

LATITUDE™ Patient Management - Combined Follow-up Report

Report Created: 18 Aug 2025



Date of Birth:

Device: **RESONATE X4 CRT-D**
G447/206071

Clinic: **CHU Haut Leveque Bordeaux HOPIT**

Search Tags:

Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **03 Jun 2024 00:44 CEST**

Last Office Interrogation: **21 Nov 2023**

Implant Date: **11 Mar 2019**

Patient Group: **TACHY_CHU de Bordeaux (Primary)**

My Alerts

There are no alerts to display.

Events Since Last Reset (21 Nov 2023)

02 Jun 2024 04:32RV Auto

01 Jun 2024 08:32LV Auto

See last page for full list of Events Since Last Reset.

Battery

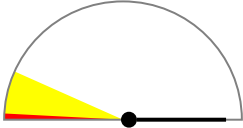
OK

Approximate time to explant: **8.5 years** from 03 Jun 2024

Last Capacitor Re-form18 Feb 2024 17:31

Charge Time10.3 s

One Year Remaining

Explant

See last page for additional battery information.

Leads	Implant (11 Mar 2019)	Most Recent In-Office Measurement (21 Nov 2023)	Most Recent Daily Measurement (02 Jun 2024)
Atrial			
Intrinsic Amplitude	N/R	5.0 mV	3.9 mV
Pace Impedance	N/R	695 Ω (17 May 2022)	647 Ω
Pace Threshold	N/R	0.8 V @ 0.4 ms	N/R
Right Ventricular			
Intrinsic Amplitude	N/R	6.9 mV	9.0 mV
Pace Impedance	N/R	544 Ω (17 May 2022)	513 Ω
Pace Threshold	N/R	0.6 V @ 0.4 ms	0.8 V @ 0.4 ms
Left Ventricular			
Intrinsic Amplitude	N/R	5.7 mV	1.5 mV
Pace Impedance (LVa)	N/R	876 Ω (17 May 2022)	>3000 Ω
Pace Impedance (LVb)		875 Ω (17 May 2022)	
Pace Threshold	N/R	3.3 V @ 0.4 ms	N/R
Shock			
Shock Impedance	N/R	71 Ω (17 May 2022)	71 Ω

