

Quick Look II Report

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

History: Primary Prevention, Normal Sinus, NYHA Class III

Device Status (Implanted: 27-Apr-2011)

Battery Voltage (RRT=2.63V)	2.65 V	(07-Mar-2016)		
Last Full Charge	10.6 sec	(19-Feb-2016)		
	Atrial(5076)	RV(6935-65cm)	LV(4296)	
Pacing Impedance	475 ohms	380 ohms	475 ohms	
Defibrillation Impedance		RV=77 ohms		
Capture Threshold	0.375 V @ 0.40 ms	0.750 V @ 0.40 ms	1.000 V @ 0.40 ms	
Measured On	06-Mar-2016	07-Mar-2016	04-Mar-2016	
Programmed Amplitude/Pulse Width	1.00 V / 0.40 ms	1.25 V / 0.40 ms	2.00 V / 0.40 ms	
Measured P/ R Wave	2.0 mV	7.4 mV		
Programmed Sensitivity	0.30 mV	0.30 mV		

Parameter Summary

Mode	DDDR	Lower Rate	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		

Detection		Rates	Therapies
AT/AF	Monitor	>171 bpm	All Rx Off
VF	On	>214 bpm	ATP During Charging, 35J x 6
VFT	via VF	214-250 bpm	Burst(3), Ramp(3), 35J x 4
VT	On	171-214 bpm	Burst(3), Ramp(3), Ramp+(3), 35J x 3

Enhancements On: AF/Afl, Sinus Tach, 1:1 SVT, Stability, Onset, VT Monitor

Clinical Status Since 08-Sep-2015

Treated

VF	2
FVT	0
VT	7
AT/AF(Monitor)	

Monitored

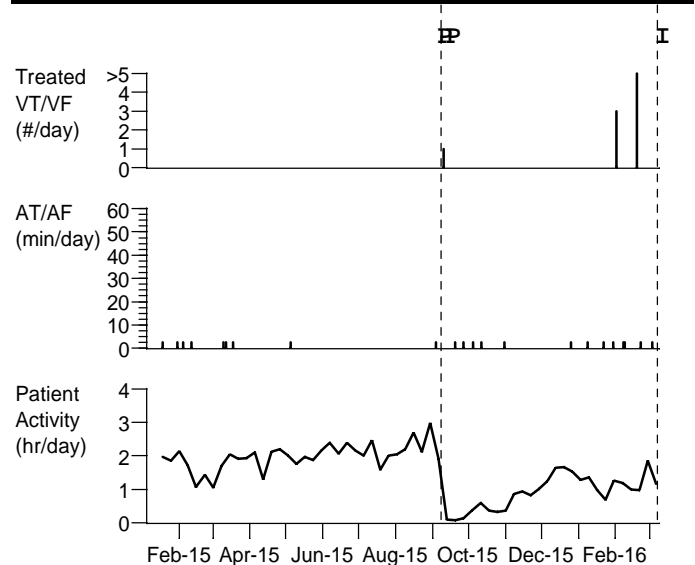
VT(150-171 bpm)	0
VT-NS (>4 beats, >171 bpm)	26
SVT: VT/VF Rx Withheld	1
AT/AF	1

Time in AT/AF	<0.1 hr/day (<0.1%)
Longest AT/AF	21 seconds

Functional

Patient Activity	Last Week 1.2 hr/day
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Cardiac Compass Trends (Jan-2015 to Mar-2016)



Therapy Summary

	VT/VF	AT/AF	Pacing	(% of Time Since 08-Sep-2015)
Pace-Terminated Episodes	8 of 9	0	AS-VS	4.5 %
Shock-Terminated Episodes	1 of 1	0	AS-VP	92.9 %
Total Shocks	1	0	AP-VS	<0.1 %
Aborted Charges	1	0	AP-VP	2.6 %

OBSERVATIONS (11)

- 1 shocks for VT/VF, 0 failed.
- V. Pacing less than 90%.
- Possible fluid accumulation: exceeded OptiVol Threshold, 07-Feb-2016 -- ongoing.
- Patient Activity less than 1 hr/day for 14 weeks.
- At least 1 therapy failed in 2 VT/VF episodes.

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OBSERVATIONS (11)

- 1 treated VT/VF episodes longer than 30 sec.
- Switched to ATP Before Charging due to 1 successes of ATP During Charging.
- Switched to ATP During Charging due to 2 failures of ATP Before Charging.
- 1 VT episodes accelerated to VF.
- VF detection may be delayed: VF Detection Interval is faster than 300 ms (200 bpm).
- VF ATP + Charging therapies will not be delivered. "Deliver ATP if last 8 R-R >=" in Params/VF Therapies/ATP is outside of the VF detection zone or overlapped by the FVT Interval.

Session Summary

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Device Information

Device	Medtronic	Consulta CRT-D D234TRK	PYZ615321S	Implanted: 27-Apr-2011
RV	Medtronic	6935-65cm Sprint Quattro S.	TAU046360V	Implanted: 27-Apr-2011
Atrial	Medtronic	5076 CapSureFix® Novus	PJN2318313	Implanted: 27-Apr-2011
LV	Medtronic	4296 AttainAbility Plus	RRA509000V	Implanted: 27-Apr-2011

Device Status (Implanted: 27-Apr-2011)

Battery Voltage (RRT=2.63V)	2.65 V	(07-Mar-2016)		
Last Full Charge	10.6 sec	(19-Feb-2016)		
	Atrial(5076)	RV(6935-65cm)	LV(4296)	
Pacing Impedance	475 ohms	380 ohms	475 ohms	
Defibrillation Impedance		RV=77 ohms		
Capture Threshold	0.375 V @ 0.40 ms	0.750 V @ 0.40 ms	1.000 V @ 0.40 ms	
Measured On	06-Mar-2016	07-Mar-2016	04-Mar-2016	
Programmed Amplitude/Pulse Width	1.00 V / 0.40 ms	1.25 V / 0.40 ms	2.00 V / 0.40 ms	
Measured P/ R Wave	2.0 mV	7.4 mV		
Programmed Sensitivity	0.30 mV	0.30 mV		

Parameter Summary

Mode	DDDR	Lower Rate	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		

Detection

AT/AF	Monitor
VF	On
FVT	via VF
VT	On

Rates

>171 bpm
>214 bpm
214-250 bpm
171-214 bpm

Therapies

All Rx Off
ATP During Charging, 35J x 6
Burst(3), Ramp(3), 35J x 4
Burst(3), Ramp(3), Ramp+(3), 35J x 3

Enhancements On: AF/Afl, Sinus Tach, 1:1 SVT, Stability, Onset, VT Monitor

Changes This Session Session Start Current Value

VF Detection Interval	290 ms (207 bpm)	280 ms (214 bpm)
FVT Detection	OFF	via VF
VT Detection Interval	360 ms (167 bpm)	350 ms (171 bpm)
VT Monitor	Off	Monitor
VT Initial Beats	16	40
Monitor Initial Beats	32	48
Other 1:1 SVT	Off	On
Stability	40 ms	30 ms

FVT Rx 1	Off	On
FVT Rx 1 Type		Burst
FVT Rx 1 Initial Pulses		8
FVT Rx 1 R-S1 =(%RR)		81 %
FVT Rx 1 Decrement		10 ms
FVT Rx 1 Sequences		3
FVT Rx 1 Smart Mode		On

FVT Rx 2	Off	On
FVT Rx 2 Type		Ramp
FVT Rx 2 Initial Pulses		8
FVT Rx 2 R-S1 =(%RR)		75 %
FVT Rx 2 Decrement		20 ms
FVT Rx 2 Sequences		3
FVT Rx 2 Smart Mode		On

FVT Rx 3	Off	On
FVT Rx 3 Type		CV

Session Summary

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Changes This Session	Session Start	Current Value
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FVT Rx 3 Energy		35 J
FVT Rx 3 Pathway		B>AX

FVT Rx 4	Off	On
FVT Rx 4 Type		CV
FVT Rx 4 Energy		35 J
FVT Rx 4 Pathway		B>AX

FVT Rx 5	Off	On
FVT Rx 5 Type		CV
FVT Rx 5 Energy		35 J
FVT Rx 5 Pathway		AX>B

FVT Rx 6	Off	On
FVT Rx 6 Type		CV
FVT Rx 6 Energy		35 J
FVT Rx 6 Pathway		AX>B

Rate Histograms

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Prior to Last Session

07-Sep-2015 to 08-Sep-2015

20 hours

Since Last Session

08-Sep-2015 to 07-Mar-2016

6 months

% of Time

AS-VS 0.9 %

AS-VP 94.8 %

AP-VS < 0.1%

AP-VP 4.2 %

VP 95.9 %

VSR Pace 0.8 %

VS 3.3 %

4.5 %

92.9 %

< 0.1%

2.6 %

88.4 %

4.0 %

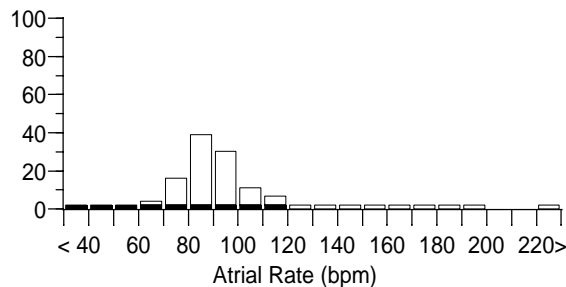
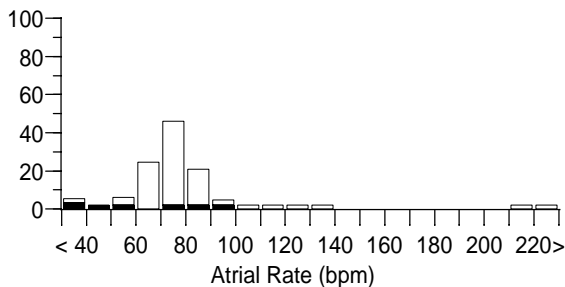
7.6 %

Atrial

% of Time

□ AS

■ AP

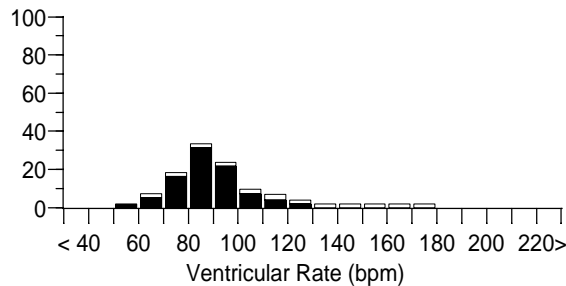
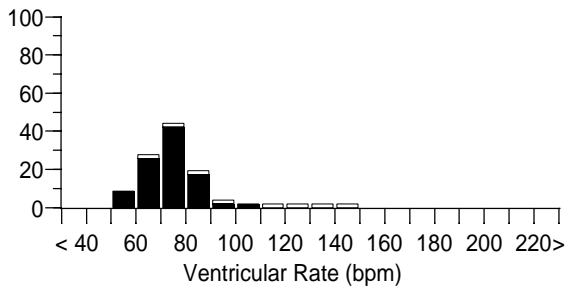


Ventricular

% of Time

□ VS

■ VP



Time in AT/AF = 0 seconds

% of AT/AF

Time in AT/AF = 58 seconds

VP 43.7 %

VSR Pace 35.5 %

VS 20.8 %

Ventricular

Rate

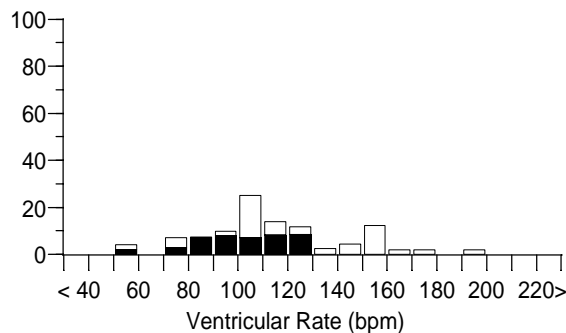
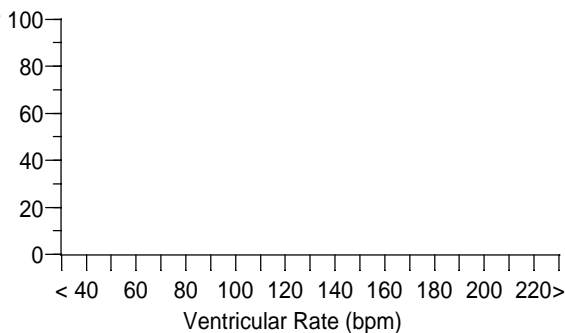
During

