

LATITUDE™ Patient Management - Combined Follow-up Report

Report Created: 01 Sep 2025



Date of Birth:

Device: **RESONATE X4 CRT-D**
G447/302319

Clinic: **CHU Haut Leveque Bordeaux HOPIT**

Search Tags:

Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **16 Dec 2024 02:22 CET**

Last Office Interrogation: **30 Oct 2024**

Implant Date: **17 May 2023**

Patient Group: **PATIENTS INACTIFS (Primary)**

My Alerts

16 Dec 2024 04:26



Cardiac Resynchronization Therapy pacing of < 85%. Pacing was 83% between 15 Dec 2024 04:25 and 16 Dec 2024 04:26.

For Technical Support contact 1-800-CARDIAC (Americas) or your local Boston Scientific Representative.

Events Since Last Reset (17 May 2023)

15 Dec 2024 15:57RA Auto

15 Dec 2024 15:56LV Auto

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

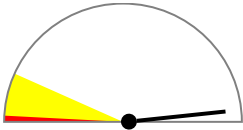
Battery

OK

Approximate time to explant: **7 years** from 16 Dec 2024

Last Capacitor Re-form Charge Time08 Nov 2024 00:4910.5 s

One Year Remaining

Explant

See last page for additional battery information.

Leads	Implant (17 May 2023)	Most Recent In-Office Measurement (30 Oct 2024)	Most Recent Daily Measurement (15 Dec 2024)
Atrial			
Intrinsic Amplitude	9.0 mV	7.7 mV	7.5 mV
Pace Impedance	500 Ω	536 Ω	538 Ω
Pace Threshold	0.4 V @ 0.4 ms	0.7 V @ 0.4 ms	0.5 V @ 0.4 ms
Right Ventricular			
Intrinsic Amplitude	4.0 mV	2.6 mV	N/R
Pace Impedance	450 Ω	304 Ω	300 Ω
Pace Threshold	0.4 V @ 0.4 ms	2.2 V @ 0.4 ms	2.6 V @ 0.4 ms
Left Ventricular			
Intrinsic Amplitude	15.0 mV	25.0 mV	24.3 mV
Pace Impedance (LVa)	500 Ω	603 Ω	617 Ω
Pace Impedance (LVb)		566 Ω	
Pace Threshold	1.7 V @ 0.4 ms	0.8 V @ 0.4 ms	0.7 V @ 0.4 ms
Shock			
Shock Impedance	65 Ω	70 Ω	66 Ω

G447 Firmware Version: H_v1.00.00(1.01)
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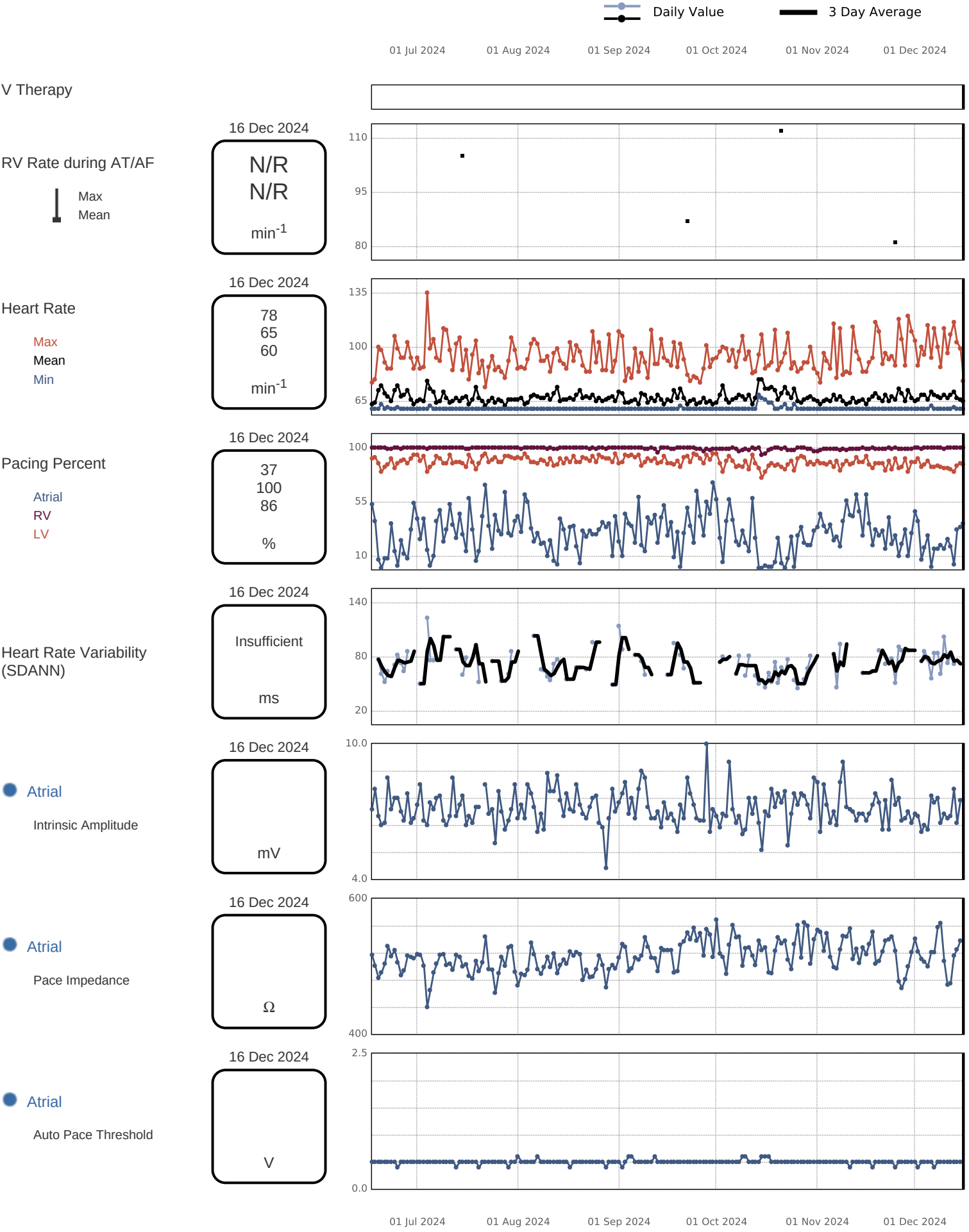
Clinician Signature

