**
Waveform	Biphasic	VF Shocks (Defib)	65 %	65 %
Waveform Mode	Tilt	VT Shocks (CVRT)	Same as Defib	Same as Defib
Shock Configuration	RV to SVC & Can			
RV Polarity	Anode(+)			
Defib Max Sensitivity	0.5 mV			

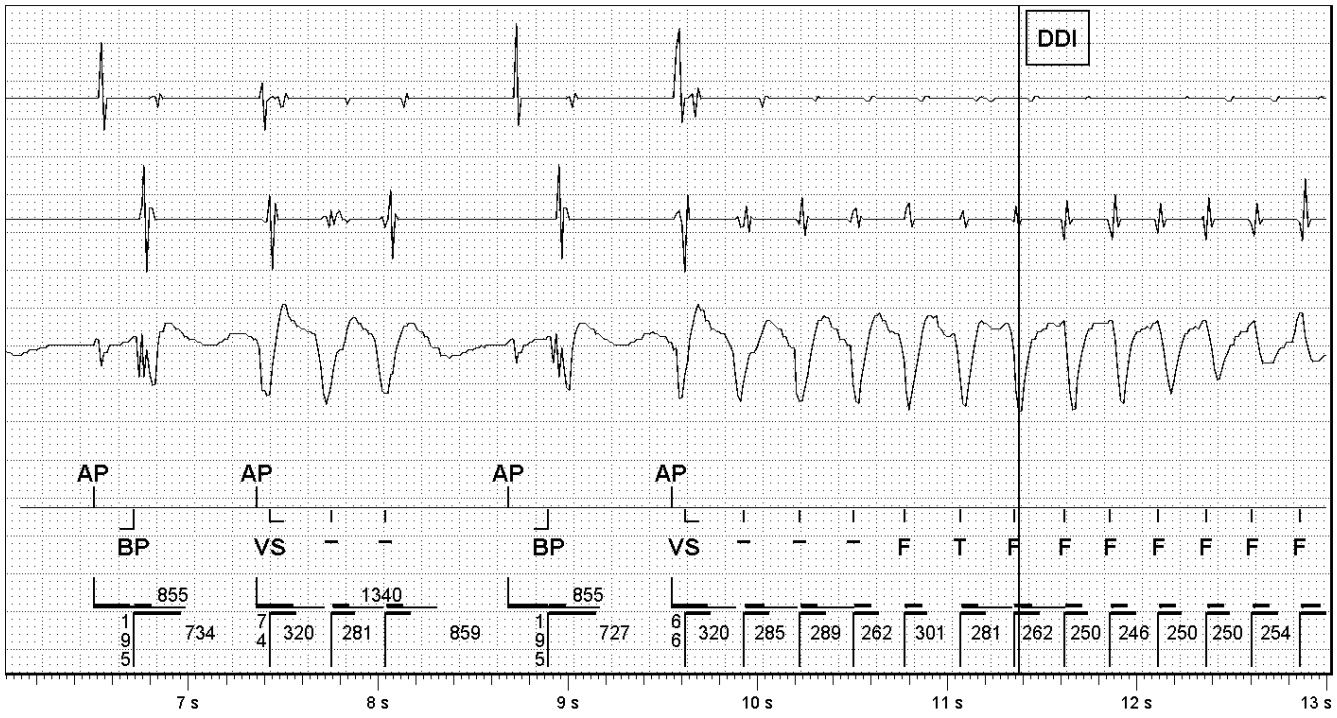
Episode: VF (235 bpm / 255 ms)

9 Mar 2022 13:21



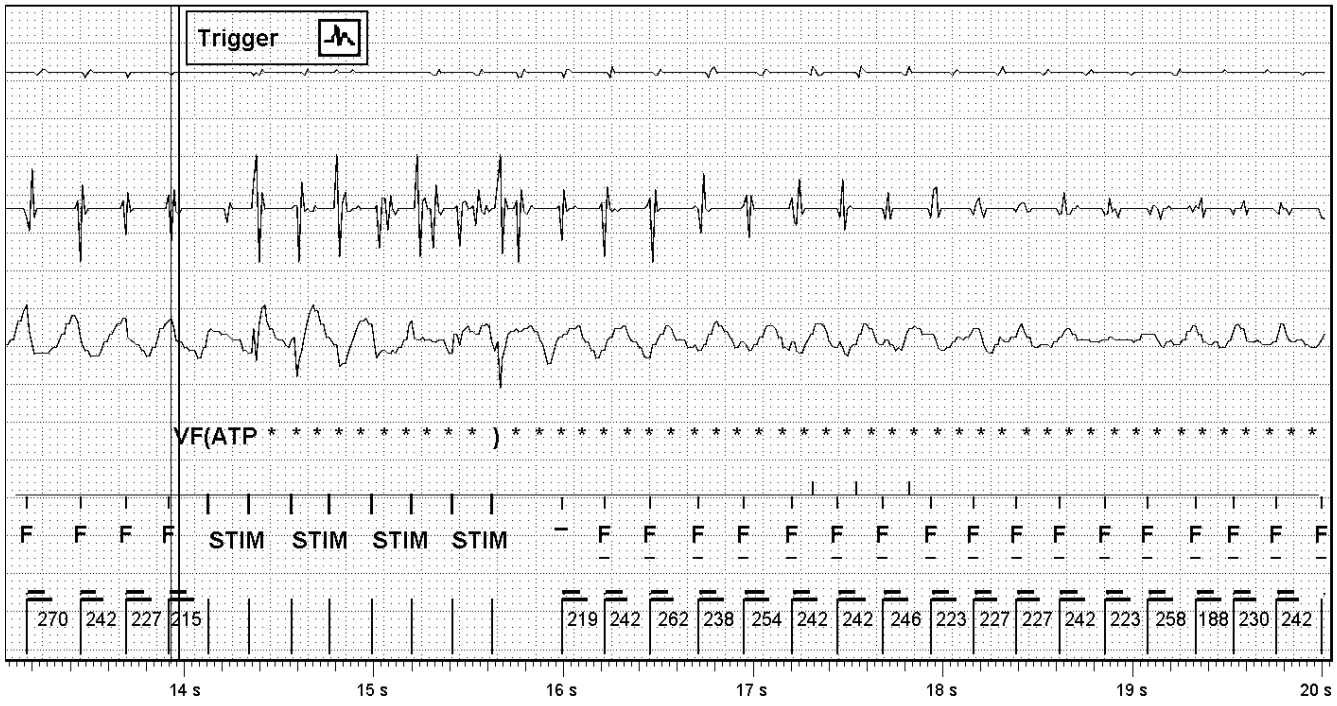
1: A Sense Amp AutoGain (3,2 mm/mV)
2: V Sense Amp AutoGain (0,6 mm/mV)
3: Discrimination AutoGain (2,3 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