Settings

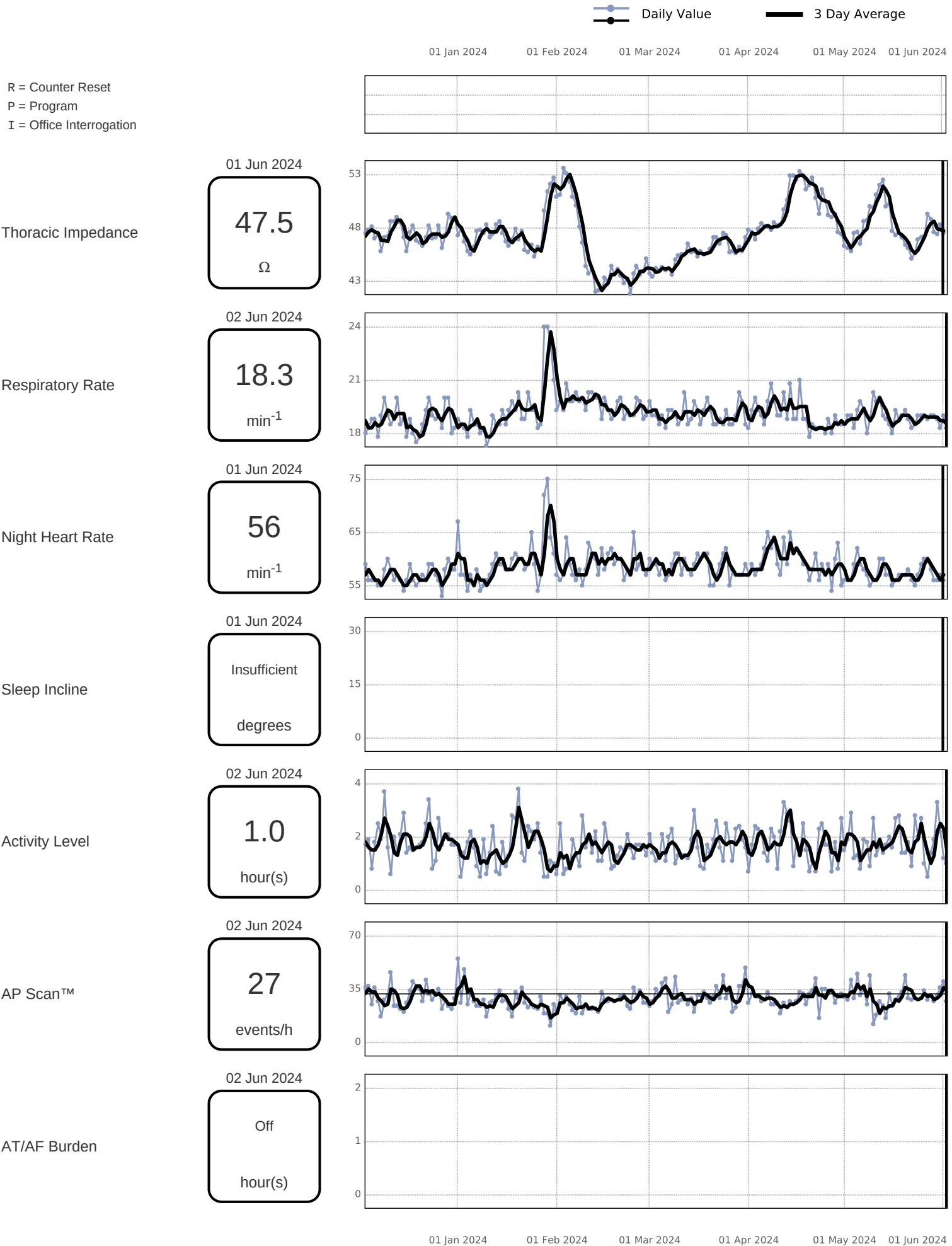
Ventricular Tachy					
VF	250 min ⁻¹	ATP		41 J, 41 J, 41 Jx6	
VT	200 min ⁻¹	Burst	Ramp	41 J, 41 J, 41 Jx4	
Brady/CRT		Pacing Output			
Mode		VVI	 Right Ventricular	Auto 2.0 V @ 0.4 ms	
Lower Rate Limit		40 min ⁻¹	 Left Ventricular (LVa)	Trend 4.0 V @ 0.4 ms	
RV-Refractory (RVRP)		-- - 250 ms	 Left Ventricular (LVb)	Off	
LV-Refractory (LVRP)		250 ms	Sensitivity		
Ventricular Pacing Chamber		BiV	 Atrial	AGC 0.25 mV	
LV Offset		0 ms	 Right Ventricular	AGC 0.6 mV	
			 Left Ventricular	AGC 1.0 mV	
		Leads Configuration (Pace/Sense)			
			 Atrial	Bipolar	
			 Right Ventricular	Bipolar	
			 LVa (Pace)	LVRing3>>Can	
			 LVb (Pace)	Off	
			 LV (Sense)	LVRing2>>LVRing3	
		Rate Adaptive Pacing			
			Minute Ventilation	Passive	
			Accelerometer	Passive	
		LV MultiSite Pacing			
			Pacing Order	Off	