AT/AF

% of AT/AF

□ VS

■ VP



Cardiac Compass Report

Device: **Consulta CRT-D D234TRK**

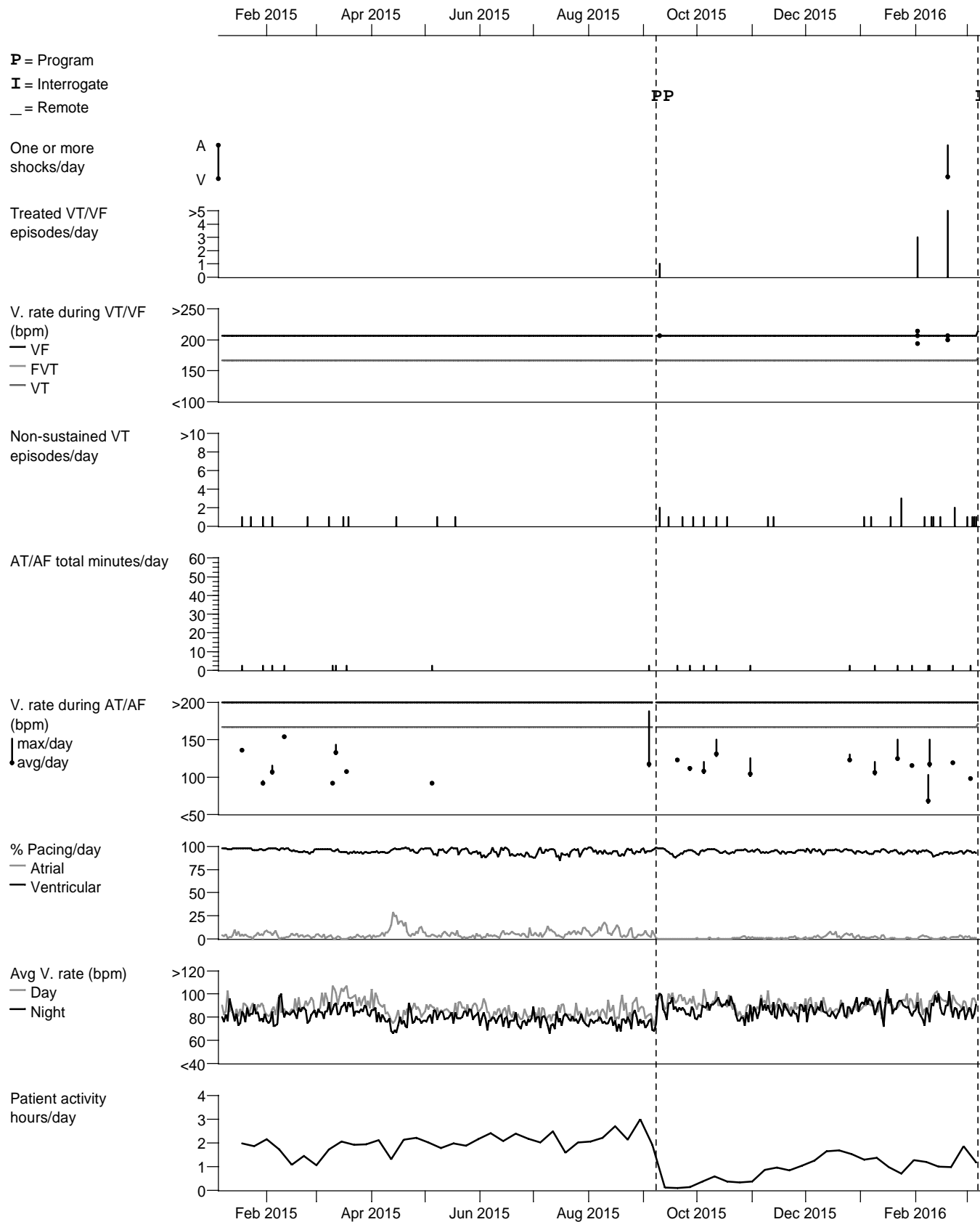
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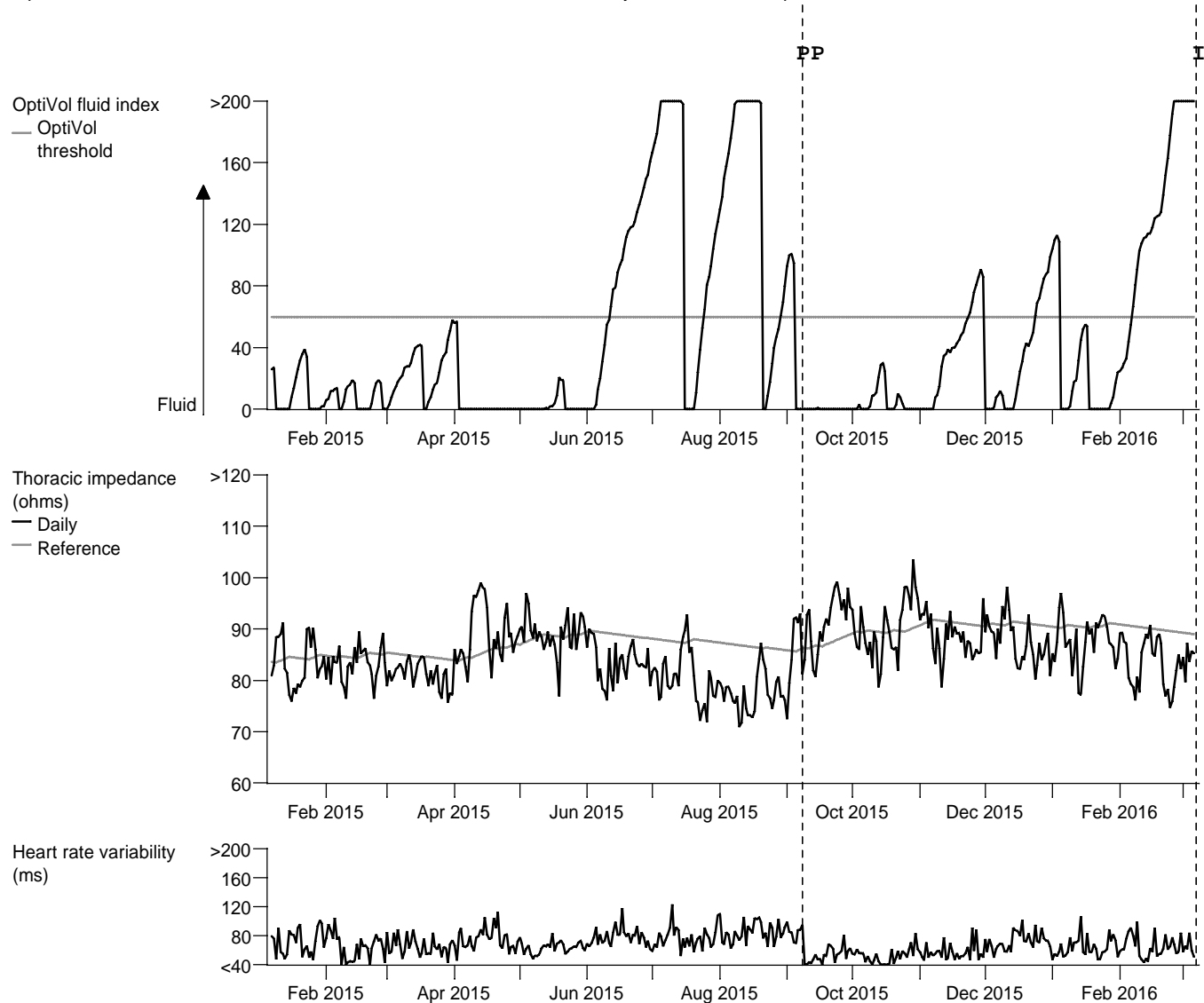
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OptiVol fluid index is an accumulation of the difference between the daily and reference impedance.



VT/VF Counters

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	Prior Session 07-Sep-2015 to 08-Sep-2015 20 hours	Last Session 08-Sep-2015 to 07-Mar-2016 6 months	Device Lifetime Total (Since 27-Apr-2011) 58 months
VT/VF Counters			
VF	0	2 ↑	3
FVT	0	0	0
VT	0	7 ↑	8
Monitored VT (150 - 171 bpm)	0	0	
VT-NS (>4 beats, >171 bpm)	0	26 ↑	
PVC Runs (2-4 beats)	NA*	5.5 per hour	
PVC Singles	NA*	89.6 per hour	
Runs of VRS Paces	NA*	0.0 per hour	
Single VRS Paces	NA*	0.0 per hour	

*NA: Session duration less than 1 day.

SVT: VT/VF Rx Withheld

AFib/AFlutter	0	0	0
Sinus Tach	0	0	0
Other 1:1 SVTs	0	0	0
V. Stability	0	0	0
Onset	0	1	7

VT/VF Therapy Summary

Pace-terminated	0	8 of 9	9 of 10
Shock-terminated	0	1 of 1	2 of 2
Total VT/VF Shocks	0	1	2
Aborted Charges	0	1	1

VT/VF Therapy Efficacy Since Last Session 08-Sep-2015 to 07-Mar-2016

VF Therapy	ATP+Chg	35 J	35 J	35 J	35 J	35 J	35 J
Delivered	3	2	0	0	0	0	0
Successful	1	1	0	0	0	0	0
FVT Therapy	Burst	Ramp	35 J	35 J	35 J	35 J	35 J
Delivered	0	0	0	0	0	0	0
Successful	0	0	0	0	0	0	0
Accelerated	0	0	0	0	0	0	0
VT Therapy	Burst	Ramp	Ramp+	35 J	35 J	35 J	35 J
Delivered	8	0	0	0	0	0	0
Successful	7	0	0	0	0	0	0
Accelerated	1	0	0	0	0	0	0

AT/AF Summary

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Prior Session

07-Sep-2015 to
08-Sep-2015
20 hours

Last Session

08-Sep-2015 to
07-Mar-2016
6 months

AT/AF Summary

% of Time AT/AF	0.0 %	<0.1 %	% ↑
Average AT/AF time/day	NA*	<0.1 hours/day	
Monitored AT/AF Episodes	NA*	<0.1 per day	
Treated AT/AF Episodes	NA*	0.0 per day	
Pace-Terminated Episodes	0.0 %	0.0 %	
% of Time Atrial Pacing	4.2 %	2.6 %	% ↓
% of Time Atrial Intervention	0.0 %	0.0 %	
AT-NS (>6 beats)	NA*	<0.1 per day	

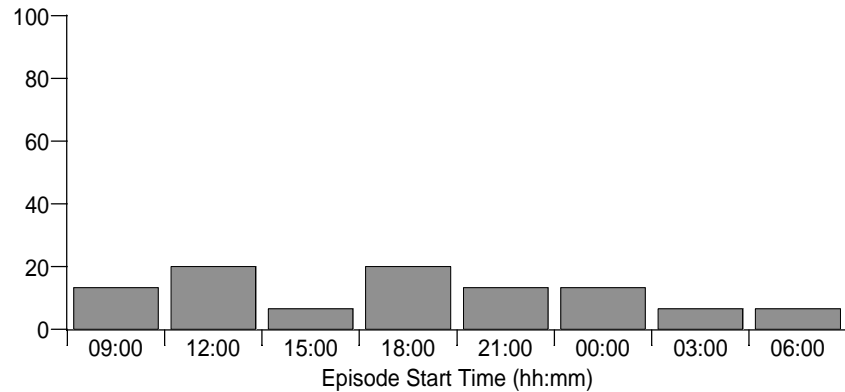
*NA: Session duration less than 1 day.

Since Last Session 08-Sep-2015 to 07-Mar-2016

AT/AF Durations

Duration	Episodes
>72 hr	0
48 hr to 72 hr	0
24 hr to 48 hr	0
12 hr to 24 hr	0
4 hr to 12 hr	0
1 hr to 4 hr	0
10 min to 1 hr	0
1 min to 10 min	0
<1 min	15

% Episodes



AT/AF Episode Start Time

AT/AF Rx

Treated episodes
% Terminated

Rx1:Off Rx2:Off Rx3:Off

ATP Rx versus

ms	100-149	150-199	200-249	250-299	300-349	350-399	400-449	ms
bpm	401-600	301-400	241-300	201-240	172-200	151-171	133-150	bpm

Treated episodes
% Terminated

ATP Sequences: 0 delivered, 0 aborted
Automatic Shocks: 0 delivered, 0 failed
Patient Activated Shocks: 0 delivered, 0 failed

Arrhythmia Episode List

Device: **Consulta CRT-D D234TRK**

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ID: **350208407**

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Arrhythmia Episode List: 08-Sep-2015 08:30:39 to 07-Mar-2016 13:34:11

All collected episodes.

Type	ATP Seq	Shocks	Success	ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
VT-NS				112	06-Mar-2016	01:56	:01	97/171		Active
VT-NS				111	05-Mar-2016	08:48	:01	132/207		Active
VT-NS				110	04-Mar-2016	22:25	:01	94/185		Rest
VT-NS				109	01-Mar-2016	23:37	<:01	83/171		Rest
VT-NS				108	23-Feb-2016	15:34	:01	96/188		Rest
VT-NS				107	23-Feb-2016	12:42	:01	176/222		Active
VT	1		Yes	106	19-Feb-2016	19:20	:13	207/200	---/207	Active
VT	3	35J	Yes	105	19-Feb-2016	19:19	:41	207/207	214/214	Active
VF	3		Yes	104	19-Feb-2016	19:18	:25	214/214	---/---	Active
VT	2		Yes	103	19-Feb-2016	19:18	:26	207/214	207/---	Active
VT	1		Yes	102	19-Feb-2016	19:17	:09	200/207	---/---	Active
VT-NS				101	15-Feb-2016	19:39	:01	107/214		Active
VT-NS				100	11-Feb-2016	20:37	:01	173/171		Active
VT-NS				99	10-Feb-2016	13:24	:01	128/176		Rest
VT-NS				98	06-Feb-2016	06:21	:01	124/188		Active
SVT-Onset				97	02-Feb-2016	11:12	:05	188/188	188/---	Active
VT	1		Yes	96	02-Feb-2016	11:12	:07	194/194	---/194	Active
VF	1		Yes	95	02-Feb-2016	11:10	:23	214/214	---/214	Active
VT	2		Yes	94	02-Feb-2016	11:09	:26	207/207	207/207	Active
VT-NS				93	24-Jan-2016	11:51	:02	146/178		Active
VT-NS				92	24-Jan-2016	10:22	<:01	91/188		Active
VT-NS				91	24-Jan-2016	10:21	:01	150/200		Active
AT/AF				90	22-Jan-2016	09:23	:21	130/109	188/---	Active
VT-NS				89	18-Jan-2016	06:42	:01	90/218		Rest
VT-NS				88	07-Jan-2016	17:38	<:01	95/194		Rest
VT	1		Yes	76	10-Sep-2015	13:31	:07	194/200	---/207	Rest

----- Last Programmer Session 08-Sep-2015 -----

(Data prior to last session has not been interrogated.)

