

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

S/N: 70117899

12:38

### Parameters - Overview

(1st interrog.)

Mode	DDDR
Basic rate/Night rate [bpm]	55/50
Sensor [bpm]	120
Upper rate response [bpm]	130/WKB
Mode switching [bpm]	160/DDIR
Dynamic AV delay [ms]	180/140

	A	V
Pulse amplitude [V]	1.5	1.4
Pulse width [ms]	0.4	0.4
Capture control	ON	ON
Sensitivity [mV]	AUTO	AUTO
Refractory period/Blanking	Standard	
Sensing polarity	BIPL	BIPL
Pacing polarity	BIPL	BIPL

Calculated ERI 12 Y. 8 Mo.

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

S/N: 70117899

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### Parameters - Bradycardia

(1st interrog.)

Mode	DDDR
Basic rate/Night rate [bpm]	55/50
Basic rate [bpm]	55
Night rate [bpm]	50
Night begins	22:00
Night ends	06:00
Hysteresis [bpm]	-5
Repetitive/Scan cycles	OFF
Magnet response	AUTO
Sensor [bpm]	120
Max. activity rate [bpm]	120
Sensor gain	⚡ AUTO
Sensor threshold	Medium
Rate increase [bpm/cycle]	2
Rate decrease [bpm/cycle]	0.5
Upper rate response [bpm]	130/WKB
Upper tracking rate [bpm]	130
Wenckebach response of [bpm]	130-188
Atrial upper rate [bpm]	240
Mode switching [bpm]	160/DDIR
Mode switching	ON
Intervention rate [bpm]	160
Switch to	DDIR
Onset criterion [out of 8]	5
Resolution criterion [out of 8]	5
Change of basic rate [bpm]	+10
Rate stabilization during mode switching	OFF
2:1 Lock-in protection	ON

Patient: kozel 560221

Follow-up on:

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### Parameters - Bradycardia

(1st interrog.)

AV delay	Low	
After	Sense	Pace
at 60 bpm [ms]	135	180
at 80 bpm [ms]	125	170
at 100 bpm [ms]	115	160
at 120 bpm [ms]	105	150
at 140 bpm [ms]	95	140
Sense compensation [ms]	-45	
AV hysteresis mode	OFF	
AV hysteresis [ms]		
After	Pace	
AV hysteresis at 60 bpm [ms]		
AV hysteresis at 80 bpm [ms]		
AV hysteresis at 100 bpm [ms]		
AV hysteresis at 120 bpm [ms]		
AV hysteresis at 140 bpm [ms]		
AV repetitive/scan cycles		

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# **Parameters - Bradycardia**

(1st interrog.)

	A	V
Pulse amplitude [V]	1.5	1.4
Pulse width [ms]	0.4	0.4
Capture control	ON	ON
Min. amplitude [V]	1.0	
Threshold test start [V]	3.0	3.0
Safety margin [V]	1.0	0.5
Search type	Time of day	Time of day
Interval [h]		
Time of day	00:30	00:30
Status	OK	OK
Note A		
Note V		
Last measured threshold [V]	0.5	0.9
Date	19/05/2022	19/05/2022
Time	00:35	00:35

Sensitivity [mV]	AUTO	AUTO
Sensing polarity	BIPL	BIPL
Pacing polarity	BIPL	BIPL

Refractory period/Blanking	Standard
Atrial refractory period [ms]	AUTO
PVARP [ms]	225
PVARP after PVC [ms]	375
Wenckebach response of [bpm]	130-188
Ventricular refractory period [ms]	250
Far-field protection after Vs [ms]	100
Far-field protection after Vp [ms]	150
Ven. blanking after Ap [ms]	30
PMT protection	ON
VA criterion [ms]	350

Calculated ERI 12 Y. 8 Mo.

Patient:	kozel 560221	Follow-up on:
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<b>Parameters - Diagnostics</b>	(1st interrog.)
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<b>Recording triggers</b>	
High atrial rate	AT
High ventricular rate	ON
Pre-trigger recording [%]	75
IEGM signal	Filtered

<b>High atrial rate (HAR)</b>	
HAR limit [bpm]	200

<b>High ventricular rate (HVR)</b>	
HVR limit [bpm]	180
HVR counter [Events]	8
Enable lead check	ON

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

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### Parameters - Patient

(1st interrog.)