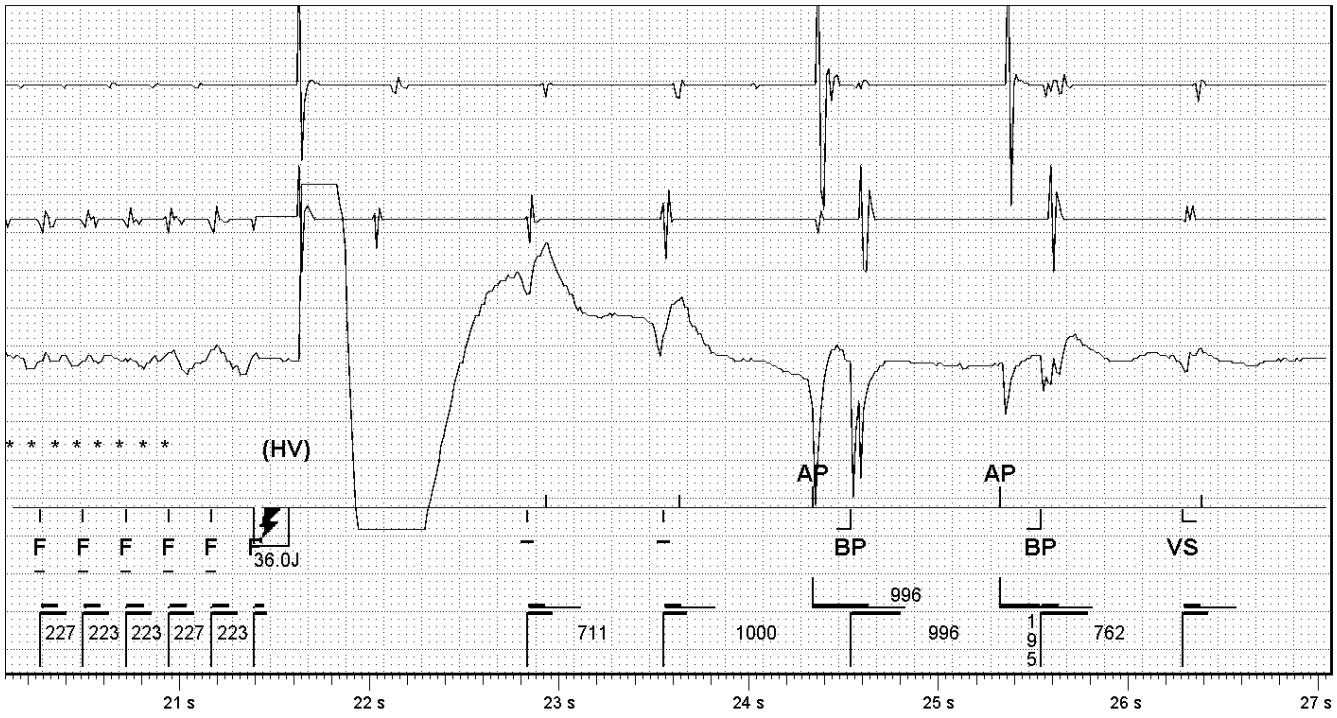
Episode: VF (235 bpm / 255 ms) (Continued)

