

Initial Interrogation: Quick Look II

Device: **Advisa DR MRI A3DR01**

Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

History: Sinus Node Dysfunction, Occasional 2° or 3° AV Block

Device Status (Implanted: 08-Dec-2017)

Battery Voltage (RRT=2.83V) 3.03 V (07-Mar-2018)
 Remaining Longevity 9 years (7.5 - 10 years)
 (based on initial interrogation)

	Atrial(5076)	RV(5076)
Lead Impedance	570 ohms	570 ohms
Capture Threshold	0.625 V @ 0.40 ms	0.750 V @ 0.40 ms
Measured On	07-Mar-2018	07-Mar-2018
Programmed Amplitude/Pulse Width	1.50 V / 0.40 ms	2.00 V / 0.40 ms
Measured P/ R Wave	1.5 mV	12.3 mV
Programmed Sensitivity	0.30 mV	0.90 mV

Parameter Summary

Mode	DDD	Lower Rate	60 bpm	Paced AV	180 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	150 ms
		Upper Sensor	130 bpm		

Detection		Rates	Therapies
AT/AF	Monitor	>171 bpm	All Rx Off
VT	Monitor	>150 bpm	

Clinical Status Since 08-Dec-2017 Longest

Treated

AT/AF(Monitor)

Monitored

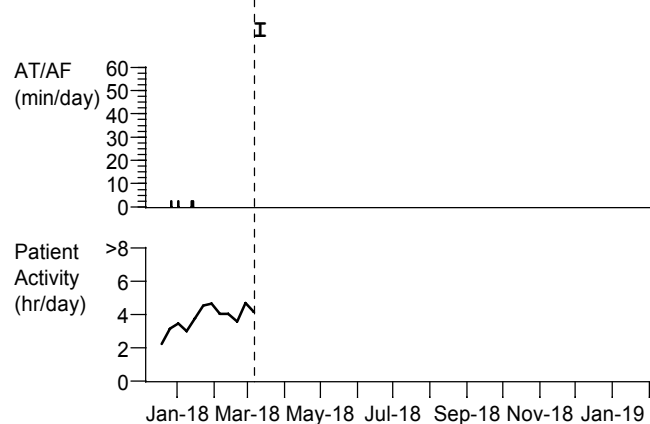
VT (>4 beats)	0	
Fast A&V	0	
AT/AF	2	61 sec

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

Functional

Patient Activity **Last Week** 4.1 hr/day

Cardiac Compass Trends (Dec-2017 to Mar-2018)



Therapy Summary

Pace-Terminated Episodes

AT/AF
0

Pacing (% of Time Since 08-Dec-2017)

Total VP	99.5 %	(MVP Off)
AS-VS	0.5 %	
AS-VP	89.8 %	
AP-VS	<0.1 %	
AP-VP	9.7 %	

OBSERVATIONS (0)

- No observations based on current interrogation.

Initial Interrogation: Cardiac Compass Trends

Device: **Advise DR MRI A3DR01**

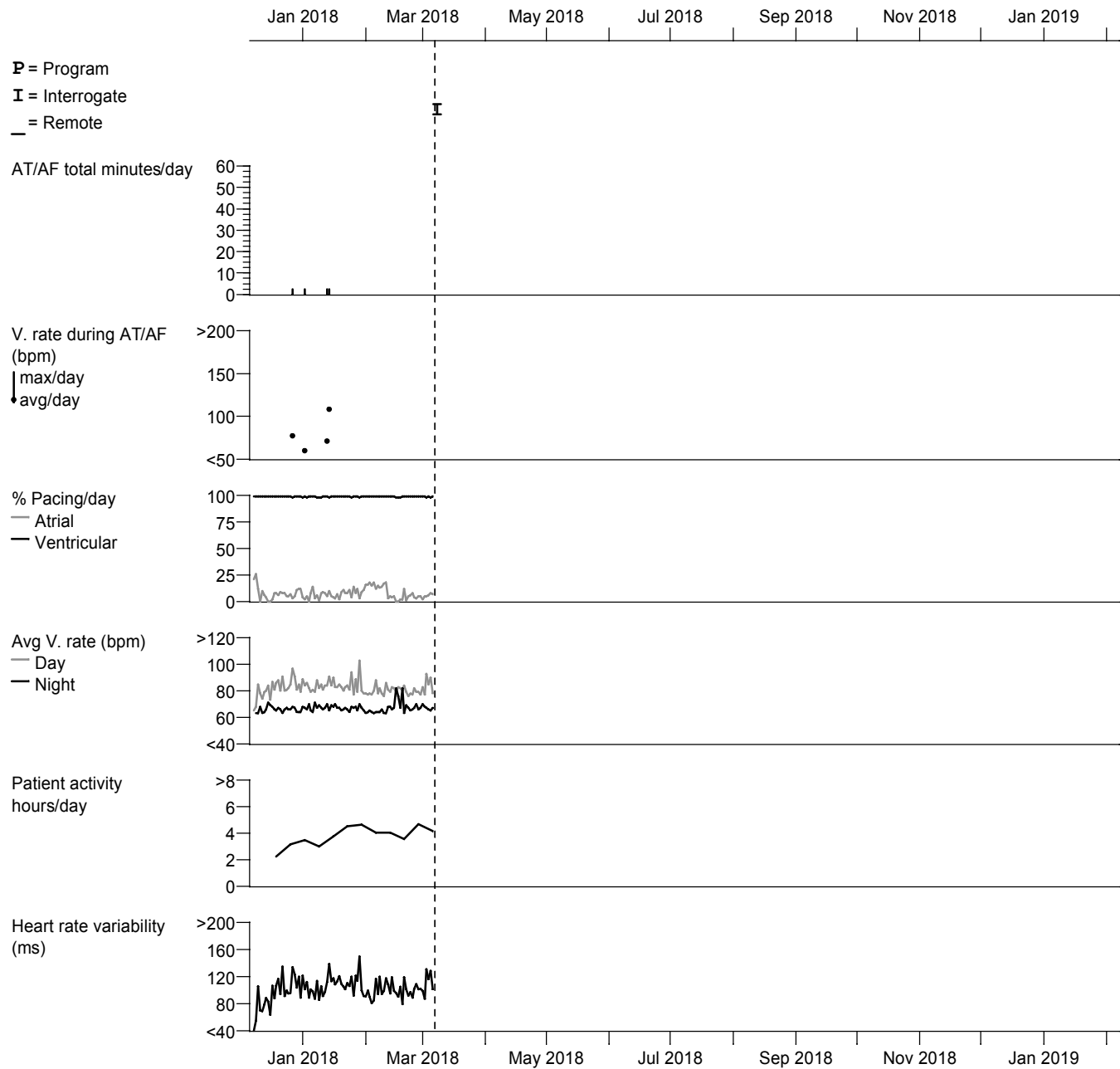
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Initial Interrogation: Cardiac Compass Trends