ID

Last name kozel 560221

First name

Date of birth XX/XX/XXXX

Gender XXX

Date of implant 29/03/2022

Hospital, City

Physician

Phone

Symptom XXX

ECG indication XXX

Etiology XXX

LVEF [%] XXX

NYHA XXX

Remark

### Leads

Lead model	Manufacturer	Serial number	Type	Implantation	Channels
				XX/XX/XXXX	
				XX/XX/XXXX	
				XX/XX/XXXX	
				XX/XX/XXXX	

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

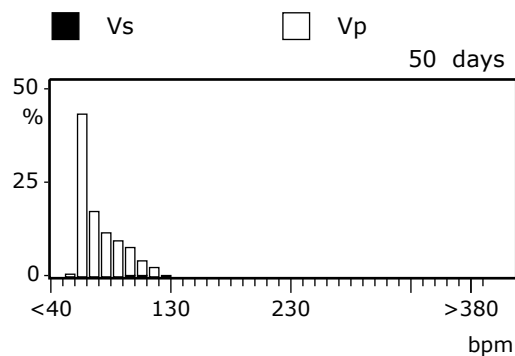
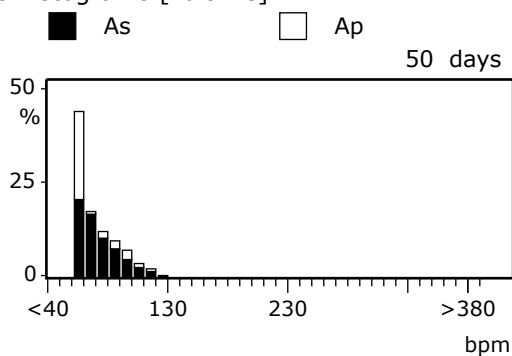
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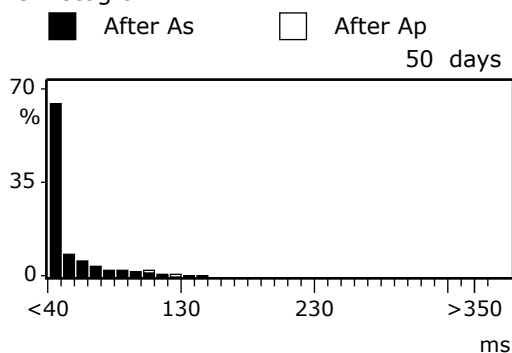
## Diagnostics - Timing

(1st interrog.)

Rate histograms [% time]

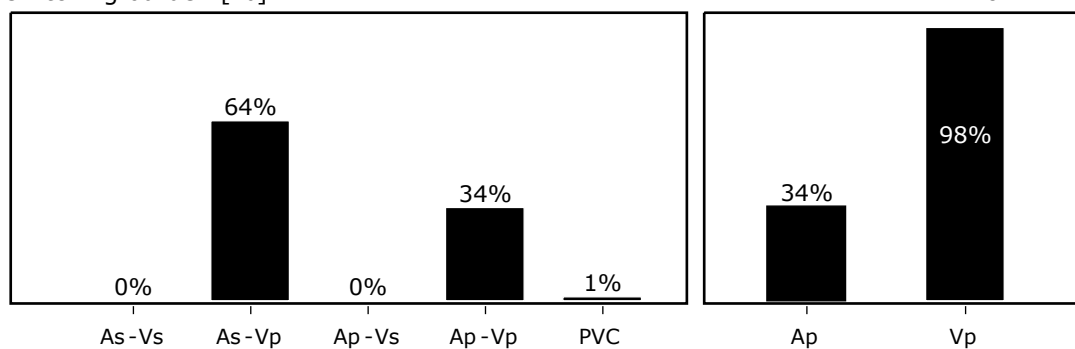


Ax-Vs histogram

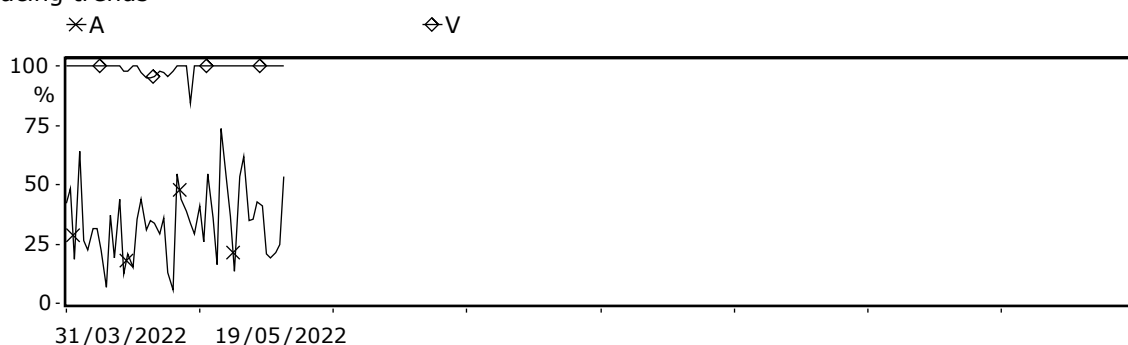


Event episodes and events

Mode switching burden [%]