Treated VT/VF Episode #106

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Physician: **MUDr. SEPSI Milan - - -**

Type	ATP Seq	Shocks	Success	ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
VT	1		Yes	106	19-Feb-2016	19:20	:13	207/200	---/207	Active

• V-V

□ A-A

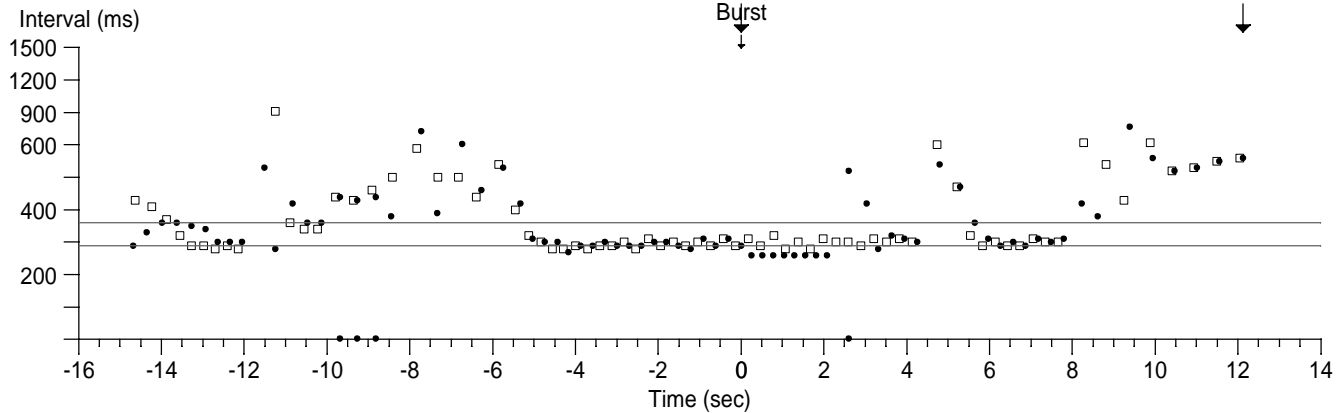
VF = 290 ms

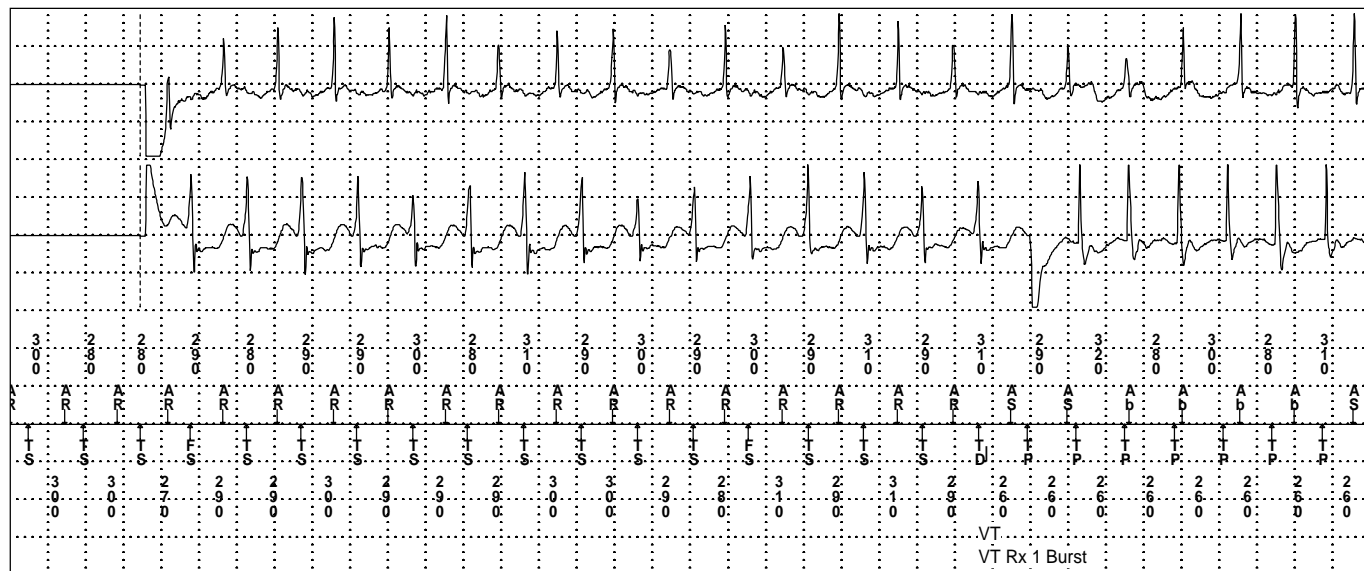
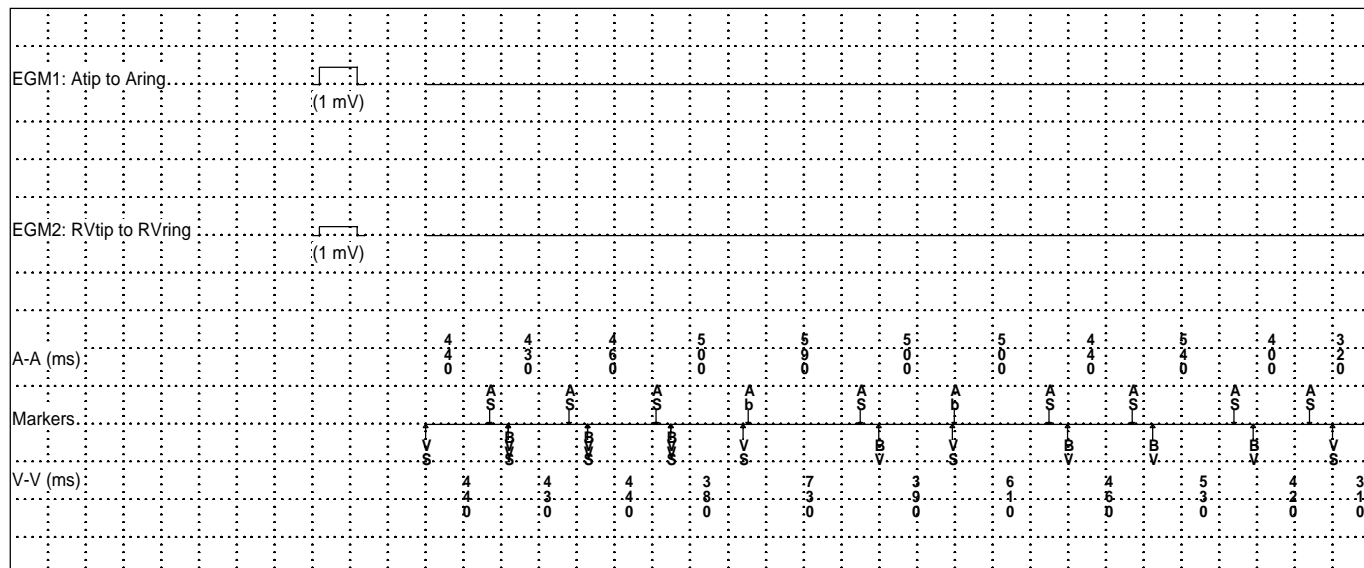
VT = 360 ms

Detection

Burst

Term.





Treated VT/VF Episode #106

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Date of Visit: 07-Mar-2016 13:34:11

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ID: 350208407

Episode #106 - VT Chart speed: 25.0 mm/sec



Treated VT/VF Episode #106

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Date of Visit: **07-Mar-2016 13:34:11**

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ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Episode #106: 19-Feb-2016 19:20:26

Episode Summary

Initial Type VT (spontaneous)
Duration 13 sec
A/V Max Rate ---/207 bpm
V. Median 207 bpm (290 ms)
V. Stability 20 ms - 30 ms
Activity at onset Active, Sensor = 100 bpm
Last Therapy VT Rx1: Burst, Successful

Initial VT/VF Detection

Withheld By

None

Therapies Delivered Charge Ohms Energy

VT Rx 1 Burst Seq 1

Termination

Onset Criterion Result

Sudden Onset - VT.

Parameter Settings Initial Redetect V. Interval (Rate)

VF	On	30/40	12/16	290 ms (207 bpm)
FVT	Off			
VT	On	16	12	360 ms (167 bpm)
Monitor	Off	32		

PR Logic

AF/Afl On
Sinus Tach On
Other 1:1 SVTs Off
SVT V. Limit 290 ms

Other Enhancements

Stability 40 ms
Onset On (81%)
High Rate Timeout Off

EGM	Source	Range	Sensitivity
EGM1	Atip to Aring	+/- 8 mV	Atrial 0.3 mV
EGM2	RVtip to RVring	+/- 8 mV	RV 0.3 mV

Monitored AT/AF Episode #90

Device: **Consulta CRT-D D234TRK**

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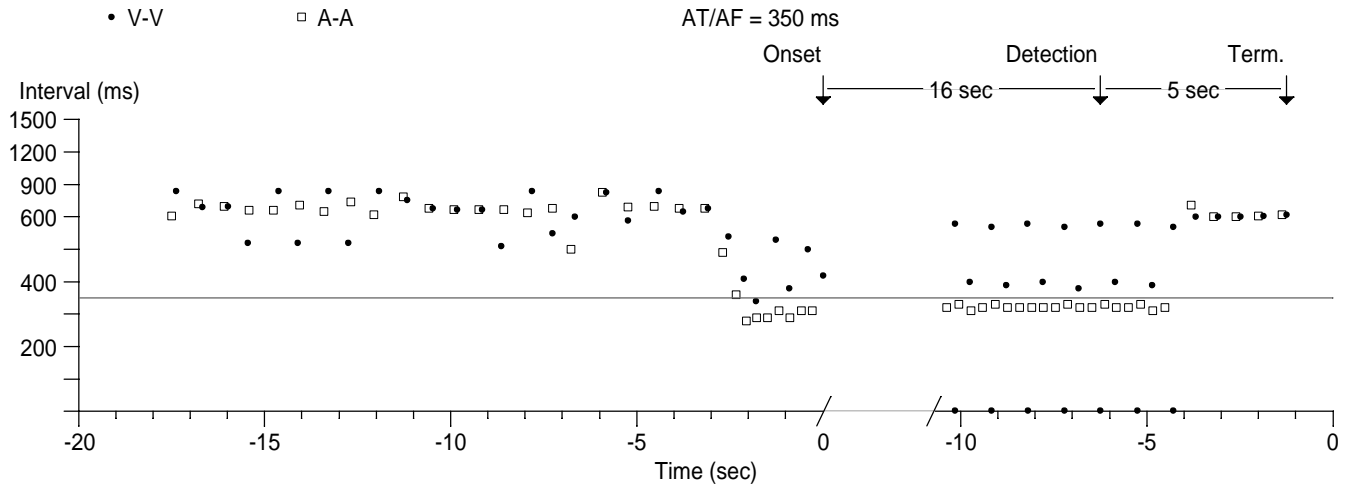
Date of Visit: **07-Mar-2016 13:34:11**

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Physician: **MUDr. SEPSI Milan - - -**

Type	ATP Seq	Shocks	Success	ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
AT/AF				90	22-Jan-2016	09:23	:21	130/109	188/---	Active