9 Mar 2022 13:21



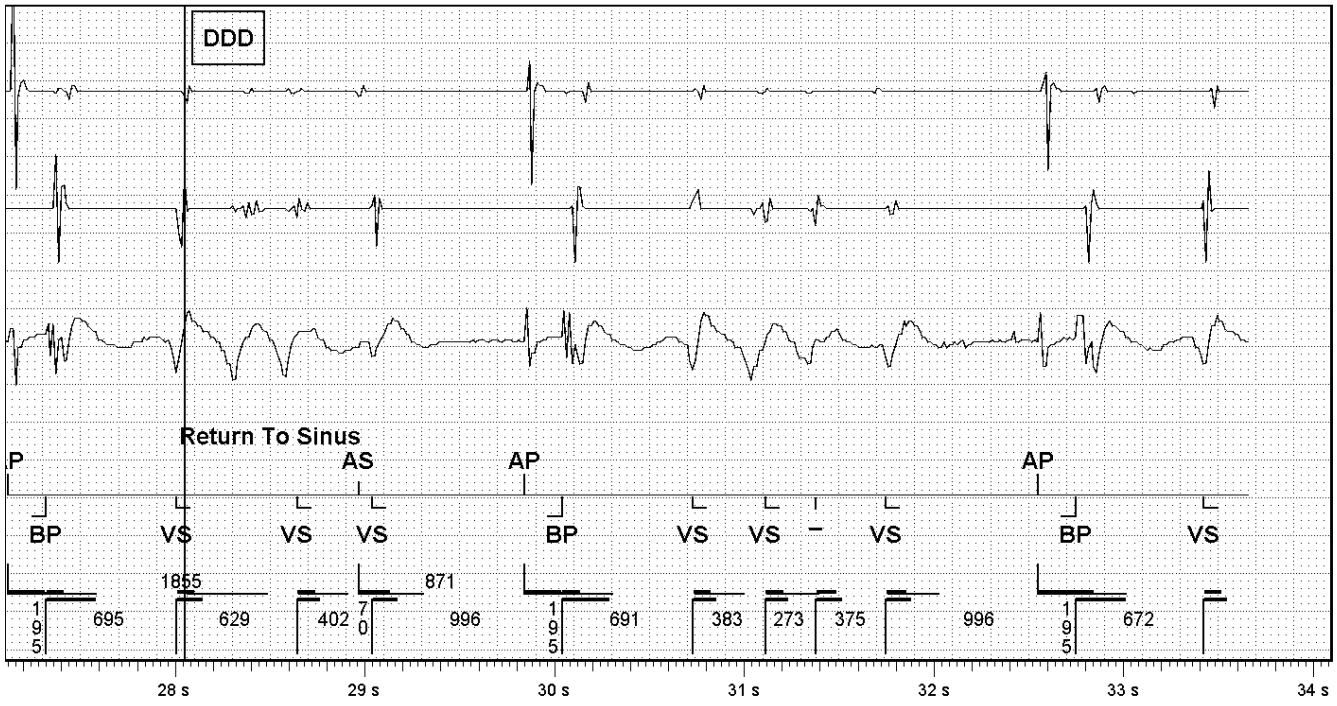
1: A Sense Amp AutoGain (3,2 mm/mV)
2: V Sense Amp AutoGain (0,6 mm/mV)
3: Discrimination AutoGain (2,3 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



Episode: VF (235 bpm / 255 ms) (Continued)

9 Mar 2022 13:21



1: A Sense Amp AutoGain (3,2 mm/mV)
2: V Sense Amp AutoGain (0,6 mm/mV)
3: Discrimination AutoGain (2,3 mm/mV)
4: Markers

Sweep Speed: 25 mm/s

Episode: VF (235 bpm / 255 ms)

9 Mar 2022 13:20

Duration	00:17 (M:S)	**Alerts**	**Three or more VT/VF episodes in 24 hours**
Detection Criteria	214 bpm		

Therapy	**Results**
1) ATP x 1	1) VF
2) Defib 36,0 J (844V)	2) Below Rate Detection (CL 880 ms)

HV Therapy

Last HV Lead Impedance	40 Ω
Last Charge Time	7,5 sec
Delivered PW	+4,8 ms, -4,8 ms

ATP Therapy Details

VF ATP Therapy

Therapy

Burst 1 216, 216, 216, 216, 216, 216, 216 ms

Diagnosis Summary

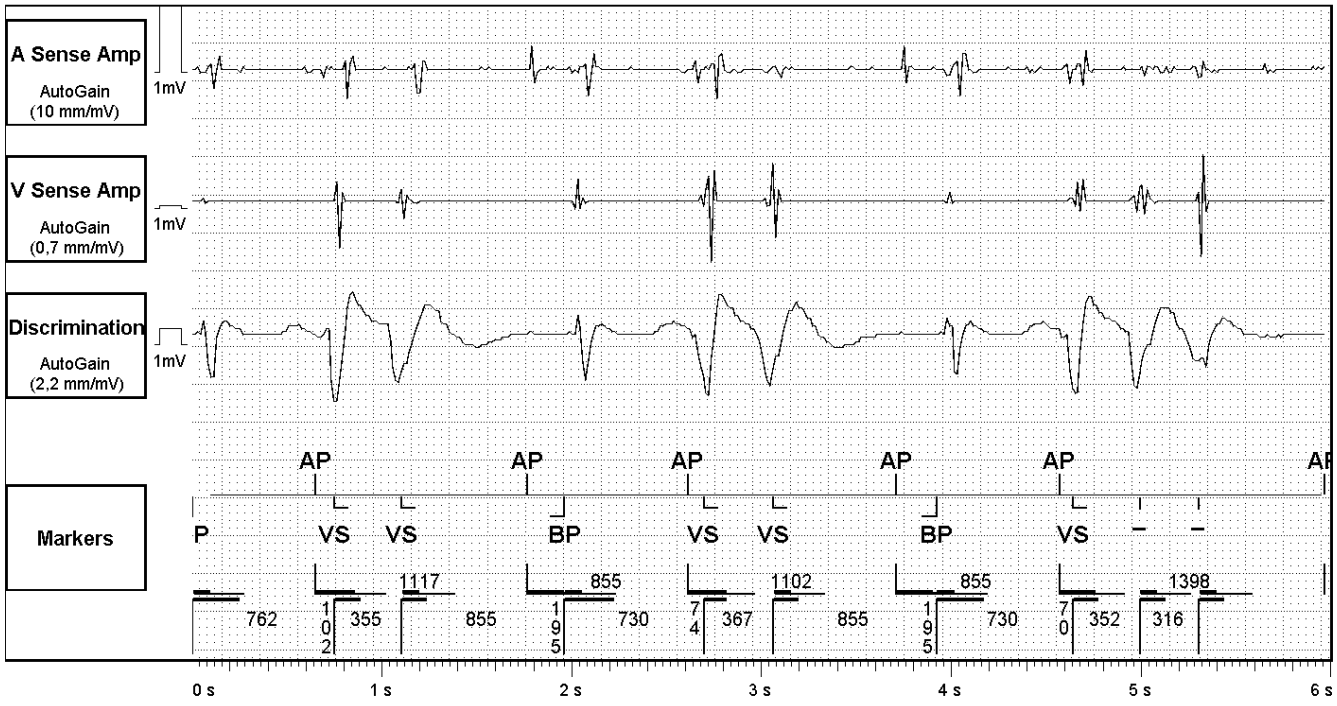
	Diagnosis
	VF
Time to Diagnosis	2,75 sec
Rate (CL)	235 bpm (255 ms)