Pacing trends



Start 30/03/2022

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

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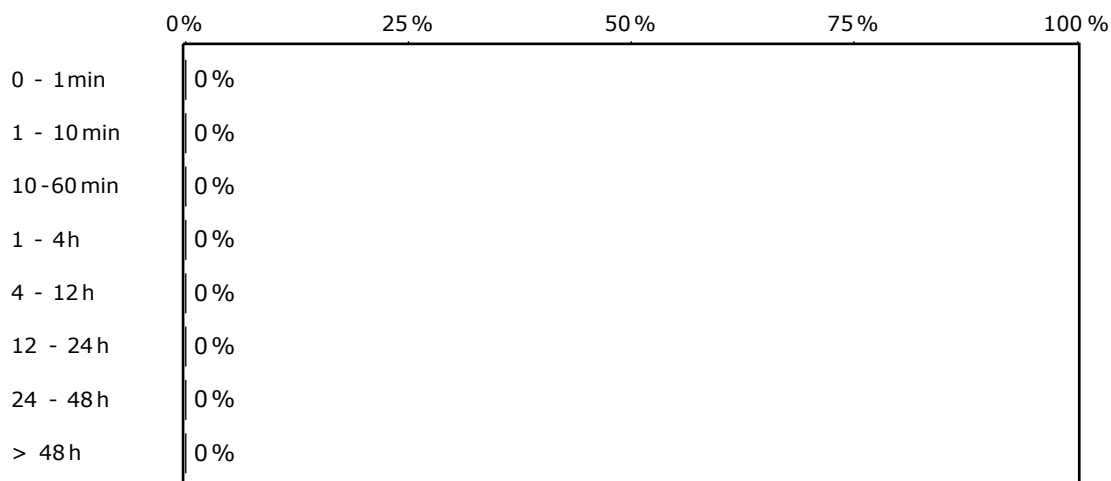
### Diagnostics - Arrhythmia A

(1st interrog.)