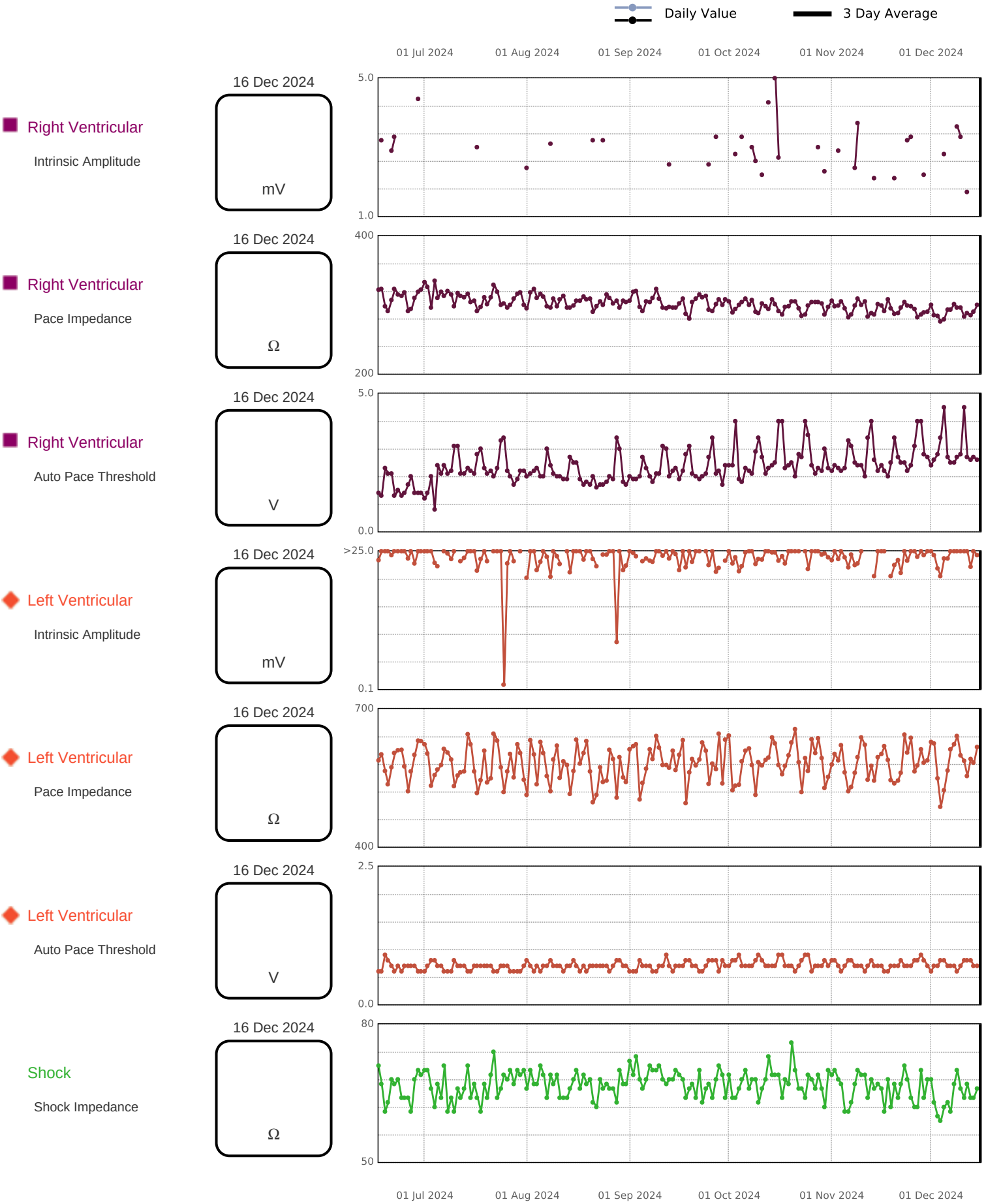
Last Successful Completion	N/R
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 Daily Value
 3 Day Average

