Patient:	Hlavacek 490309, Drahoslav	Follow-up on:
Device:	Rivacor 7 VR-T DX	13/04/2022
S/N:	84809589 (PID: 03)	12:00

Follow-up		**(1st interrog.)**
Tachycardia detection		Enabled

Patient

Name	Hlavacek 490309, Drahoslav
Last follow-up	07/03/2022
Implantation	04/03/2022

Device status

Mode	VVI
Basic rate/UTR [bpm]	40 / ----

	A	V
Pulse amplitude [V]		3.5
Pulse width [ms]		0.4

VT1/VT2/VF [bpm]		171 / OFF / 222
Last charge time		9.9 s (40 J)
Battery voltage [V]		3.12
Remaining battery capacity [%]		100
Battery status		BOS

Program number		5
Home Monitoring		OFF
MRI program		OFF

Test results

	A	V
Sensing amplitude [mV]		⇕ 8.5
Mean rate [bpm]		
Pacing threshold [V]		⇕ 0.6
Pulse width [ms]		0.4
Pacing impedance [Ω]		⇕ 539
Shock impedance [Ω]		⇕ 71

Diagnostics

Pacing in ventricle [%]	0
Atrial burden [%]	55.2

Episodes

New episodes VF/VT/others	---- / ---- / 21

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Parameters - Overview   (1st interrog.)

Tachycardia detection	Enabled
Mode	VVI
Basic rate [bpm]	40
CLS [bpm]	OFF
Sensor/Rate fading [bpm]	-----/OFF
Upper rate [bpm]	
Mode switching [bpm]	
AV delay [ms]	
Post-shock pacing	30 s

	A	V
Pulse amplitude [V]		3.5
Pulse width [ms]		0.4
Capture control		ATM
Sensing	Std.	Std.
Minimum threshold [mV]	0.2	0.8
Refractory period/Blanking		Std.
Home Monitoring		OFF
MRI program		OFF

Detection

AT/AF rate [bpm]	200
VT1 rate [bpm]	171
VT2 rate [bpm]	OFF
VF rate [bpm]	222

Therapy

	1. ATP	2. ATP
VT1	3*Burst	3*Ramp
VT2		
VF	Burst	

	1st shock	2nd shock	3rd-nth shock
VT1 [J]	40	40	6*40 J
VT2 [J]			
VF [J]	40	40	6*40 J
ATP optimization			OFF
Shock details			Standard

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Parameters - Tachycardia	(1st interrog.)
AT/AF rate [bpm]	200

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Parameters - Tachycardia   (1st interrog.)

Tachycardia detection   Enabled

Ventricular detection	VT1	VT2	VF
Rate [bpm]	171	OFF	222
Detection counter	28		16 out of 20
Redetection counter	20		8 out of 12
SMART detection	OFF		
Onset [%]	20		
Stability [ms]	48		
MorphMatch	Monitoring		
Sustained VT [min]		OFF	

VT/VF therapy	1st shock	2nd shock	3rd-nth shock
VT1 [J]	40	40	6*40 J
VT2 [J]			
VF [J]	40	40	6*40 J

VT1 ATPs	1. ATP	2. ATP
Attempts	3	3
ATP type	Burst	Ramp
Number S1	5	5
Add S1	ON	ON
R-S1 interval [%]	80	80
S1 decrement [ms]		10
Scan decrement [ms]	OFF	OFF

VT2 ATPs	1. ATP	2. ATP
Attempts		
ATP type		
Number S1		
Add S1		
R-S1 interval [%]		
S1 decrement [ms]		
Scan decrement [ms]		

VF therapy: ATP One Shot	
ATP type	Burst
Number S1	8
R-S1 interval [%]	88
S1 decrement [ms]	
Early ATP delivery	OFF

ATP optimization	OFF
Shock details	Standard

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Patient:	Hlavacek 490309, Drahoslav	Follow-up on:
Device:	Rivacor 7 VR-T DX	13/04/2022
S/N:	84809589 (PID: 03)	12:00

Parameters - Tachycardia (1st interrog.)

Shock details	VT1	VT2	VF
Confirmation	ON		ON
Polarity	Normal		Normal
Waveform	Biphasic		Biphasic
Shock path		RV ➜ Can	

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Parameters - Tachycardia   (1st interrog.)

MorphMatch

Zone	VT1	VT2
MorphMatch	Monitoring	
MorphMatch threshold	Std.	

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Parameters - Bradycardia

(1st interrog.)

Mode	VVI

Basic rate	
Basic rate [bpm]	40
Rate hysteresis [bpm]	OFF
Scan/Repetitive	
Night rate [bpm]	OFF
Night begins	
Night ends	

CLS [bpm]	OFF

Sensor/Rate fading	
Max. sensor rate [bpm]	
Sensor gain	
Sensor threshold	
Rate fading	OFF
Rate increase [bpm/cycle]	
Rate decrease [bpm/cycle]	

Upper rate	
Upper rate [bpm]	
Upper rate response	
2:1 rate from [bpm]	

Mode switching	
Intervention rate [bpm]	
Mode	
Change of basic rate [bpm]	
Post ModeSw rate [bpm]	
Post ModeSw duration [min]	
Onset criterion [out of 8]	
Resolution criterion [out of 8]	
Rate stabilization during mode switching	

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Parameters - Bradycardia		(1st interrog.)

AV delay

AV delay after sense [ms]	
at rate [bpm]	

AV hysteresis mode	
AV hysteresis [ms]	
AV scan/repetitive	
AV dynamics	

Post-shock pacing

Duration	30 s
Mode	VVI
Basic rate [bpm]	70

	V
Pulse amplitude [V]	3.5
Pulse width [ms]	0.4

Capture control	V
Capture control	ATM
Threshold test start [V]	3.5
Min. amplitude [V]	
Safety margin [V]	
Status	OK
Last measured threshold [V]	0.6
Date	12/04/2022
Time	23:41
Note	

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Parameters - Bradycardia		(1st interrog.)

Sensing	A	V
Sensing	Std.	Std.

Thresholds		
Upper threshold [%]		50
Upper threshold duration after sens. [ms]		350
Upper threshold duration after pacing [ms]		400
Lower threshold [%]		25
Post pace T-wave suppression		OFF

	A	V
Minimum threshold [mV]	0.2	0.8

Refractory period/Blanking	Std.
PVARP [ms]	
2:1 rate from [bpm]	
PVARP extension	
PVARP after PVC [ms]	
Far-field protection after Vs [ms]	AUTO
Far-field protection after Vp [ms]	75

PMT detection/termination	
VA criterion [ms]	

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Patient:	Hlavacek 490309, Drahoslav	Follow-up on:
Device:	Rivacor 7 VR-T DX	13/04/2022
S/N:	84809589 (PID: 03)	12:00

Parameters - Home Monitoring	(1st interrog.)

General settings

Home Monitoring	OFF
Time of transmission [hh:mm]	
IEGM for therapy episodes	
IEGM for monitoring episodes	
Ongoing atrial episode	
QuickCheck	

Last message

Message type	----
Date	----
Time	----
PID	03

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Parameters - Diagnostics	(1st interrog.)

Recording episodes

For AT/AF	OFF
For SVT	ON
For nsT	ON
Periodic recording [days]	90

Statistics

Start resting period [hh:mm]	02:00
Resting period duration [h]	4.0
AV delay adj. sensing test [ms]	
Thoracic impedance	OFF

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Parameters - Patient (1st interrog.)

ID	490309/152
Name	Hlavacek 490309
First name	Drahoslav
Date of birth	09/03/1949
Gender	M
Implantation	04/03/2022
Hospital, City	FN Brno
Physician	M.D. Hetmer Martin
Phone	+420532232459
Symptom	Congestive heart failure
ECG indication	Not documented
Etiology	Dilative cardiomyopathy (non-ischemic)
LVEF [%]	15
NYHA	XXX
Remark	

Leads

Lead model	Serial number	Manufacturer	Type	Implantation	Brady	Tachy
PlexaMRI S DX 65/17	81288621	Biotronik	Multi	04/03/2022	RA+RV	RV
				XX/XX/XXXX		
				XX/XX/XXXX		
				XX/XX/XXXX		