Monitored AT/AF Episode #90

Device: **Consulta CRT-D D234TRK**

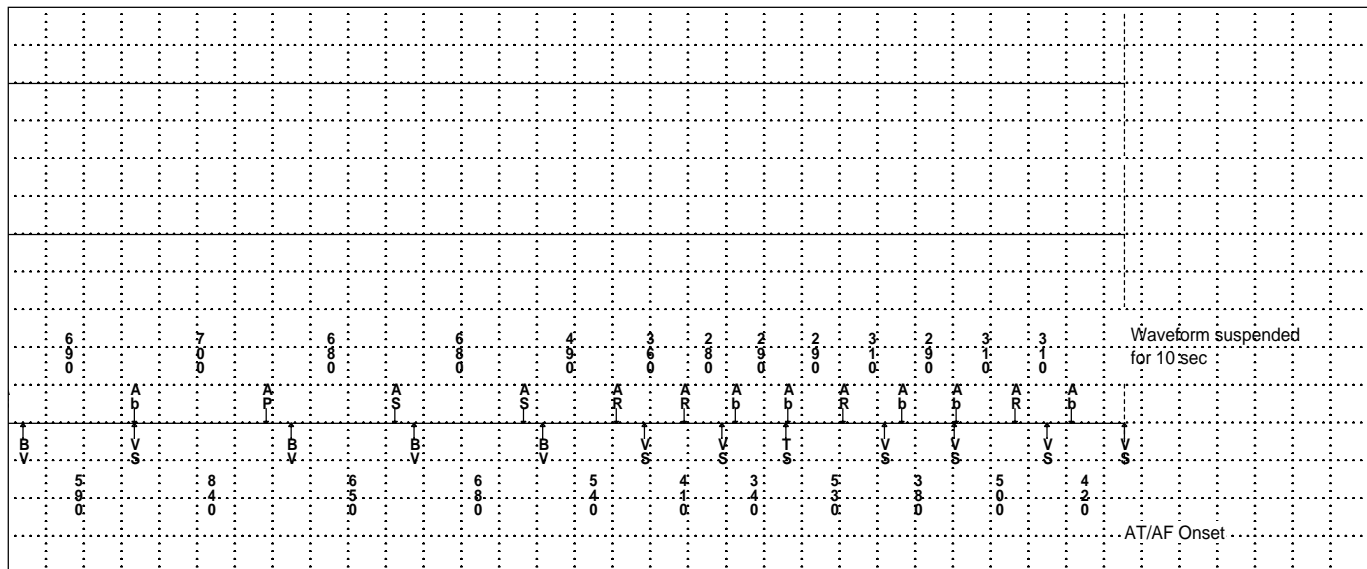
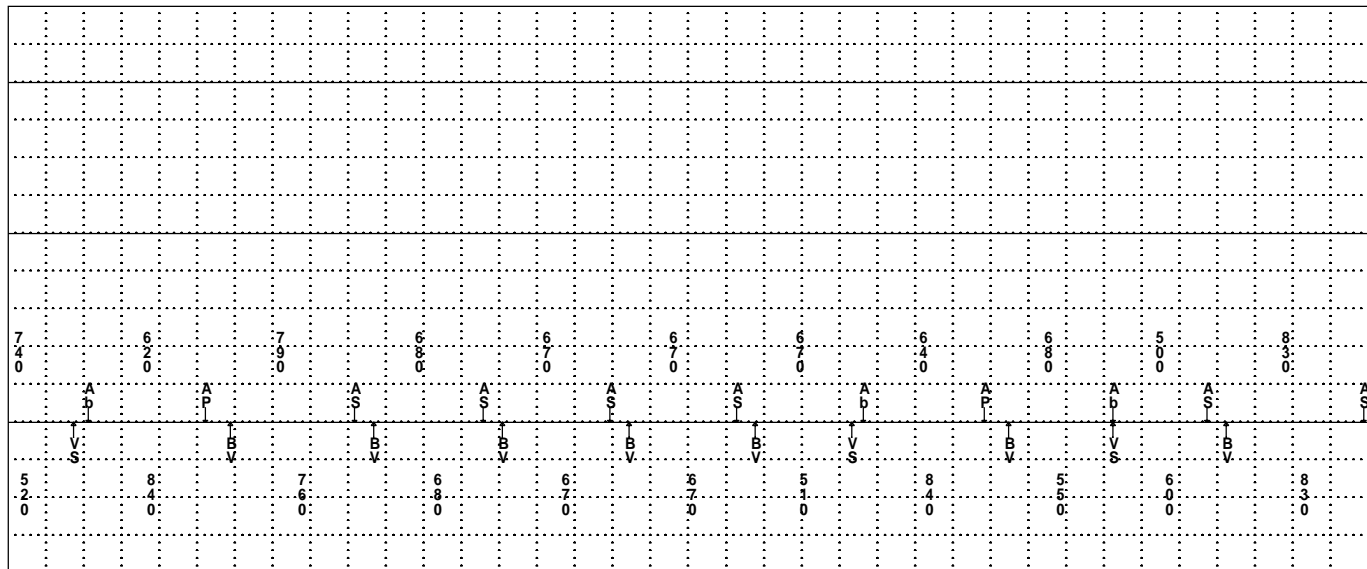
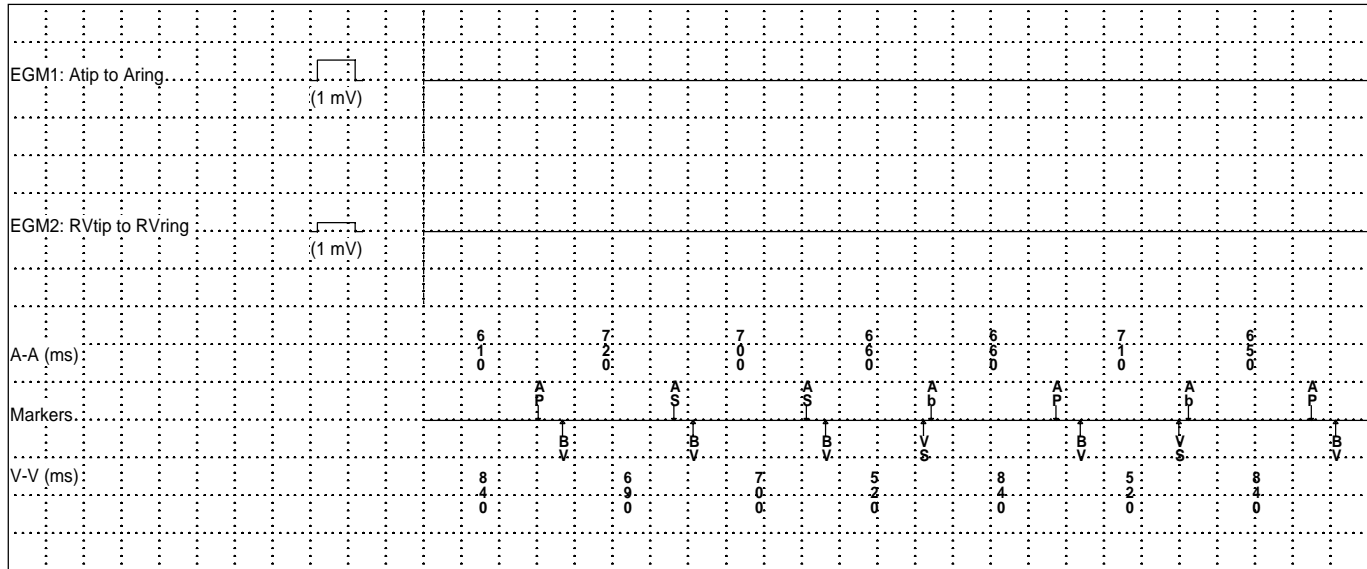
Serial Number: **PYZ615321S**

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ID: **350208407**

Episode #90 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #90

Device: Consulta CRT-D D234TRK

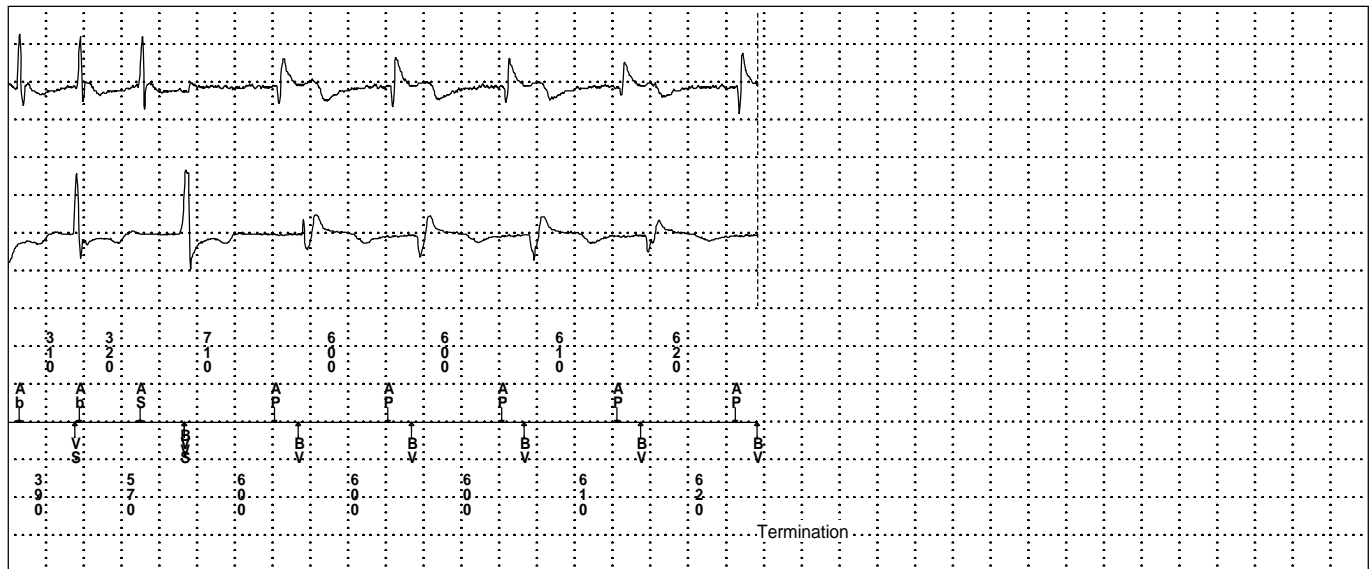
Serial Number: PYZ615321S

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ID: 350208407

Episode #90 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #90

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Episode #90: 22-Jan-2016 09:23:54

Episode Summary

Initial Type	AT/AF Monitor (spontaneous)
Duration	21 sec
A/V Max Rate	188 bpm/---
A. Median	188 bpm (320 ms)
Activity at onset	Active, Sensor = 74 bpm

Parameter Settings	Zones	A. Interval (Rate)
AT/AF Monitor	1	AT/AF 350 ms (171 bpm)

EGM	Source	Range	Sensitivity
EGM1	Atip to Aring	+/- 8 mV	Atrial 0.3 mV
EGM2	RVtip to RVring	+/- 8 mV	RV 0.3 mV

Lead Trends - Atrial

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

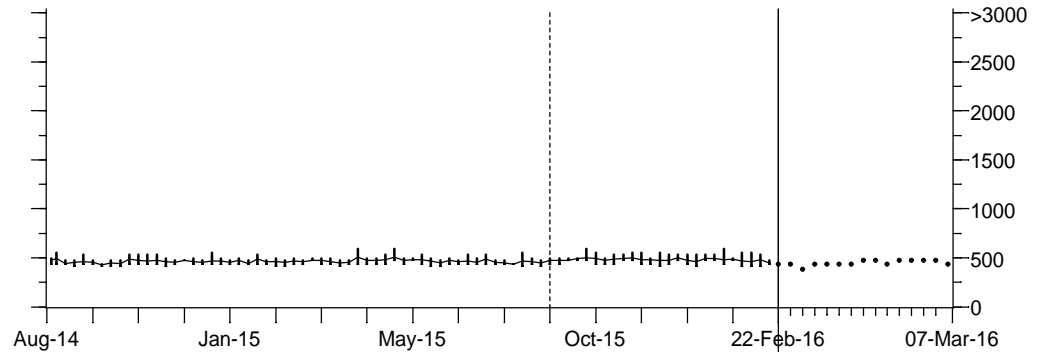
Lead Model **5076**

A. Impedance (bipolar)

Last Measured 475 ohms

last session

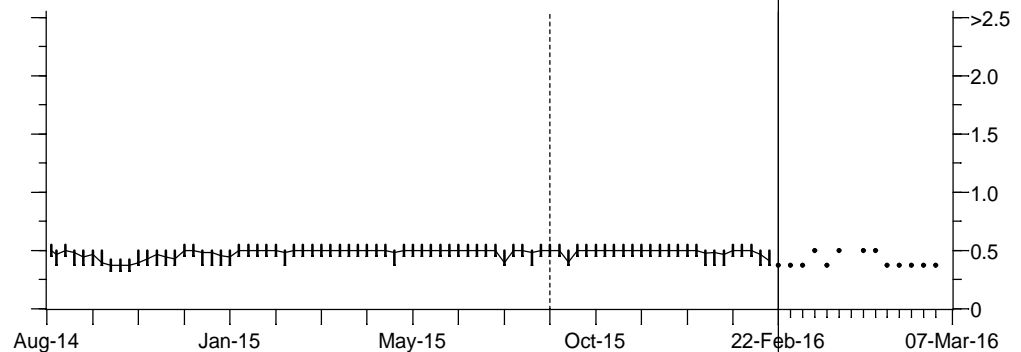
ohms



A. Threshold

Capture Adaptive
Amplitude 1.00 V
Pulse Width 0.40 ms
Last Measured 0.375 V @ 0.40 ms
Measured On 06-Mar-2016

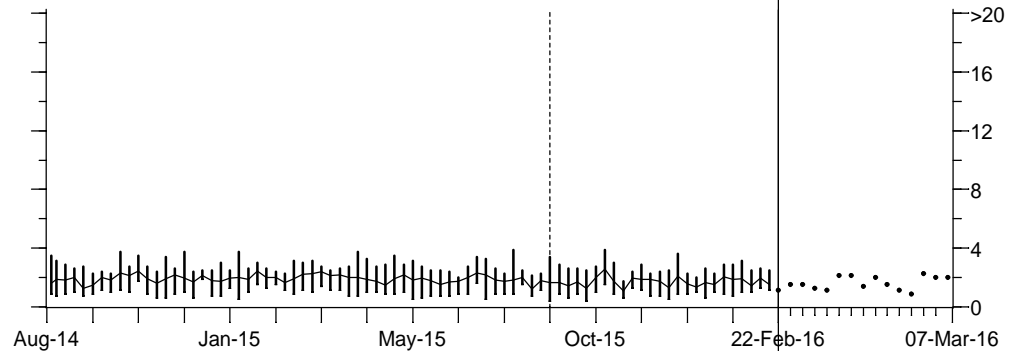
V @ 0.40 ms



P-Wave Amplitude

Sensitivity 0.30 mV
Last Measured 2.0 mV

mV



Last 80 weeks (min/max/avg per week)

Last 15 days

Lead Trends - RV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

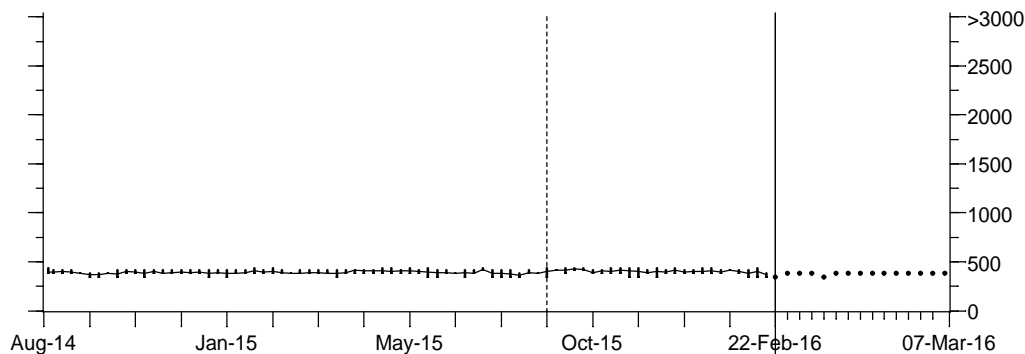
Lead Model **6935-65cm**

RV Impedance (bipolar)

Last Measured 380 ohms

last session

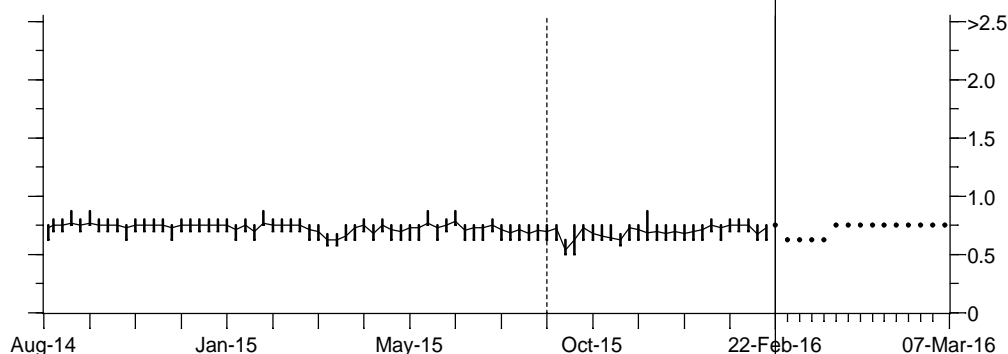
ohms



RV Threshold

Capture Adaptive
Amplitude 1.25 V
Pulse Width 0.40 ms
Last Measured 0.750 V @ 0.40 ms
Measured On 07-Mar-2016

