

FastPath™ Summary



Page 1 of 1

Battery Longevity: 2,7 yrs

~ERI > 5 yrs

Implant Date:

11 Feb 2020

Last Max Charge Battery Current 2,4 sec (Therapy)

Battery Current 27 uA Remaining Capacity to ERI 56%

Test Results 8 Mar 2022

Automatic

Capture Sense Lead Impedance

 A
 Not Performed
 Not Performed
 360 Ω (Bi)
 Φ

 0,5V @ 0,5ms (Bi) 15 Dec 2021
 1,4mV (Bi) 5 Mar 2022
 360 Ω (Bi) 4 Mar 2022

RV Not Performed Not Performed 360 Ω (Bi) 4 Mar 2022 0,5ms (Bi) 15 Dec 2021 >12,0mV (RV Bi) 5 Mar 2022 390 Ω (Bi) 4 Mar 2022

 LV
 Not Performed
 380 Ω (LVT-RVC)
 460 Ω (LVT-RVC)

 0,75V @ 0,5ms (LVT-RVC)
 450 Ω (LVT-RVC)
 460 Ω (LVT-RVC)

HV30 Ω (RV to SVC & Can) 4

33 Ω (RV to SVC & Can) 5 Mar 2022

Parameters				
Mode	DDDR	Zone Configuration	VT	VF
Base Rate	▶75 bpm	Detection Criteria	171 bpm	200 bpm
Max Track Rate	110 bpm	Therapy (ENABLED)	ATP x3	ATP x1
Paced AV Delay	180 ms		25,0 J	36,0 J
Sensed AV Delay	150 ms		36,0 J	40,0 J
Ventricular Pacing	LV→RV,6	0 ms	40,0 J x2	40,0 J x4

Capture & Sense	Α	RV	LV
Cap Confirm	Off	Off	Off
Pulse Amplitude	2,0 V	2,0 V	2,75 V
Pulse Width	0,5 ms	0,5 ms	0,5 ms
AutoSense	On	On	
Sensitivity	Auto 🛭	Auto 🙆	

Diagnostics Summary	Since 8 Mar 2022	VT/VF Episodes: 0	Since 5 Mar 20	022	
AP	99 %		VT	VF	
BP	99 %	Episodes	0	0	
		ATP Delivered	0	0	
AMS Episodes	1	Shocks Delivered	0	0	
Mode Switch	<1%				
AT/AF Burden	0%	SVT Episodes: 0			

Alerts



LV. Lead Type is Uncoded



Episodes Summary

Page 1 of 1

Episodes Last Cleared	11 Feb 2020 11:15
SEGMs Last Cleared	11 Feb 2020 11:15

Last Read

8 Mar 2022 15:52

Therapy	Sum	mary
---------	-----	------

	V I	VF
ATP Delivered	0	14
Shocks Delivered	0	22
Max Energy Shocks	0	2

 $33\,\Omega$

Episodes Terminated Episodes Not Terminated Accelerations

Results of ATP Delivery

VT VF 4 0 10 0

Last HV Lead Impedance

Total Aborted Shocks 7

Episode Tree

No tachyarrhythmia episodes detected

VT/VF Episodes

No episodes recorded since last session

Other	

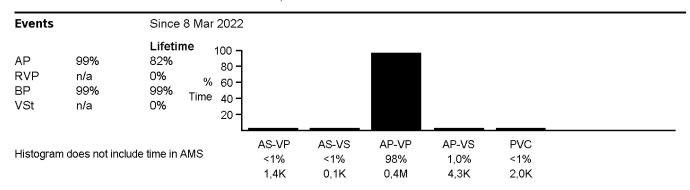
Date / Time	Туре	Peak A / V Rate	Duration	Alerts
		(bpm)	(D:H:M:S)	
7 Mar 2022 16:28	AMS	202 / 91	0:00:00:08	