DeFT Response™ Settings (Shock Waveform)

			1st Phase	2nd Phase
Waveform	Biphasic	VF Shocks (Defib)	65 %	65 %
Waveform Mode	Tilt	VT Shocks (CVRT)	Same as Defib	Same as Defib
Shock Configuration	RV to SVC & Can			
RV Polarity	Anode(+)			
Defib Max Sensitivity	0.5 mV			

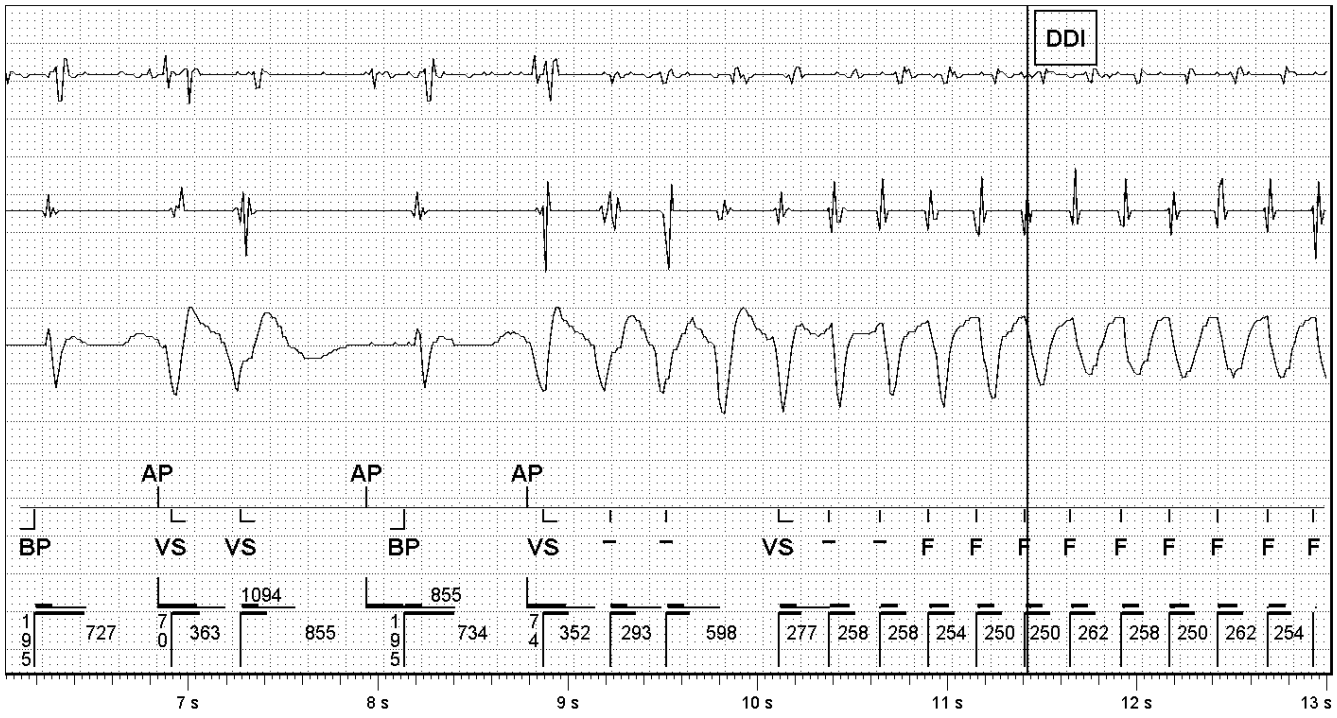
Episode: VF (235 bpm / 255 ms)

9 Mar 2022 13:20



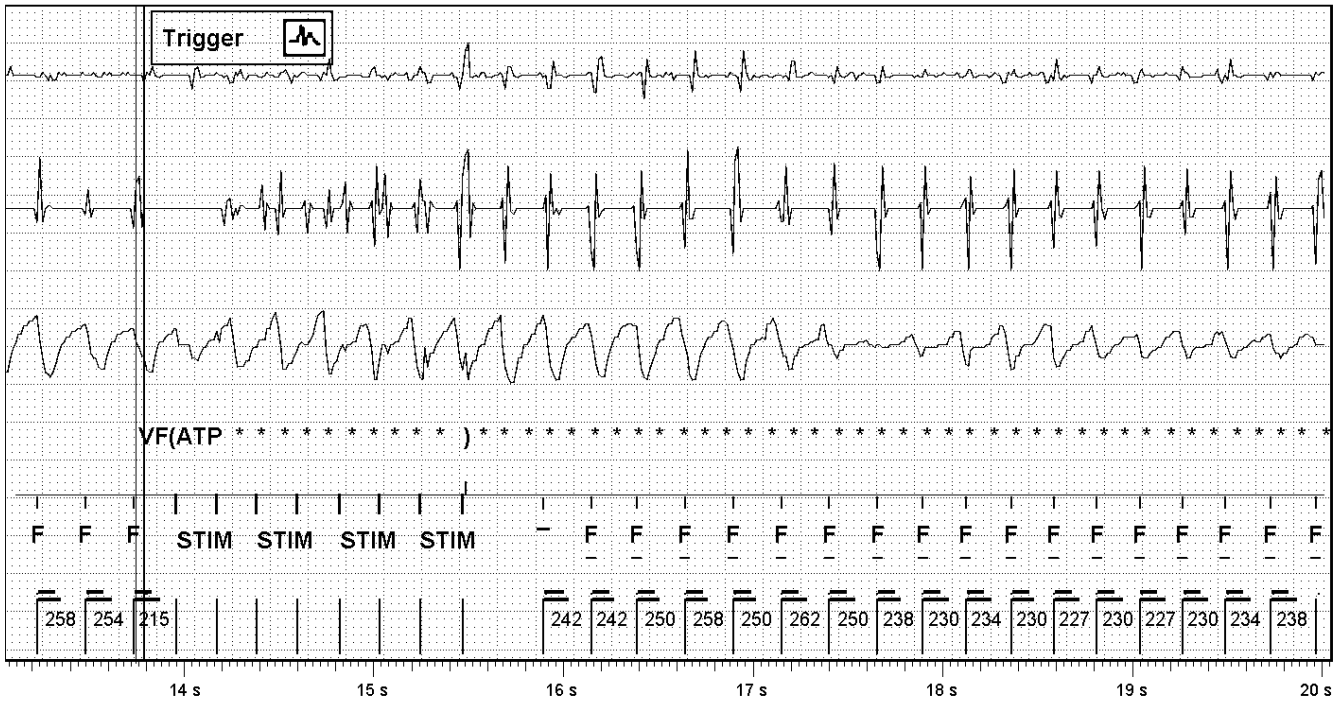
1: A Sense Amp AutoGain (10 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,2 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