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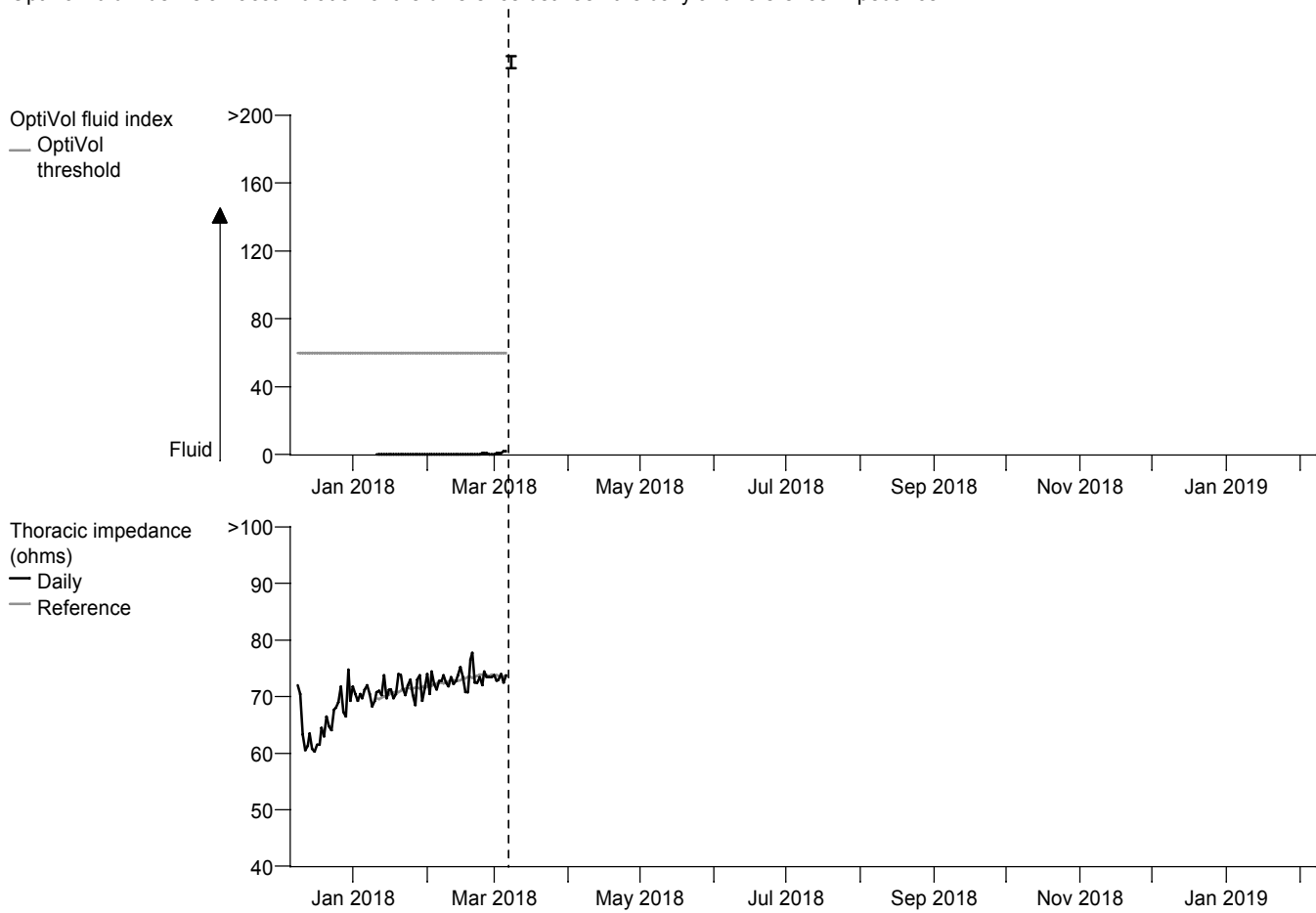
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OptiVol fluid index is an accumulation of the difference between the daily and reference impedance.



Initial Interrogation: Rate Histograms

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Prior to Last Session

No Prior Session

Since Last Session

08-Dec-2017 to 07-Mar-2018

89 days

% of Time

Total VP 99.1 %

AS-VS 0.5 %

AS-VP 89.8 %

AP-VS < 0.1%

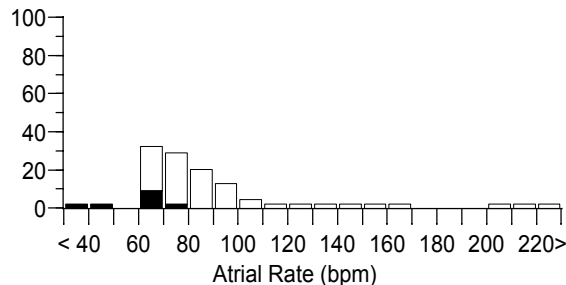
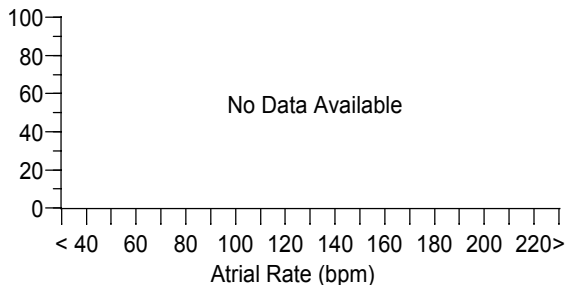
AP-VP 9.7 %