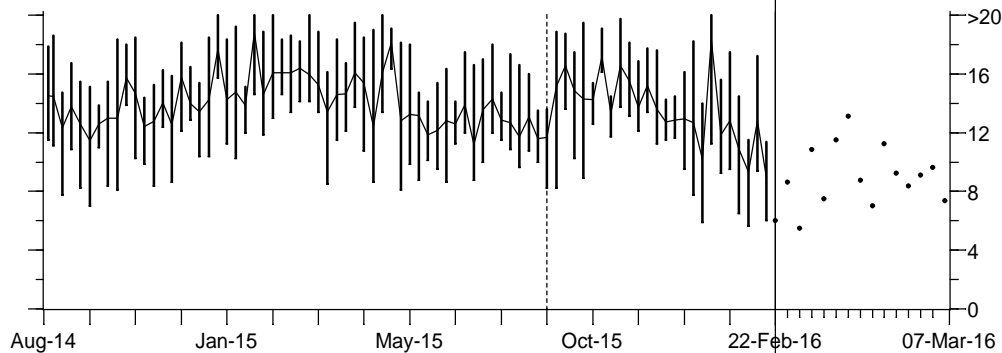
V @ 0.40 ms



R-Wave Amplitude

Sensitivity 0.30 mV
Last Measured 7.4 mV

mV



Last 80 weeks (min/max/avg per week)

Last 15 days

Lead Trends - RV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

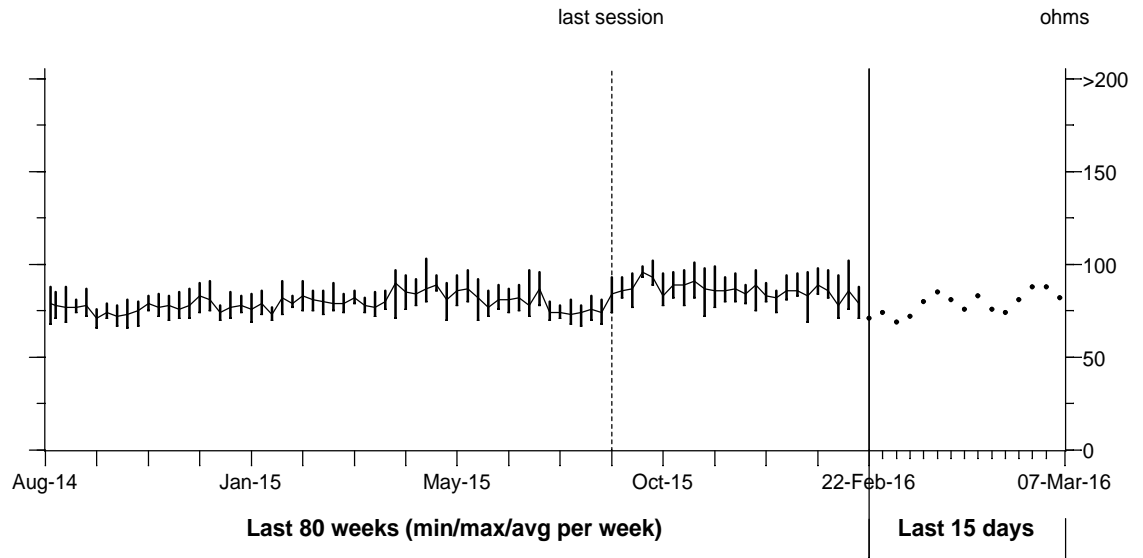
Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

RV Defib Impedance

Last Measured 77 ohms



Lead Trends - LV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

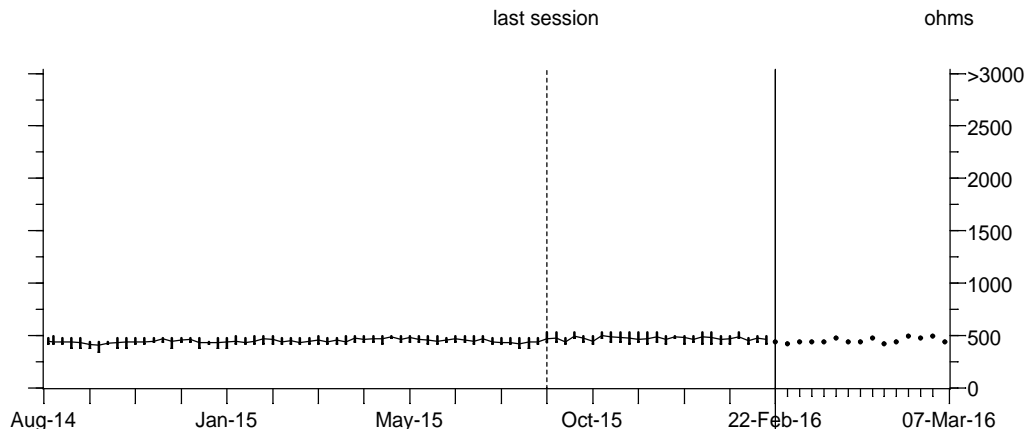
ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Pace Polarity **LVtip to RVcoil**
Lead Model **4296**

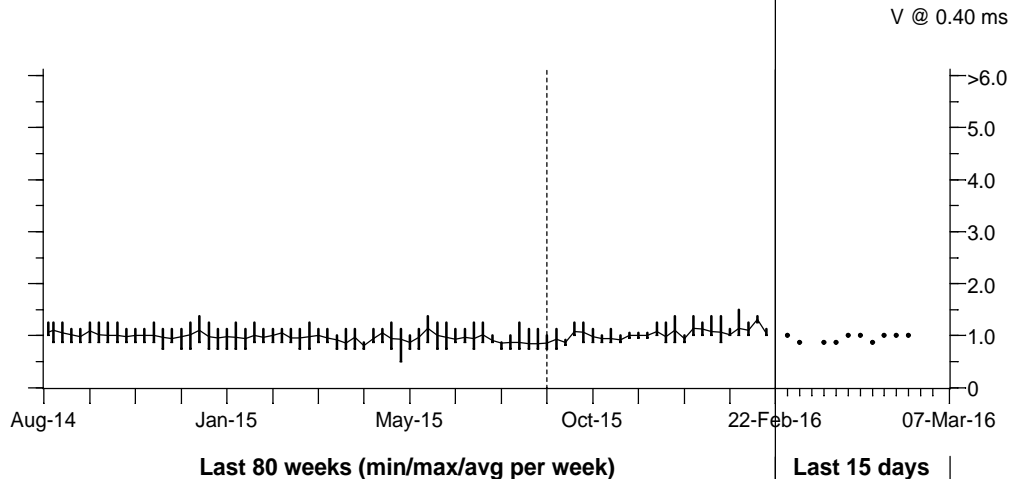
LV Impedance (LVtip to RVcoil)

Last Measured 475 ohms



LV Threshold

Capture Adaptive
Amplitude 2.00 V
Pulse Width 0.40 ms
Max. Adapted 6.00 V
Last Measured 1.000 V @ 0.40 ms
Measured On 04-Mar-2016



Battery and Lead Measurements Report

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Last Interrogation: 07-Mar-2016 13:34:11

Battery Voltage

(RRT=2.63V)

07-Mar-2016

Voltage 2.65 V

Last Capacitor Formation

02-Feb-2016

Charge Time 11.6 sec

Energy 0.0 - 35 J

Last Charge

19-Feb-2016

Charge Time 10.6 sec

Energy 0.0 - 35 J

Sensing Integrity Counter

(if >300 counts, check for sensing issues)

Since 08-Sep-2015

Short V-V Intervals 0

Atrial Lead Position Check

25-Feb-2016 Successful

Lead Impedance

A. Pacing 475 ohms 07-Mar-2016

RV Pacing 380 ohms 07-Mar-2016

LV Pacing (LVtip to RVcoil) 475 ohms 07-Mar-2016

RV Defib 77 ohms 07-Mar-2016

SVC Defib None

Sensing

P-Wave Amplitude 2.0 mV 07-Mar-2016

R-Wave Amplitude 7.4 mV 07-Mar-2016

Last High Voltage Therapy

19-Feb-2016

Measured Impedance 94 ohms

Delivered Energy 35 J

Waveform Biphasic

Pathway B>AX

Parameters

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Pacing Summary

Mode		Rates		AV Intervals	
Mode	DDDR	Lower	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		
V-V Pace Delay	0 ms				

Pacing Details	Atrial	RV	LV
Amplitude	1.00 V	1.25 V	2.00 V
Pulse Width	0.40 ms	0.40 ms	0.40 ms
Capture Management	Adaptive	Adaptive	Adaptive
Amplitude Margin	1.5 X	1.5 X	+ 1.0 V
Min. Adapted Amplitude	1.00 V	1.00 V	
Max. Adapted Amplitude			6.00 V
Acute Phase Remaining	Off	Off	
Acute Phase Completed	25-Aug-2011	25-Aug-2011	
Sensitivity	0.30 mV	0.30 mV	
Pace Polarity	Bipolar	Bipolar	LVtip to RVcoil
Sense Polarity	Bipolar	Bipolar	

AV Therapies

Rate Adaptive AV	On
Start Rate	90 bpm
Stop Rate	130 bpm
Min PAV	100 ms
Min SAV	70 ms

Rate Response

ADL Rate	95 bpm
Optimization	On
ADL Response	3
Exertion Response	3
Activity Threshold	Low
Activity Acceleration	30 sec
Activity Deceleration	Exercise
ADL Setpoint	5
UR Setpoint	15

Refractory/Blanking

PVARP	Auto
Minimum PVARP	250 ms
PVAB Interval	150 ms
PVAB Method	Partial
A. Blank Post AP	200 ms
A. Blank Post AS	100 ms
V. Blank Post VP	200 ms
V. Blank Post VS	120 ms

Arrhythmia Interventions

A. Rate Stabilization	Off
A. Preference Pacing	Off
Post Mode Switch	Off
V. Sense Response	On
Maximum Rate	140 bpm
Conducted AF Response	On
Response Level	Medium
Maximum Rate	100 bpm
V. Rate Stabilization	Off

Post Shock Pacing

Post Shock Pacing*	
A. Amplitude	4 V
A. Pulse Width	1.50 ms
V. Amplitude	6 V
V. Pulse Width	1.50 ms

* Settings for first 25 beats post shock

Post VT/VF Shock Pacing	Off
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Additional Features

Atrial Tracking Recovery	Off
Rate Drop Response	Off
Sleep	Off
Non-Comp Atrial Pacing	On
NCAP Interval	300 ms
PMT Intervention	Off
PVC Response	On
V. Safety Pacing	On

Device Information

Device	Medtronic	Consulta CRT-D D234TRK	PYZ615321S	Implanted: 27-Apr-2011
RV	Medtronic	6935-65cm Sprint Quattro S.	TAU046360V	Implanted: 27-Apr-2011
Atrial	Medtronic	5076 CapSureFix® Novus	PJN2318313	Implanted: 27-Apr-2011
LV	Medtronic	4296 AttainAbility Plus	RRA509000V	Implanted: 27-Apr-2011
Device Configuration ID: 4-1-0				

Parameters

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

VT/VF Detection

		V. Interval (Rate)	Initial	Redetect	
VF	On	280 ms (214 bpm)	30/40	12/16	
FVT	via VF	240 ms (250 bpm)			
VT	On	350 ms (171 bpm)	40	12	
Monitor	Monitor	400 ms (150 bpm)	48		

PR Logic		Other Enhancements		Sensitivity	
AF/Afl	On	Stability	30 ms	Atrial	0.30 mV
Sinus Tach	On	Onset	On, 81 %	RV	0.30 mV
Other 1:1 SVTs	On	High Rate Timeout	Off		
SVT V. Limit	290 ms				

VF Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
VF Therapy Status	On	On	On	On	On	On
Energy	35 J	35 J	35 J	35 J	35 J	35 J
Pathway	B>AX	B>AX	AX>B	B>AX	AX>B	AX>B

ATP During Charging

Deliver ATP if last 8 R-R >= 240 ms, Burst, Pulses = 8, R-S1 = 88 %, Decrement = 10 ms

ChargeSaver = On(1 episodes), SmartMode = On

FVT Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
FVT Therapy Status	On	On	On	On	On	On
Therapy Type	Burst	Ramp	CV	CV	CV	CV
Energy			35 J	35 J	35 J	35 J
Pathway			B>AX	B>AX	AX>B	AX>B
Initial # Pulses	8	8				
R-S1 Interval=(%RR)	81 %	75 %				
S1S2(Ramp+)=(%RR)						
S2SN(Ramp+)=(%RR)						
Interval Dec	10 ms	20 ms				
# Sequences	3	3				
Smart Mode	On	On				

VT Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
VT Therapy Status	On	On	On	On	On	On
Therapy Type	Burst	Ramp	Ramp+	CV	CV	CV
Energy				35 J	35 J	35 J
Pathway				B>AX	AX>B	B>AX
Initial # Pulses	8	8	3			
R-S1 Interval=(%RR)	88 %	91 %	75 %			
S1S2(Ramp+)=(%RR)			69 %			
S2SN(Ramp+)=(%RR)			66 %			
Interval Dec	10 ms	10 ms				
# Sequences	3	3	3			
Smart Mode	On	On	On			

Shared V. ATP

V-V Minimum ATP Interval	200 ms
V. Amplitude	8 V
V. Pulse Width	1.5 ms
V. Pace Blanking	240 ms
V. Pacing	RV

Shared V. Therapies

Active Can/SVC Coil	Can+SVC On
Progressive Episode Therapies	Off

Parameters

Device: **Consulta CRT-D D234TRK**Serial Number: **PYZ615321S**Date of Visit: **07-Mar-2016 13:34:11**Patient: **PROCHAZKA, Ivan**ID: **350208407**Physician: **MUDr. SEPSI Milan - - -**

AT/AF Detection

Detection	A. Interval (Rate)
Monitor	
AT/AF	350 ms (171 bpm)
	No Rx 350 ms

AT/AF Therapies

CV therapies have priority over pacing therapies.