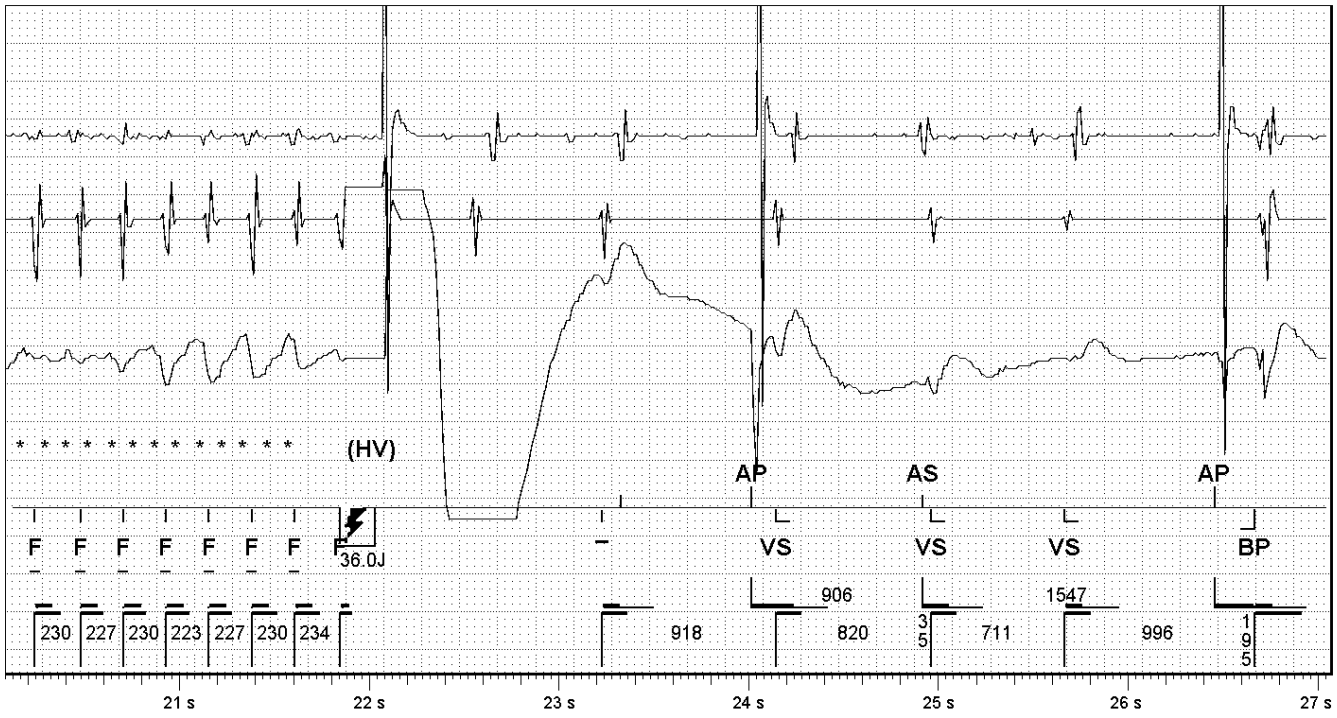
Episode: VF (235 bpm / 255 ms) (Continued)