#### Atrial burden

Total number of episodes	0
Atrial arrhythmia burden [%]	0

#### Duration of tachycardia episode



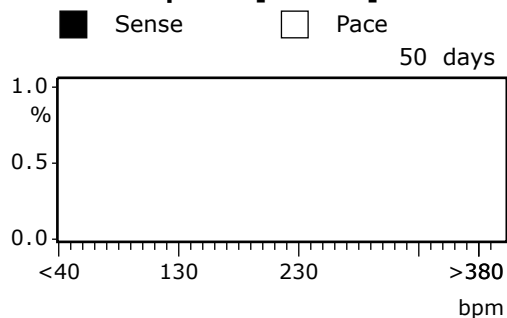
#### Tachy-episodes/24 h



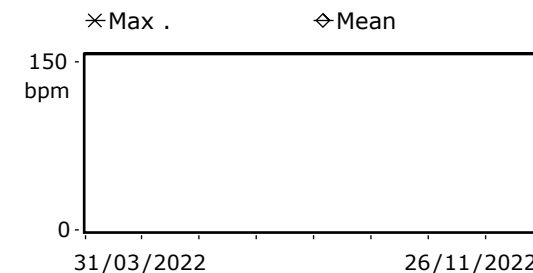
#### AT/AF burden



#### Ventricular response [% time]



#### Rate



Start 30/03/2022



Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

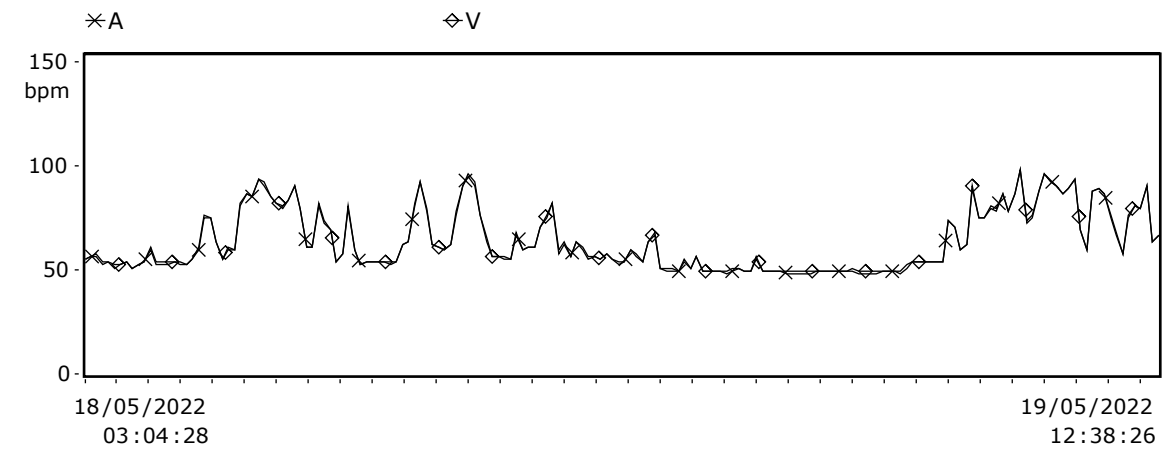
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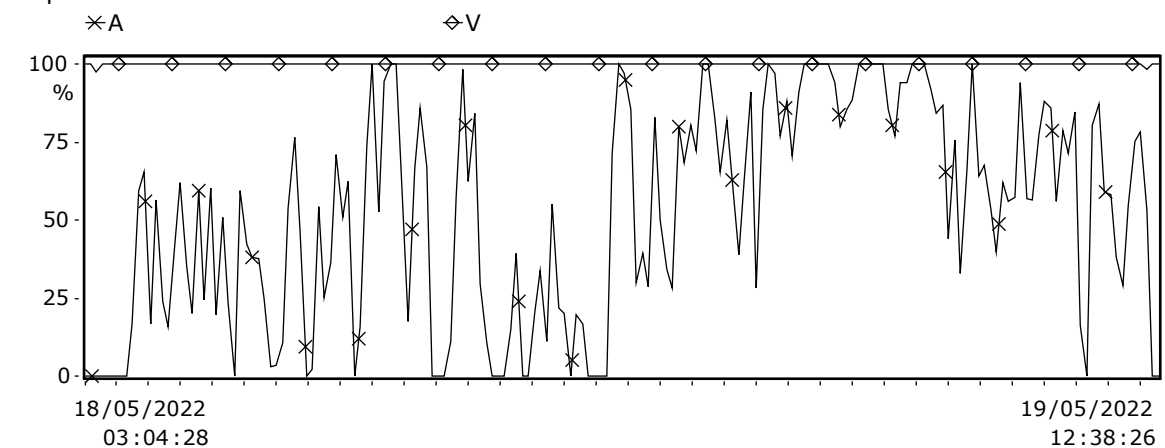
### Diagnostics - 24 hours

(1st interrog.)

Rate



% paced



Start 30/03/2022

PSW 2201.A/1 / 6.1

9/29

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Patient:      kozel 560221  
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Follow-up on:  
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Device:      Enticos 4 DR  
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19/05/2022  
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Recordings - Episodes					
No.	Date	Duration	Trigger	MVR	PC

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

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## Follow-up

(1st interrog.)

### Patient

Name kozel 560221

Last follow-up 30/03/2022

Date of implant 29/03/2022

### Device status

Program count 3

MRI program OFF

Mode DDDR

Basic rate/UTR [bpm] 55/130

	A	V
Pulse amplitude [V]	1.5	1.4
Pulse width [ms]	0.4	0.4

Expected ERI 12 Y. 8 Mo.

Battery status OK

Remaining battery capacity [%] 100

### Test results

Sensing amplitude [mV]

Sensing polarity

Threshold [V]

Pacing polarity

Pulse width [ms]

	A	V
Lead impedance [ $\Omega$ ]	448	721
Pacing polarity	BIPL	BIPL

### Diagnostics

Pacing in A/V [%] 34/98

Atrial arrhythmia burden [%] 0

Patient:	kozel 560221	Follow-up on:
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<b>Follow-up</b>	(1st interrog.)
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#### Alerts and episodes

New episodes	0 recording(s)
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Patient:      kozel 560221  
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Follow-up on:  
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Device:      Enticos 4 DR  
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19/05/2022  
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S/N:          70117899  
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12:38  
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Test - Impedance			
<b>Lead impedance</b>		<b>A</b>	<b>V</b>
A UNIP, V UNIP [ $\Omega$ ]	Ø	312	Ø 448
A BIPL, V BIPL [ $\Omega$ ]	Ø	468	Ø 702

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

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### Test - Sensing

#### Test program

Mode	P + R measurement DDI	
Basic rate [bpm]		30
AV delay [ms]		180
Upper tracking rate [bpm]		

	A	V
Sensitivity [mV]	AUTO	AUTO
Sensing polarity	BIPL	BIPL

#### Measured values

Mean rate [bpm]		64
	A	V
Min. amplitude [mV]	2.3	12.9
Mean amplitude [mV]	2.8	13.6
Max. amplitude [mV]	3.6	14.2