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Diagnostics - Timing

Event episodes

Events

0%

Vp

Pacing trend

—V
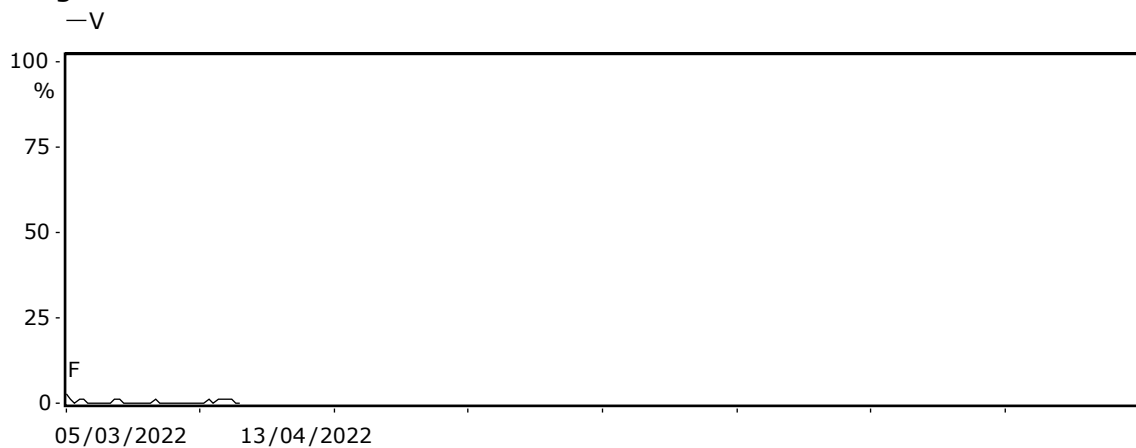
05/03/2022   13/04/2022

Mode switching

Start	08/03/2022

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Diagnostics - Timing 2

Rate histograms [% time]
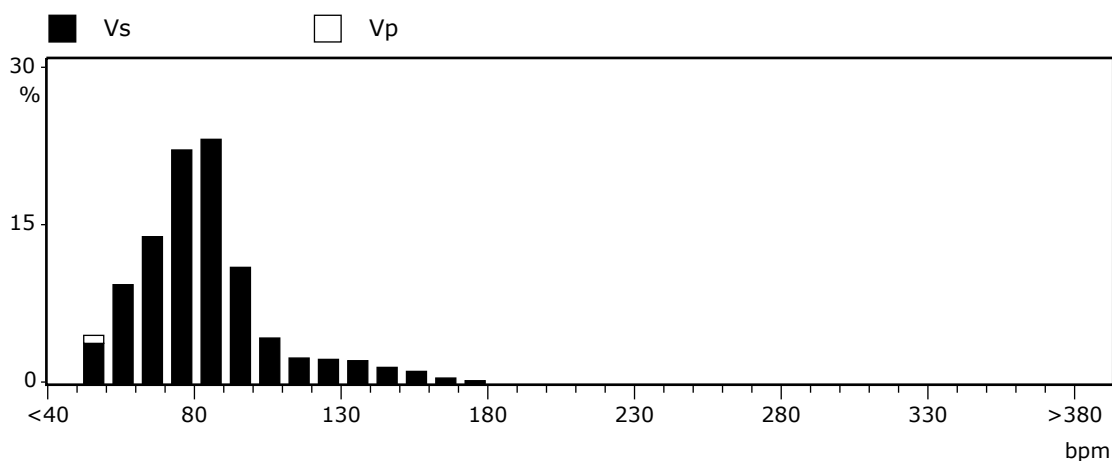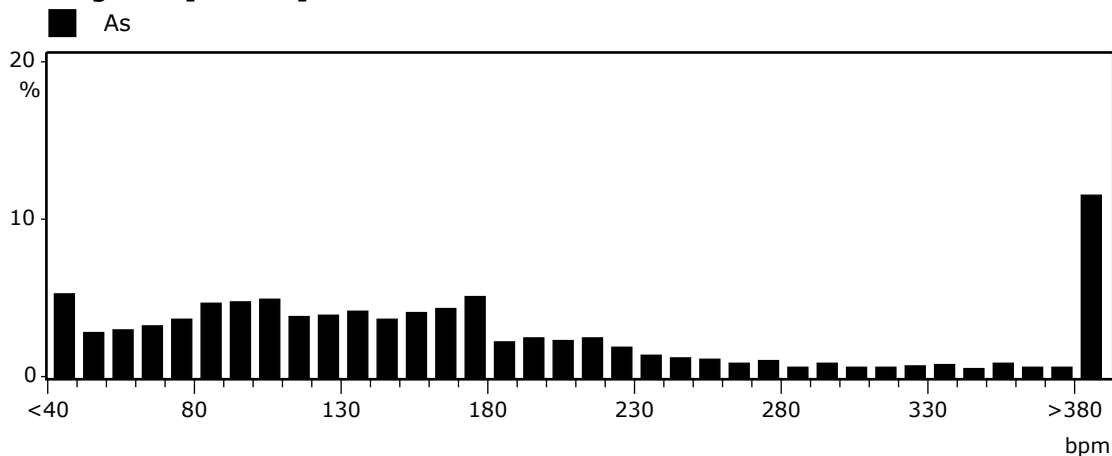
AV histogram
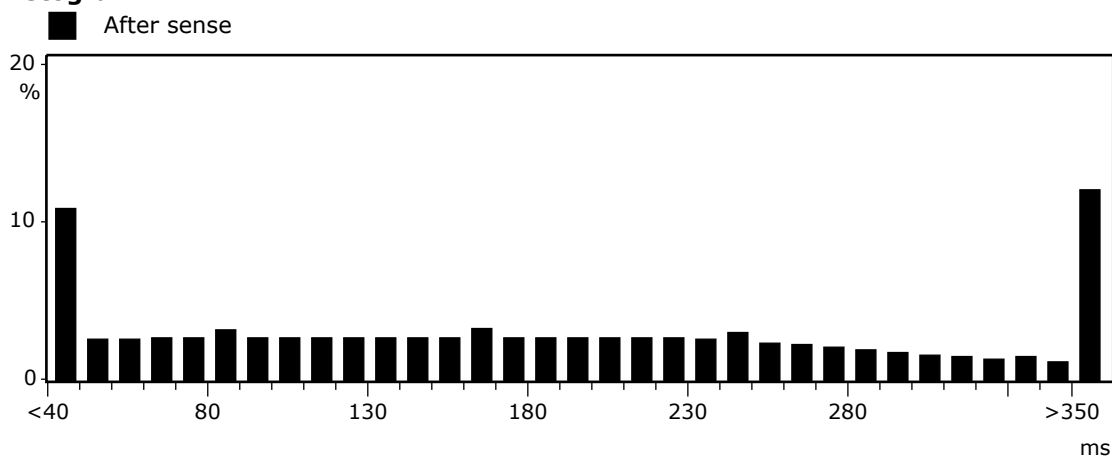
Start			08/03/2022

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Diagnostics - Arrhythmia A

Atrial burden

Total number of episodes	642
Atrial arrhythmia burden [%]	55.2

Duration of tachycardia episode

0 - 1 min	2 %
1 - 10 min	29 %
10 - 60 min	48 %
1 - 4 h	17 %
4 - 12 h	3 %
12 - 24 h	0 %
24 - 48 h	0 %
> 48 h	0 %
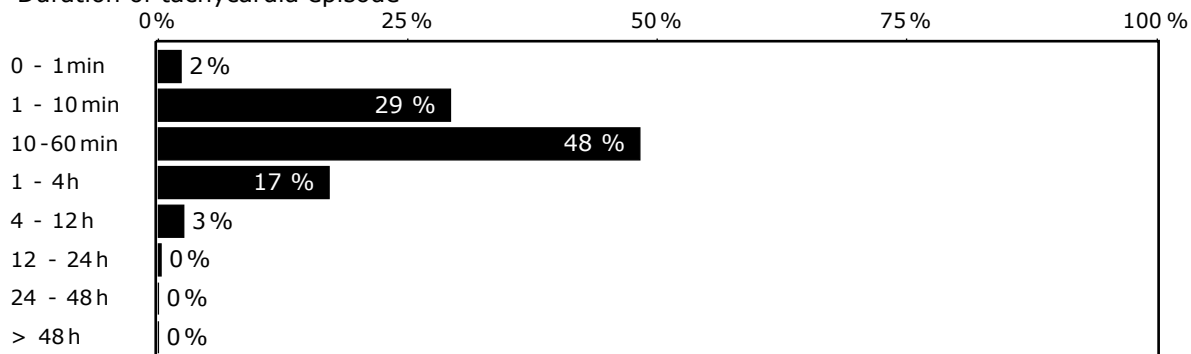
Tachy-episodes/24 h
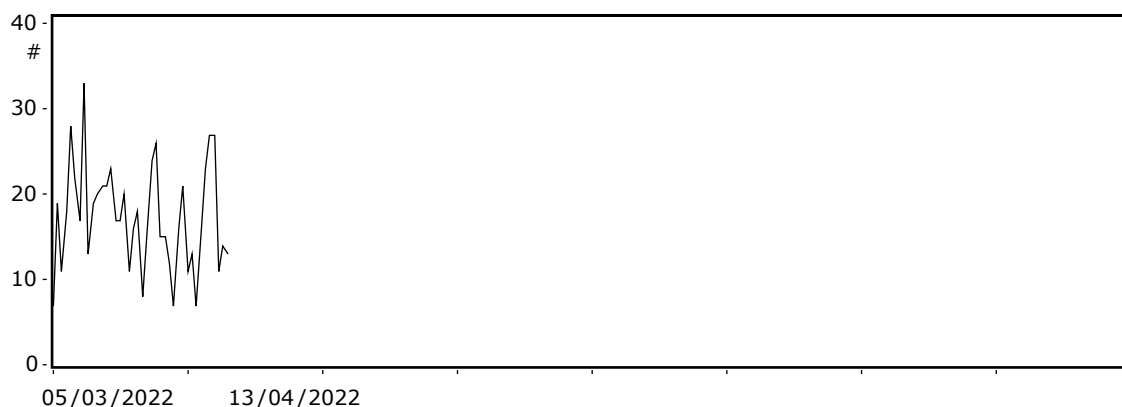
Arrhythmia burden AT/AF
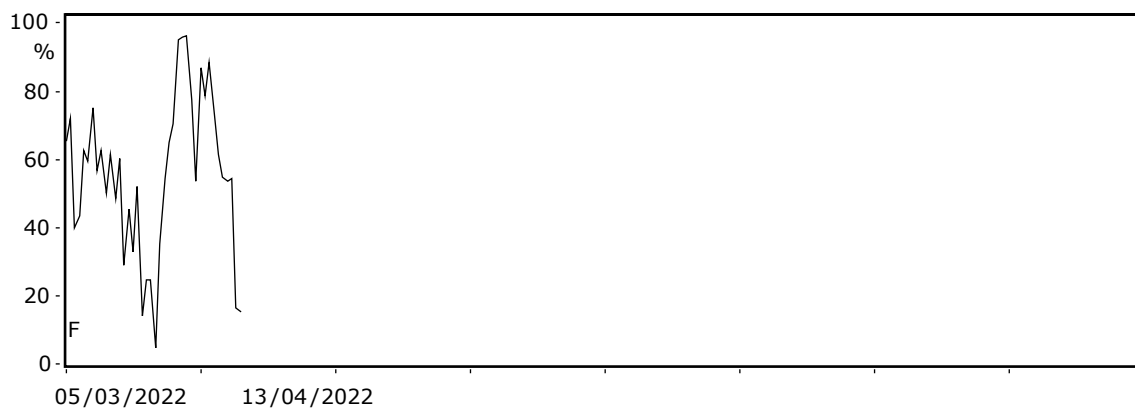
Start	08/03/2022

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Diagnostics - Arrhythmia A

Ventricular response [% time]
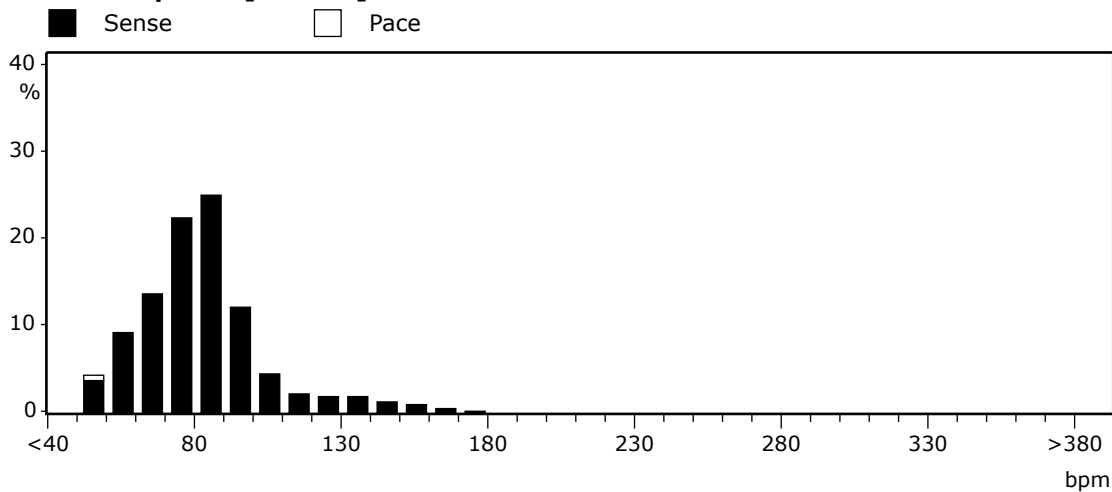
Rate
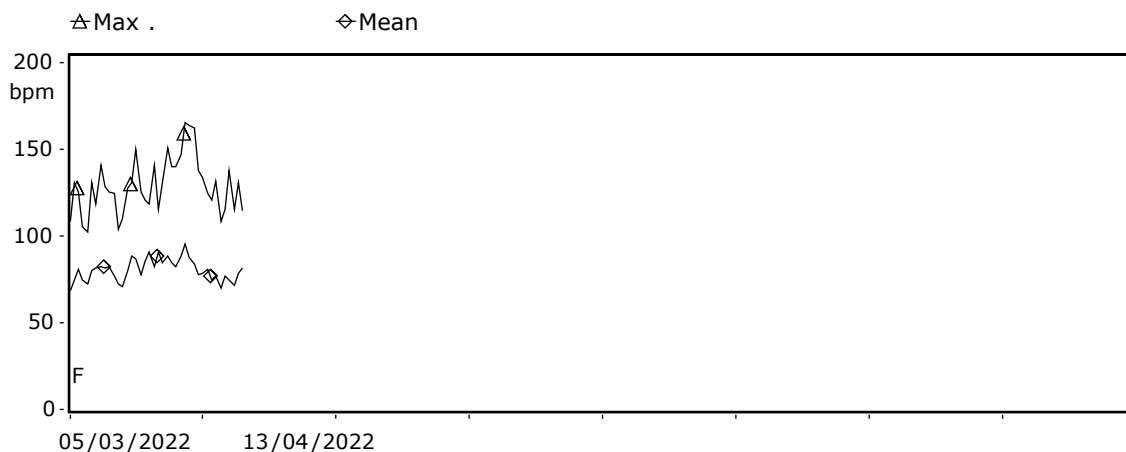
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Diagnostics - HF monitor