Atrial

% of Time

□ AS

■ AP

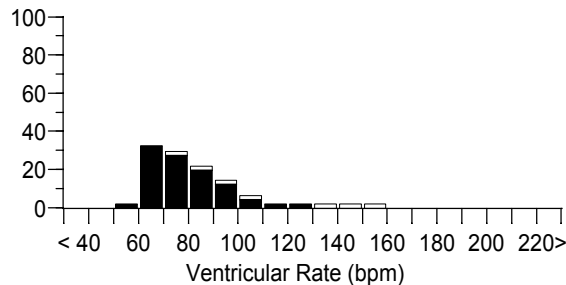
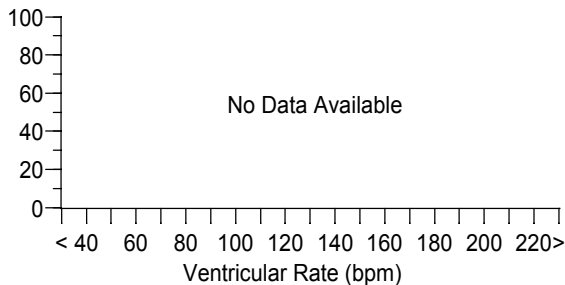


Ventricular

% of Time

□ VS

■ VP



Ventricular

Rate

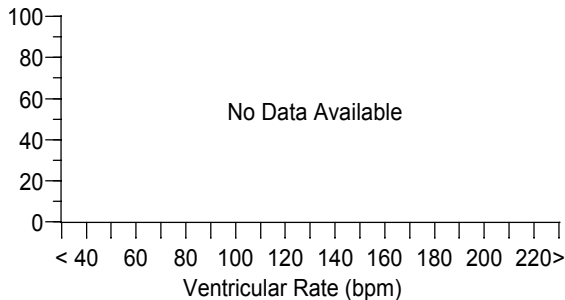
During

AT/AF

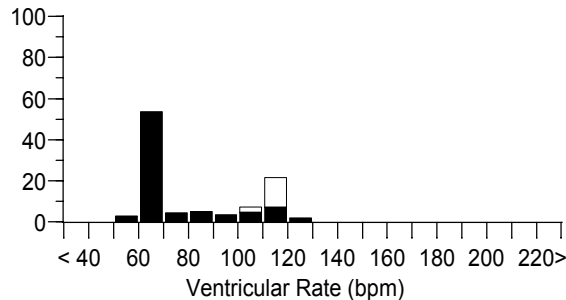
% of AT/AF

□ VS

■ VP



Time in AT/AF = 71 seconds



Initial Interrogation: VT/VF Counters

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Physician: **Liao Min Tsun 0939429152**

Last Session

08-Dec-2017 to

Prior Session

07-Mar-2018

No Prior Session

89 days

VT/VF Counters

VT (>150 bpm)	0
VT-NS (>4 beats)	0
Fast A&V	0
PVC Runs (2-4 beats)	<0.1 per hour
PVC Singles	16.2 per hour
Runs of VRS Paces	0.0 per hour
Single VRS Paces	0.0 per hour

Initial Interrogation: AT/AF Summary

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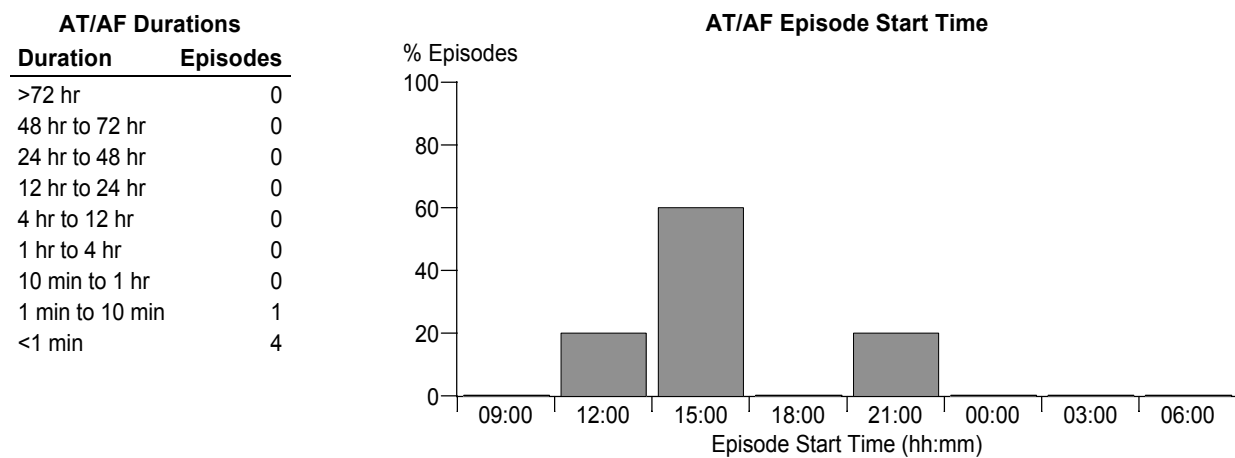
Physician: **Liao Min Tsun 0939429152**

Last Session
08-Dec-2017 to
Prior Session 07-Mar-2018
No Prior Session 89 days

AT/AF Summary

% of Time AT/AF	<0.1	%
Average AT/AF time/day	<0.1	hours/day
Monitored AT/AF Episodes	<0.1	per day
Treated AT/AF Episodes	0.0	per day
Pace-Terminated Episodes	0.0	%
% of Time Atrial Pacing	9.7	%
% of Time Atrial Intervention	0.0	%
AT-NS (>6 beats)	<0.1	per day

Since Last Session 08-Dec-2017 to 07-Mar-2018



AT/AF Rx	Rx1:Off Rx2:Off Rx3:Off							
Treated episodes								
% Terminated								
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

VT/VF Counters

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Physician: **Liao Min Tsun 0939429152**

Last Session

08-Dec-2017 to

Prior Session

07-Mar-2018

No Prior Session

89 days

VT/VF Counters

VT (>150 bpm)	0
VT-NS (>4 beats)	0
Fast A&V	0
PVC Runs (2-4 beats)	<0.1 per hour
PVC Singles	16.2 per hour
Runs of VRS Paces	0.0 per hour
Single VRS Paces	0.0 per hour

Arrhythmia Episode List

Device: **Advisa DR MRI A3DR01**

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Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

Arrhythmia Episode List: 08-Dec-2017 12:46:05 to 07-Mar-2018 13:02:36

All collected episodes.