AT/AF ATP

AT/AF Rx Status	Rx1	Rx2	Rx3
Off	Off	Off	Off

Shared A. ATP

A-A Minimum ATP Interval	150 ms
A. Pacing Amplitude	6 V
A. Pacing Pulse Width	1.5 ms

Stop Atrial Therapies After

Disable all A. Rxs if A. lead position is suspect? Yes

Atrial Lead Position Check

25-Feb-2016 Successful

Patient Activated CV

Patient Activated CV Status Off

AT/AF Automatic CV

AT/AF Automatic CV	Rx4	Rx5
Automatic CV Status	Off	Off

Shared CV

Minimum R-R Interval	500 ms (120 bpm)
Active Can/SVC Coil	Can+SVC On

Parameters

Device: **Consulta CRT-D D234TRK**Serial Number: **PYZ615321S**Date of Visit: **07-Mar-2016 13:34:11**Patient: **PROCHAZKA, Ivan**ID: **350208407**Physician: **MUDr. SEPSI Milan - - -**

Data Collection Setup

	Source	Range
LECG	Can to SVC	+/- 2 mV
EGM 1	Atip to Aring	+/- 8 mV
EGM 2	RVtip to RVring	+/- 8 mV
EGM 3	LVtip to RVcoil	+/- 8 mV
Monitored		EGM1 and EGM2
Pre-arrhythmia EGM		Off

V. Sensing Episodes	
V. Senses to Detect	10 senses
V. Paces to Terminate	3 paces

Device Date/Time	07-Mar-2016 13:41
Holter Telemetry	Off

Medtronic CareAlert Setup

Patient Home Monitor	No
Alert Time	08:00

Alert Conditions	Enable-Urgency Tone	Threshold
OptiVol Fluid Settings	Off	60
AT/AF Daily Burden Settings	Off	24 hr
Avg. V. Rate During AT/AF Settings	Off	6 hr at 100 bpm
Number of Shocks Delivered in an Episode	Off	
All Therapies in a Zone Exhausted	Off	
RV Lead Integrity	Off	
A. Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
RV Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
LV Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
RV Defibrillation Lead Impedance Out of Range	On-High	<20 or >200 ohms
SVC Defib Lead Impedance Out of Range	On-High	<20 or >200 ohms
Low Battery Voltage RRT	On-High	2.63 V(RRT)
Excessive Charge Time EOS	On-High	
VF Detection OFF, 3+ VF or 3+ FVT Rx Off.	On-High	

Auto Cap Formation

Minimum Auto Cap Formation Interval	Auto
-------------------------------------	------

Last Charge to Full Energy

19-Feb-2016 19:20:13

Last Capacitor Formation

02-Feb-2016 11:10:40

Changes This Session

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Parameter	Session Start	Current Value
VF Detection Interval	290 ms (207 bpm)	280 ms (214 bpm)
FVT Detection	OFF	via VF
VT Detection Interval	360 ms (167 bpm)	350 ms (171 bpm)
VT Monitor	Off	Monitor
VT Initial Beats	16	40
Monitor Initial Beats	32	48
Other 1:1 SVT	Off	On
Stability	40 ms	30 ms
FVT Rx 1	Off	On
FVT Rx 1 Type		Burst
FVT Rx 1 Initial Pulses		8
FVT Rx 1 R-S1 =(%RR)		81 %
FVT Rx 1 Decrement		10 ms
FVT Rx 1 Sequences		3
FVT Rx 1 Smart Mode		On
FVT Rx 2	Off	On
FVT Rx 2 Type		Ramp
FVT Rx 2 Initial Pulses		8
FVT Rx 2 R-S1 =(%RR)		75 %
FVT Rx 2 Decrement		20 ms
FVT Rx 2 Sequences		3
FVT Rx 2 Smart Mode		On
FVT Rx 3	Off	On
FVT Rx 3 Type		CV
FVT Rx 3 Energy		35 J
FVT Rx 3 Pathway		B>AX
FVT Rx 4	Off	On
FVT Rx 4 Type		CV
FVT Rx 4 Energy		35 J
FVT Rx 4 Pathway		B>AX
FVT Rx 5	Off	On
FVT Rx 5 Type		CV
FVT Rx 5 Energy		35 J
FVT Rx 5 Pathway		AX>B
FVT Rx 6	Off	On
FVT Rx 6 Type		CV
FVT Rx 6 Energy		35 J
FVT Rx 6 Pathway		AX>B

Patient Information Report

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Patient Identification

Patient PROCHAZKA, Ivan
ID 350208407
Date of Birth 08-Feb-1935

History

VT/VF Primary Prevention
Slowest VT
Atrial Status Normal Sinus
Heart Failure NYHA Class III
Activity Level Average Activity
EF, on 25 % 26-Apr-2011

Physician Information

Physician MUDr. SEPSI Milan
Phone - - -
Hospital FN Brno Bohunice

Last Update 27-Apr-2011

Leads

Lead 1

Lead Model 6935-65cm Sprint Quattro S.
Lead Position RV
Manufacturer Medtronic
Serial Number TAU046360V
Implant Date 27-Apr-2011

Lead 2

Lead Model 5076 CapSureFix® Novus
Lead Position Atrial
Manufacturer Medtronic
Serial Number PJN2318313
Implant Date 27-Apr-2011

Lead 3

Lead Model 4296 AttainAbility Plus
Lead Position LV
Manufacturer Medtronic
Serial Number RRA509000V
Implant Date 27-Apr-2011

Implant

Implant Date 27-Apr-2011
Defibrillation Energy - - -
HV Impedance (ohms)

	Atrial	RV	LV
P/R Wave Amplitude (mV)	2,0	9,4	13,0
Slew Rate	- - -	- - -	- - -
Pacing Threshold Amp.	1.7 V	0.8 V	1.1 V
Pulse Width Setting	- - -	- - -	- - -
Pacing Impedance (ohms)	800	650	950
Threshold Current (mA)			

Notes:

Ventricular Sensing Episode List

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Ventricular Sensing Episodes Summary

	Prior to Last Session	Since Last Session
	07-Sep-2015 to 08-Sep-2015	08-Sep-2015 to 07-Mar-2016
	20 hours	6 months
Episodes detected	0	562
Time in episodes	0	29 sec/day

Ventricular Sensing Episode List: 08-Sep-2015 08:30:39 to 07-Mar-2016 13:34:11

ID#	Date	Time hh:mm	Duration hh:mm:ss	Max bpm A/V	AT/AF	VT/VF
1855	06-Mar-2016	01:56	:04	103/150		Yes
1854	05-Mar-2016	21:41	:14	95/95		
1853	05-Mar-2016	08:48	:06	207/200		Yes
1852	05-Mar-2016	01:18	:05	171/125		
1851	04-Mar-2016	22:25	:05	91/167		Yes
1850	03-Mar-2016	18:26	:10	136/136		
1849	03-Mar-2016	18:26	:04	136/136		

----- Last Programmer Session 08-Sep-2015 -----

(Data prior to last session has not been interrogated.)

Rate Drop Response Episode List

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Rate Drop Response Episodes Summary

	Prior to Last Session	Since Last Session
	07-Sep-2015 to 08-Sep-2015	08-Sep-2015 to 07-Mar-2016
	20 hours	6 months
Drop Episodes	0	0
Low Rate Episodes	0	0
Total Episodes	NA*	0.0 per day

*NA: Session duration less than 1 day.

Rate Drop Response Episode List: 08-Sep-2015 08:30:39 to 07-Mar-2016 13:34:11

Type	ID#	Date	Time hh:mm	Detection V. Rate bpm	Peak V. Rate bpm
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(No data since last session.)

----- Last Programmer Session 08-Sep-2015 -----

(Data prior to last session has not been interrogated.)

Final: Session Summary

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Device Information

Device	Medtronic	Consulta CRT-D D234TRK	PYZ615321S	Implanted: 27-Apr-2011
RV	Medtronic	6935-65cm Sprint Quattro S.	TAU046360V	Implanted: 27-Apr-2011
Atrial	Medtronic	5076 CapSureFix® Novus	PJN2318313	Implanted: 27-Apr-2011
LV	Medtronic	4296 AttainAbility Plus	RRA509000V	Implanted: 27-Apr-2011

Device Status (Implanted: 27-Apr-2011)

Battery Voltage (RRT=2.63V)	2.65 V	(07-Mar-2016)		
Last Full Charge	10.6 sec	(19-Feb-2016)		
	Atrial(5076)	RV(6935-65cm)	LV(4296)	
Pacing Impedance	475 ohms	380 ohms	475 ohms	
Defibrillation Impedance		RV=77 ohms		
Capture Threshold	0.375 V @ 0.40 ms	0.750 V @ 0.40 ms	1.000 V @ 0.40 ms	
Measured On	06-Mar-2016	07-Mar-2016	04-Mar-2016	
Programmed Amplitude/Pulse Width	1.00 V / 0.40 ms	1.25 V / 0.40 ms	2.00 V / 0.40 ms	
Measured P/ R Wave	2.0 mV	7.4 mV		
Programmed Sensitivity	0.30 mV	0.30 mV		

Parameter Summary

Mode	DDDR	Lower Rate	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		

Detection

AT/AF	Monitor
VF	On
FVT	via VF
VT	On

Rates

>171 bpm
>214 bpm
214-250 bpm
171-214 bpm

Therapies

All Rx Off
ATP During Charging, 35J x 6
Burst(3), Ramp(3), 35J x 4
Burst(3), Ramp(3), Ramp+(3), 35J x 3

Enhancements On: AF/Afl, Sinus Tach, 1:1 SVT, Stability, Onset, VT Monitor

Changes This Session

Changes This Session	Session Start	Current Value
VF Detection Interval	290 ms (207 bpm)	280 ms (214 bpm)
FVT Detection	OFF	via VF
VT Detection Interval	360 ms (167 bpm)	350 ms (171 bpm)
VT Monitor	Off	Monitor
VT Initial Beats	16	40
Monitor Initial Beats	32	48
Other 1:1 SVT	Off	On
Stability	40 ms	30 ms

FVT Rx 1	Off	On
FVT Rx 1 Type		Burst
FVT Rx 1 Initial Pulses		8
FVT Rx 1 R-S1 =(%RR)		81 %
FVT Rx 1 Decrement		10 ms
FVT Rx 1 Sequences		3
FVT Rx 1 Smart Mode		On

FVT Rx 2	Off	On
FVT Rx 2 Type		Ramp
FVT Rx 2 Initial Pulses		8
FVT Rx 2 R-S1 =(%RR)		75 %
FVT Rx 2 Decrement		20 ms
FVT Rx 2 Sequences		3
FVT Rx 2 Smart Mode		On

FVT Rx 3	Off	On
FVT Rx 3 Type		CV

Final: Session Summary

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Changes This Session	Session Start	Current Value
----------------------	---------------	---------------

FVT Rx 3 Energy		35 J
FVT Rx 3 Pathway		B>AX
FVT Rx 4	Off	On
FVT Rx 4 Type		CV
FVT Rx 4 Energy		35 J
FVT Rx 4 Pathway		B>AX
FVT Rx 5	Off	On
FVT Rx 5 Type		CV
FVT Rx 5 Energy		35 J
FVT Rx 5 Pathway		AX>B
FVT Rx 6	Off	On
FVT Rx 6 Type		CV
FVT Rx 6 Energy		35 J
FVT Rx 6 Pathway		AX>B

Final: Quick Look II

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

History: Primary Prevention, Normal Sinus, NYHA Class III

Device Status (Implanted: 27-Apr-2011)

Battery Voltage (RRT=2.63V)	2.65 V	(07-Mar-2016)		
Last Full Charge	10.6 sec	(19-Feb-2016)		
	Atrial(5076)	RV(6935-65cm)	LV(4296)	
Pacing Impedance	475 ohms	380 ohms	475 ohms	
Defibrillation Impedance		RV=77 ohms		
Capture Threshold	0.375 V @ 0.40 ms	0.750 V @ 0.40 ms	1.000 V @ 0.40 ms	
Measured On	06-Mar-2016	07-Mar-2016	04-Mar-2016	
Programmed Amplitude/Pulse Width	1.00 V / 0.40 ms	1.25 V / 0.40 ms	2.00 V / 0.40 ms	
Measured P/ R Wave	2.0 mV	7.4 mV		
Programmed Sensitivity	0.30 mV	0.30 mV		

Parameter Summary

Mode	DDDR	Lower Rate	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		

Detection		Rates	Therapies
AT/AF	Monitor	>171 bpm	All Rx Off
VF	On	>214 bpm	ATP During Charging, 35J x 6
VFT	via VF	214-250 bpm	Burst(3), Ramp(3), 35J x 4
VT	On	171-214 bpm	Burst(3), Ramp(3), Ramp+(3), 35J x 3

Enhancements On: AF/Afl, Sinus Tach, 1:1 SVT, Stability, Onset, VT Monitor

Clinical Status Since 08-Sep-2015

Treated

VF	2
FVT	0
VT	7
AT/AF(Monitor)	

Monitored

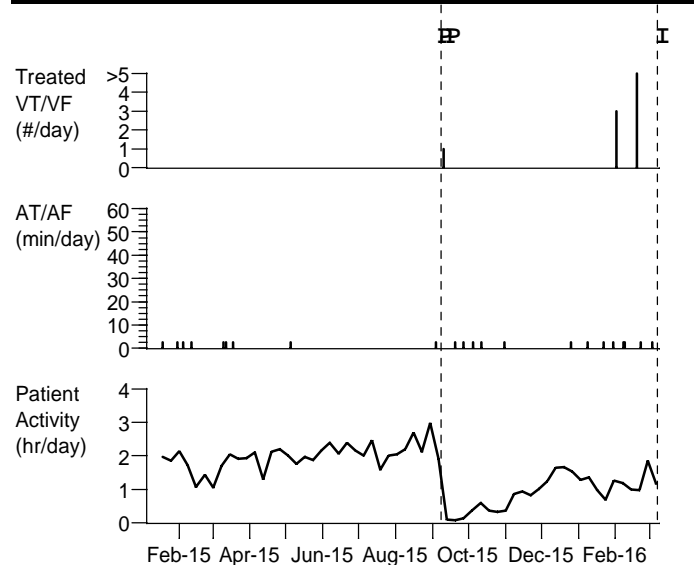
VT(150-171 bpm)	0
VT-NS (>4 beats, >171 bpm)	26
SVT: VT/VF Rx Withheld	1
AT/AF	1

Time in AT/AF	<0.1 hr/day (<0.1%)
Longest AT/AF	21 seconds

Functional

Patient Activity	Last Week 1.2 hr/day
------------------	-------------------------

Cardiac Compass Trends (Jan-2015 to Mar-2016)



Therapy Summary	VT/VF	AT/AF	Pacing	(% of Time Since 08-Sep-2015)
Pace-Terminated Episodes	8 of 9	0	AS-VS	4.5 %
Shock-Terminated Episodes	1 of 1	0	AS-VP	92.9 %
Total Shocks	1	0	AP-VS	<0.1 %
Aborted Charges	1	0	AP-VP	2.6 %

OBSERVATIONS (11)

- 1 shocks for VT/VF, 0 failed.
- V. Pacing less than 90%.
- Possible fluid accumulation: exceeded OptiVol Threshold, 07-Feb-2016 -- ongoing.
- Patient Activity less than 1 hr/day for 14 weeks.
- At least 1 therapy failed in 2 VT/VF episodes.