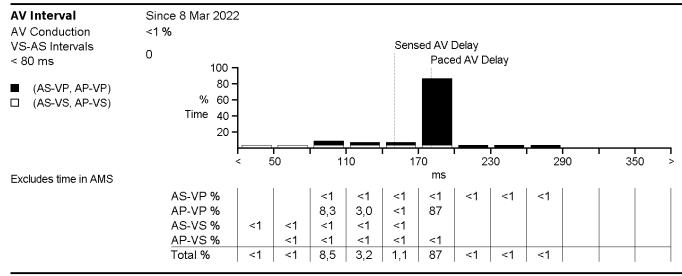
Page 1 of 4

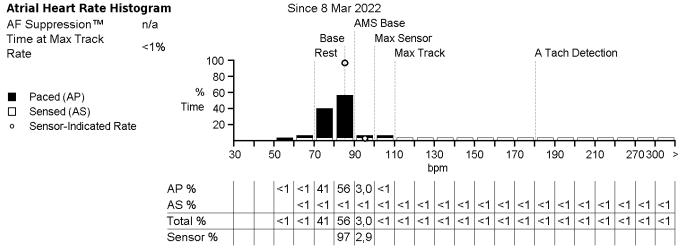
Parameters

ModeDDDRMax Track Rate110 bpmBase Rate85 bpmPaced/Sensed AV Delay180/150 ms

Max Sensor Rate 100 bpm

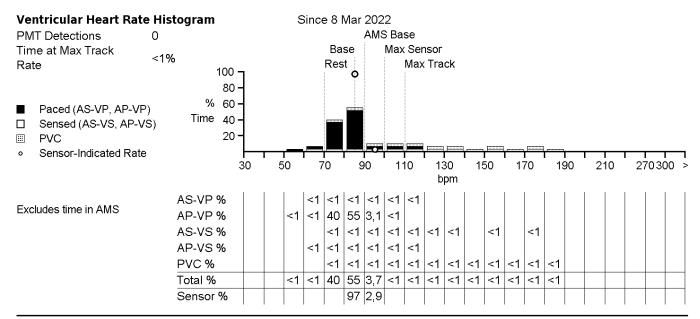






Page 2 of 4

In-Clinic



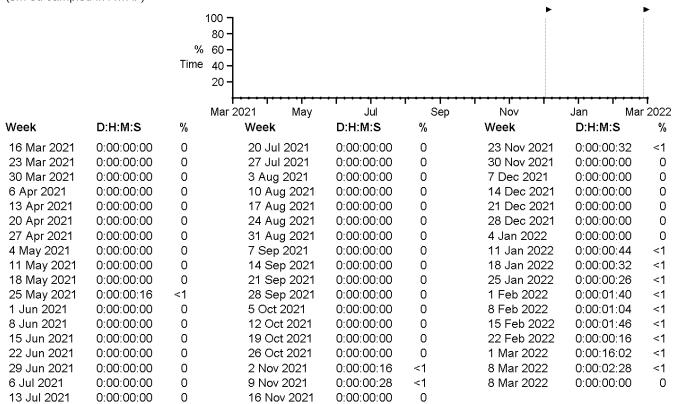
AT/AF Burden

0%

Since 8 Mar 2022

Total AT/AF Burden <1% Since 11 Feb 2020

(0m 0d sampled in AT/AF)