Mean rate
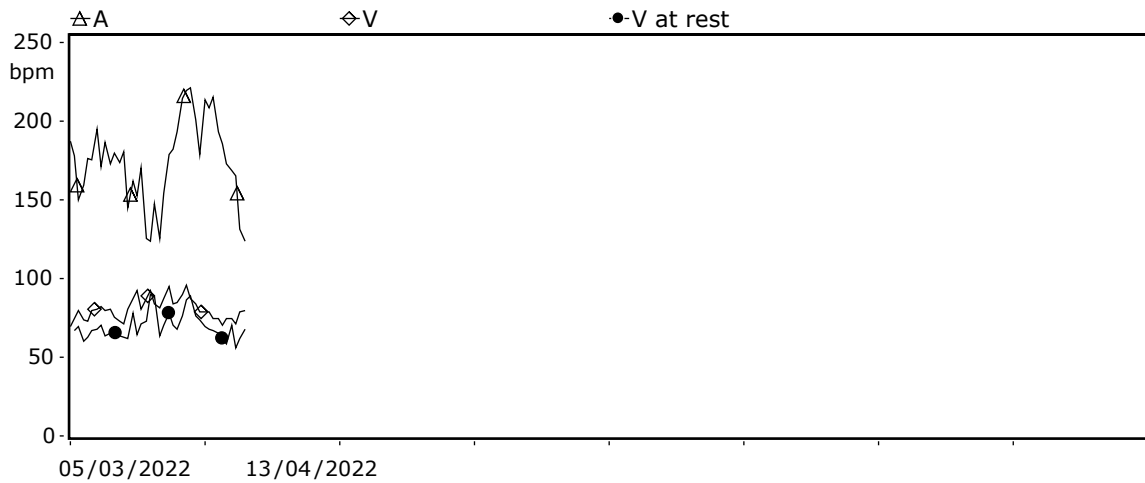
HR variability
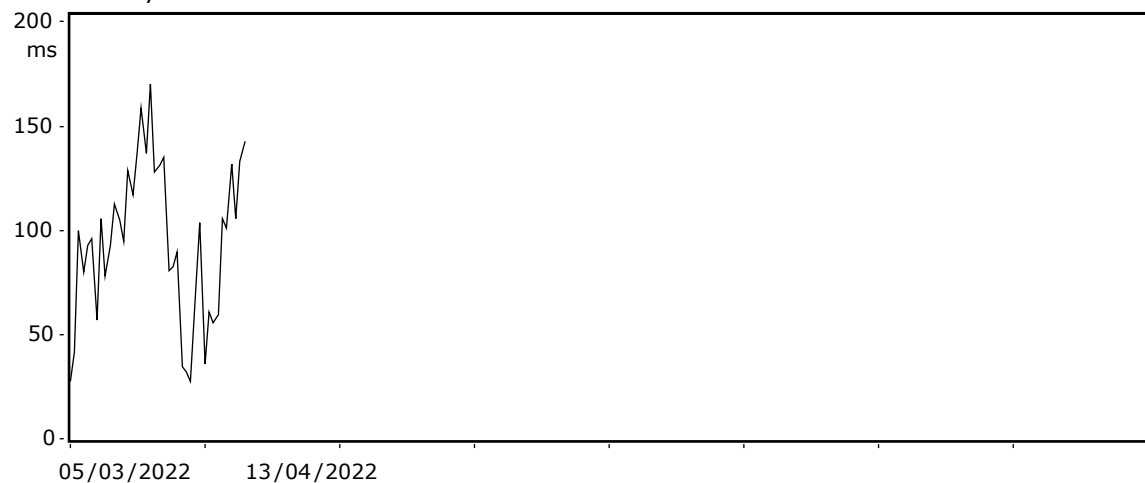
Patient activity

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Diagnostics - HF monitor

Thoracic impedance
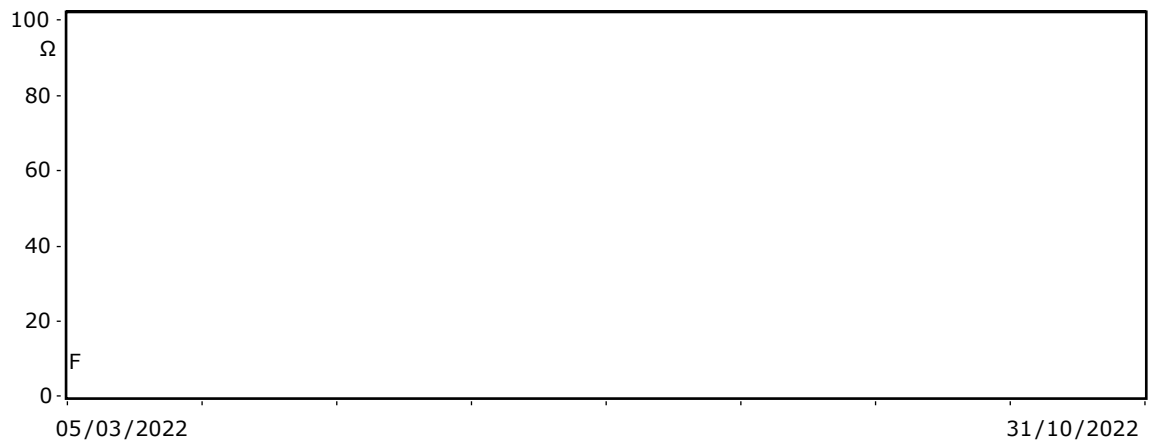
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Diagnostics - 48 hours

Rate
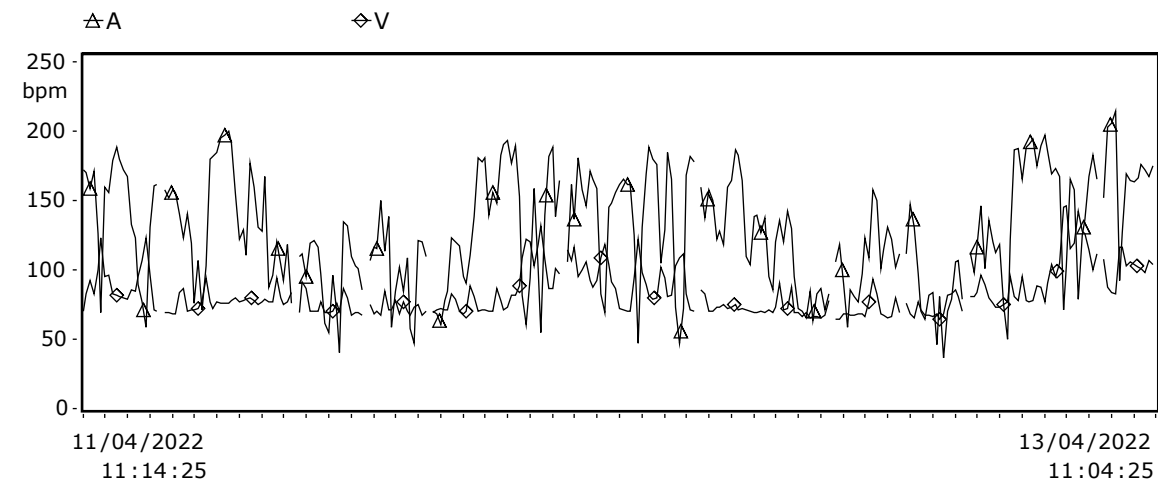
Atrial arrhythmia burden
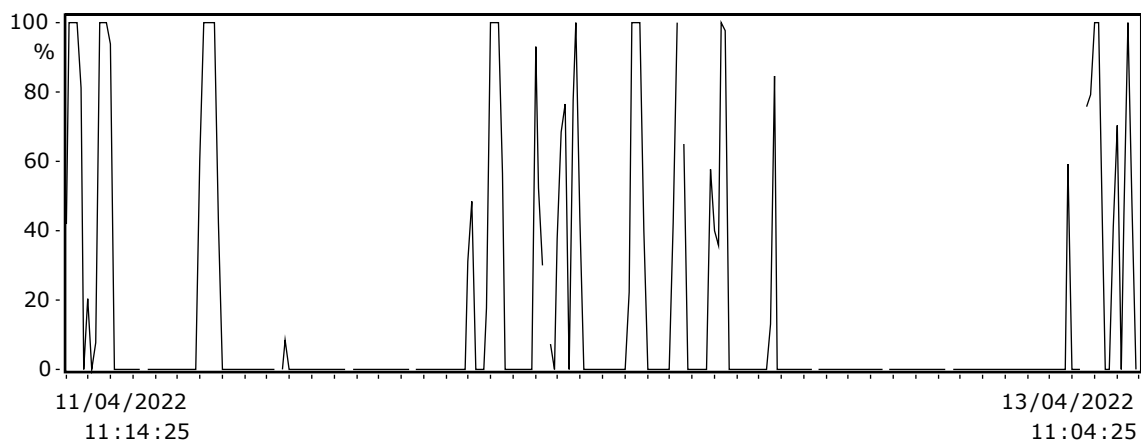
Paced
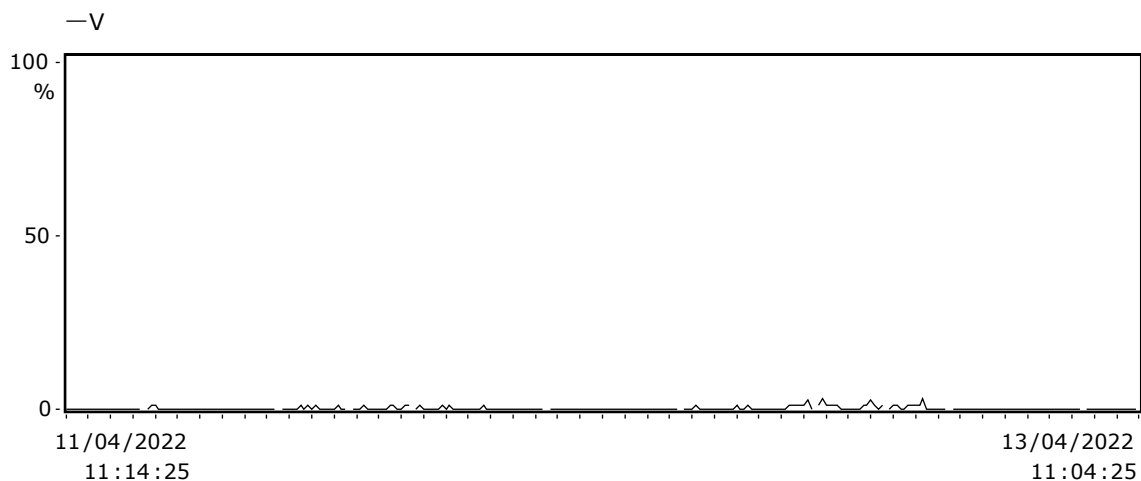
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Follow-up - Details

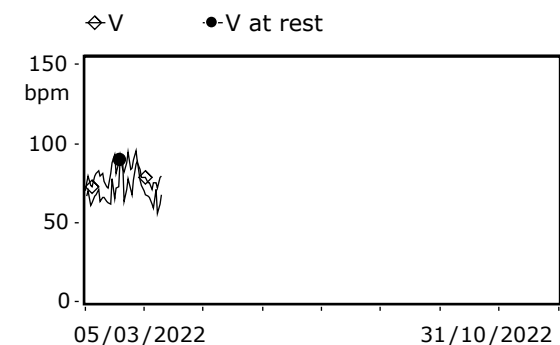### Rate histograms [% time]
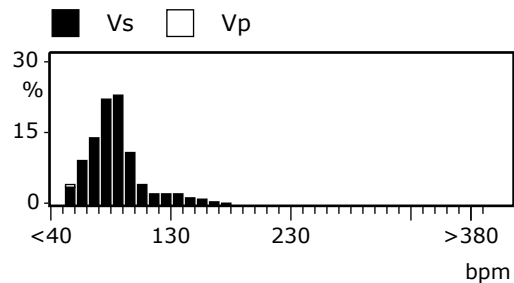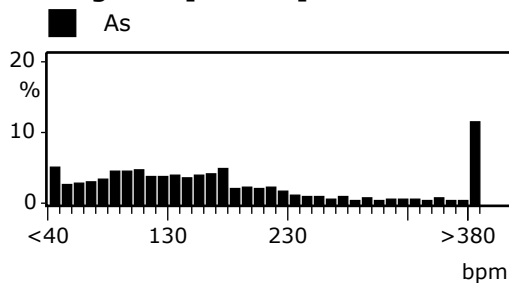
Event episodes

Longest atrial episode
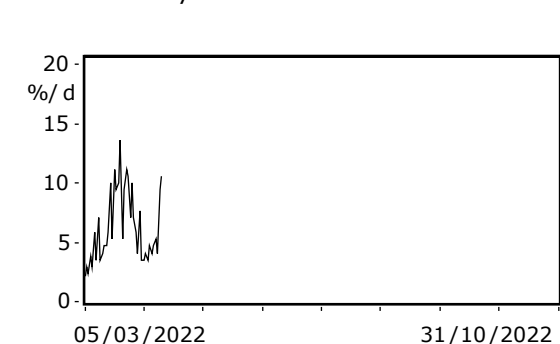
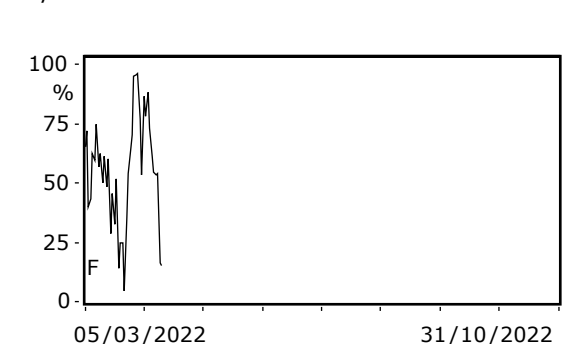| Longest atrial episode [dd:hh:mm] | 00:00:00 |