01 Jul 2024 01 Aug 2024 01 Sep 2024 01 Oct 2024 01 Nov 2024 01 Dec 2024







Ventricular Tachy Counters	Since Last Reset 17 May 2023	Device Totals
Ventricular Episode Counters		
Total Episodes	1	1
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	1	1
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 0 day(s) 17 May 2023 to 17 May 2023	Since Last Reset 578 day(s) 17 May 2023 to 16 Dec 2024
Counters		
% A Paced	23	34
% RV Paced	96	99
% LVa Paced	88	88
% LVb Paced	0	0
Intrinsic Promotion		
Rate Hysteresis		
% Successful	0	0
Atrial Arrhythmia		
% AT/AF (One Year of Data)	N/R	<1
Total Time in AT/AF (min) (One Year of Data)	N/R	0.3
Episodes by Duration		
< 1 minute	1	5
1 min - < 1 hr	0	0
1 hr - < 24 hr	0	0
24 hr - < 48 hr	0	0
> 48 hr	0	0
Total PACs	21	6973
Ventricular Counters		
Total PVCs	13	347417
Three or More PVCs	1	1

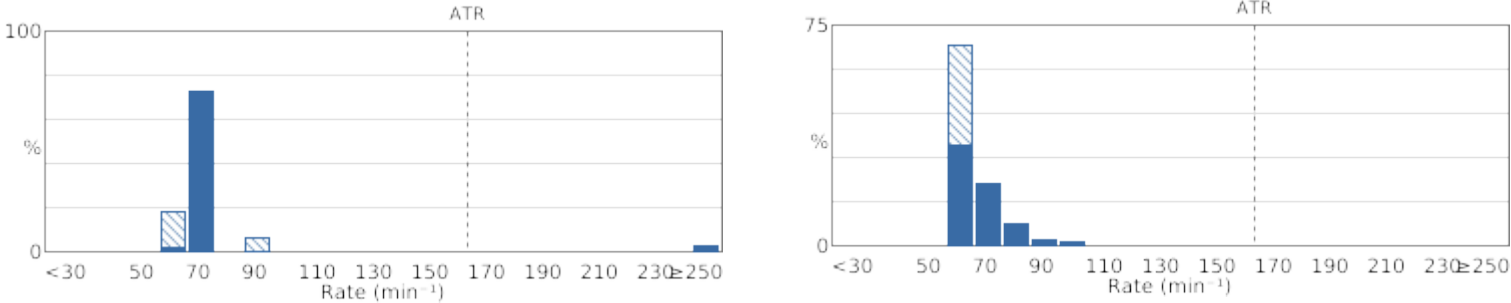
Clinical Counters	Since Last Reset 17 May 2023	Device Totals
MRI Protection Mode	0	0

AT/AF Overview: Since Last Reset (17 May 2023 to 16 Dec 2024)		
AT/AF (One Year of Data): <1 %	AT/AF Events: 5	
Total Time in AT/AF (min) (One Year of Data): 0.3		
Most Recent: 24 Nov 2024 02:37	Avg V Rate: 81 min ⁻¹	Duration: 00:00:04 hh:mm:ss
Longest: 24 Nov 2024 02:37	Avg V Rate: 81 min ⁻¹	Duration: 00:00:04 hh:mm:ss
Fastest RVS Rate: 24 Nov 2024 02:37	Max V Rate: N/R	Duration: 00:00:04 hh:mm:ss
AT/AF Overview: Reset Before Last (17 May 2023 to 17 May 2023)		
Longest: 17 May 2023 13:02	Avg V Rate: 97 min ⁻¹	Duration: 00:00:15 hh:mm:ss
Fastest RVS Rate: 17 May 2023 13:02	Max V Rate: 163 min ⁻¹	Duration: 00:00:15 hh:mm:ss