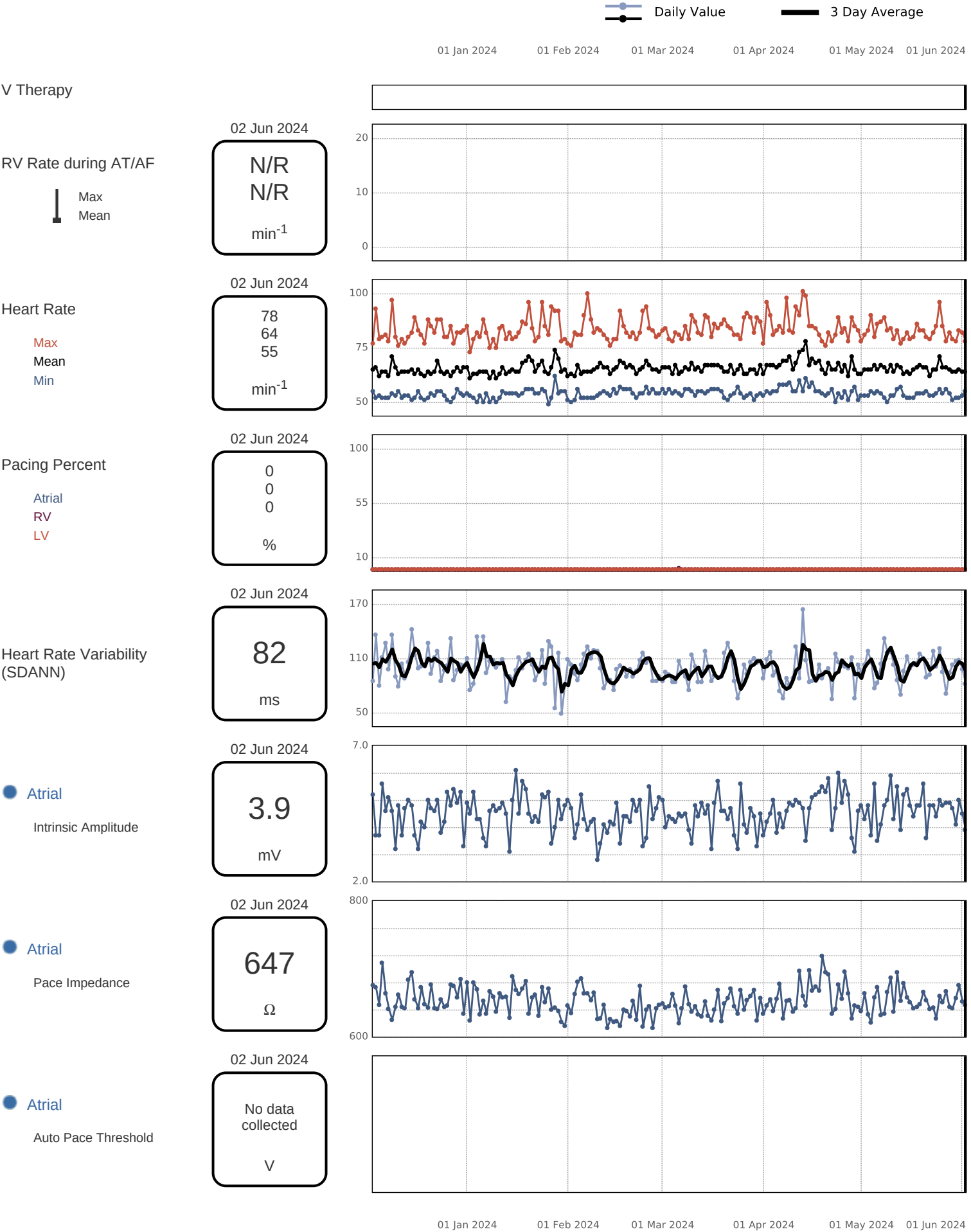
Rhythm ID Update

Last Successful Completion

02 Jun 2024 22:31

Trend Graphs







Ventricular Tachy Counters	Since Last Reset 21 Nov 2023	Device Totals
Ventricular Episode Counters		
Total Episodes	0	3
Treated		
VF Therapy	0	0
VT Therapy	0	0
VT-1 Therapy	0	0
Commanded Therapy	0	0
Non-Treated		
No Therapy Programmed	0	0
NonsustainedV Episodes	0	3
Other Untreated Episodes	0	0
Ventricular Therapy Counters		
ATP Delivered	0	0
ATP % Successful	0	0
Shocks Delivered	0	0
First Shock % Successful	0	0
Shocks Diverted	0	0

Brady/CRT Counters	Reset Before Last 553 day(s) 17 May 2022 to 21 Nov 2023	Since Last Reset 194 day(s) 21 Nov 2023 to 03 Jun 2024
Counters		
% A Paced	1	0
% RV Paced	99	0
% LVa Paced	99	0
% LVb Paced	0	0
Intrinsic Promotion		
Rate Hysteresis		
% Successful	0	0
Atrial Arrhythmia		
% AT/AF (One Year of Data)	0	N/R
Total Time in AT/AF (min) (One Year of Data)	0.0	N/R
Episodes by Duration		
< 1 minute	0	0
1 min - < 1 hr	0	0
1 hr - < 24 hr	0	0
24 hr - < 48 hr	0	0
> 48 hr	0	0
Total PACs	12285	0
Ventricular Counters		
Total PVCs	406269	0
Three or More PVCs	0	0

Clinical Counters	Since Last Reset 21 Nov 2023	Device Totals
MRI Protection Mode	0	0

AT/AF Overview: Since Last Reset (21 Nov 2023 to 03 Jun 2024)	
AT/AF (One Year of Data): N/R %	AT/AF Events: 0
Total Time in AT/AF (min) (One Year of Data): N/R	
There are no ATR events to display.	

AT/AF Overview: Reset Before Last (17 May 2022 to 21 Nov 2023)		
There are no ATR events to display.		

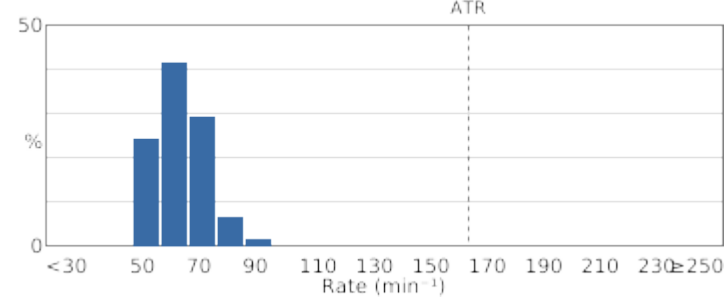
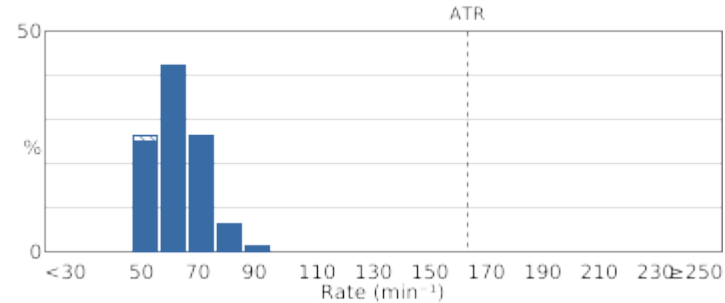
Histograms