Long-term trends
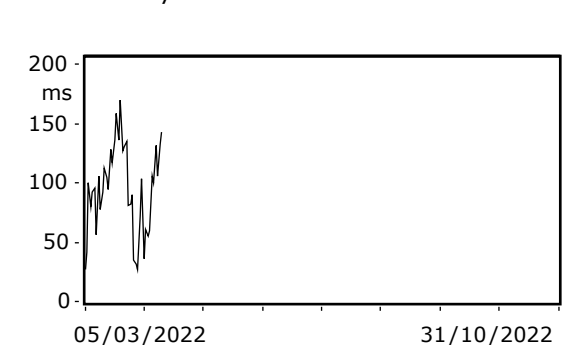
| Start | 08/03/2022 |

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Follow-up - TrendView

Pacing threshold
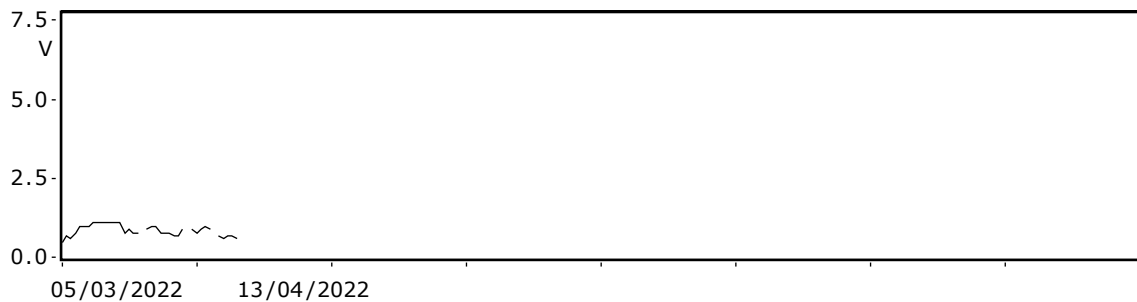
P/R amplitude
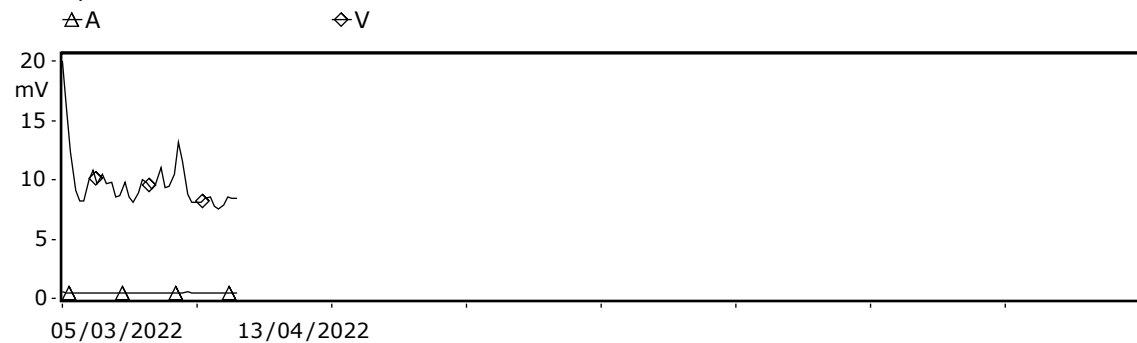
Pacing impedance
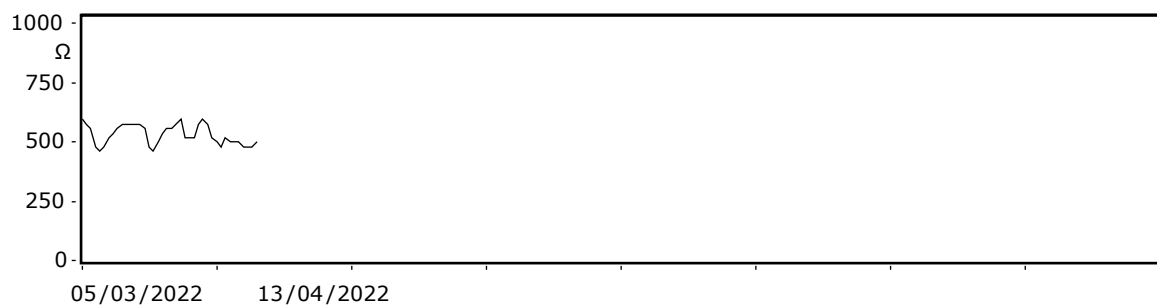
Shock impedance
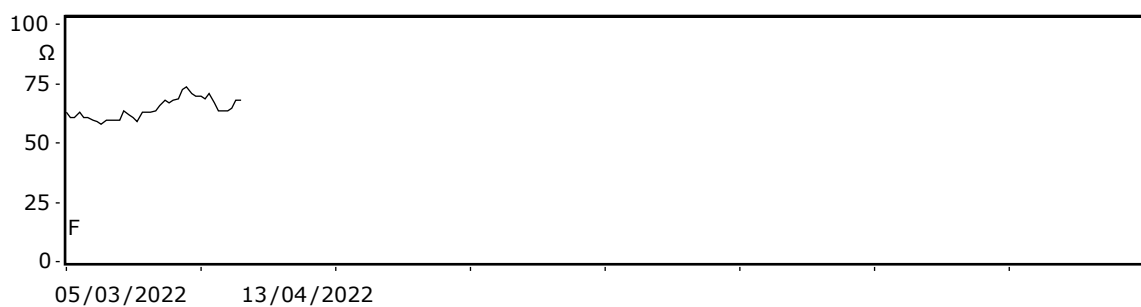
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Diagnostics - More diagnostics - Event counters
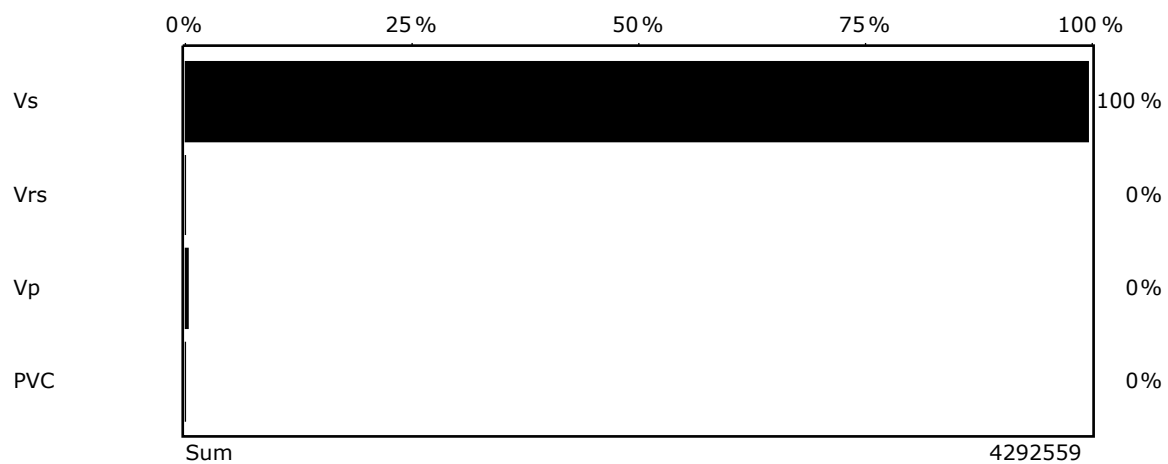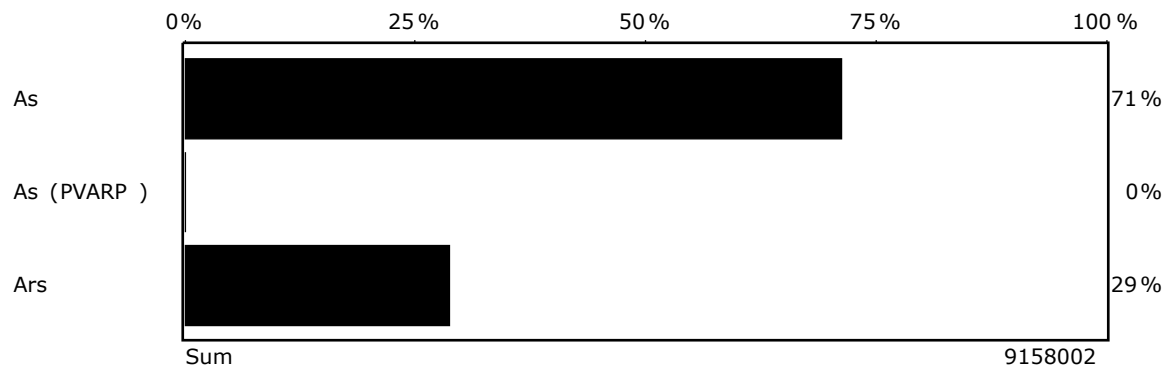
As	71%
As (PVARP)	0%
Ars	29%

Sum 9158002

Vs	100%
Vrs	0%
Vp	0%
PVC	0%

Sum 4292559

Diagnostics - More diagnostics - Pulse amplitudes

Ventricle
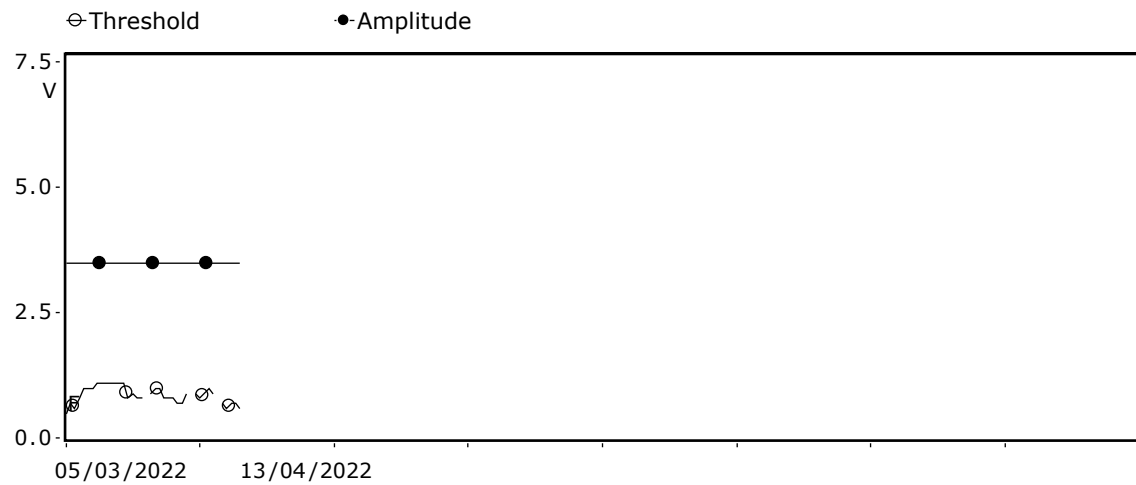
⊖ Threshold   ● Amplitude

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Diagnostics - More diagnostics - Rate trend