Type	ATP Seq	Success	ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
AT/AF		2		14-Jan-2018	16:25	:06	135/108	207/VP	Active
AT/AF		1		27-Dec-2017	11:57	:01:01	130/77	207/VP	Active

----- Last Programmer Session 08-Dec-2017 -----

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

Monitored AT/AF Episode #1

Device: **Advisa DR MRI A3DR01**

Serial Number: **PZK875895S**

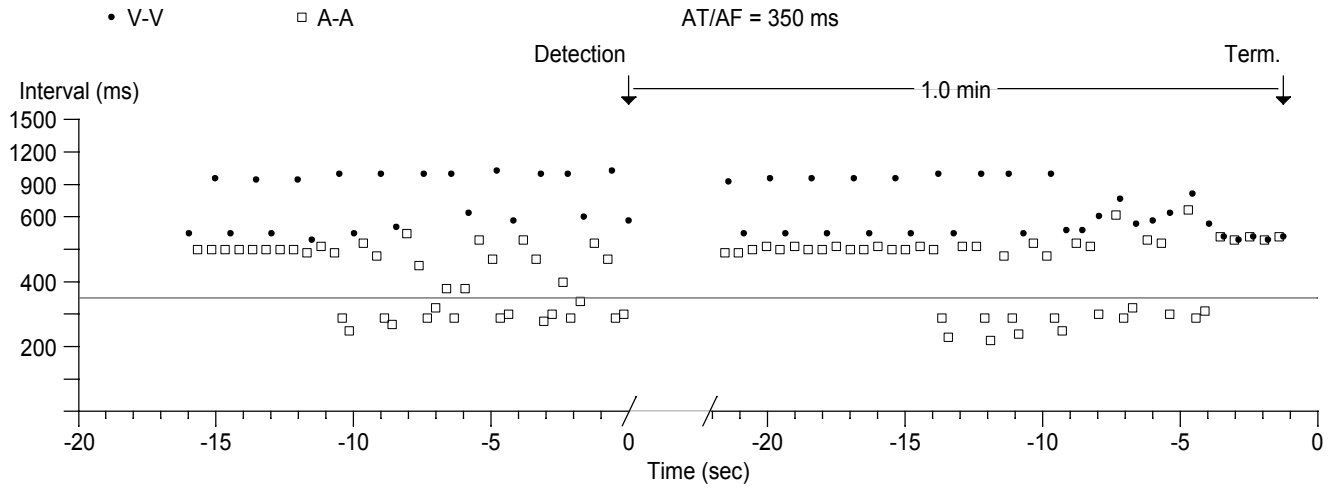
Date of Visit: **07-Mar-2018 13:02:36**

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ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

Type	ATP Seq	Success ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
AT/AF		1	27-Dec-2017	11:57	:01:01	130/77	207/VP	Active