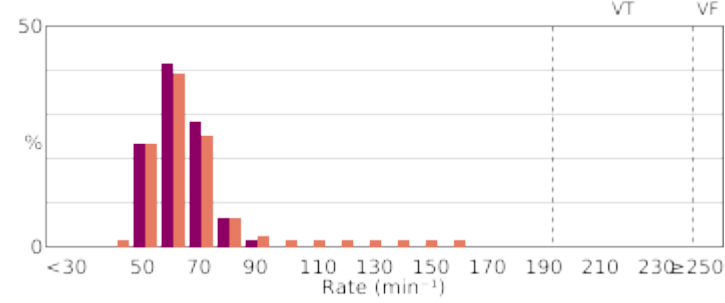
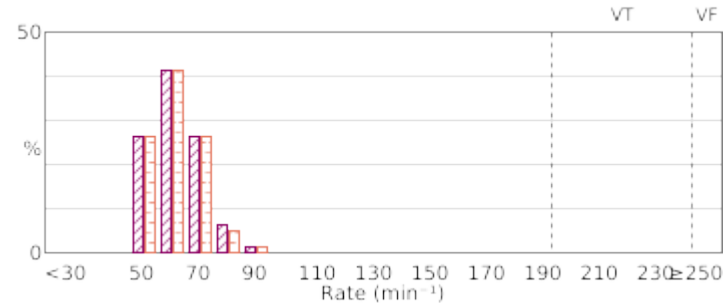
Reset Before Last
553 day(s)
17 May 2022 to 21 Nov 2023

Since Last Reset
194 day(s)
21 Nov 2023 to 03 Jun 2024

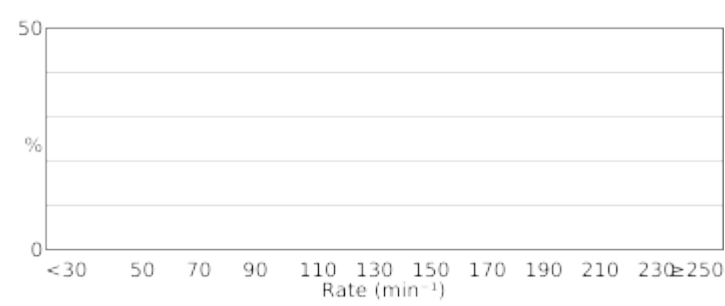
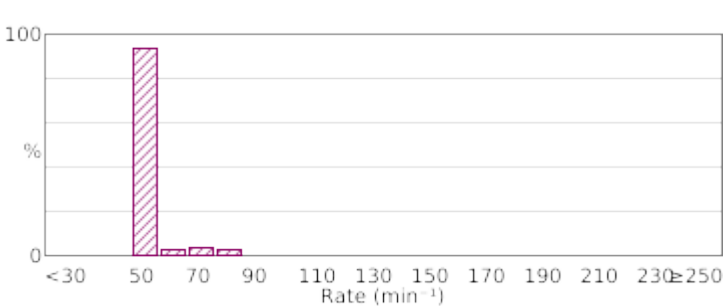
Atrial Activity



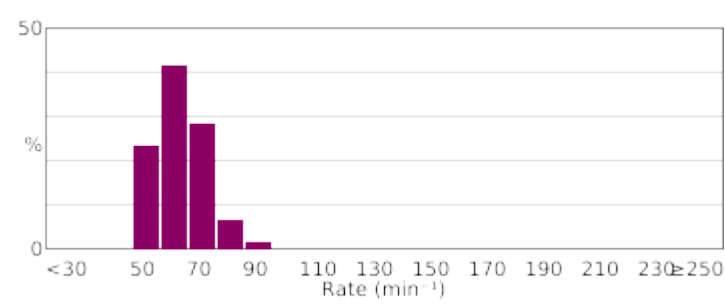
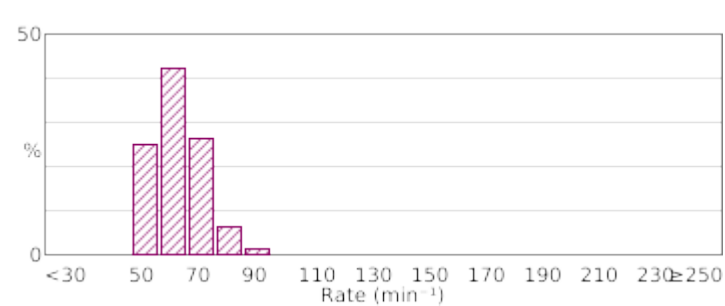
Ventricular Activity