Rate
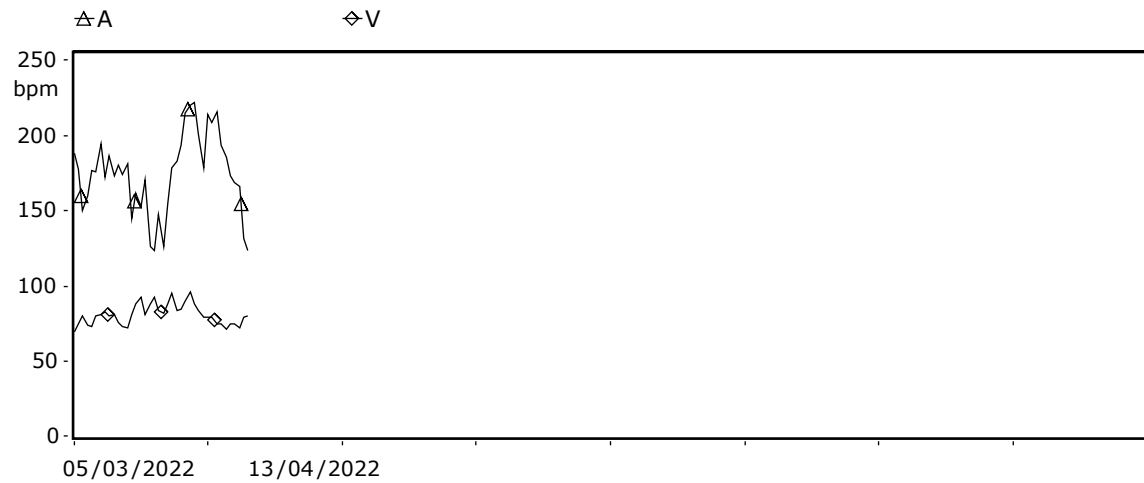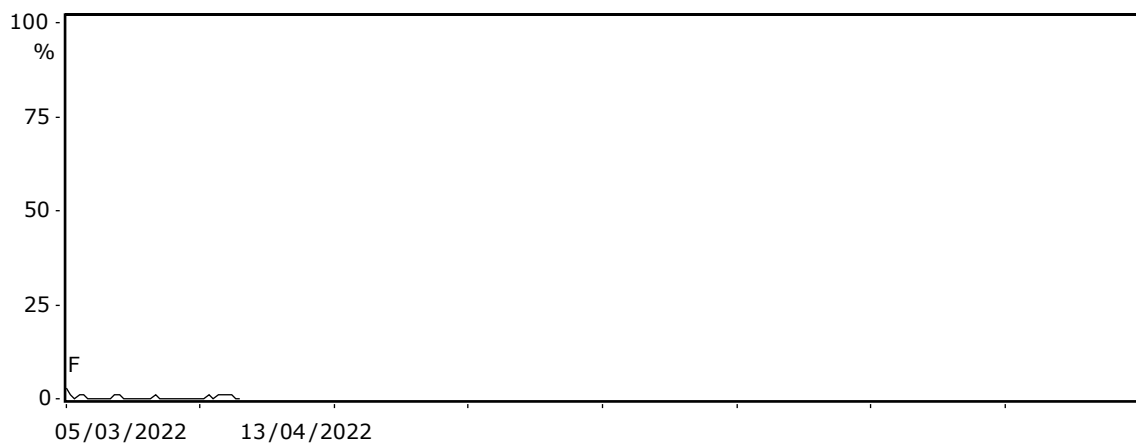
△ A   ◇ V

Paced

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Diagnostics - More diagnostics - Sensor rate

Sensor rate [% time]
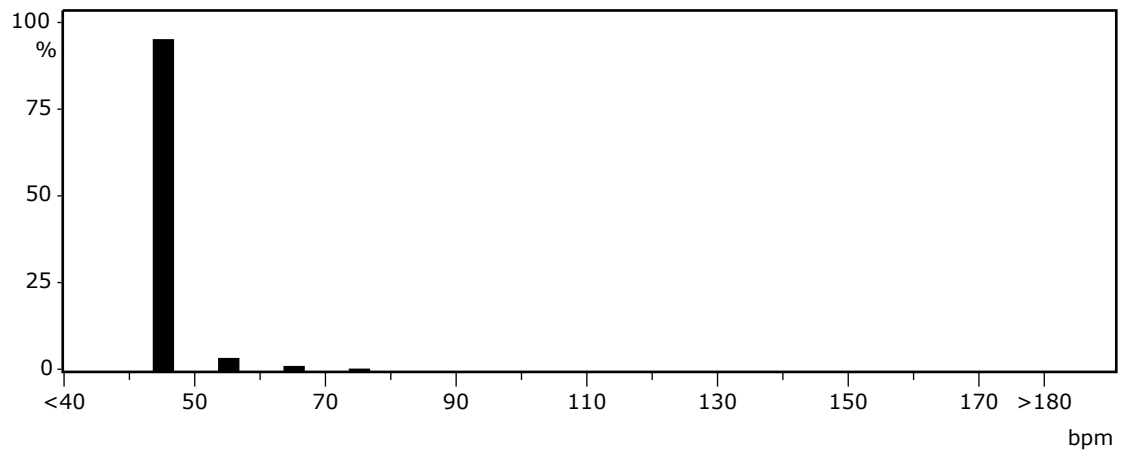
Start   08/03/2022

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Diagnostics - More diagnostics - PVC/h

Trend PVC/h
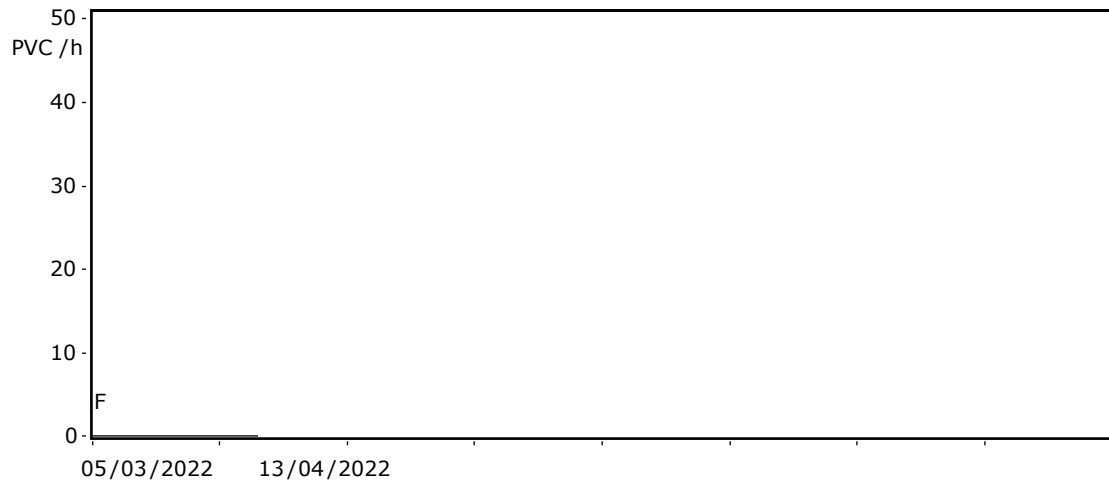
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Diagnostics - More diag. - Short intervals/nsT

nsT
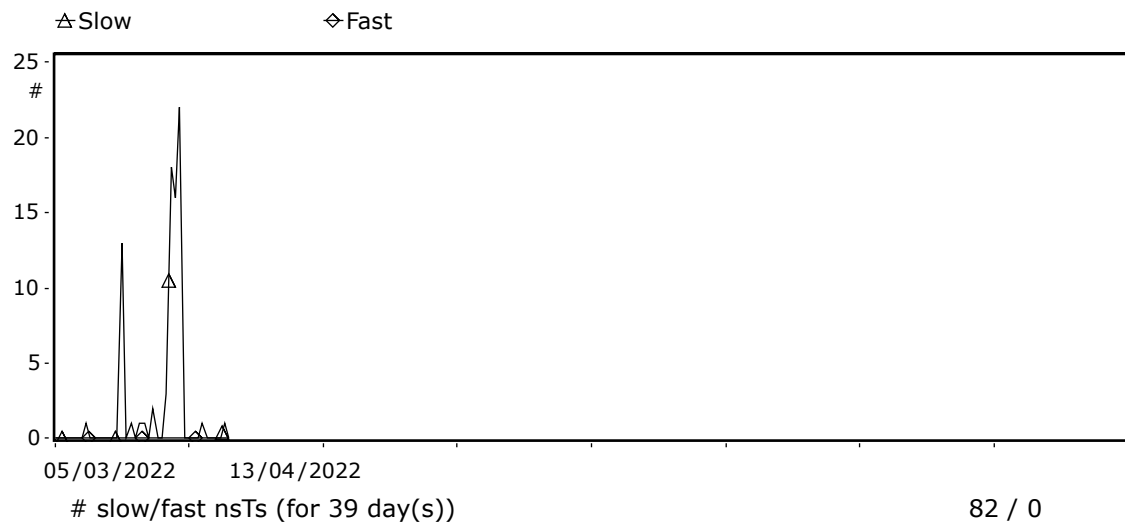
△ Slow   ◇ Fast
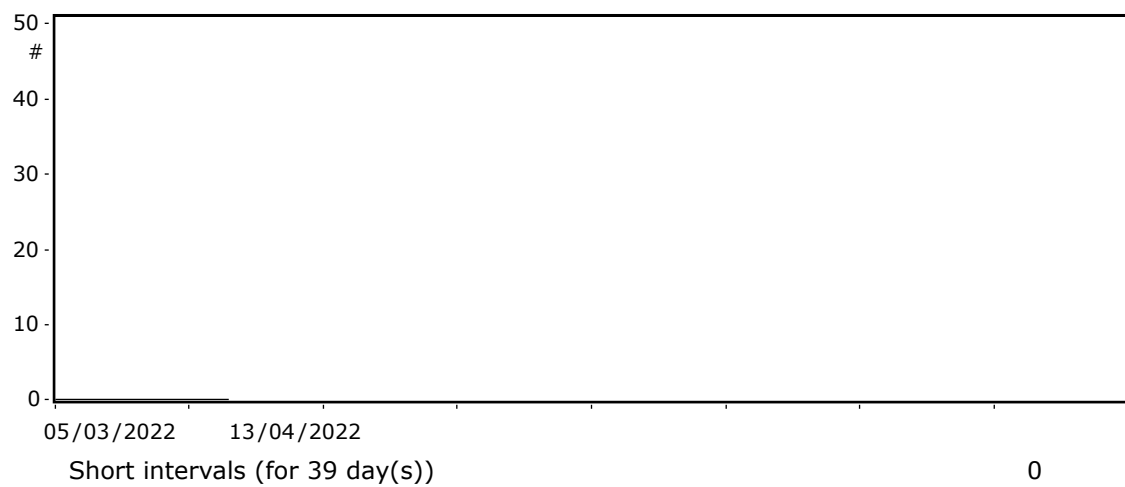
slow/fast nsTs (for 39 day(s))   82 / 0

Short intervals

Short intervals (for 39 day(s))   0

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Diag. - More diag. - Extended RV lead measurement