9 Mar 2022 13:20



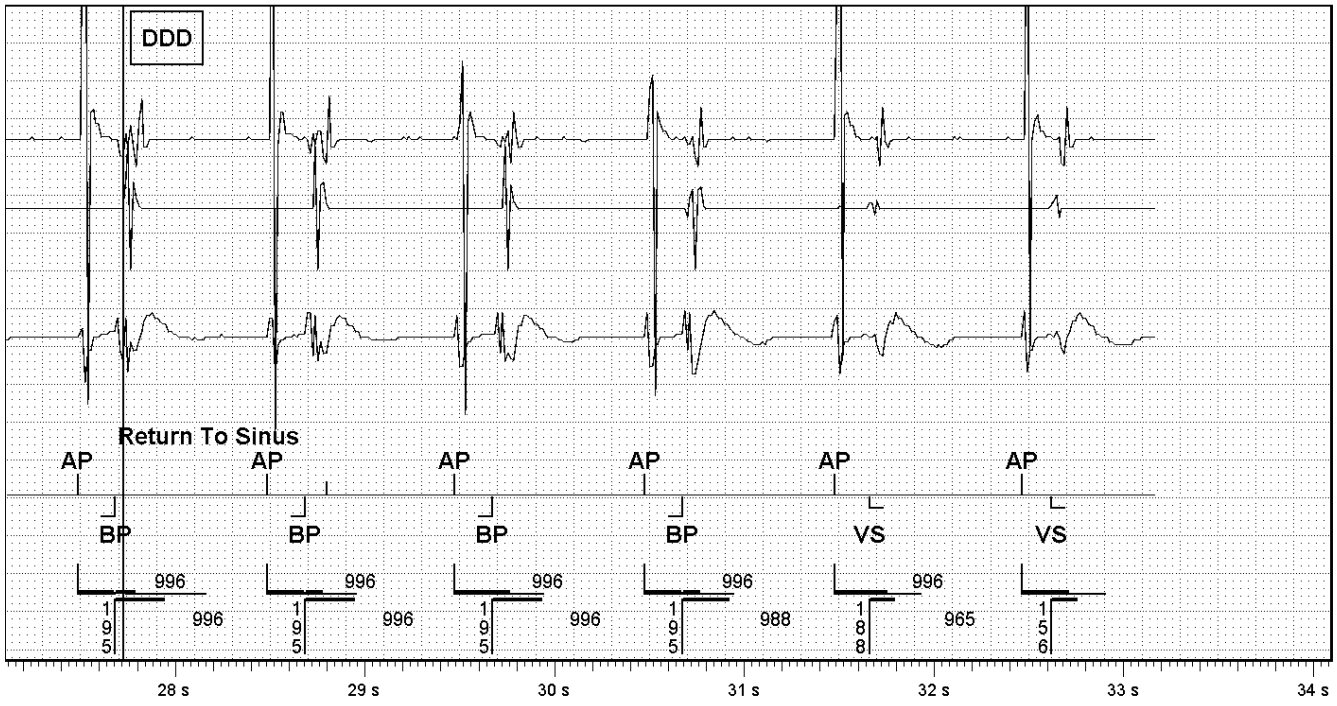
1: A Sense Amp AutoGain (10 mm/mV)
2: V Sense Amp AutoGain (0,7 mm/mV)
3: Discrimination AutoGain (2,2 mm/mV)
4: Markers

Sweep Speed: 25 mm/s



Episode: VF (235 bpm / 255 ms) (Continued)

9 Mar 2022 13:20


DDD
Return To Sinus
AP
AP
AP
AP
AP
AP
BP
BP
BP
BP
VS
VS
996
996
996

Test Results: Atrium

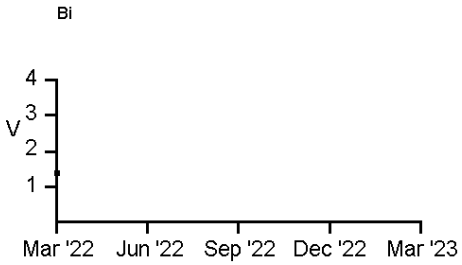
Atrial Capture Test

No result recorded	9 Mar 2022
0,75 V @ 0,7 ms (Bi)	9 Mar 2022

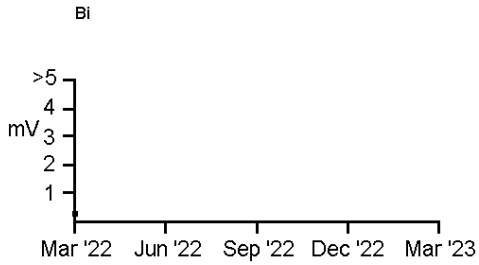
Atrial Sense Test

No result recorded	9 Mar 2022
None (Bi)	9 Mar 2022

ACap™ Confirm Trend

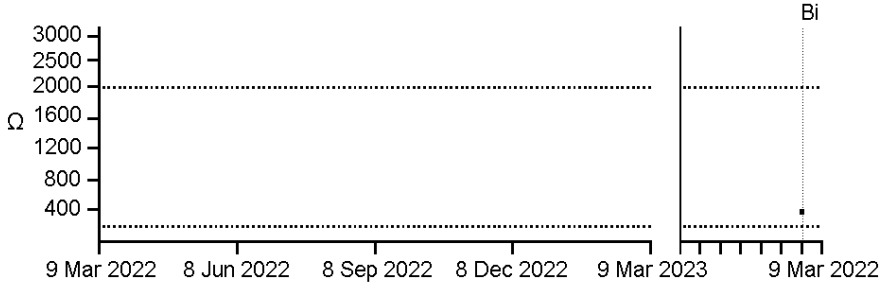


Atrial Sense Amplitude Trend



Atrial Lead Impedance: **No recent measurement**

1-year trend



Last 7 Days

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

Configurations	**First Measurement**	**Lifetime Range**
Bipolar	440 Ω (8 Mar 2022)	390 - 440 Ω