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

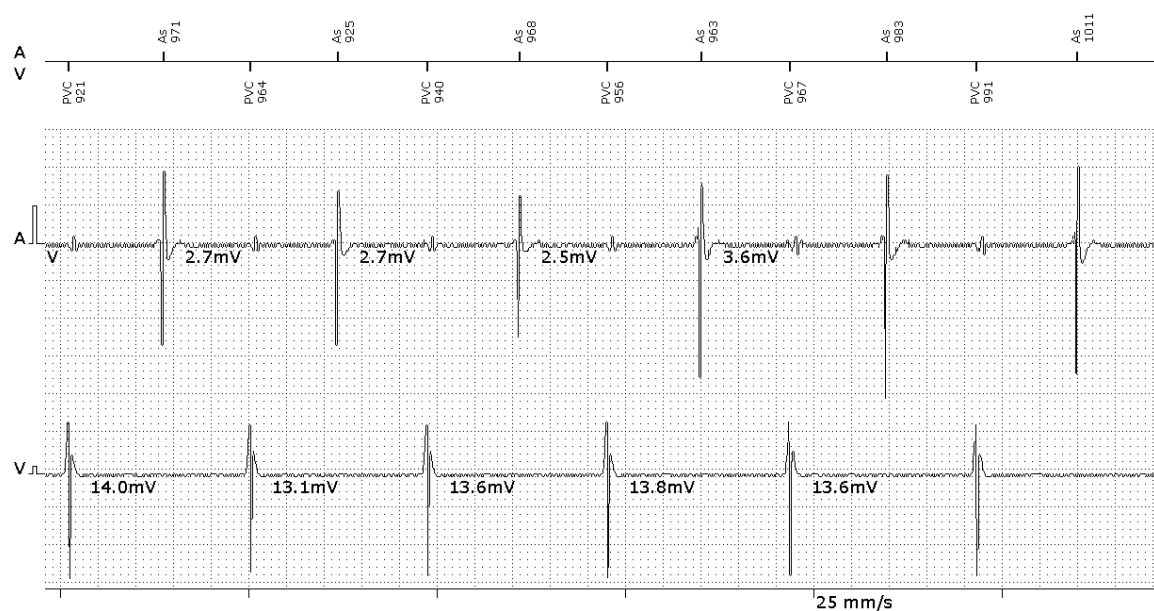
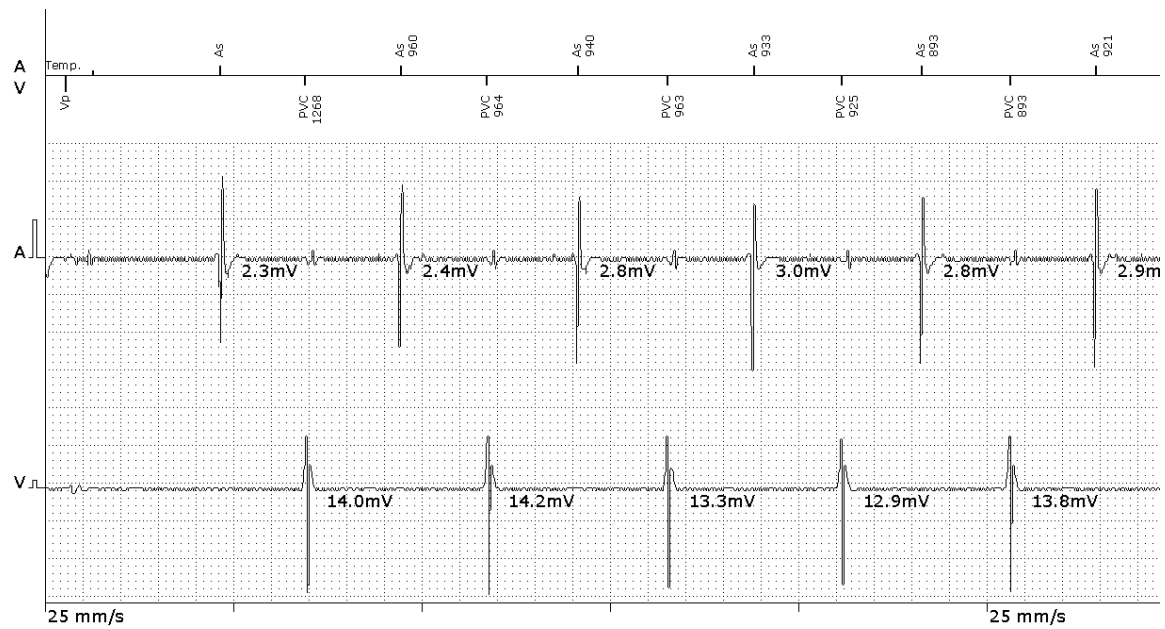
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**Freeze**

(P + R measurement DDI)



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Patient:      kozel 560221  
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Follow-up on:  
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Device:      Enticos 4 DR  
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19/05/2022  
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S/N:          70117899  
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12:39  
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**Freeze**

(P + R measurement DDI)





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Patient:      kozel 560221  
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Follow-up on:  
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Device:      Enticos 4 DR  
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19/05/2022  
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S/N:          70117899  
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12:40  
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### Test - Pacing threshold

#### Test program

Mode	Atr. DDI - AUTO	
Basic rate [bpm]		
AV delay [ms]	50	
Upper tracking rate [bpm]		
	A	V
Start amplitude [V]	3.0	3.0
Pulse width [ms]	0.4	0.4
Pacing polarity	BIPL	BIPL

#### Selected value

Threshold [V]	0.6
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Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