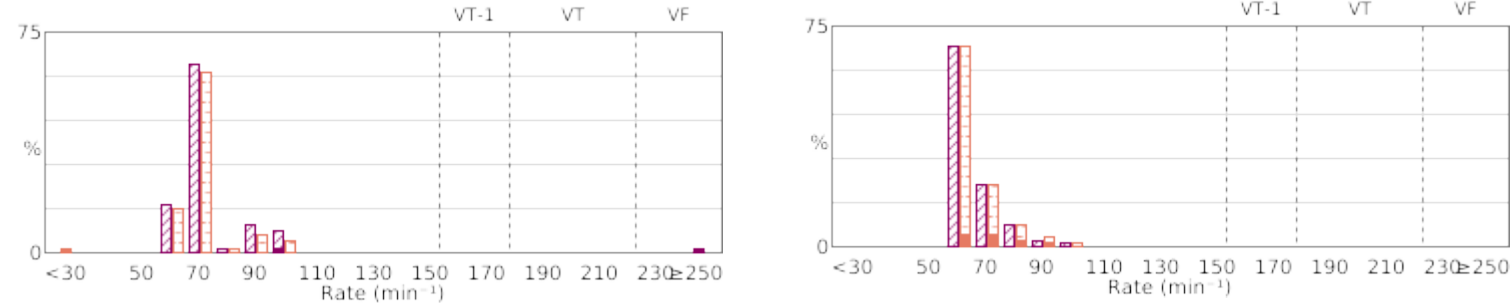
Histograms



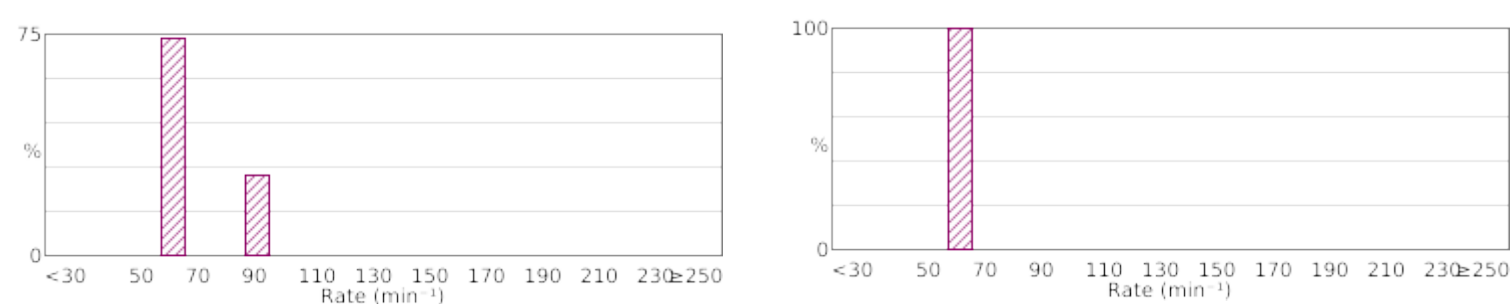
Atrial Activity



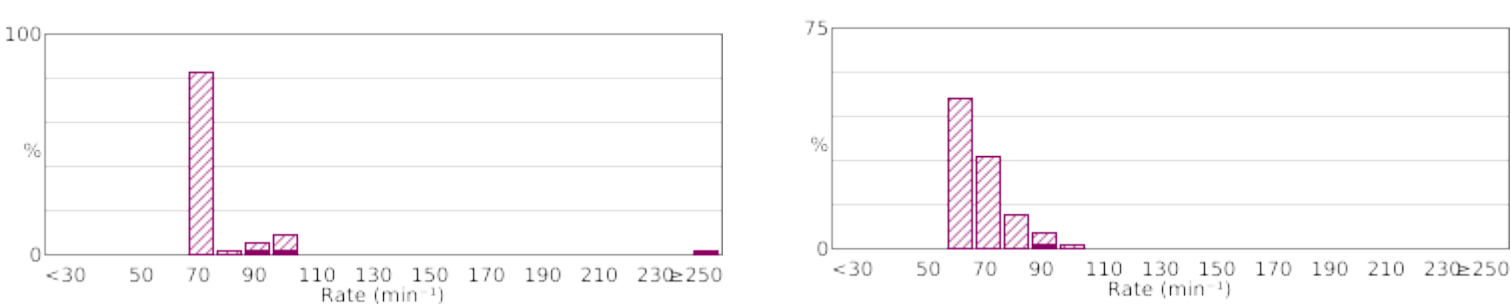
Ventricular Activity



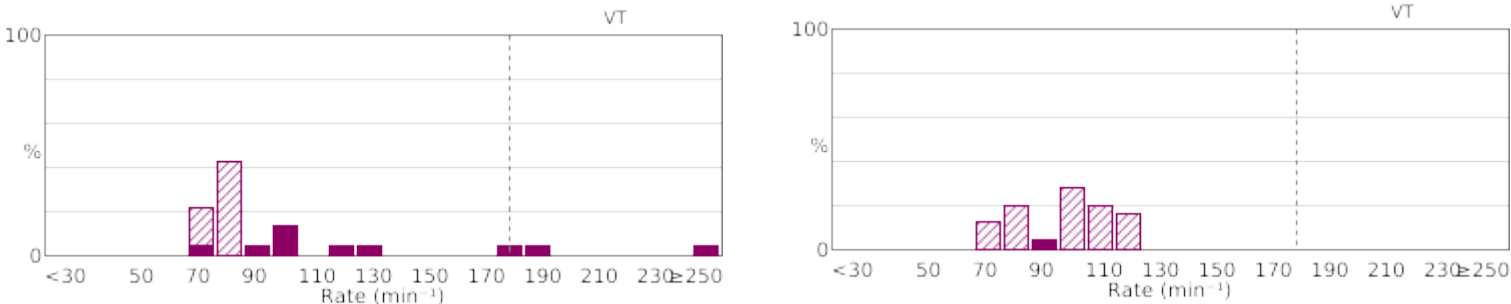
Ventricular Response to Atrial Pace



Ventricular Response to Atrial Sense



RV Rate during AT/AF



Histogram Rate Counts

Atrial	Reset Before Last 0 day(s)		Since Last Reset 578 day(s)	
	17 May 2023 to 17 May 2023		17 May 2023 to 16 Dec 2024	
Rate (min ⁻¹)	Paced	Sensed	Paced	Sensed
0-29	0	0	0	0
30-39	0	1	0	5.2K
40-49	0	2	0	106.5K
50-59	2	2	110.1K	56.0K
60-69	218	7	18.8M	18.9M
70-79	0	930	24.8K	11.4M
80-89	2	3	12.6K	3.8M
90-99	80	4	3.2K	1.3M
100-109	0	3	1.2K	430.6K
110-119	0	1	459	120.7K
120-129	0	1	0	33.3K
130-139	0	1	0	6.5K
140-149	0	2	0	2.2K
150-159	0	2	0	529
160-169	0	0	0	252
170-179	0	2	0	194
180-189	0	3	0	142
190-199	0	0	0	112
200-209	0	1	0	85
210-219	0	1	0	67
220-229	0	0	0	46
230-239	0	1	0	25
240-249	0	0	0	35
>=250	0	30	0	223

Right Ventricular	Reset Before Last 0 day(s) 17 May 2023 to 17 May 2023		Since Last Reset 578 day(s) 17 May 2023 to 16 Dec 2024	
	Rate (min ⁻¹)	Paced	Sensed	Paced