Test Results: Right Ventricle

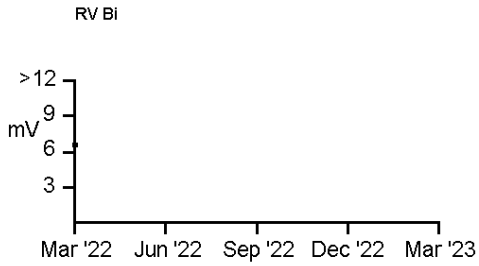
Right Ventricular Capture Test

No result recorded	9 Mar 2022
0,5 V @ 0,5 ms (Bi)	9 Mar 2022

Ventricular Sense Test

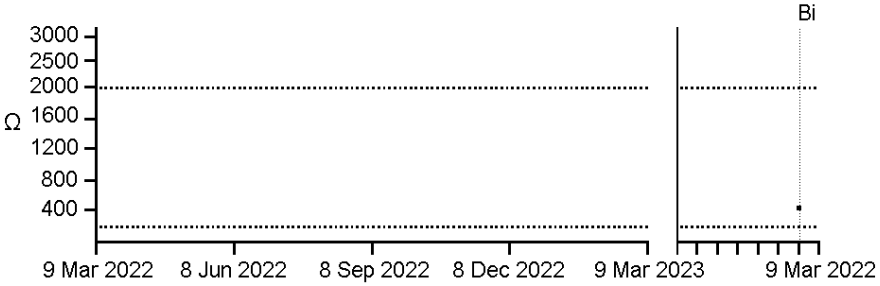
No result recorded	9 Mar 2022
5,6 - 6,0 mV (RV Bi)	9 Mar 2022

RV Sense Amplitude Trend



Right Ventricular Lead Impedance: **No recent measurement**

1-year trend



Last 7 Days

Configurations	**First Measurement**	**Lifetime Range**
Bipolar	510 Ω (8 Mar 2022)	410 - 510 Ω

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

Test Results: Left Ventricle

Left Ventricular Capture Test

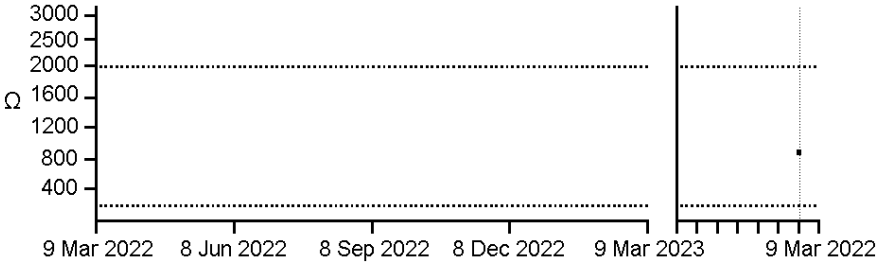
No result recorded	9 Mar 2022
1,0 V @ 0,5 ms (D1 - M2)	9 Mar 2022

LV2 Capture Test

No result recorded	9 Mar 2022
No previous results	

LV Lead Impedance: **No recent measurement**
LV2 Lead Impedance: **380 Ω** (Mid 3 - RV Coil) 9 Mar 2022

LV: 1-year trend



Last 7 Days

LV Pulse Configuration	D1 - M2
LV2 Pulse Configuration	M3 - RVc
Lead Monitoring	Monitor
Lower Limit	200 Ω
Upper Limit	2.000 Ω

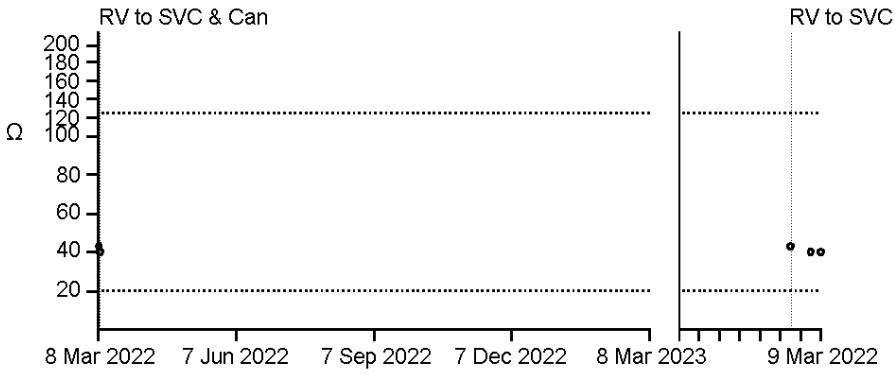
Configurations	First Measurement	Lifetime Range
Distal tip 1 - Mid 2	1150 Ω (8 Mar 2022)	750 - 1150 Ω

Configurations	First Measurement	Lifetime Range
Mid 3 - RV Coil	430 Ω (8 Mar 2022)	380 - 450 Ω

Test Results: HV Lead Impedance and Battery

HV Lead Impedance: **40 Ω** (RV to SVC & Can) 9 Mar 2022

1-year trend



Last 7 Days

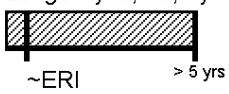
Programmed Shock Configuration	RV to SVC & Can
Lower Limit	20 Ω
Upper Limit	125 Ω

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

	RV to Can	RV to SVC	SVC to Can	Therapies (RV to SVC & Can)
First Measurement	75 Ω (8 Mar 2022)	53 Ω (8 Mar 2022)	77 Ω (8 Mar 2022)	43 Ω (8 Mar 2022)
Lifetime Range	57 - 75 Ω	45 - 53 Ω	55 - 77 Ω	40 - 43 Ω

Battery Information

Longevity: 5,1-5,4 yrs



Last Max Charge	8,6 sec (Therapy)
Battery Current	21 uA
Remaining Capacity to ERI	91%