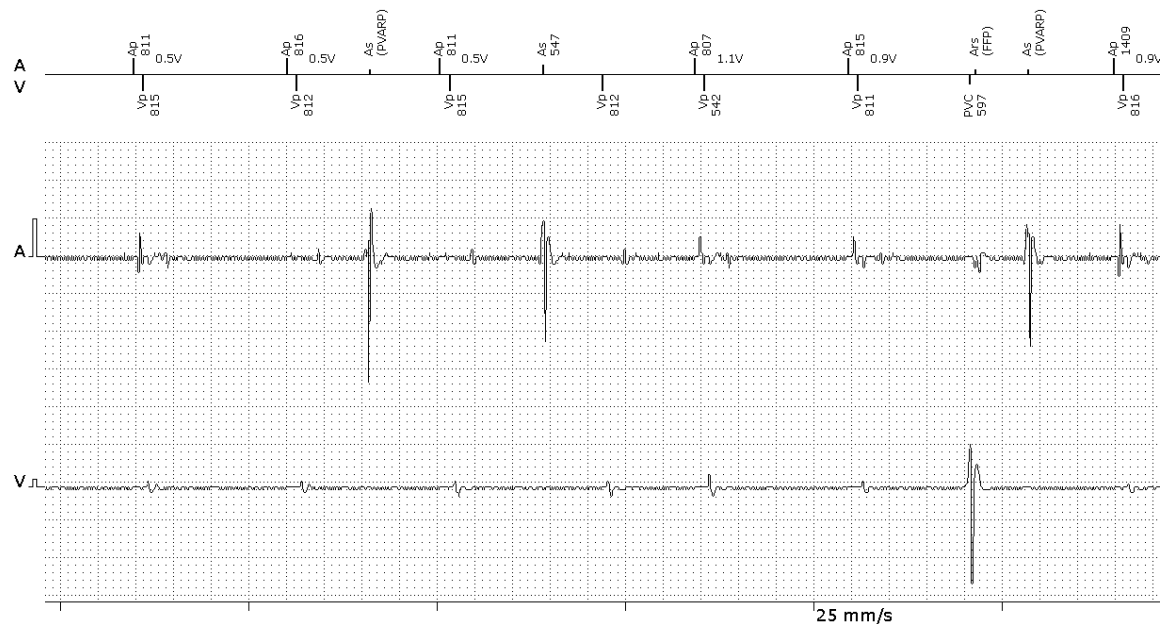
19/05/2022

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**Freeze**

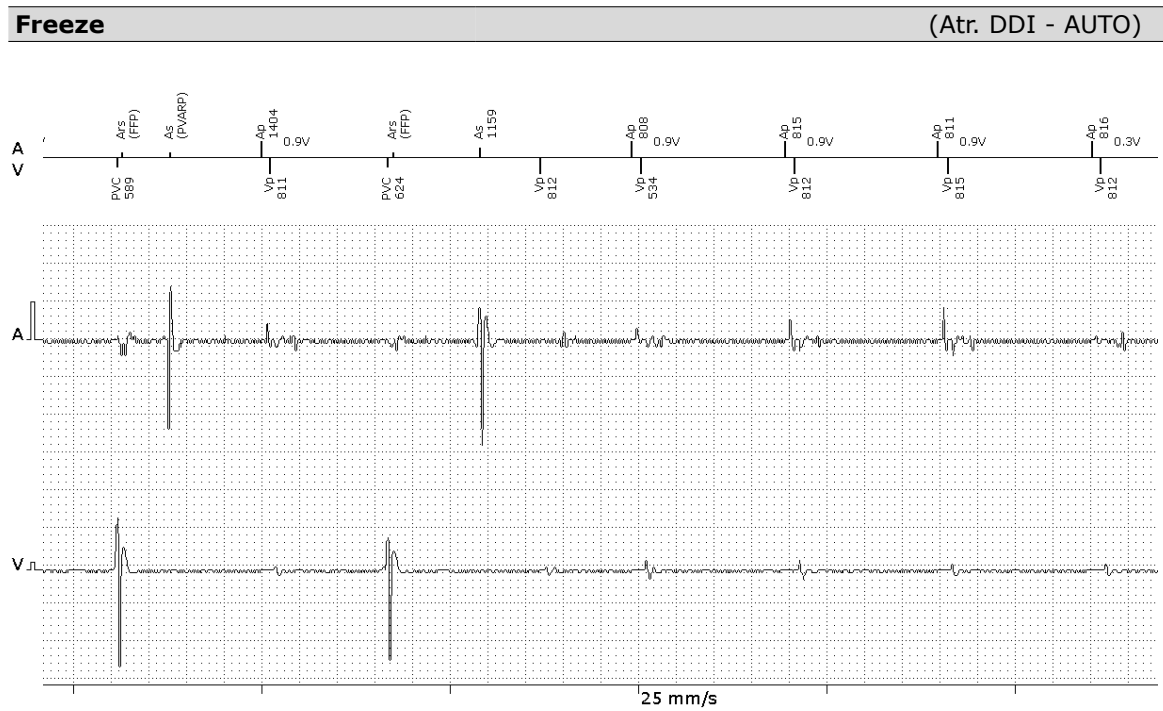
(Atr. DDI - AUTO)