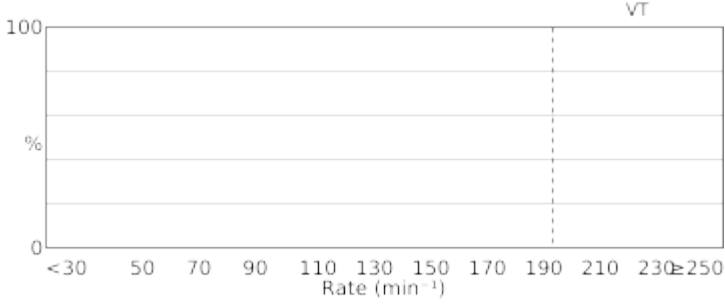
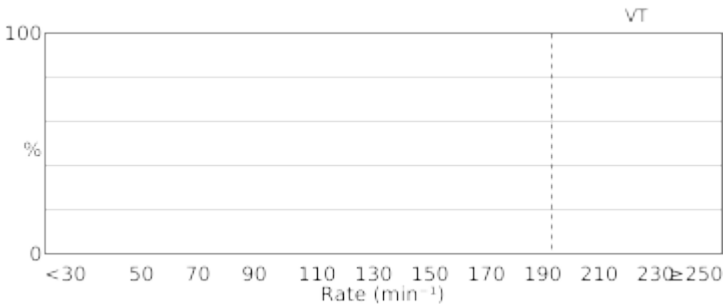
Ventricular Response to Atrial Pace



Ventricular Response to Atrial Sense



RV Rate during AT/AF



Histogram Rate Counts

Atrial	Reset Before Last 553 day(s) 17 May 2022 to 21 Nov 2023		Since Last Reset 194 day(s) 21 Nov 2023 to 03 Jun 2024	
	Rate (min ⁻¹)	Paced	Sensed	Paced
0-29	0	12	0	700
30-39	5	157	0	211
40-49	2.4K	2.5K	0	31.5K
50-59	464.8K	12.9M	0	4.3M
60-69	10.9K	21.4M	0	7.5M
70-79	18.9K	13.4M	0	5.2M
80-89	10.8K	2.9M	0	1.1M
90-99	2.8K	262.2K	0	126.5K
100-109	144	23.6K	0	9.8K
110-119	129	3.2K	0	1.6K
120-129	0	2.1K	0	1.2K
130-139	0	1.7K	0	803
140-149	0	878	0	405
150-159	0	413	0	199
160-169	0	393	0	145
170-179	0	210	0	60
180-189	0	67	0	35
190-199	0	49	0	8
200-209	0	28	0	6
210-219	0	18	0	1
220-229	0	10	0	1
230-239	0	12	0	0
240-249	0	7	0	0
>=250	0	86	0	0

Right Ventricular	Reset Before Last 553 day(s)		Since Last Reset 194 day(s)	
	17 May 2022 to 21 Nov 2023		21 Nov 2023 to 03 Jun 2024	
Rate (min ⁻¹)	Paced	Sensed	Paced	Sensed
0-29	0	0	0	0
30-39	0	0	0	0
40-49	550	4	15.2K	72.3K
50-59	13.5M	7.5K	0	4.3M
60-69	21.2M	26.1K	5.5K	7.4M
70-79	13.3M	115.2K	9.7K	5.2M
80-89	2.9M	83.4K	5.3K	1.1M
90-99	260.9K	74.4K	782	138.5K
100-109	23.0K	55.8K	104	36.5K
110-119	4.2K	82.8K	0	26.3K
120-129	2.3K	74.2K	0	16.0K
130-139	2.5K	5.9K	0	4.8K
140-149	0	2.8K	0	1.1K
150-159	0	2.0K	0	408
160-169	0	395	0	192
170-179	0	180	0	87
180-189	0	64	0	31
190-199	0	37	0	17
200-209	0	10	0	1
210-219	0	8	0	0
220-229	0	3	0	1
230-239	0	2	0	0
240-249	0	0	0	0
>=250	0	0	0	0