0-29	0	0	0	0
30-39	0	0	0	1
40-49	0	0	0	3
50-59	0	0	1.7K	3
60-69	228	3	37.8M	1.8K
70-79	912	2	11.4M	13.2K
80-89	15	3	3.8M	49.1K
90-99	122	7	1.4M	183.1K
100-109	89	12	450.1K	133.4K
110-119	1	3	125.6K	48.8K
120-129	1	3	32.6K	14.0K
130-139	5	1	4.2K	6.5K
140-149	0	2	0	3.1K
150-159	0	0	0	743
160-169	0	1	0	161
170-179	0	0	0	47
180-189	0	2	0	14
190-199	0	2	0	7
200-209	0	0	0	5
210-219	0	0	0	2
220-229	0	0	0	1
230-239	0	1	0	3
240-249	0	1	0	1
>=250	0	9	0	0

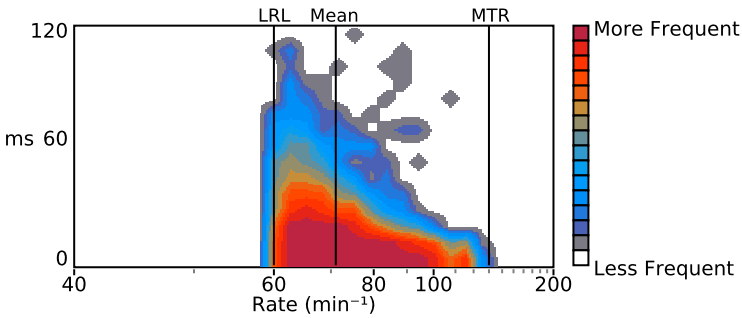
Reset Before Last 0 day(s) Left Ventricular 17 May 2023 to 17 May 2023			Since Last Reset 578 day(s) 17 May 2023 to 16 Dec 2024	
Rate (min ⁻¹)	Paced	Sensed	Paced	Sensed
0-29	0	13	0	339
30-39	0	2	59	27
40-49	0	1	144	70
50-59	2	5	140.8K	806
60-69	228	2	35.4M	2.2M
70-79	897	6	9.2M	2.3M
80-89	10	2	2.9M	1.1M
90-99	90	3	991.3K	543.6K
100-109	52	4	327.9K	229.1K
110-119	2	4	95.9K	82.7K
120-129	4	1	27.2K	14.2K
130-139	6	1	3.7K	6.0K
140-149	1	2	581	2.9K
150-159	0	1	13	782
160-169	0	0	2	160
170-179	0	1	2	47
180-189	0	1	0	16
190-199	0	1	0	6
200-209	1	1	1	19
210-219	0	0	0	427
220-229	1	1	1	2.8K
230-239	0	0	0	112
240-249	0	0	0	0
>=250	0	0	15	0