Final: Quick Look II

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

OBSERVATIONS (11)

- 1 treated VT/VF episodes longer than 30 sec.
- Switched to ATP Before Charging due to 1 successes of ATP During Charging.
- Switched to ATP During Charging due to 2 failures of ATP Before Charging.
- 1 VT episodes accelerated to VF.
- VF detection may be delayed: VF Detection Interval is faster than 300 ms (200 bpm).
- VF ATP + Charging therapies will not be delivered. "Deliver ATP if last 8 R-R >=" in Params/VF Therapies/ATP is outside of the VF detection zone or overlapped by the FVT Interval.

Final: Lead Trends - Atrial

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

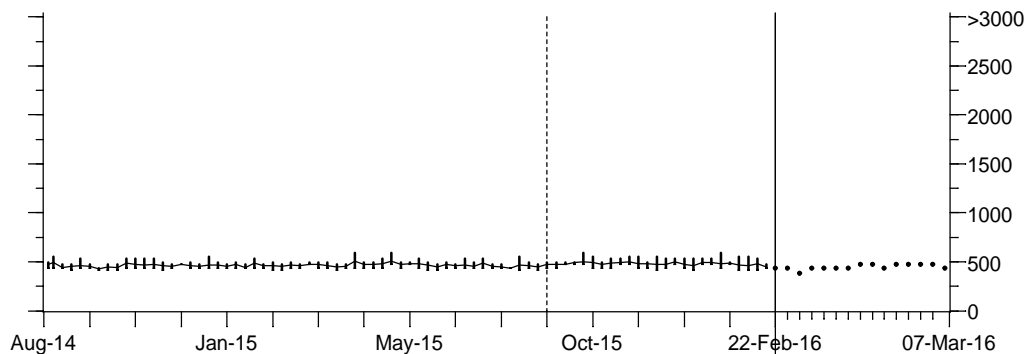
Lead Model **5076**

A. Impedance (bipolar)

Last Measured 475 ohms

last session

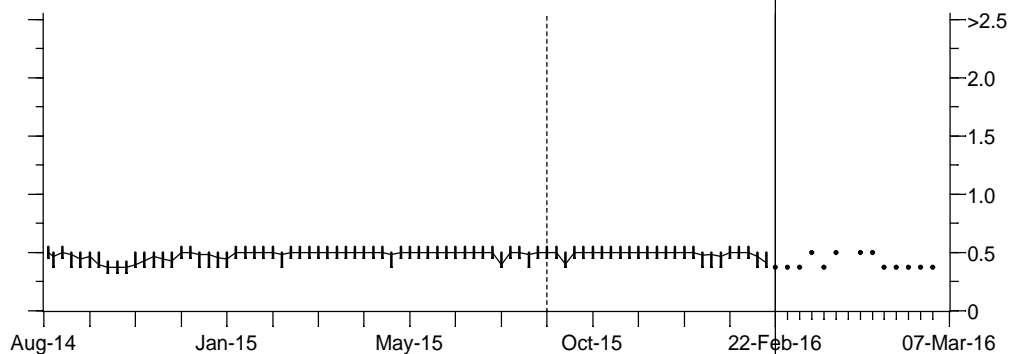
ohms



A. Threshold

Capture Adaptive
Amplitude 1.00 V
Pulse Width 0.40 ms
Last Measured 0.375 V @ 0.40 ms
Measured On 06-Mar-2016

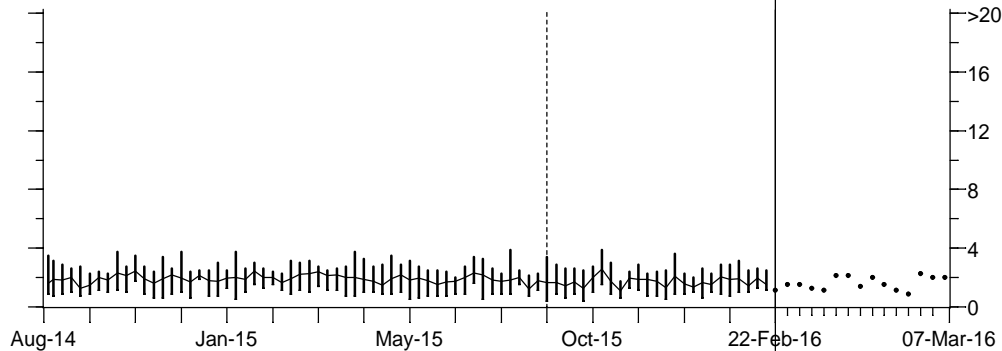
V @ 0.40 ms



P-Wave Amplitude

Sensitivity 0.30 mV
Last Measured 2.0 mV

mV



Last 80 weeks (min/max/avg per week)

Last 15 days

Final: Lead Trends - RV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

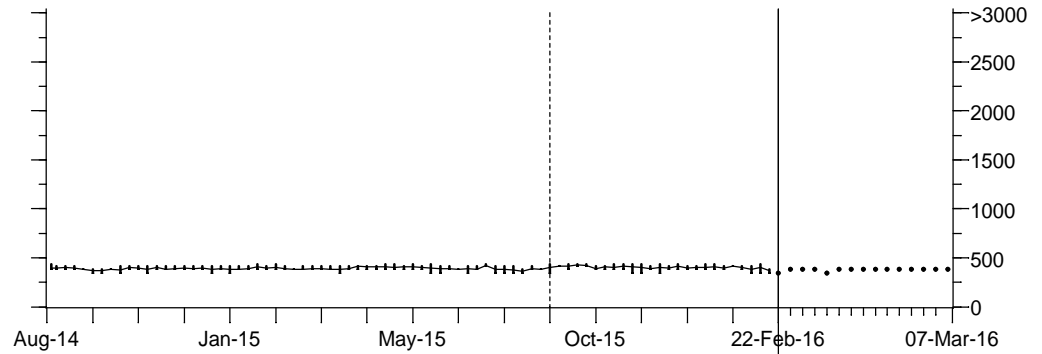
Lead Model **6935-65cm**

RV Impedance (bipolar)

Last Measured 380 ohms

last session

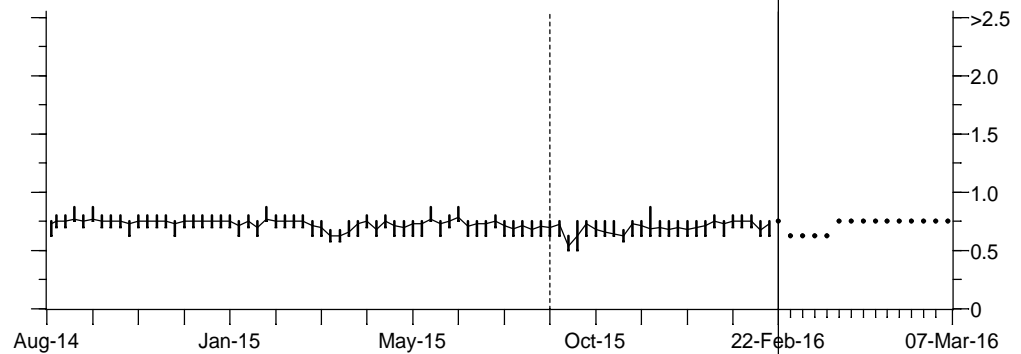
ohms



RV Threshold

Capture Adaptive
Amplitude 1.25 V
Pulse Width 0.40 ms
Last Measured 0.750 V @ 0.40 ms
Measured On 07-Mar-2016

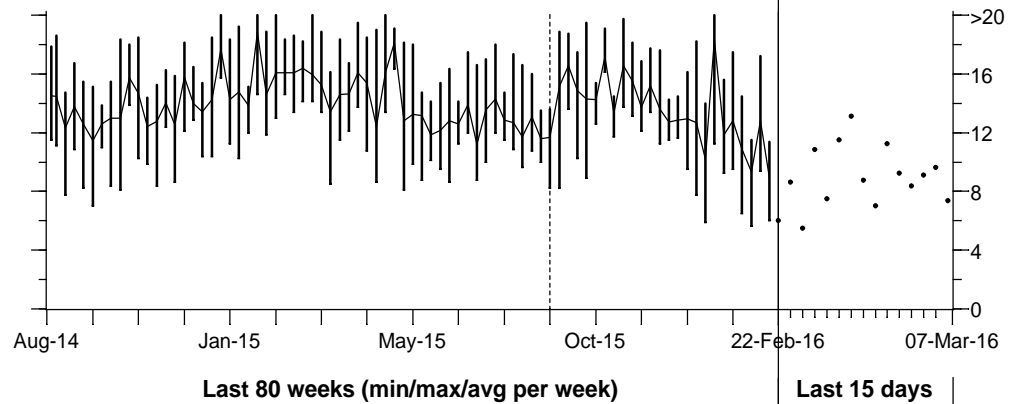
V @ 0.40 ms



R-Wave Amplitude

Sensitivity 0.30 mV
Last Measured 7.4 mV

mV



Last 80 weeks (min/max/avg per week)

Last 15 days

Final: Lead Trends - RV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

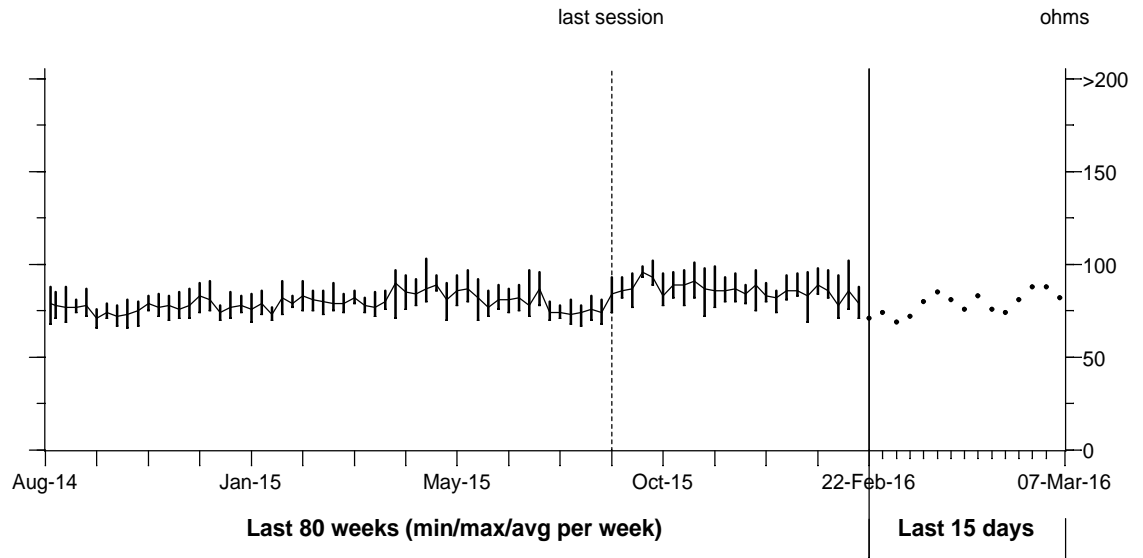
Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

RV Defib Impedance

Last Measured 77 ohms



Final: Lead Trends - LV

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

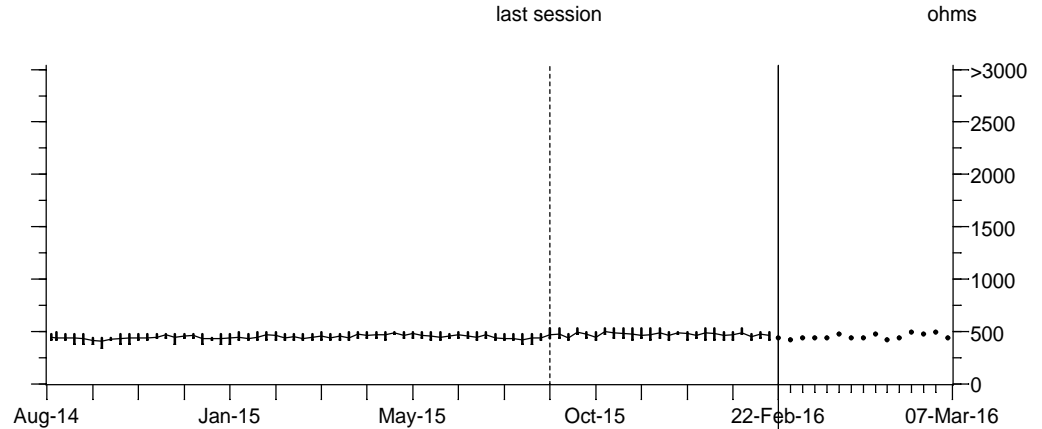
ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Pace Polarity **LVtip to RVcoil**
Lead Model **4296**