Rel. RV lead impedance change

▲ RV coil   - Can   ◇ RV coil   - RV tip
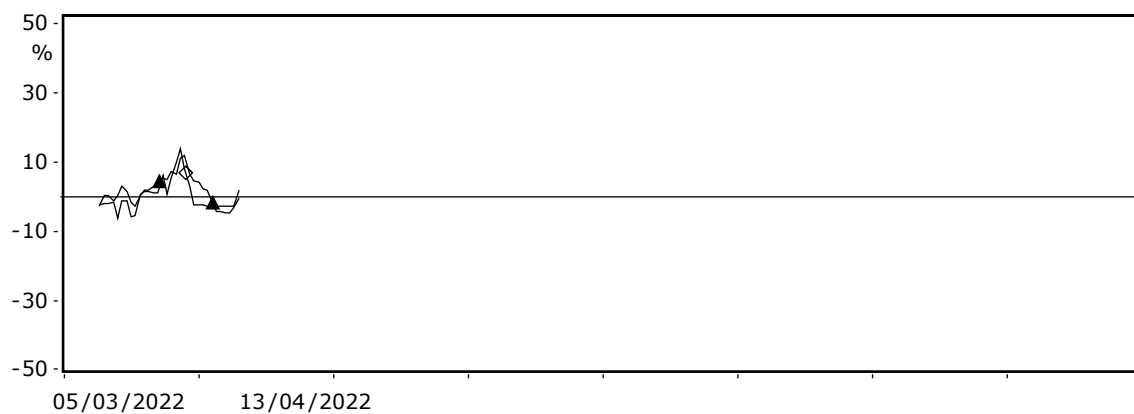
▲ RV ring   - Can   ◇ RV ring   - RV tip
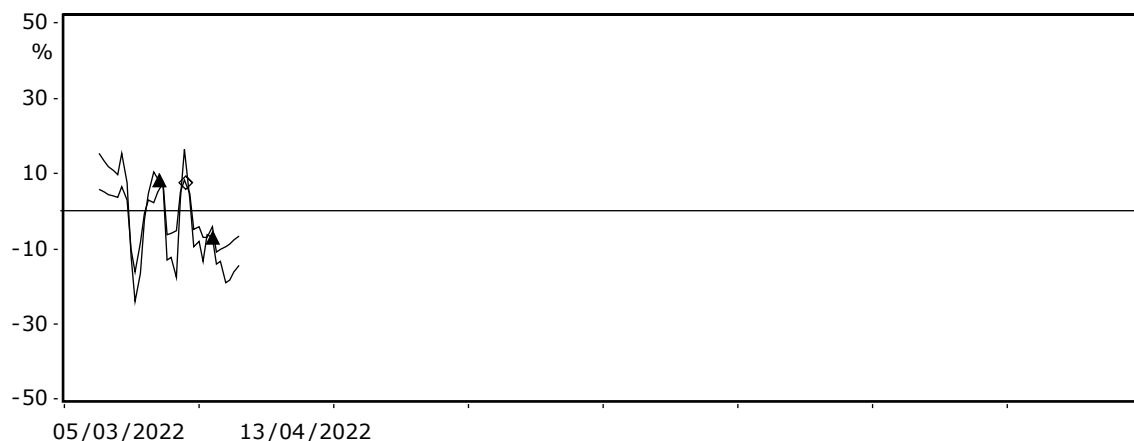
▲ SVC coil   - Can   ◇ SVC coil   - RV coil
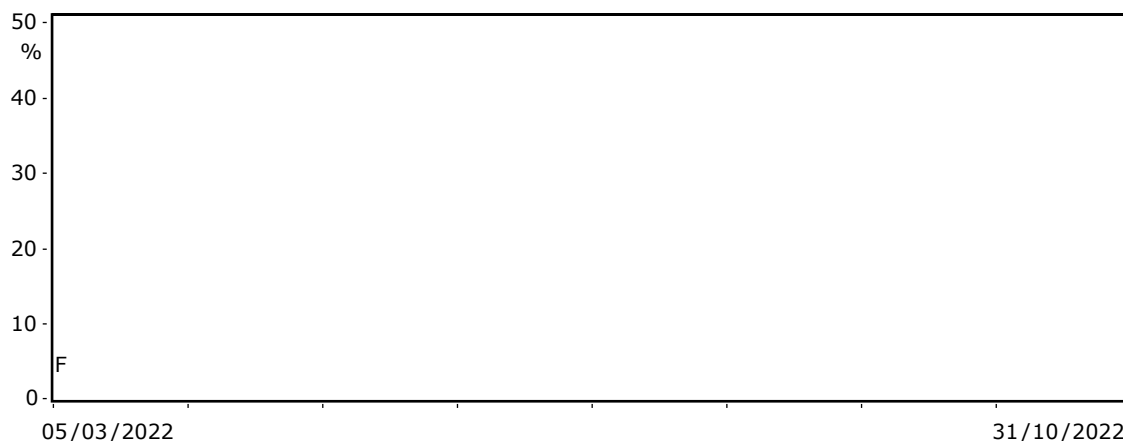
RV ➜ Can/RV ➜ SVC [Ω]   71/---

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Recordings - Shocks

No.	Time	Energy [J]	Charge time [s]	Impedance [Ω]	Description
1	20/02/22 00:39	40	9.9	***	Automatic cap reform

Total number of charges   1

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Recordings - Counter

Detections since last follow-up

Zone	Atr. mon.	SVT	VT1 mon.	VT1 ther.	VT2	VF
Number	657	0	0	0	0	0

SVT details		AFlut	AFib	SinusT	1:1
Number		0	0	0	0

Detections since implantation

Zone	Atr. mon.	SVT	VT1 mon.	VT1 ther.	VT2	VF
Number	698	0	0	0	0	0

SVT details		AFlut	AFib	SinusT	1:1
Number		0	0	0	0

Therapy since last follow-up

	Successful	Unsuccessful
ATP in VT	0	0
ATP One Shot	0	0
Shock	0	0

Therapy since implantation

	Delivered
ATP in VT	0
ATP One Shot	0
Shock	0

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Recordings - ATP statistics   (1st interrog.)

Zone	ATP	Sequence	Delivered	Successful	Accelerated
VT1	ATP1: 1. Burst	1	0	0	0
VT1	ATP1: 2. Burst	2	0	0	0
VT1	ATP1: 3. Burst	3	0	0	0
VT1	ATP2: 1. Ramp	4	0	0	0
VT1	ATP2: 2. Ramp	5	0	0	0
VT1	ATP2: 3. Ramp	6	0	0	0

* blocked due to acceleration

Start   04/03/2022

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Recordings - Episodes

No.	Time	Zone	PP [ms]	RR [ms]	Description	PP [ms]	RR [ms]
83	13/04/22 07:06	nsT	***	***	Slow nsT	***	***
82	13/04/22 07:05	nsT	***	***	Slow nsT	***	***
81	11/04/22 08:11	nsT	***	***	Slow nsT	***	***
80	06/04/22 05:47	nsT	***	***	Slow nsT	***	***
79	01/04/22 07:52	nsT	***	***	Slow nsT	***	***
78	01/04/22 07:42	nsT	***	***	Slow nsT	***	***
77	01/04/22 07:24	nsT	***	***	Slow nsT	***	***
76	01/04/22 07:22	nsT	***	***	Slow nsT	***	***
75	01/04/22 07:20	nsT	***	***	Slow nsT	***	***
74	01/04/22 07:18	nsT	***	***	Slow nsT	***	***
73	01/04/22 07:18	nsT	***	***	Slow nsT	***	***
72	01/04/22 07:06	nsT	***	***	Slow nsT	***	***
71	01/04/22 07:05	nsT	***	***	Slow nsT	***	***
70	01/04/22 07:04	nsT	***	***	Slow nsT	***	***
69	01/04/22 07:00	nsT	***	***	Slow nsT	***	***
68	01/04/22 06:59	nsT	***	***	Slow nsT	***	***
67	01/04/22 06:59	nsT	***	***	Slow nsT	***	***
66	01/04/22 06:58	nsT	***	***	Slow nsT	***	***
65	01/04/22 06:57	nsT	***	***	Slow nsT	***	***
64	01/04/22 06:57	nsT	***	***	Slow nsT	***	***
16	23/03/22 00:04	---	***	***	RV thresh. test unsuccessf.	***	***

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Recordings - Details   Episode: 83

EGM of episode No.	83

Detection	
Zone	nsT
Measured Onset in V [%]	20
Measured stability in V [ms]	
MorphMatch counter [%]	

	VT1	VT2	VF
Redetections			

Therapy			
ATP			
Shocks			
Max. energy [J]			
ATP One Shot			

Times	
Detection	13/04/2022 07:06:18
Termination	
Duration	

Program No.	5

Remark

Slow non-sustained tachycardia

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Patient: Hlavacek 490309, Drahoslav

Device: Rivacor 7 VR-T DX

S/N: 84809589 (PID: 03)

Follow-up on:

13/04/2022

12:01

Recordings - IEGM   Episode: **83**

25 mm/s   25 mm/s

25 mm/s

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Recordings - IEGM

Episode: **83**

25 mm/s

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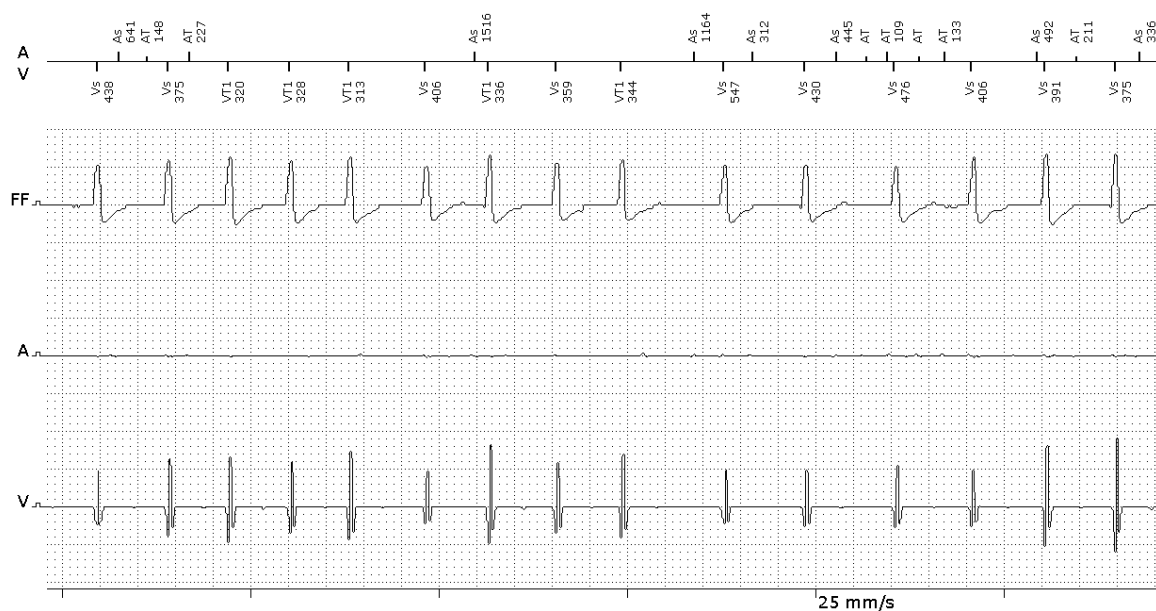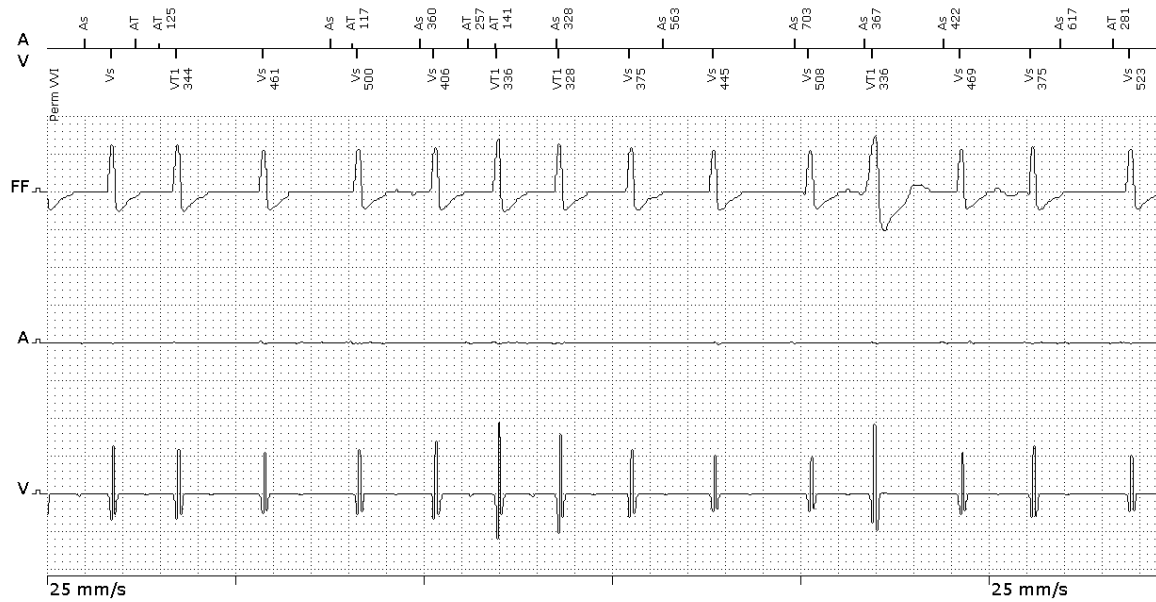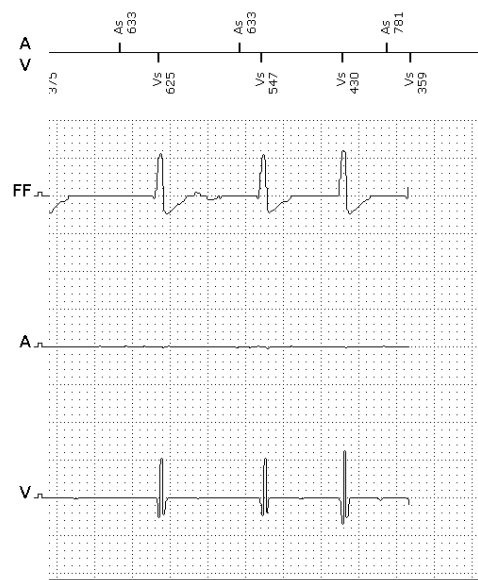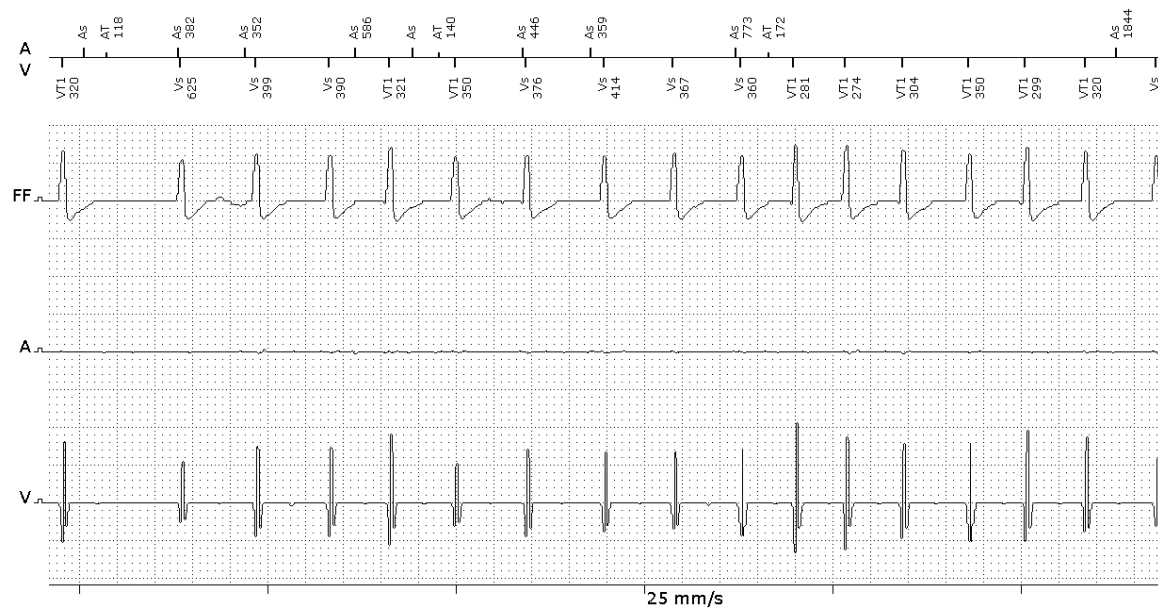
Recordings - Details   Episode: 82