Monitored AT/AF Episode #1

Device: **Advisa DR MRI A3DR01**

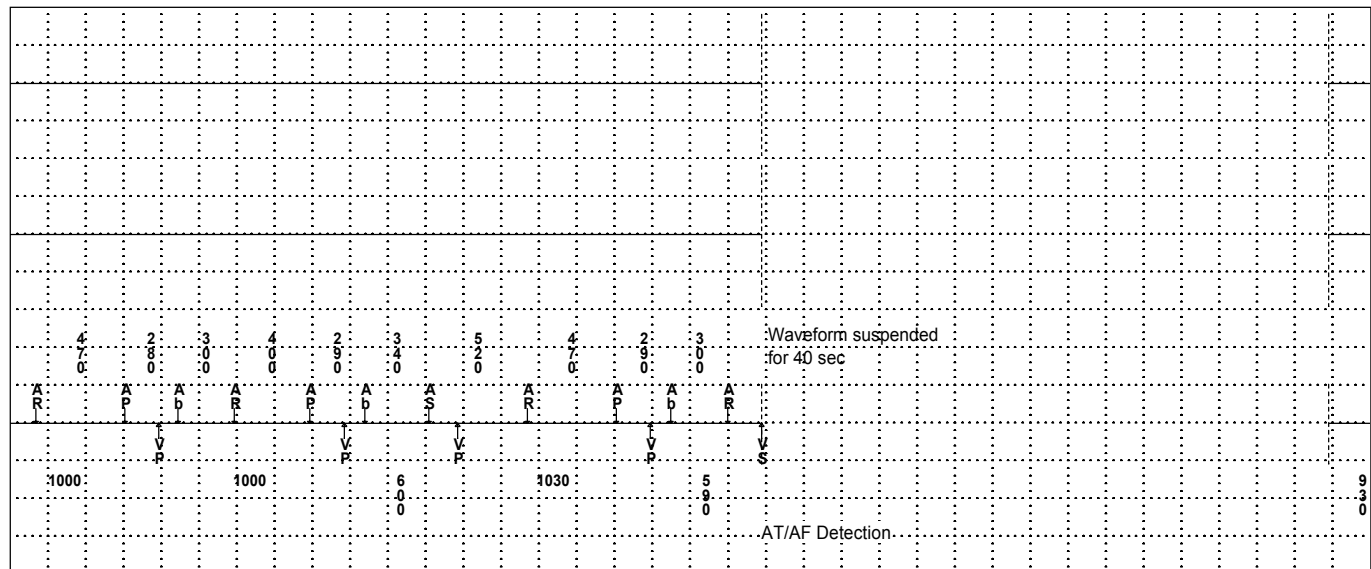
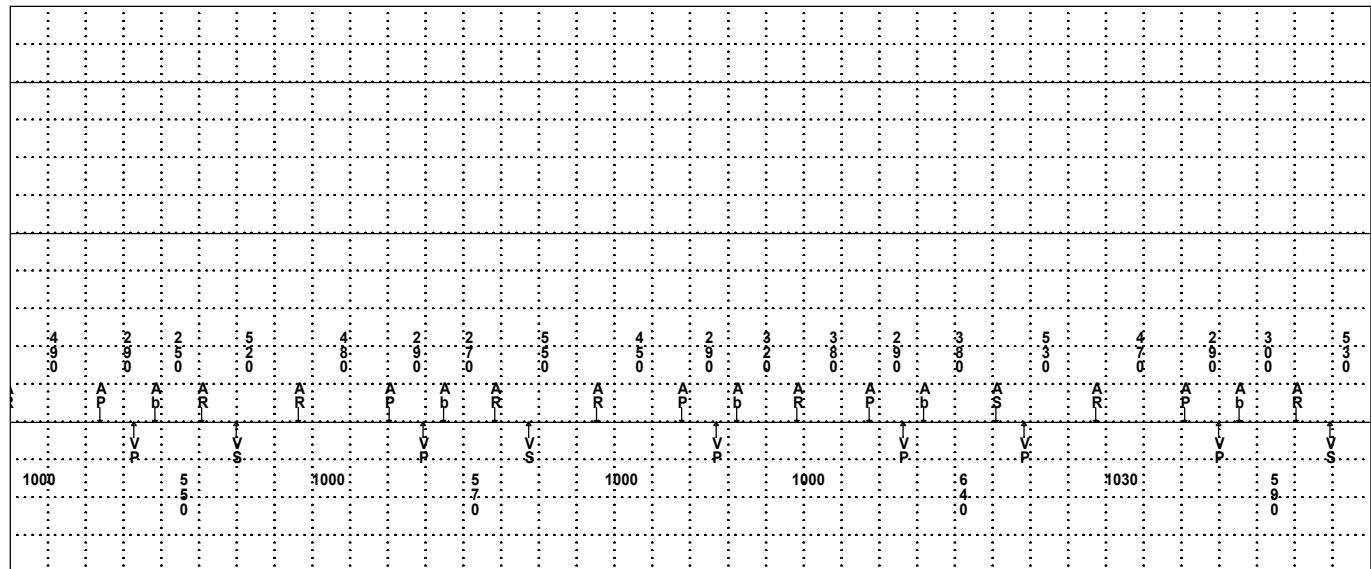
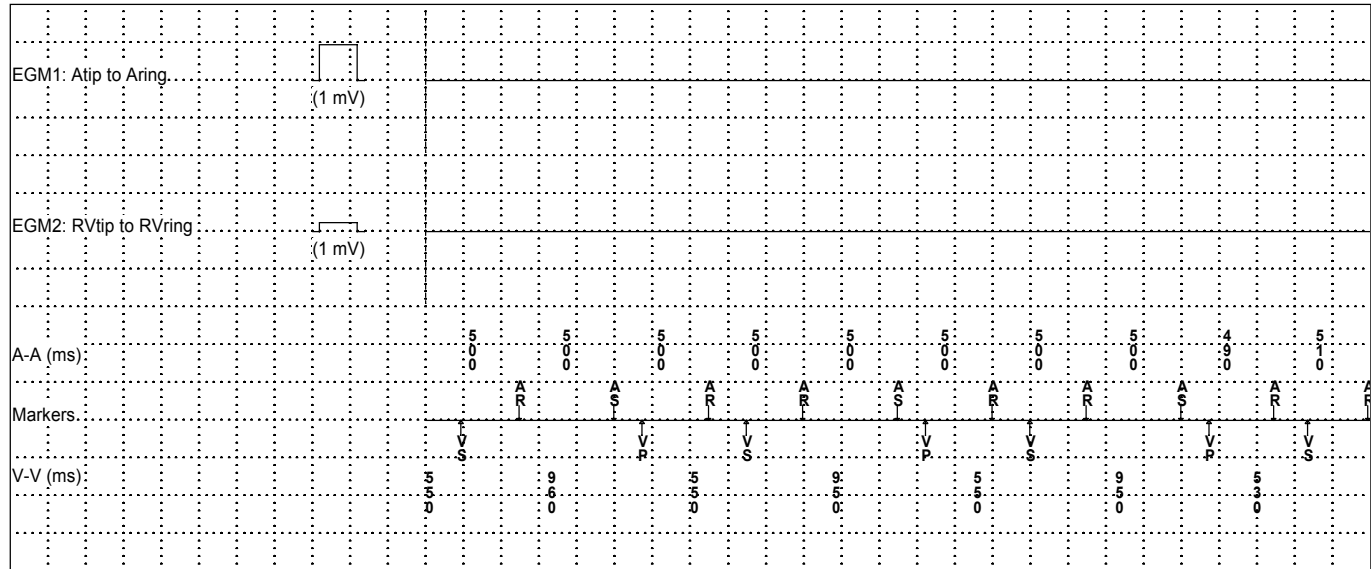
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Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Episode #1 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #1

Device: **Advise DR MRI A3DR01**

Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Episode #1 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #1