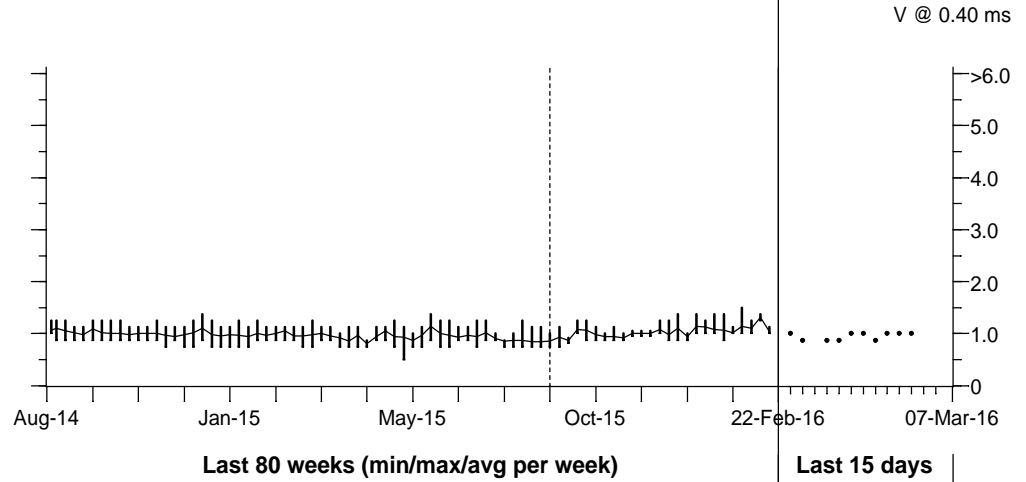
LV Impedance (LVtip to RVcoil)

Last Measured 475 ohms



LV Threshold

Capture Adaptive
Amplitude 2.00 V
Pulse Width 0.40 ms
Max. Adapted 6.00 V
Last Measured 1.000 V @ 0.40 ms
Measured On 04-Mar-2016



Final: Battery and Lead Measurements

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Last Interrogation: 07-Mar-2016 13:34:11

Battery Voltage

(RRT=2.63V)

07-Mar-2016

Voltage 2.65 V

Last Capacitor Formation

02-Feb-2016

Charge Time 11.6 sec

Energy 0.0 - 35 J

Last Charge

19-Feb-2016

Charge Time 10.6 sec

Energy 0.0 - 35 J

Sensing Integrity Counter

(if >300 counts, check for sensing issues)

Since 08-Sep-2015

Short V-V Intervals 0

Atrial Lead Position Check

25-Feb-2016 Successful

Lead Impedance

A. Pacing 475 ohms 07-Mar-2016

RV Pacing 380 ohms 07-Mar-2016

LV Pacing (LVtip to RVcoil) 475 ohms 07-Mar-2016

RV Defib 77 ohms 07-Mar-2016

SVC Defib None

Sensing

P-Wave Amplitude 2.0 mV 07-Mar-2016

R-Wave Amplitude 7.4 mV 07-Mar-2016

Last High Voltage Therapy

19-Feb-2016

Measured Impedance 94 ohms

Delivered Energy 35 J

Waveform Biphasic

Pathway B>AX

Final: Parameters

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Pacing Summary

Mode		Rates		AV Intervals	
Mode	DDDR	Lower	50 bpm	Paced AV	130 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	100 ms
V. Pacing	LV->RV	Upper Sensor	120 bpm		
V-V Pace Delay	0 ms				

Pacing Details	Atrial	RV	LV
Amplitude	1.00 V	1.25 V	2.00 V
Pulse Width	0.40 ms	0.40 ms	0.40 ms
Capture Management	Adaptive	Adaptive	Adaptive
Amplitude Margin	1.5 X	1.5 X	+ 1.0 V
Min. Adapted Amplitude	1.00 V	1.00 V	
Max. Adapted Amplitude			6.00 V
Acute Phase Remaining	Off	Off	
Acute Phase Completed	25-Aug-2011	25-Aug-2011	
Sensitivity	0.30 mV	0.30 mV	
Pace Polarity	Bipolar	Bipolar	LVtip to RVcoil
Sense Polarity	Bipolar	Bipolar	

AV Therapies

Rate Adaptive AV	On
Start Rate	90 bpm
Stop Rate	130 bpm
Min PAV	100 ms
Min SAV	70 ms

Rate Response

ADL Rate	95 bpm
Optimization	On
ADL Response	3
Exertion Response	3
Activity Threshold	Low
Activity Acceleration	30 sec
Activity Deceleration	Exercise
ADL Setpoint	5
UR Setpoint	15

Refractory/Blanking

PVARP	Auto
Minimum PVARP	250 ms
PVAB Interval	150 ms
PVAB Method	Partial
A. Blank Post AP	200 ms
A. Blank Post AS	100 ms
V. Blank Post VP	200 ms
V. Blank Post VS	120 ms

Arrhythmia Interventions

A. Rate Stabilization	Off
A. Preference Pacing	Off
Post Mode Switch	Off
V. Sense Response	On
Maximum Rate	140 bpm
Conducted AF Response	On
Response Level	Medium
Maximum Rate	100 bpm
V. Rate Stabilization	Off

Post Shock Pacing

Post Shock Pacing*	
A. Amplitude	4 V
A. Pulse Width	1.50 ms
V. Amplitude	6 V
V. Pulse Width	1.50 ms

* Settings for first 25 beats post shock

Post VT/VF Shock Pacing	Off
-------------------------	-----

Additional Features

Atrial Tracking Recovery	Off
Rate Drop Response	Off
Sleep	Off
Non-Comp Atrial Pacing	On
NCAP Interval	300 ms
PMT Intervention	Off
PVC Response	On
V. Safety Pacing	On

Device Information

Device	Medtronic	Consulta CRT-D D234TRK	PYZ615321S	Implanted: 27-Apr-2011
RV	Medtronic	6935-65cm Sprint Quattro S.	TAU046360V	Implanted: 27-Apr-2011
Atrial	Medtronic	5076 CapSureFix® Novus	PJN2318313	Implanted: 27-Apr-2011
LV	Medtronic	4296 AttainAbility Plus	RRA509000V	Implanted: 27-Apr-2011
Device Configuration ID: 4-1-0				

Final: Parameters

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**


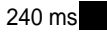
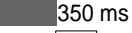

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

VT/VF Detection

		V. Interval (Rate)	Initial	Redetect	
VF	On	280 ms (214 bpm)	30/40	12/16	 280 ms
FVT	via VF	240 ms (250 bpm)			 240 ms
VT	On	350 ms (171 bpm)	40	12	 350 ms
Monitor	Monitor	400 ms (150 bpm)	48		No Rx  400 ms

PR Logic		Other Enhancements		Sensitivity
AF/Afl	On	Stability	30 ms	Atrial 0.30 mV
Sinus Tach	On	Onset	On, 81 %	RV 0.30 mV
Other 1:1 SVTs	On	High Rate Timeout	Off	
SVT V. Limit	290 ms			

VF Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
VF Therapy Status	On	On	On	On	On	On
Energy	35 J	35 J	35 J	35 J	35 J	35 J
Pathway	B>AX	B>AX	AX>B	B>AX	AX>B	AX>B

ATP During Charging

Deliver ATP if last 8 R-R >= 240 ms, Burst, Pulses = 8, R-S1 = 88 %, Decrement = 10 ms

ChargeSaver = On(1 episodes), SmartMode = On

FVT Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
FVT Therapy Status	On	On	On	On	On	On
Therapy Type	Burst	Ramp	CV	CV	CV	CV
Energy			35 J	35 J	35 J	35 J
Pathway			B>AX	B>AX	AX>B	AX>B
Initial # Pulses	8	8				
R-S1 Interval=(%RR)	81 %	75 %				
S1S2(Ramp+)=(%RR)						
S2SN(Ramp+)=(%RR)						
Interval Dec	10 ms	20 ms				
# Sequences	3	3				
Smart Mode	On	On				

VT Therapies	Rx1	Rx2	Rx3	Rx4	Rx5	Rx6
VT Therapy Status	On	On	On	On	On	On
Therapy Type	Burst	Ramp	Ramp+	CV	CV	CV
Energy				35 J	35 J	35 J
Pathway				B>AX	AX>B	B>AX
Initial # Pulses	8	8	3			
R-S1 Interval=(%RR)	88 %	91 %	75 %			
S1S2(Ramp+)=(%RR)			69 %			
S2SN(Ramp+)=(%RR)			66 %			
Interval Dec	10 ms	10 ms				
# Sequences	3	3	3			
Smart Mode	On	On	On			

Shared V. ATP

V-V Minimum ATP Interval	200 ms
V. Amplitude	8 V
V. Pulse Width	1.5 ms
V. Pace Blanking	240 ms
V. Pacing	RV

Shared V. Therapies

Active Can/SVC Coil	Can+SVC On
Progressive Episode Therapies	Off

Final: Parameters

Device: **Consulta CRT-D D234TRK**Serial Number: **PYZ615321S**Date of Visit: **07-Mar-2016 13:34:11**Patient: **PROCHAZKA, Ivan**ID: **350208407**Physician: **MUDr. SEPSI Milan - - -**

AT/AF Detection

Detection	A. Interval (Rate)
Monitor	
AT/AF	350 ms (171 bpm)
	No Rx 350 ms

AT/AF Therapies

CV therapies have priority over pacing therapies.

AT/AF ATP

Rx1	Rx2	Rx3
Off	Off	Off

Shared A. ATP

A-A Minimum ATP Interval	150 ms
A. Pacing Amplitude	6 V
A. Pacing Pulse Width	1.5 ms

Stop Atrial Therapies After

Disable all A. Rxs if A. lead position is suspect? Yes

Atrial Lead Position Check

25-Feb-2016 Successful

Patient Activated CV

Patient Activated CV Status Off

AT/AF Automatic CV

Rx4	Rx5
Off	Off

Shared CV

Minimum R-R Interval	500 ms (120 bpm)
Active Can/SVC Coil	Can+SVC On

Final: ParametersDevice: **Consulta CRT-D D234TRK**Serial Number: **PYZ615321S**Date of Visit: **07-Mar-2016 13:34:11**Patient: **PROCHAZKA, Ivan**ID: **350208407**Physician: **MUDr. SEPSI Milan - - -****Data Collection Setup**

	Source	Range
LECG	Can to SVC	+/- 2 mV
EGM 1	Atip to Aring	+/- 8 mV
EGM 2	RVtip to RVring	+/- 8 mV
EGM 3	LVtip to RVcoil	+/- 8 mV
Monitored		EGM1 and EGM2
Pre-arrhythmia EGM		Off

V. Sensing Episodes

V. Senses to Detect	10 senses
V. Paces to Terminate	3 paces

Device Date/Time 07-Mar-2016 13:42

Holter Telemetry Off

Medtronic CareAlert Setup

Patient Home Monitor	No
Alert Time	08:00

Alert Conditions	Enable-Urgency Tone	Threshold
OptiVol Fluid Settings	Off	60
AT/AF Daily Burden Settings	Off	24 hr
Avg. V. Rate During AT/AF Settings	Off	6 hr at 100 bpm
Number of Shocks Delivered in an Episode	Off	
All Therapies in a Zone Exhausted	Off	
RV Lead Integrity	Off	
A. Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
RV Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
LV Pacing Lead Impedance Out of Range	On-High	<200 or >3000 ohms
RV Defibrillation Lead Impedance Out of Range	On-High	<20 or >200 ohms
SVC Defib Lead Impedance Out of Range	On-High	<20 or >200 ohms
Low Battery Voltage RRT	On-High	2.63 V(RRT)
Excessive Charge Time EOS	On-High	
VF Detection OFF, 3+ VF or 3+ FVT Rx Off.	On-High	

Auto Cap Formation

Minimum Auto Cap Formation Interval Auto

Last Charge to Full Energy

19-Feb-2016 19:20:13

Last Capacitor Formation

02-Feb-2016 11:10:40

Final: Changes This Session

Device: **Consulta CRT-D D234TRK**

Serial Number: **PYZ615321S**

Date of Visit: **07-Mar-2016 13:34:11**

Patient: **PROCHAZKA, Ivan**

ID: **350208407**

Physician: **MUDr. SEPSI Milan - - -**

Parameter	Session Start	Current Value
VF Detection Interval	290 ms (207 bpm)	280 ms (214 bpm)
FVT Detection	OFF	via VF
VT Detection Interval	360 ms (167 bpm)	350 ms (171 bpm)
VT Monitor	Off	Monitor
VT Initial Beats	16	40
Monitor Initial Beats	32	48
Other 1:1 SVT	Off	On
Stability	40 ms	30 ms
FVT Rx 1	Off	On
FVT Rx 1 Type		Burst
FVT Rx 1 Initial Pulses		8
FVT Rx 1 R-S1 =(%RR)		81 %
FVT Rx 1 Decrement		10 ms
FVT Rx 1 Sequences		3
FVT Rx 1 Smart Mode		On
FVT Rx 2	Off	On
FVT Rx 2 Type		Ramp
FVT Rx 2 Initial Pulses		8
FVT Rx 2 R-S1 =(%RR)		75 %
FVT Rx 2 Decrement		20 ms
FVT Rx 2 Sequences		3
FVT Rx 2 Smart Mode		On
FVT Rx 3	Off	On
FVT Rx 3 Type		CV
FVT Rx 3 Energy		35 J
FVT Rx 3 Pathway		B>AX
FVT Rx 4	Off	On
FVT Rx 4 Type		CV
FVT Rx 4 Energy		35 J
FVT Rx 4 Pathway		B>AX
FVT Rx 5	Off	On
FVT Rx 5 Type		CV
FVT Rx 5 Energy		35 J
FVT Rx 5 Pathway		AX>B
FVT Rx 6	Off	On
FVT Rx 6 Type		CV
FVT Rx 6 Energy		35 J
FVT Rx 6 Pathway		AX>B