Reset Before Last 0 day(s) RV Rate during AT/AF 17 May 2023 to 17 May 2023			Since Last Reset 578 day(s) 17 May 2023 to 16 Dec 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	4	1	3	0
80-89	10	0	5	0
90-99	0	1	0	1
100-109	0	3	7	0
110-119	0	0	5	0
120-129	0	1	4	0
130-139	0	1	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	1	0	0
190-199	0	1	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	1	0	0

Heart Rate Variability

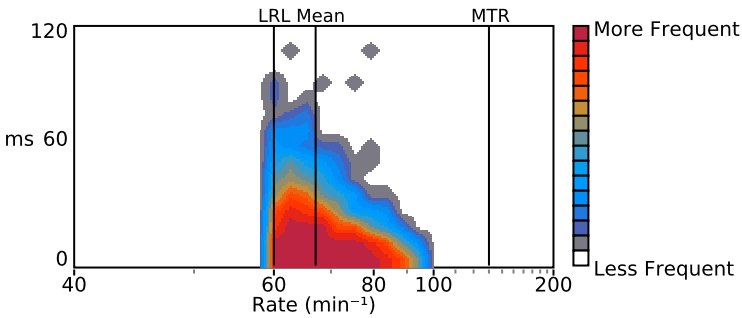
Last measured for 24-hr period ending 13 Dec 2024 01:46

% of Time Used	95
Footprint	22 %
SDANN	72 ms
Mode	DDD
Sensed AV Delay	90 - 130 ms
Ventricular Pacing Chamber	BiV
LV Offset	0 ms



Reference: 24-hr period ending 18 Jun 2023 00:55

% of Time Used	73
Footprint	16 %
SDANN	51 ms
Mode	DDD
Sensed AV Delay	90 - 130 ms
Ventricular Pacing Chamber	BiV
LV Offset	0 ms



Presenting EGM (16 Dec 2024)