EGM of episode No.	82

Detection

Zone	nsT
Measured Onset in V [%]	29
Measured stability in V [ms]	
MorphMatch counter [%]	

	VT1	VT2	VF
Redetections			

Therapy

ATP	
Shocks	
Max. energy [J]	
ATP One Shot	

Times

Detection	13/04/2022 07:05:03
Termination	
Duration	

Program No.	5

Remark

Slow non-sustained tachycardia

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Patient: Hlavacek 490309, Drahoslav

Device: Rivacor 7 VR-T DX

S/N: 84809589 (PID: 03)

Follow-up on:

13/04/2022

12:01

Recordings - IEGM

Episode: **82**

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Recordings - IEGM   Episode: **82**

25 mm/s

25 mm/s

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Recordings - IEGM   Episode: **82**

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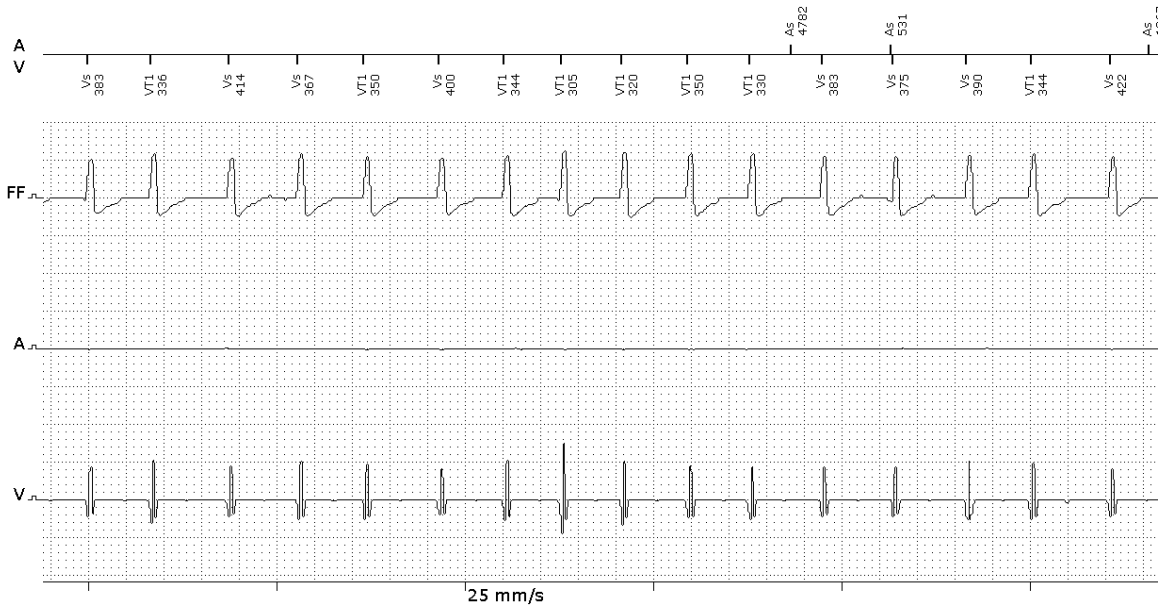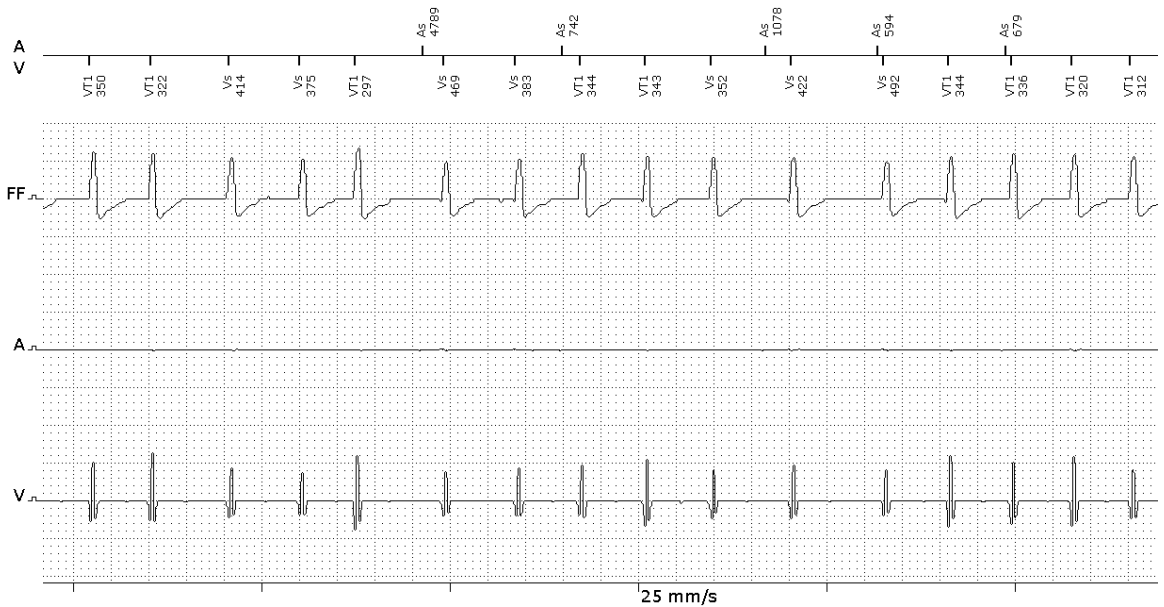
Test - Sensing	(not successful)

Test program

Mode	OFF
Basic rate [bpm]	
AV delay [ms]	

Measured values	A	V
Mean rate [bpm]		
Min. amplitude [mV]		
Mean amplitude [mV]		
Max. amplitude [mV]		

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Patient:	Hlavacek 490309, Drahoslav	Follow-up on:
Device:	Rivacor 7 VR-T DX	13/04/2022
S/N:	84809589 (PID: 03)	12:01

Freeze   (Intrinsic rhythm test)
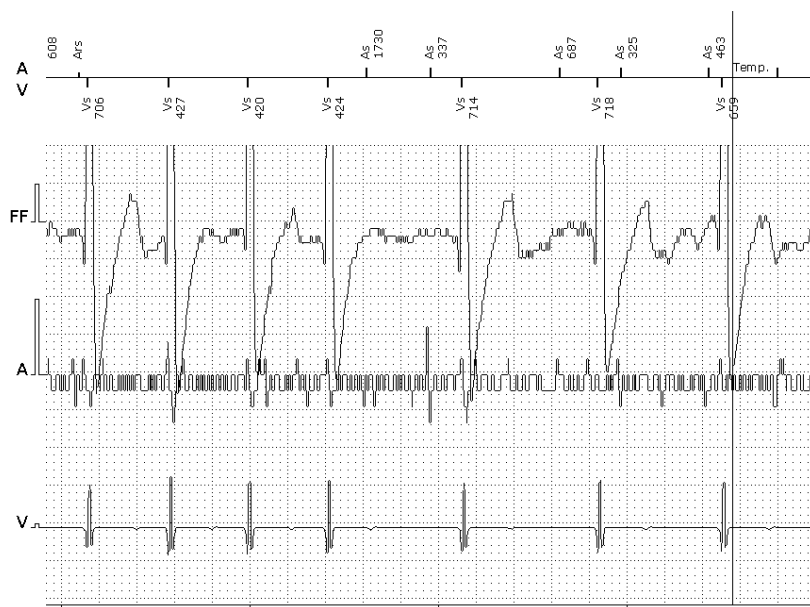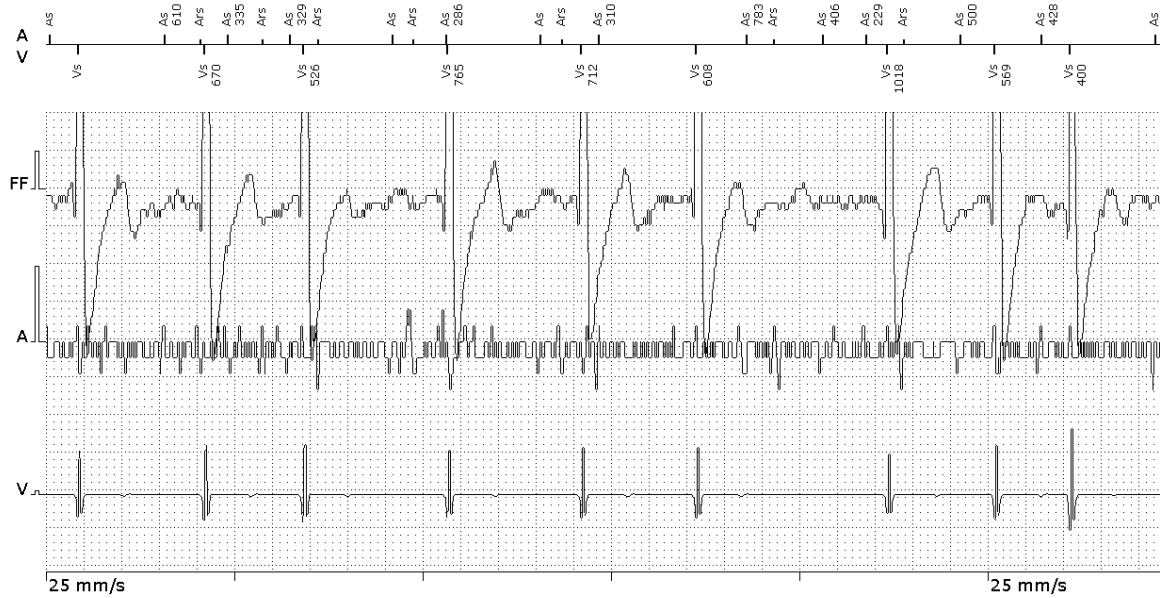
25 mm/s   25 mm/s