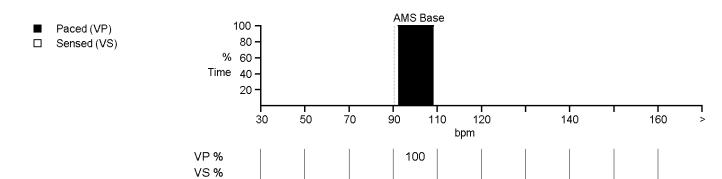


Programming

In-Clinic
Page 3 of 4

V Rates During AMS

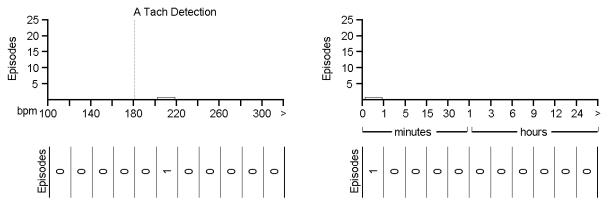
Since 8 Mar 2022



100

AMS Summary Since 8 Mar 2022 AMS Episodes 1
Mode Switch <1%
Peak A Rate Duration

Total %

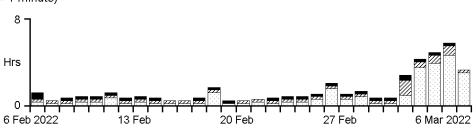


Key AMS Log Episodes	Date and Time	Peak A Rate	Peak V Rate	Duration (D:H:M:S)
Most Recent Episode	7 Mar 2022 16:28	202 bpm	91 bpm	0:00:00:08
Peak V Rate Episode	7 Mar 2022 16:28	202 bpm	91 bpm	0:00:00:08
Longest Episode	7 Mar 2022 16:28	202 bpm	91 bpm	0:00:00:08

AMS Log				
EGMs ᡯ	Date and Time 7 Mar 2022 16:28	Peak A Rate 202 bpm	Peak V Rate 91 bpm	Duration (D:H:M:S) 0:00:00:08
_	7 IVIAI 2022 10.20	202 bpm	a i phili	0.00.00.06

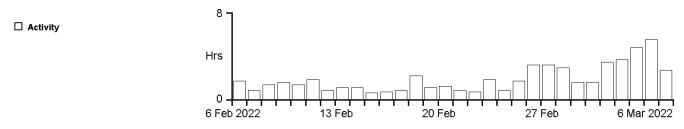
Daily Exercise Training (Activity >1 minute)



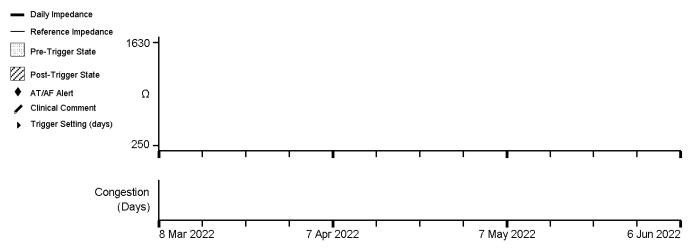


Page 4 of 4

Total Daily Activity



CorVue™ Congestion Monitoring is OFF (3 Month View)



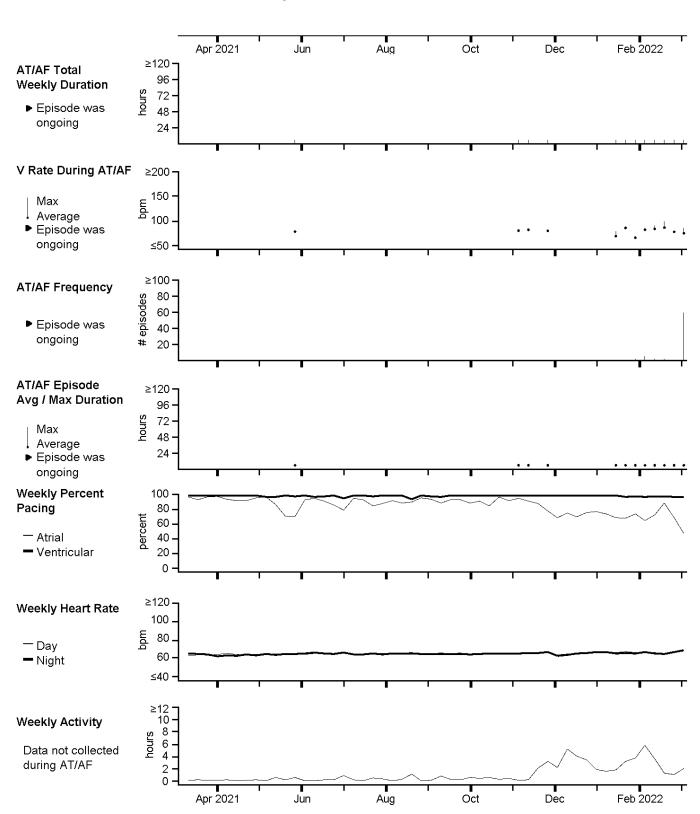
CorVue™ Congestion Monitoring is an additional information source for patient management. It is not meant to replace clinical assessments that are part of standard clinical practice.