EGM displayed at 25mm per second

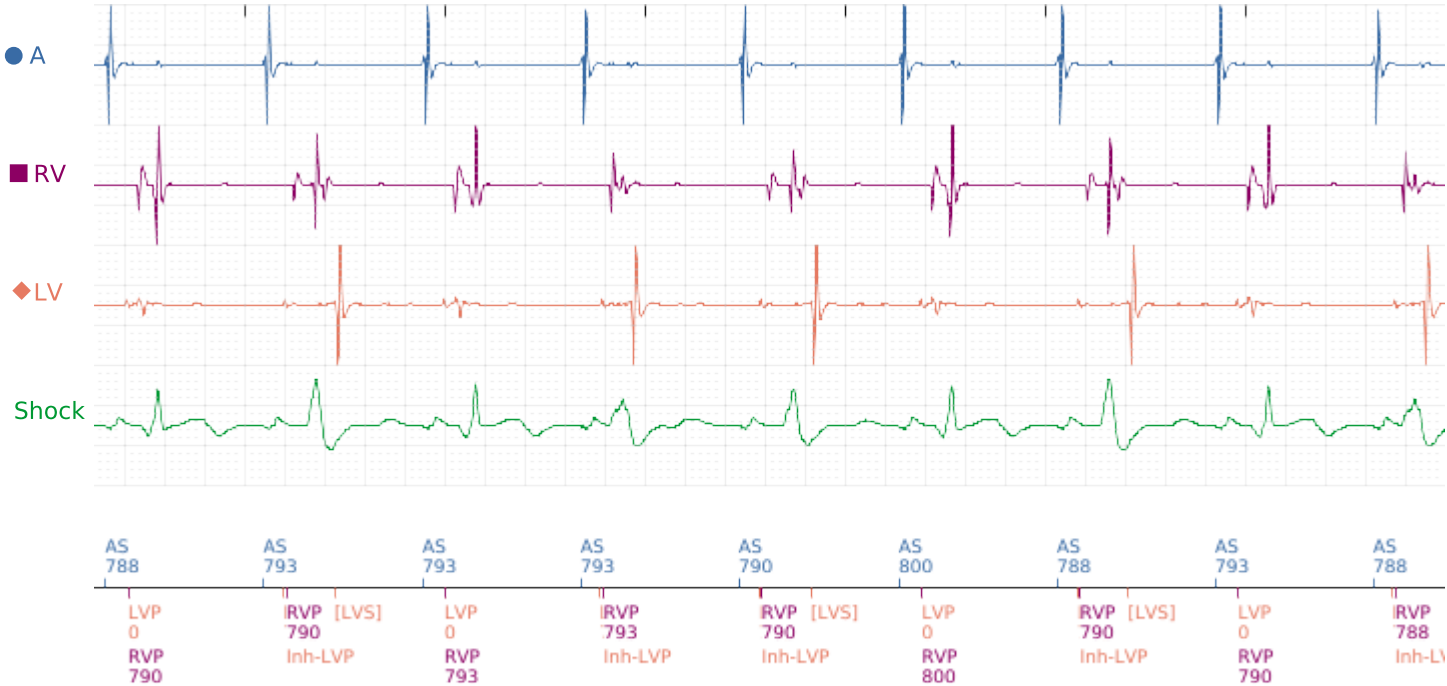
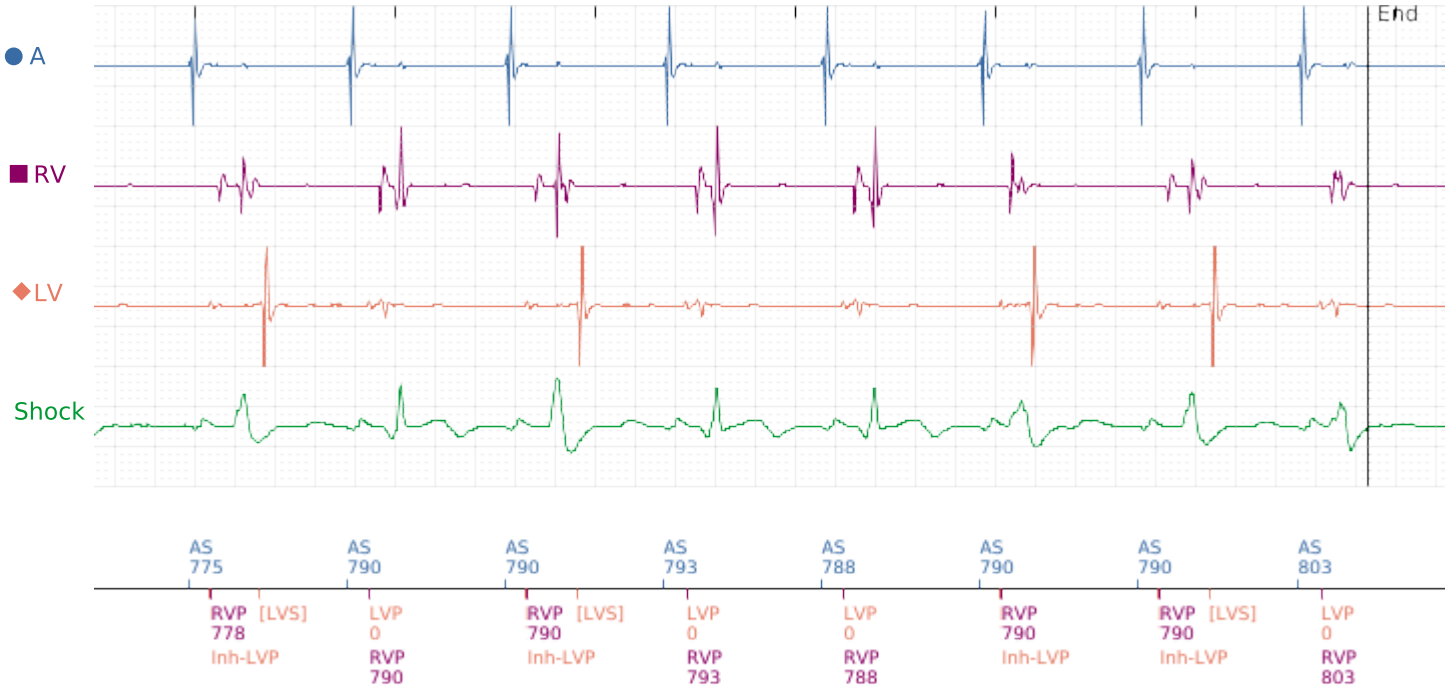