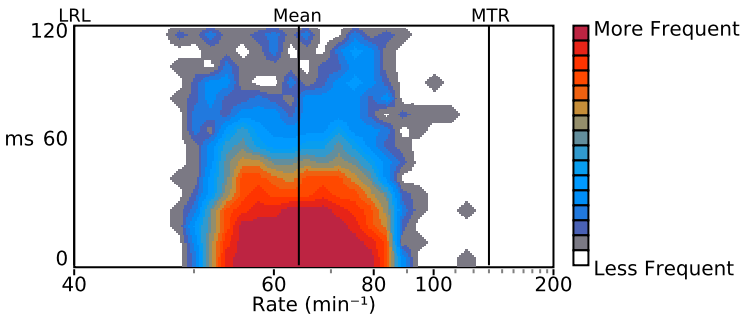
Reset Before Last 553 day(s)			Since Last Reset 194 day(s)	
Left Ventricular 17 May 2022 to 21 Nov 2023			21 Nov 2023 to 03 Jun 2024	
Rate (min ⁻¹)	Paced	Sensed	Paced	Sensed
0-29	6	505	672	18.9K
30-39	142	35	7.2K	20.4K
40-49	203.6K	3.2K	6.3K	132.3K
50-59	13.3M	10.9K	316	4.2M
60-69	21.0M	43.4K	2.1K	7.1M
70-79	13.2M	114.6K	4.1K	4.6M
80-89	2.8M	152.3K	2.2K	1.0M
90-99	263.6K	95.0K	544	296.7K
100-109	29.9K	109.4K	121	212.7K
110-119	11.4K	83.4K	67	186.2K
120-129	10.2K	64.1K	35	163.4K
130-139	9.8K	33.8K	33	141.6K
140-149	7.4K	12.9K	41	122.1K
150-159	653	6.1K	3	97.1K
160-169	0	4.4K	0	96.8K
170-179	0	3.9K	0	86.8K
180-189	0	3.5K	0	71.5K
190-199	0	2.9K	0	59.0K
200-209	0	2.7K	0	56.5K
210-219	1	2.0K	0	44.0K
220-229	1	2.0K	0	48.2K
230-239	0	1.4K	0	32.5K
240-249	0	0	0	0
>=250	5	0	0	0

Reset Before Last 553 day(s)			Since Last Reset 194 day(s)	
RV Rate during AT/AF 17 May 2022 to 21 Nov 2023			21 Nov 2023 to 03 Jun 2024	
Rate (min ⁻¹)	Paced	Sensed	Paced	Sensed
0-29	0	0	0	0
30-39	0	0	0	0
40-49	0	0	0	0
50-59	0	0	0	0
60-69	0	0	0	0
70-79	0	0	0	0
80-89	0	0	0	0
90-99	0	0	0	0
100-109	0	0	0	0
110-119	0	0	0	0
120-129	0	0	0	0
130-139	0	0	0	0
140-149	0	0	0	0
150-159	0	0	0	0
160-169	0	0	0	0
170-179	0	0	0	0
180-189	0	0	0	0
190-199	0	0	0	0
200-209	0	0	0	0
210-219	0	0	0	0
220-229	0	0	0	0
230-239	0	0	0	0
240-249	0	0	0	0
>=250	0	0	0	0

Heart Rate Variability

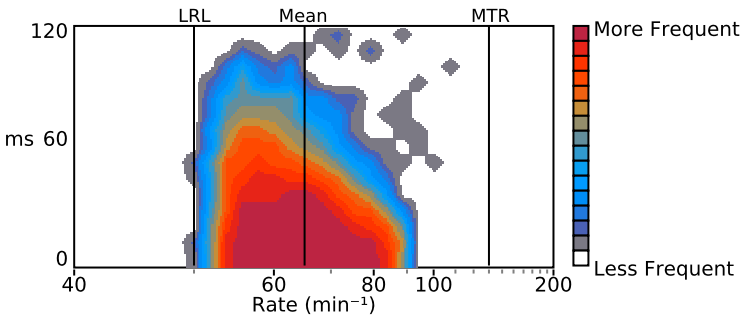
Last measured for 24-hr period ending 02 Jun 2024 17:24

% of Time Used	97
Footprint	38 %
SDANN	82 ms
Mode	VVI
Sensed AV Delay	100 ms
Ventricular Pacing Chamber	BiV
LV Offset	0 ms