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Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

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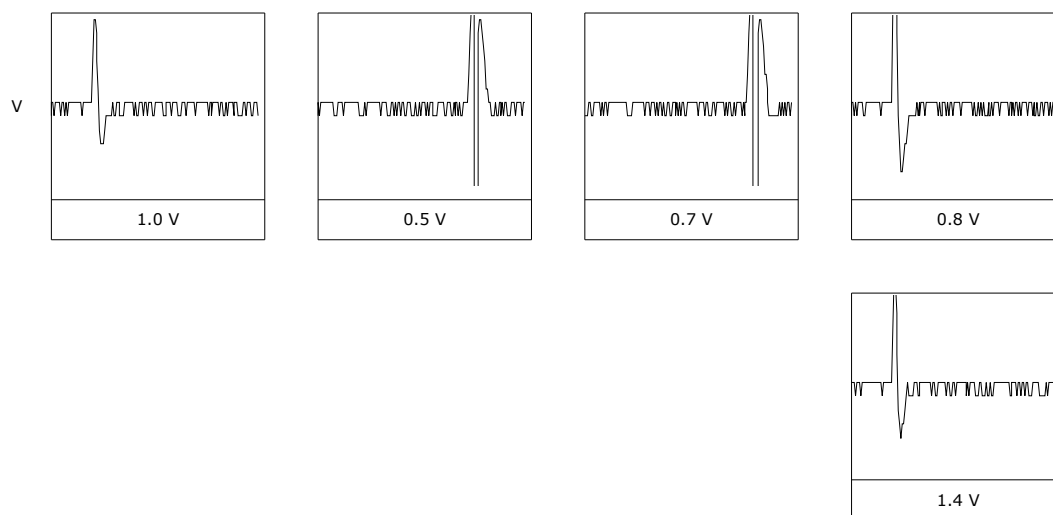
### Test - Pacing threshold

#### Test program

Mode	Ven. DDD	
Basic rate [bpm]	90	
AV delay [ms]	50	
Upper tracking rate [bpm]	130	
	A	V
Start amplitude [V]	1.6	1.4
Pulse width [ms]	0.4	0.4
Pacing polarity	BIPL	BIPL
Number of pulses	3	

#### Selected value

Threshold [V] 0.8



Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

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### Parameters - Overview

Mode	DDDR
Basic rate/Night rate [bpm]	55/50
Sensor [bpm]	120
Upper rate response [bpm]	130/WKB
Mode switching [bpm]	160/DDIR
Dynamic AV delay [ms]	230/185

	A	V
Pulse amplitude [V]	1.6	1.4
Pulse width [ms]	0.4	0.4
Capture control	ON	ON
Sensitivity [mV]	AUTO	AUTO
Refractory period/Blanking	Standard	
Sensing polarity	BIPL	BIPL
Pacing polarity	BIPL	BIPL

Calculated ERI 12 Y. 7 Mo.

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

S/N: 70117899

12:43

### Parameters - Bradycardia

Mode	DDDR
Basic rate/Night rate [bpm]	55/50
Basic rate [bpm]	55
Night rate [bpm]	50
Night begins	22:00
Night ends	06:00
Hysteresis [bpm]	-5
Repetitive/Scan cycles	OFF
Magnet response	AUTO
Sensor [bpm]	120
Max. activity rate [bpm]	120
Sensor gain	⚡ AUTO
Sensor threshold	Medium
Rate increase [bpm/cycle]	2
Rate decrease [bpm/cycle]	0.5
Upper rate response [bpm]	130/WKB
Upper tracking rate [bpm]	130
Wenckebach response of [bpm]	130-154
Atrial upper rate [bpm]	240
Mode switching [bpm]	160/DDIR
Mode switching	ON
Intervention rate [bpm]	160
Switch to	DDIR
Onset criterion [out of 8]	5
Resolution criterion [out of 8]	5
Change of basic rate [bpm]	+10
Rate stabilization during mode switching	OFF
2:1 Lock-in protection	ON

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

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### Parameters - Bradycardia

AV delay		Individual
After	Sense	Pace
at 60 bpm [ms]	210	230
at 80 bpm [ms]	195	215
at 100 bpm [ms]	185	205
at 120 bpm [ms]	175	195
at 140 bpm [ms]	165	185
Sense compensation [ms]		-20
AV hysteresis mode		OFF
AV hysteresis [ms]		
After		Pace
AV hysteresis at 60 bpm [ms]		
AV hysteresis at 80 bpm [ms]		
AV hysteresis at 100 bpm [ms]		
AV hysteresis at 120 bpm [ms]		
AV hysteresis at 140 bpm [ms]		
AV repetitive/scan cycles		