Device: **Advisa DR MRI A3DR01**

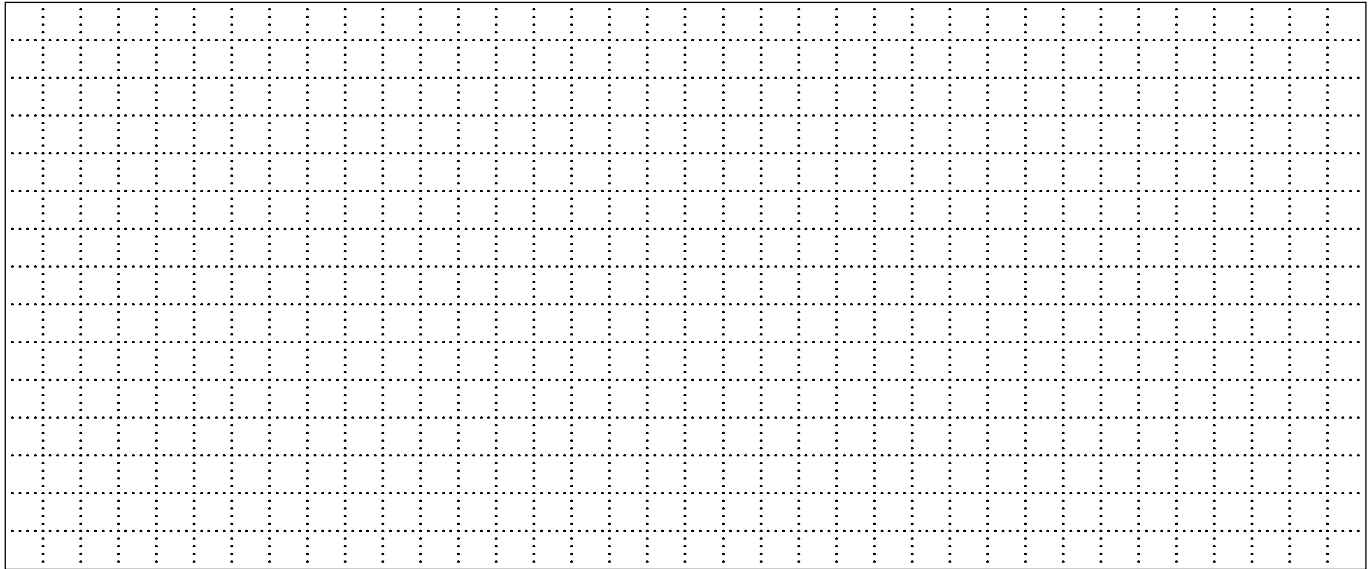
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Monitored AT/AF Episode #1

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Date of Visit: **07-Mar-2018 13:02:36**

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Physician: **Liao Min Tsun 0939429152**

Episode #1: 27-Dec-2017 11:57:46

Episode Summary

Initial Type	AT/AF Monitor (spontaneous)
Duration	1.0 min
A/V Max Rate	207 bpm/VP
A. Median	176 bpm (340 ms)
Activity at onset	Active, Sensor = 98 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	+/- 2 mV	Atrial 0.3 mV
EGM2	RVtip to RVring	+/- 8 mV	RV 0.9 mV

Monitored AT/AF Episode #2

Device: **Advisa DR MRI A3DR01**

Serial Number: **PZK875895S**

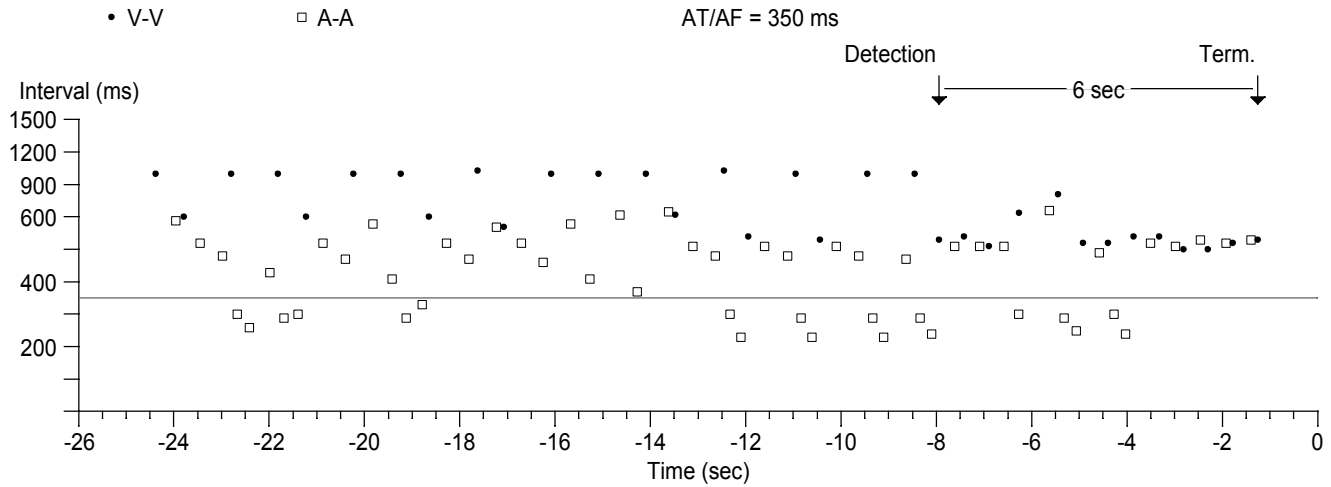
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Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

Type	ATP Seq	Success	ID#	Date	Time hh:mm	Duration hh:mm:ss	Avg bpm A/V	Max bpm A/V	Activity at Onset
AT/AF		2	14-Jan-2018	16:25		:06	135/108	207/VP	Active