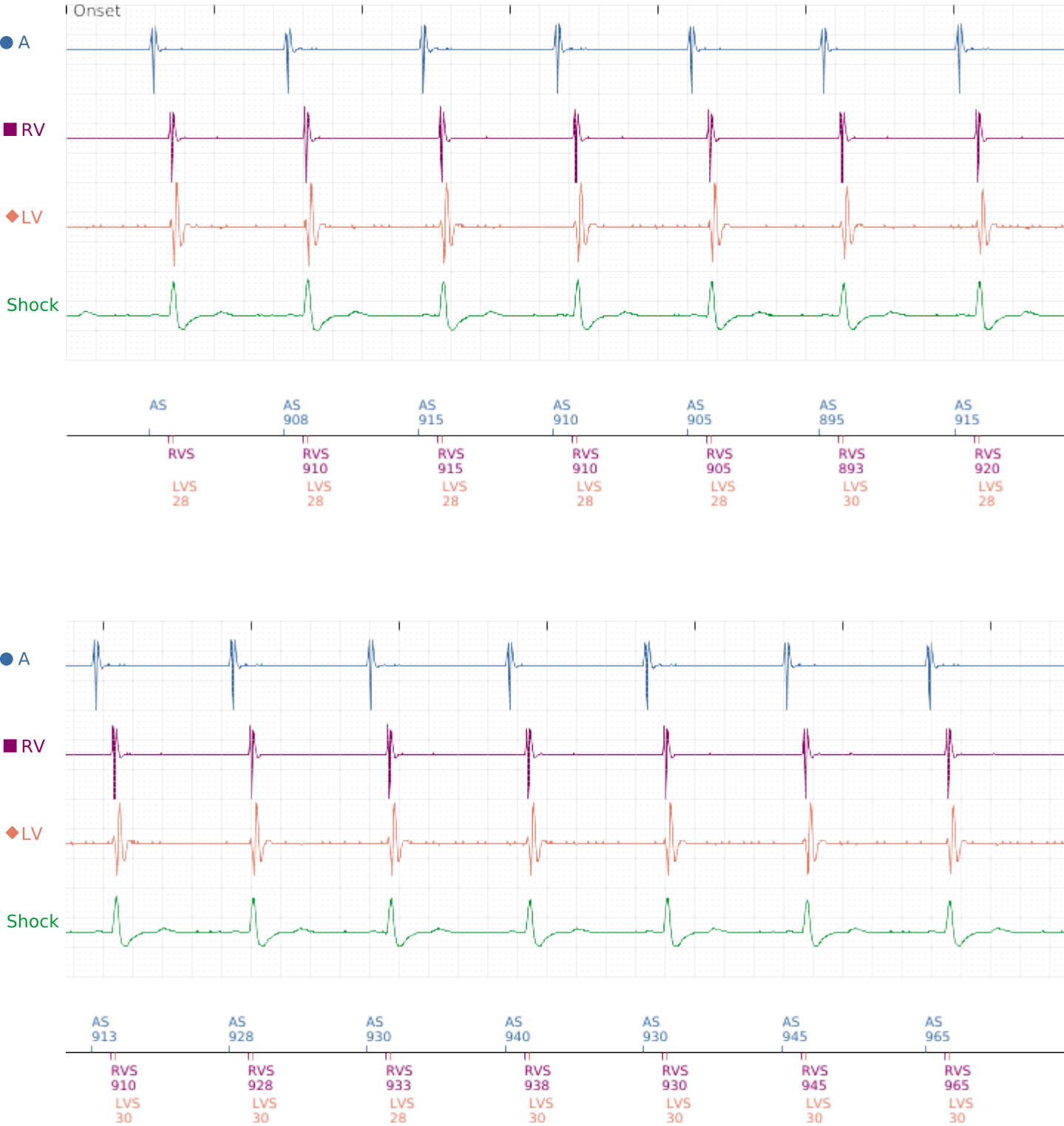
Reference: 24-hr period ending 13 Mar 2019 16:54