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

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### Parameters - Bradycardia

	A	V
Pulse amplitude [V]	1.6	1.4
Pulse width [ms]	0.4	0.4
Capture control	ON	ON
Min. amplitude [V]	1.0	
Threshold test start [V]	3.0	3.0
Safety margin [V]	1.0	0.5
Search type	Time of day	Time of day
Interval [h]		
Time of day	00:30	00:30
Status	OK	OK
Note A	Search pending.	
Note V		
Last measured threshold [V]		0.9
Date	XX/XX/XXXX	19/05/2022
Time	00:00	00:35
Sensitivity [mV]	AUTO	AUTO
Sensing polarity	BIPL	BIPL
Pacing polarity	BIPL	BIPL
Refractory period/Blanking	Standard	
Atrial refractory period [ms]	AUTO	
PVARP [ms]	225	
PVARP after PVC [ms]	375	
Wenckebach response of [bpm]	130-154	
Ventricular refractory period [ms]	250	
Far-field protection after Vs [ms]	100	
Far-field protection after Vp [ms]	150	
Ven. blanking after Ap [ms]	30	
PMT protection	ON	
VA criterion [ms]	350	
Calculated ERI	12 Y. 7 Mo.	



Patient:	kozel 560221	Follow-up on:
Device:	Enticos 4 DR	19/05/2022
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#### Parameters - Diagnostics

##### Recording triggers

High atrial rate	AT
High ventricular rate	ON
Pre-trigger recording [%]	75
IEGM signal	Filtered

##### High atrial rate (HAR)

HAR limit [bpm]	200
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##### High ventricular rate (HVR)

HVR limit [bpm]	180
HVR counter [Events]	8
Enable lead check	ON

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Patient: kozel 560221  
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Follow-up on:  
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### Parameters - Patient

ID

Last name kozel 560221

First name

Date of birth XX/XX/XXXX

Gender XXX

Date of implant 29/03/2022

Hospital, City

Physician

Phone

Symptom XXX

ECG indication XXX

Etiology XXX

LVEF [%] XXX

NYHA XXX

Remark

### Leads

Lead model	Manufacturer	Serial number	Type	Implantation	Channels
				XX/XX/XXXX	
				XX/XX/XXXX	
				XX/XX/XXXX	
				XX/XX/XXXX	

Patient:	kozel 560221	Follow-up on:
Device:	Enticos 4 DR	19/05/2022
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#### Changed parameters

##### Bradycardia

	Previous	Current
Follow-up		
Program count	3	10
Upper rate response		
Wenckebach response of [bpm]	130-188	130-154
2:1 rate [bpm]	188	154
AV delay		
AV dynamics	Low	Individual
Dynamic AV delay [ms]	180/140	230/185
AV delay at 60 bpm [ms]	180	230
AV delay at 80 bpm [ms]	170	215
AV delay at 100 bpm [ms]	160	205
AV delay at 120 bpm [ms]	150	195
AV delay at 140 bpm [ms]	140	185
AV delay after sense [ms]	135	210
Sense compensation [ms]	-45	-20
Atrium		
Atr. pulse amplitude [V]	1.5	1.6
Atrial capture control		
Last measured threshold [V]	0.5	
Date	19/05/2022	XX/XX/XXXX
Time	00:35	00:00
Calculated ERI		
Calculated ERI	12 Y. 8 Mo.	12 Y. 7 Mo.

Patient: kozel 560221

Follow-up on:

Device: Enticos 4 DR

19/05/2022

S/N: 70117899

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## Follow-up

### Patient

Name kozel 560221

Last follow-up 30/03/2022

Date of implant 29/03/2022

### Device status

Program count 10

MRI program OFF

Mode DDDR

Basic rate/UTR [bpm] 55/130

	A	V
Pulse amplitude [V]	1.6	1.4
Pulse width [ms]	0.4	0.4
Expected ERI	12 Y. 7 Mo.	
Battery status	OK	
Remaining battery capacity [%]	100	

### Test results

	A	V
Sensing amplitude [mV]	2.8	13.6
Sensing polarity	BIPL	BIPL
Threshold [V]	0.6	0.8
Pacing polarity	BIPL	BIPL
Pulse width [ms]	0.4	0.4
Lead impedance [ $\Omega$ ]	468	702
Pacing polarity	BIPL	BIPL

### Diagnostics

Pacing in A/V [%] 34/98

Atrial arrhythmia burden [%] 0

Patient:	kozel 560221	Follow-up on:
Device:	Enticos 4 DR	19/05/2022
S/N:	70117899	12:44

#### Follow-up

#### Alerts and episodes

New episodes	0 recording(s)
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