Monitored AT/AF Episode #2

Device: **Advisea DR MRI A3DR01**

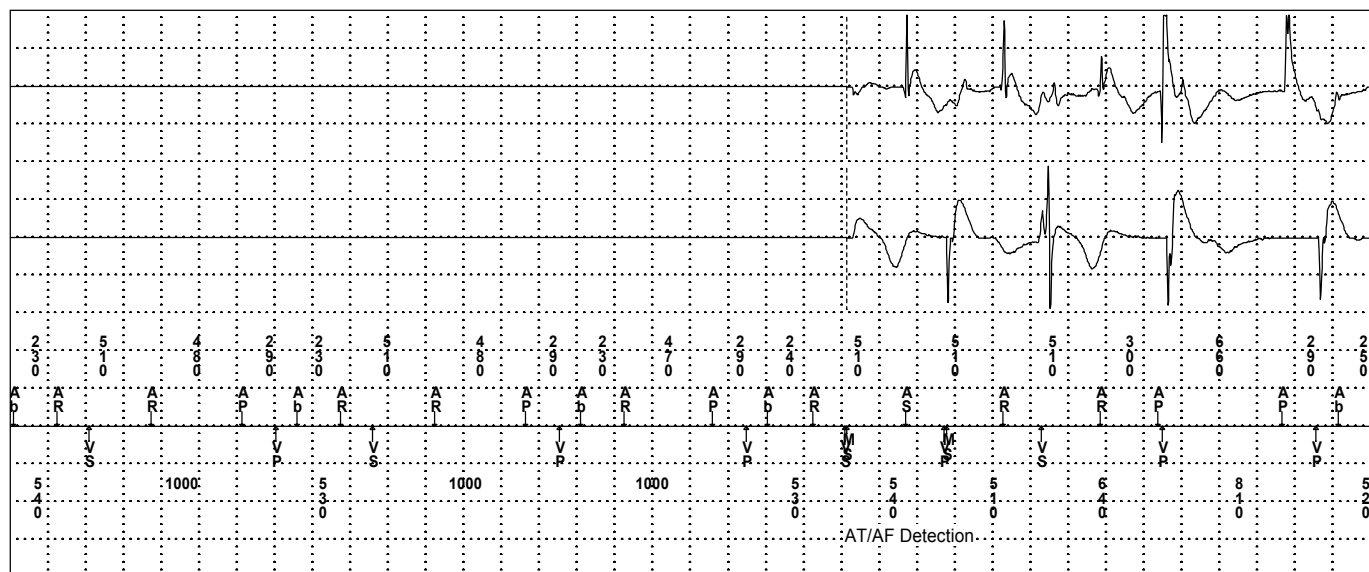
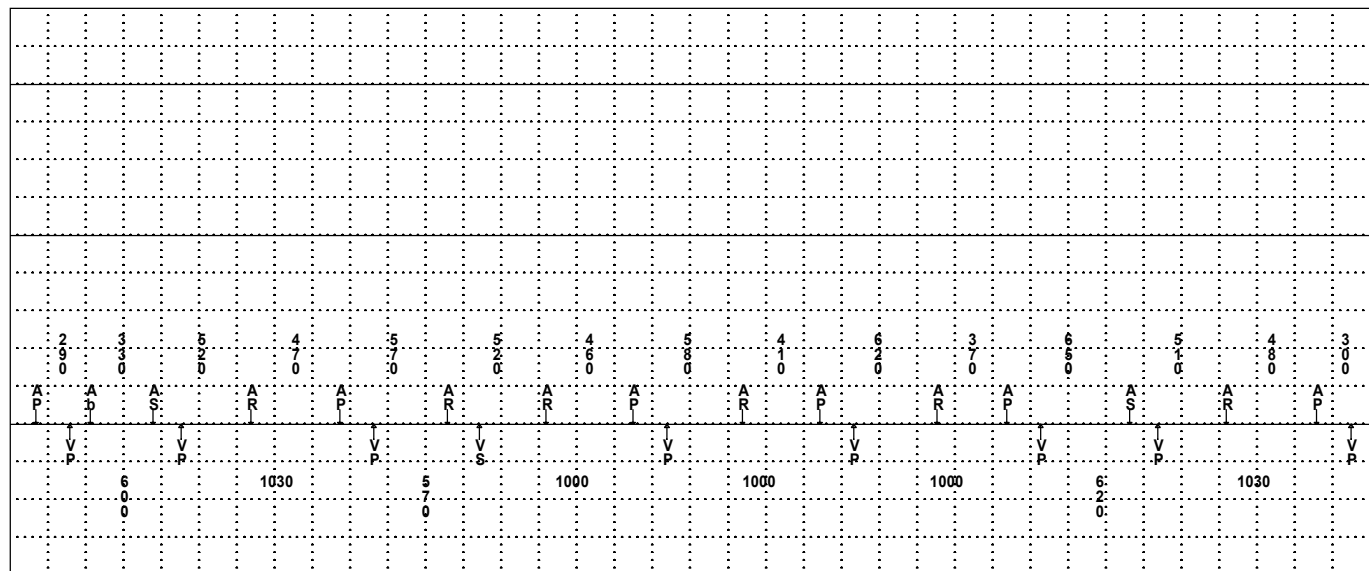
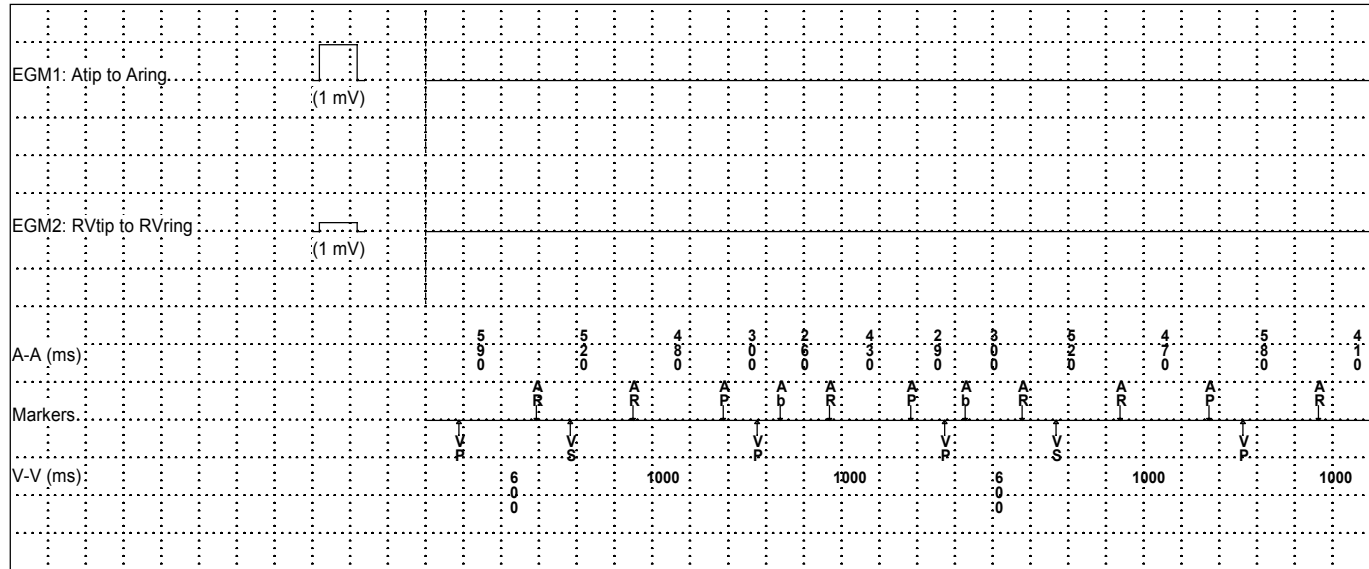
Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Episode #2 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #2