Congestion Details (Last Session: 5 Mar 2022)

No Congestion Episodes recorded

DirectTrend™ 1 Year Weekly

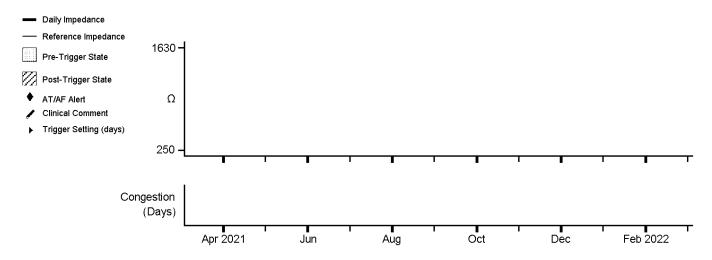
Page 1 of 2



DirectTrend™ 1 Year Weekly

Page 2 of 2

CorVue™ Congestion Monitoring is OFF



CorVue™ Congestion Monitoring is an additional information source for patient management. It is not meant to replace clinical assessments that are part of standard clinical practice.



Implanting Physician: Kozak

Test Results: Atrium

Page 1 of 4

Atrial Capture Test

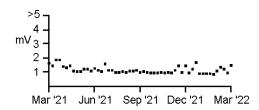
No result recorded 0,5 V @ 0,5 ms (Bi)

Atrial Sense Test

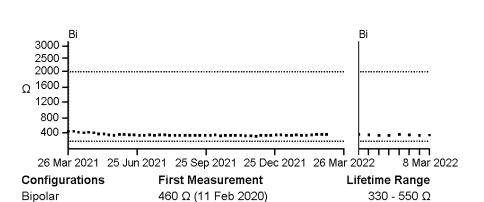
8 Mar 2022 15 Dec 2021 No result recorded 1,4 - 1,6 mV (Bi)

8 Mar 2022 5 Mar 2022

Atrial Sense Amplitude Trend



Atrial Lead Impedance: 360 Ω (Bi) 8 Mar 2022 1-year trend Last 7 Days



Programmed Pulse Bipolar Configuration Lead Monitoring Monitor

Lower Limit 200 Ω

Upper Limit 2.000Ω



Test Results: Right Ventricle

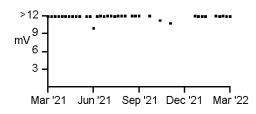
Page 2 of 4

Right Ventricular Capture Test

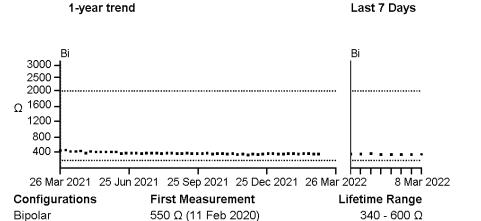
Ventricular Sense Test

No result recorded 0,5 V @ 0,5 ms (Bi) 8 Mar 2022 15 Dec 2021 No result recorded 11,9 - >12,0 mV (RV Bi) 8 Mar 2022 5 Mar 2022