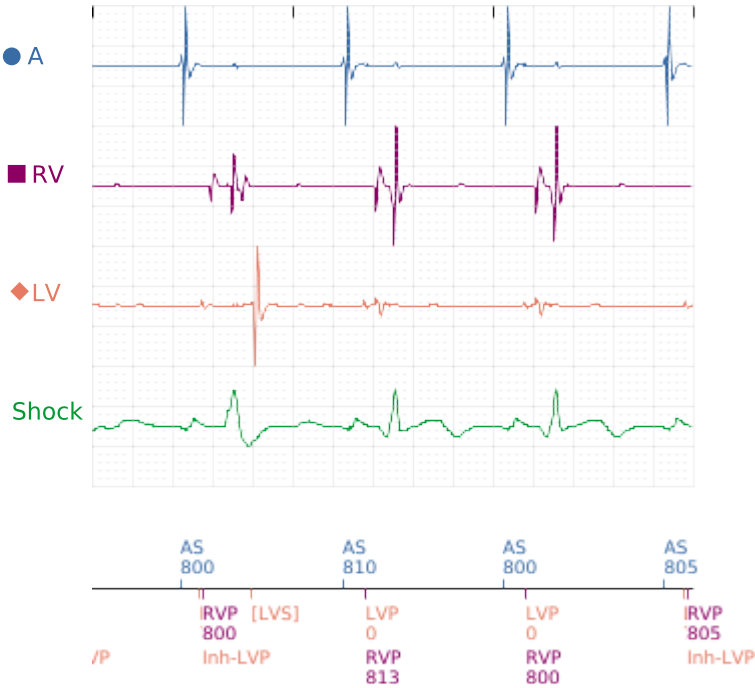
AS	AS 748	AS 748	AS 760	AS 753	AS 745	AS 743	AS 740	AS 738
[LVS]	LVP 0	RV [LVS]	LVP 0	RV [LVS]	LVP 0	RV [LVS]	LVP 0	LVP 0
RVP	RVP 748	Inh-LVP	RVP 748	Inh-LVP	RVP 745	Inh-LVP	RVP 740	RVP 738



AS 738	AS 740	AS 745	AS 750	AS 750	AS 758	AS 768	AS 770	AS 778
RVP [LVS]	LVP 0	RV [LVS]	LVP 0	LVP 0	RVP [LVS]	LVP 0	RV [LVS]	LVP 0
Inh-LVP	RVP 740	Inh-LVP	RVP 750	RVP 750	Inh-LVP	RVP 768	Inh-LVP	RVP 778

inactif-





All Events Since Last Reset (17 May 2023)

15 Dec 2024 15:57	RA Auto
15 Dec 2024 15:56	LV Auto
15 Dec 2024 15:50	RV Auto
08 Dec 2024 15:57	RA Auto
08 Dec 2024 15:56	LV Auto
08 Dec 2024 15:50	RV Auto
06 Dec 2024 00:57	RA Auto
06 Dec 2024 00:56	LV Auto
06 Dec 2024 00:50	RV Auto
01 Dec 2024 15:58	RA Auto
01 Dec 2024 15:56	LV Auto
01 Dec 2024 15:50	RV Auto
29 Nov 2024 00:56	RA Auto
29 Nov 2024 00:55	LV Auto
29 Nov 2024 00:50	RV Auto
24 Nov 2024 02:37	ATR at 195 min ⁻¹ , Avg V Rate in ATR: 81 min ⁻¹
20 Oct 2024 22:20	ATR at 189 min ⁻¹ , Avg V Rate in ATR: 112 min ⁻¹
21 Sep 2024 05:32	ATR at 202 min ⁻¹ , Avg V Rate in ATR: 87 min ⁻¹
14 Jul 2024 17:20	ATR at 182 min ⁻¹ , Avg V Rate in ATR: 105 min ⁻¹
03 Jul 2024 14:54	PMT at 130 min ⁻¹
03 Jul 2024 10:25	PMT at 130 min ⁻¹
03 Jul 2024 10:25	PMT at 130 min ⁻¹
03 Jul 2024 10:25	PMT at 130 min ⁻¹
04 Apr 2024 16:08	PMT at 130 min ⁻¹
07 Nov 2023 09:45	NonSustV at 170 min ⁻¹ , Nonsustained
21 Oct 2023 11:37	ATR at 182 min ⁻¹ , Avg V Rate in ATR: 128 min ⁻¹
Total Events: 1 NonSustV, 5 ATR	

Battery (Continued)

Last Delivered Shock	N/R	Time Since Implant	19 months
Energy	N/R	Charge Remaining	1.71 ampere-hours
Charge Time	N/R	Power Consumption	66 µW
Shock Impedance	N/R	(Measured with programmed parameters)	
Beep when Explant is Indicated	On	This device is using 132% 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	