Device: **Advisa DR MRI A3DR01**

Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Episode #2 Chart speed: 25.0 mm/sec



Monitored AT/AF Episode #2

Device: **Advisa DR MRI A3DR01**

Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

Patient: **Tsou, Chao Tsung/HA59891**

ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

Episode #2: 14-Jan-2018 16:25:33

Episode Summary

Initial Type	AT/AF Monitor (spontaneous)
Duration	6 sec
A/V Max Rate	207 bpm/VP
A. Median	207 bpm (290 ms)
Activity at onset	Active, Sensor = 97 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	+/- 2 mV	Atrial 0.3 mV
EGM2	RVtip to RVring	+/- 8 mV	RV 0.9 mV

Final: Session Summary

Device: **Advise DR MRI A3DR01**

Serial Number: **PZK875895S**

Date of Visit: **07-Mar-2018 13:02:36**

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ID: **J120445951**

Physician: **Liao Min Tsun 0939429152**

Device Information

Device	Medtronic	Advise DR MRI A3DR01	PZK875895S	Implanted: 08-Dec-2017
Atrial	Medtronic	5076 CapsureFix Novus MRI	PJN762521G	Implanted: 08-Dec-2017
RV	Medtronic	5076 CapsureFix Novus MRI	PJN789201G	Implanted: 08-Dec-2017

Device Status (Implanted: 08-Dec-2017)

Battery Voltage (RRT=2.83V)	3.03 V	(07-Mar-2018)
Remaining Longevity (based on initial interrogation)	9 years (7.5 - 10 years)	

	Atrial(5076)	RV(5076)
Lead Impedance	570 ohms	570 ohms
Capture Threshold	0.625 V @ 0.40 ms	0.750 V @ 0.40 ms
Measured On	07-Mar-2018	07-Mar-2018
Programmed Amplitude/Pulse Width	1.50 V / 0.40 ms	2.00 V / 0.40 ms
Measured P/ R Wave	1.5 mV	12.3 mV
Programmed Sensitivity	0.30 mV	0.90 mV

Parameter Summary

Mode	DDD	Lower Rate	60 bpm	Paced AV	180 ms
Mode Switch	171 bpm	Upper Track	130 bpm	Sensed AV	150 ms
		Upper Sensor	130 bpm		

Detection		Rates	Therapies
AT/AF	Monitor	>171 bpm	All Rx Off
VT	Monitor	>150 bpm	

Changes This Session

Session Start Current Value

No parameters have been changed during the current session.

Final: Parameters

Device: **Advisa DR MRI A3DR01**

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Pacing Summary

Mode	Rates	AV Intervals
Mode DDD	Lower 60 bpm	Paced AV 180 ms
Mode Switch 171 bpm	Upper Track 130 bpm	Sensed AV 150 ms
	Upper Sensor 130 bpm	

Pacing Details	Atrial	RV
Amplitude	1.50 V	2.00 V
Pulse Width	0.40 ms	0.40 ms
Capture Management	Adaptive	Adaptive
Amplitude Margin	2.0 X	2.0 X
Min. Adapted Amplitude	1.50 V	2.00 V
Acute Phase Remaining	Off	Off
Acute Phase Completed	06-Feb-2018	06-Feb-2018
Sensitivity	0.30 mV	0.90 mV
Pace Polarity	Bipolar	Bipolar
Sense Polarity	Bipolar	Bipolar
Lead Monitor	Adaptive	Adaptive
Min Limit	200 ohms	200 ohms
Max Limit	2000 ohms	2000 ohms

AV Therapies

Rate Adaptive AV Off

Rate Response

ADL Rate 95 bpm
 Optimization On
 ADL Response 3
 Exertion Response 3
 Activity Threshold Medium Low
 Activity Acceleration 30 sec
 Activity Deceleration Exercise
 ADL Setpoint 17
 UR Setpoint 45

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
 Conducted AF Response Off
 V. Rate Stabilization Off

Additional Features

Rate Drop Response Off
 Sleep Off
 Non-Comp Atrial Pacing On
 NCAP Interval 300 ms
 MRI SureScan Off
 PMT Intervention On
 PVC Response On
 V. Safety Pacing On
 Implant Detection Off/Complete

Device Information

Device	Medtronic	Advisa DR MRI A3DR01	PZK875895S	Implanted: 08-Dec-2017
Atrial	Medtronic	5076 CapsureFix Novus MRI	PJN762521G	Implanted: 08-Dec-2017
RV	Medtronic	5076 CapsureFix Novus MRI	PJN789201G	Implanted: 08-Dec-2017

Device Configuration ID: 3-0-0

Final: Parameters

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AT/AF Detection

Detection	A. Interval (Rate)
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Monitor

AT/AF 350 ms (171 bpm)

No Rx

350 ms

AT/AF Therapies

AT/AF ATP	Rx1	Rx2	Rx3
-----------	-----	-----	-----

AT/AF Rx Status 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? No

Atrial Lead Position Check

No measurement since reset.

VT Detection

Detection	V. Interval (Rate)
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Monitor 400 ms (150 bpm)

Data Collection Setup

Source		Range
EGM 1	Atip to Aring	+/- 2 mV
EGM 2	RVtip to RVring	+/- 8 mV
EGM 3	Can to RVring	+/- 8 mV
Monitored		EGM1 and EGM2
Pre-arrhythmia EGM		Off
AT/AF Daily Burden		6 hr
Avg. V. Rate During AT/AF		6 hr at 100 bpm
OptiVol Threshold		60
Device Date/Time		07-Mar-2018 13:04
Holter Telemetry		Off