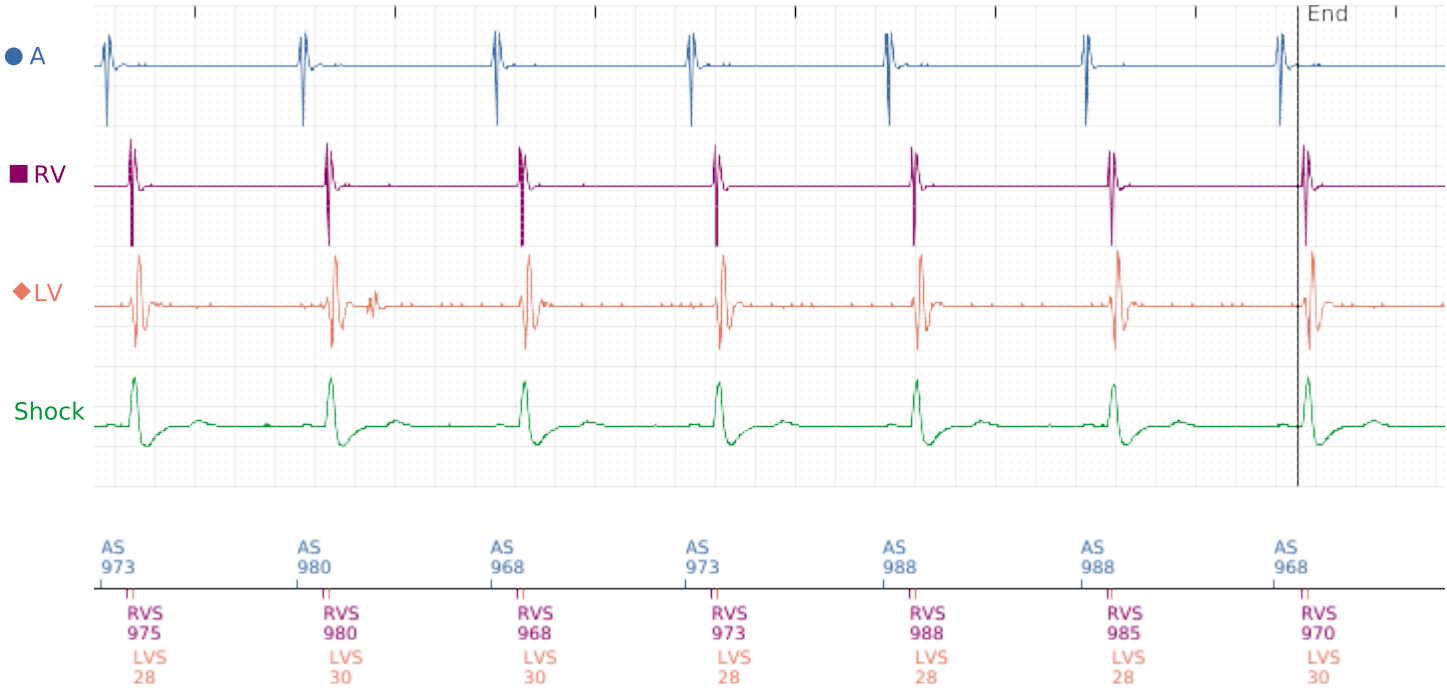
% of Time Used	99
Footprint	33 %
SDANN	85 ms
Mode	DDD
Sensed AV Delay	70 - 100 ms
Ventricular Pacing Chamber	BiV
LV Offset	0 ms

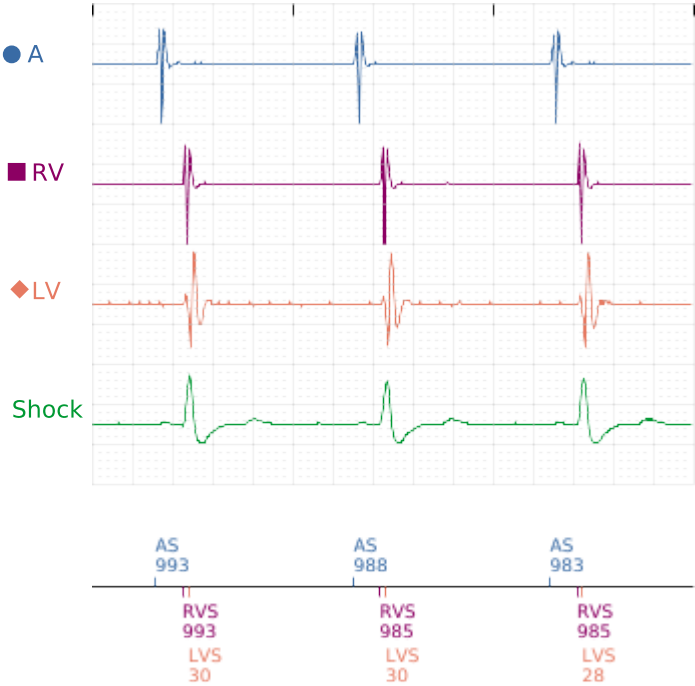


Presenting EGM (03 Jun 2024)

EGM displayed at 25mm per second







All Events Since Last Reset (21 Nov 2023)

02 Jun 2024 04:32	RV Auto
01 Jun 2024 08:32	LV Auto
03 Mar 2024 04:33	LV Auto
03 Mar 2024 04:32	RV Auto
29 Feb 2024 13:32	LV Auto
29 Feb 2024 13:32	RV Auto
14 Feb 2024 18:31	LV Auto
14 Feb 2024 16:32	RV Auto
06 Feb 2024 21:31	LV Auto
06 Feb 2024 19:32	RV Auto

Battery (Continued)

Last Delivered Shock	N/R	Time Since Implant	64 months
Energy	N/R	Charge Remaining	1.26 ampere-hours
Charge Time	N/R	Power Consumption	39 μ W
Shock Impedance	N/R	(Measured with programmed parameters)	
Beep when Explant is Indicated	On	This device is using 78% of the power it would use at the following parameters:	
	● A	15% pacing, 70 min ⁻¹ , 2.5 V, 0.4 ms, 500 Ω	
	■ RV	100% pacing, 70 min ⁻¹ , 2.5 V, 0.4 ms, 700 Ω	
	◆ LVa	100% pacing, 70 min ⁻¹ , 3.5 V, 0.4 ms, 700 Ω	
	◆ LVb		Off