Longevity estimate is based on patient history

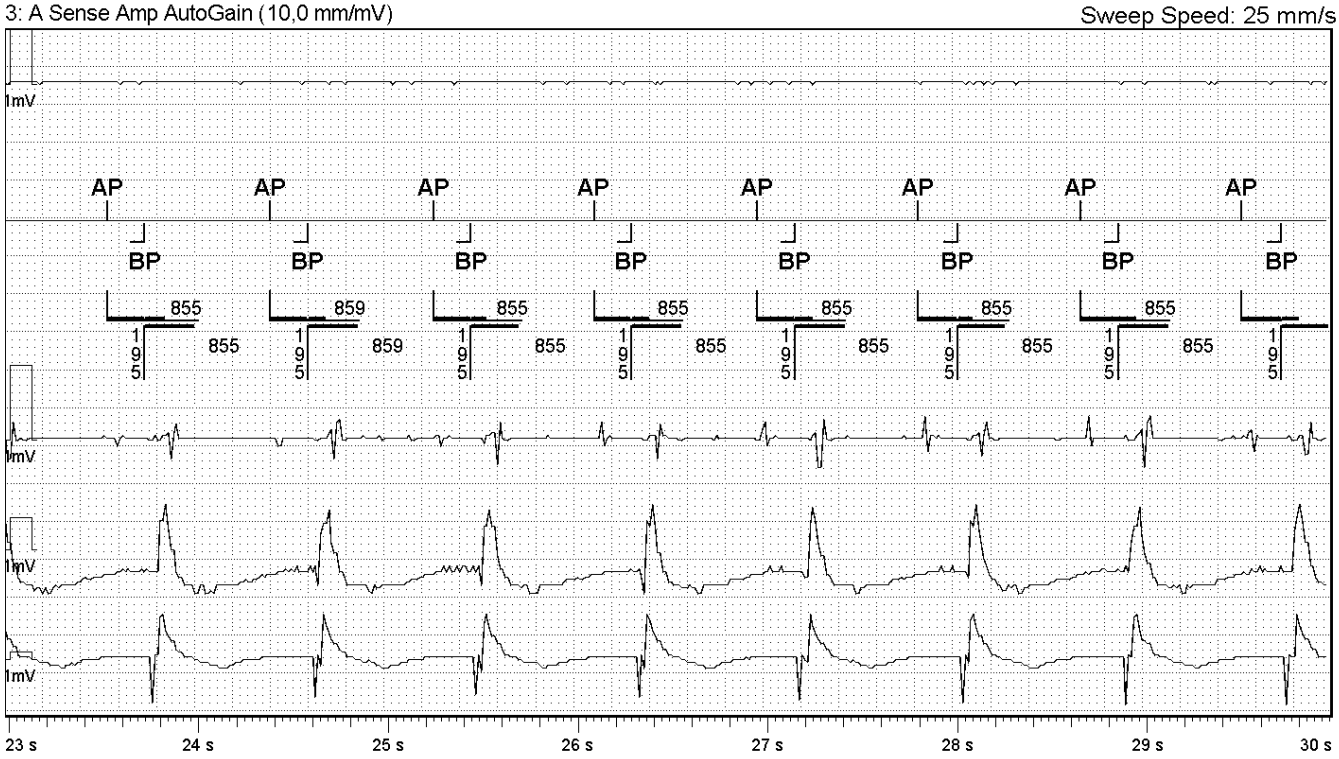
Presenting Rhythm Freeze

9 Mar 2022 13:37

Key Parameters

Mode	DDDR
Base Rate	70 bpm
Rest Rate	60 bpm
Paced AV Delay	200 ms
Sensed AV Delay	150 ms
Max Track Rate	110 bpm
Max Sensor Rate	110 bpm
Hysteresis Rate	Off
ACap™ Confirm	Monitor
RVCap™ Confirm	Off
LVCap™ Confirm	Off
AF Suppression™	Off
SyncAV™ CRT Delta	Off
Rate Responsive AV Delay	Medium
Rate Responsive PVARP/V Ref	Low
Ventricular Safety Standby	On

1: II AutoGain (100,0 mm/mV)
2: Markers
3: A Sense Amp AutoGain (10,0 mm/mV)
4: RV Bipolar AutoGain (4,4 mm/mV)
5: LV Distal tip 1 - Mid 2 AutoGain (1,1 mm/mV)
Sweep Speed: 25 mm/s



Wrap-up™ Overview

⚠ 2 Alerts

Patient
Date of Birth 8 Jun 1944
EF % Unknown

Indications for Implant

Device	Manufacturer	Model	Serial	Implant Date
CRT-D	St. Jude Medical	Quadra Assura MP™ 3371-40QC	9973677	8 Mar 2022
A Lead				
RV Lead	St. Jude Medical	Durata™ 7120Q / 58 cm	BNP078743	8 Mar 2022
LV Lead	St. Jude Medical	Quartet™ 1457Q / 86 cm	DBU030198	8 Mar 2022

Battery
Longevity: 5,1-5,4 yrs

Last Max Charge	8,6 sec (Therapy)
Battery Current	21 uA
Remaining Capacity to ERI	91%

Longevity estimate is based on patient history

Test Results 9 Mar 2022 Ⓐ Automatic

	Capture	Sense	Lead Impedance
A	Not Performed	Not Performed	Not Performed
RV	Not Performed	Not Performed	Not Performed
LV	Not Performed		Not Performed
HV			40 Ω (RV to SVC & Can) Ⓐ

Parameters

			VT	VF
Mode	DDDR	Zone Configuration		
Base Rate	▸**90** bpm	Detection Criteria	171 bpm	214 bpm
Max Track Rate	110 bpm	Therapy **(ENABLED)**	ATP x3	ATP x1
Paced AV Delay	200 ms		25,0 J	36,0 J
Sensed AV Delay	150 ms		36,0 J	40,0 J
Ventricular Pacing	LV→RV , 30 ms		40,0 J x2	40,0 J x4

Programming Changes	Initial	Final
AMS Base Rate	70 bpm	↳90 bpm
Base Rate	70 bpm	▸90 bpm
Rest Rate	60 bpm	▸Off

Alerts

⚠ **Episodes with alert conditions (3)**
A. Pulse Amplitude Safety Margin < 2:1

▸ Manual-programmed
↳ Auto-programmed