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Test - Sensing

Test program

Mode	VVI
Basic rate [bpm]	30
AV delay [ms]	

Measured values

	A	V
Mean rate [bpm]	142	
Min. amplitude [mV]	0.4	11.4
Mean amplitude [mV]	0.4	12.4
Max. amplitude [mV]	0.4	13.7

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Freeze   (Sensing test)

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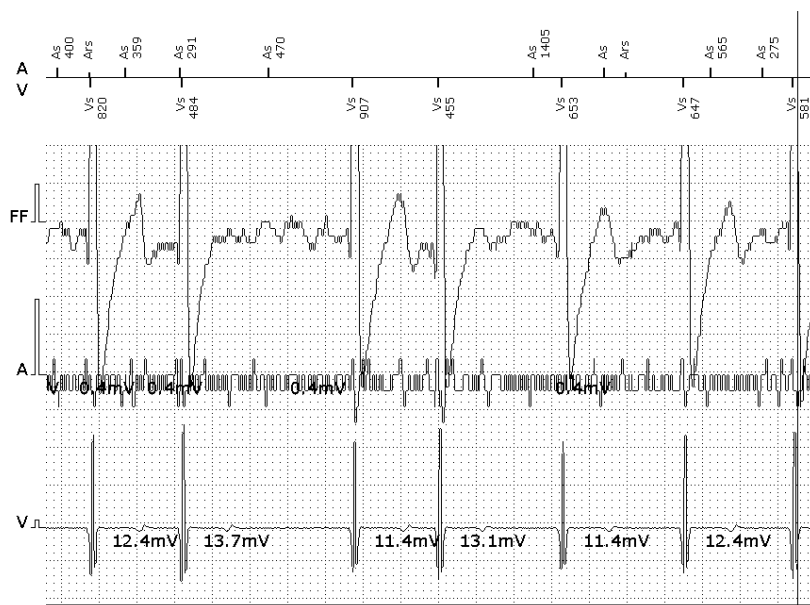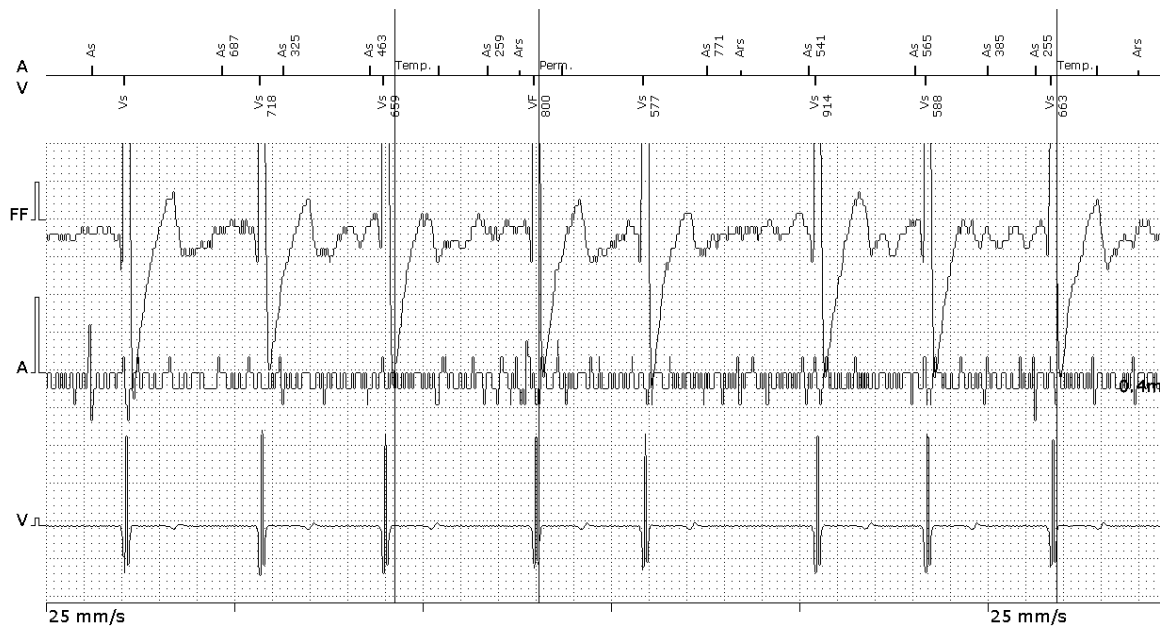
Recordings - ATP statistics

Zone	ATP	Sequence	Delivered	Successful	Accelerated
VT1	ATP1: 1. Burst	1	0	0	0
VT1	ATP1: 2. Burst	2	0	0	0
VT1	ATP1: 3. Burst	3	0	0	0
VT1	ATP2: 1. Ramp	4	0	0	0
VT1	ATP2: 2. Ramp	5	0	0	0
VT1	ATP2: 3. Ramp	6	0	0	0

* blocked due to acceleration

Start   04/03/2022

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Parameters - Overview

Tachycardia detection	Enabled
Mode	VVI
Basic rate [bpm]	40
CLS [bpm]	OFF
Sensor/Rate fading [bpm]	-----/OFF
Upper rate [bpm]	
Mode switching [bpm]	
AV delay [ms]	
Post-shock pacing	30 s

	A	V
Pulse amplitude [V]		3.5
Pulse width [ms]		0.4
Capture control		ATM
Sensing	Std.	Std.
Minimum threshold [mV]	0.2	0.8
Refractory period/Blanking		Std.
Home Monitoring		OFF
MRI program		OFF

Detection

AT/AF rate [bpm]	200
VT1 rate [bpm]	171
VT2 rate [bpm]	OFF
VF rate [bpm]	222

Therapy

	1. ATP	2. ATP
VT1	3*Burst	3*Ramp
VT2		
VF	Burst	

	1st shock	2nd shock	3rd-nth shock
VT1 [J]	40	40	6*40 J
VT2 [J]			
VF [J]	40	40	6*40 J

ATP optimization	OFF
Shock details	Standard

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Parameters - Tachycardia

AT/AF rate [bpm]	200

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Parameters - Tachycardia

Tachycardia detection			Enabled

Ventricular detection	VT1	VT2	VF
Rate [bpm]	171	OFF	222
Detection counter	28		16 out of 20
Redetection counter	20		8 out of 12
SMART detection	OFF		
Onset [%]	20		
Stability [ms]	48		
MorphMatch	Monitoring		
Sustained VT [min]		OFF	

VT/VF therapy	1st shock	2nd shock	3rd-nth shock
VT1 [J]	40	40	6*40 J
VT2 [J]			
VF [J]	40	40	6*40 J

VT1 ATPs	1. ATP	2. ATP
Attempts	3	3
ATP type	Burst	Ramp
Number S1	5	5
Add S1	ON	ON
R-S1 interval [%]	80	80
S1 decrement [ms]		10
Scan decrement [ms]	OFF	OFF

VT2 ATPs	1. ATP	2. ATP
Attempts		
ATP type		
Number S1		
Add S1		
R-S1 interval [%]		
S1 decrement [ms]		
Scan decrement [ms]		

VF therapy: ATP One Shot	
ATP type	Burst
Number S1	8
R-S1 interval [%]	88
S1 decrement [ms]	
Early ATP delivery	OFF

ATP optimization	OFF
Shock details	Standard

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Parameters - Tachycardia

Shock details	VT1	VT2	VF
Confirmation	ON		ON
Polarity	Normal		Normal
Waveform	Biphasic		Biphasic
Shock path		RV ➜ Can	

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Parameters - Tachycardia

MorphMatch

Zone	VT1	VT2
MorphMatch	Monitoring	
MorphMatch threshold	Std.	

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Parameters - Bradycardia

Mode	VVI

Basic rate	
Basic rate [bpm]	40
Rate hysteresis [bpm]	OFF
Scan/Repetitive	
Night rate [bpm]	OFF
Night begins	
Night ends	

CLS [bpm]	OFF

Sensor/Rate fading	
Max. sensor rate [bpm]	
Sensor gain	
Sensor threshold	
Rate fading	OFF
Rate increase [bpm/cycle]	
Rate decrease [bpm/cycle]	

Upper rate	
Upper rate [bpm]	
Upper rate response	
2:1 rate from [bpm]	

Mode switching	
Intervention rate [bpm]	
Mode	
Change of basic rate [bpm]	
Post ModeSw rate [bpm]	
Post ModeSw duration [min]	
Onset criterion [out of 8]	
Resolution criterion [out of 8]	
Rate stabilization during mode switching	

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Parameters - Bradycardia

AV delay

AV delay after sense [ms]	
at rate [bpm]	
AV hysteresis mode	
AV hysteresis [ms]	
AV scan/repetitive	
AV dynamics	

Post-shock pacing

Duration	30 s
Mode	VVI
Basic rate [bpm]	70

	V
Pulse amplitude [V]	3.5
Pulse width [ms]	0.4

Capture control	V
Capture control	ATM
Threshold test start [V]	3.5
Min. amplitude [V]	
Safety margin [V]	
Status	OK
Last measured threshold [V]	0.6
Date	12/04/2022
Time	23:41
Note	

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Parameters - Bradycardia

Sensing	A	V
Sensing	Std.	Std.

Thresholds		
Upper threshold [%]		50
Upper threshold duration after sens. [ms]		350
Upper threshold duration after pacing [ms]		400
Lower threshold [%]		25
Post pace T-wave suppression		OFF

	A	V
Minimum threshold [mV]	0.2	0.8

Refractory period/Blanking	Std.
PVARP [ms]	
2:1 rate from [bpm]	
PVARP extension	
PVARP after PVC [ms]	
Far-field protection after Vs [ms]	AUTO
Far-field protection after Vp [ms]	75

PMT detection/termination	
VA criterion [ms]	

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Parameters - Home Monitoring

General settings

Home Monitoring	OFF
Time of transmission [hh:mm]	
IEGM for therapy episodes	
IEGM for monitoring episodes	
Ongoing atrial episode	
QuickCheck	

Last message

Message type	----
Date	----
Time	----
PID	03

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Parameters - Diagnostics

Recording episodes

For AT/AF	OFF
For SVT	ON
For nsT	ON
Periodic recording [days]	90

Statistics

Start resting period [hh:mm]	02:00
Resting period duration [h]	4.0
AV delay adj. sensing test [ms]	
Thoracic impedance	OFF

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Parameters - Patient

ID	490309/152
Name	Hlavacek 490309
First name	Drahoslav
Date of birth	09/03/1949
Gender	M
Implantation	04/03/2022
Hospital, City	FN Brno
Physician	M.D. Hetmer Martin
Phone	+420532232459
Symptom	Congestive heart failure
ECG indication	Not documented
Etiology	Dilative cardiomyopathy (non-ischemic)
LVEF [%]	15
NYHA	XXX
Remark	

Leads

Lead model	Serial number	Manufacturer	Type	Implantation	Brady	Tachy
PlexaMRI S DX 65/17	81288621	Biotronik	Multi	04/03/2022	RA+RV	RV
				XX/XX/XXXX		
				XX/XX/XXXX		
				XX/XX/XXXX		

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Follow-up	
Tachycardia detection	Enabled

Patient

Name	Hlavacek 490309, Drahoslav
Last follow-up	07/03/2022
Implantation	04/03/2022

Device status

Mode	VVI
Basic rate/UTR [bpm]	40 / ----

	A	V
Pulse amplitude [V]		3.5
Pulse width [ms]		0.4
VT1/VT2/VF [bpm]		171 / OFF / 222
Last charge time		9.9 s (40 J)
Battery voltage [V]		3.12
Remaining battery capacity [%]		100
Battery status		BOS
Program number		5
Home Monitoring		OFF
MRI program		OFF

Test results

	A	V
Sensing amplitude [mV]	0.4	12.4
Mean rate [bpm]	142	
Pacing threshold [V]		↕ 0.6
Pulse width [ms]		0.4
Pacing impedance [Ω]		↕ 539
Shock impedance [Ω]		↕ 71

Diagnostics

Pacing in ventricle [%]	0
Atrial burden [%]	55.2

Episodes

New episodes VF/VT/others	---- / ---- / 21

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