RV Sense Amplitude Trend



Right Ventricular Lead Impedance: 360 Ω (Bi) 8 Mar 2022



Programmed Pulse Bipolar Configuration Lead Monitoring Monitor

Lower Limit 200 Ω

Upper Limit 2.000Ω



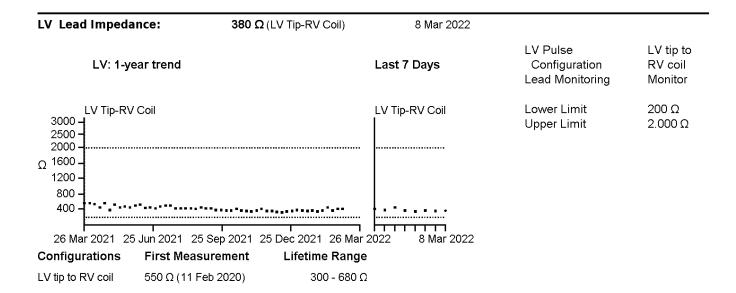
Test Results: Left Ventricle

Page 3 of 4

Left Ventricular Capture Test

 No result recorded
 8 Mar 2022

 0,75 V @ 0,5 ms (LVt-RVc)
 15 Dec 2021



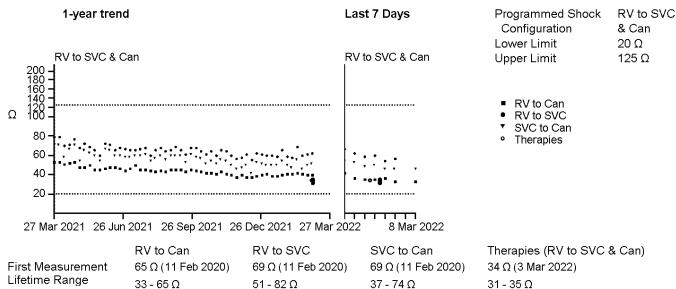


Test Results: HV Lead Impedance and Battery

Page 4 of 4

HV Lead Impedance:

30 Ω (RV to SVC & Can) 8 Mar 2022



Battery Information

Longevity: 2,7 yrs



Last Max Charge

2,4 sec (Therapy)

Longevity estimate is based on patient history

Battery Current 27 uA Remaining Capacity to ERI 56%

Page 1 of 1



Presenting Rhythm Freeze

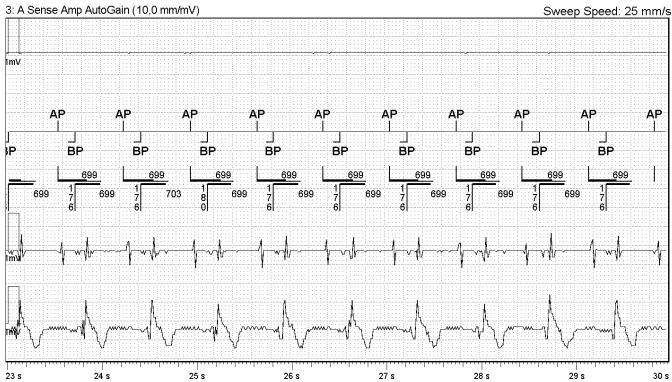
8 Mar 2022 15:52

Key Parameters

Mode DDDR Base Rate 85 bpm 70 bpm Rest Rate 180 ms Paced AV Delay 150 ms Sensed AV Delay Max Track Rate 110 bpm Max Sensor Rate 100 bpm Hysteresis Rate Off ACap™ Confirm Off RVCap™ Confirm Off LVCap™ Confirm Off AF Suppression™ Off Negative AV Hysteresis/Search -40 ms Rate Responsive AV Delay Medium Rate Responsive PVARP/V Ref Low Ventricular Safety Standby On

- 1: II AutoGain (100,0 mm/mV)
- 2: Markers

4: RV Bipolar AutoGain (10,0 mm/mV)





Page 1 of 4

Parameters

Patient Date of Birth EF %	10 Mar 1944 Unknown	Indications for In	nplant			
Device CRT-D A Lead RV Lead LV Lead	Manufacturer St. Jude Medical	Model Unify™ 3235-40		Serial 9867222	Implant Date 11 Feb 2020	
Basic Operation Mode Ventricular Pacing V. Triggering Magnet Response V. Noise Reversion Mode Episodal Pacing Mode Sensor Threshold (Measured Avg.) Slope Max Sensor Rate Reaction Time Recovery Time		DDDR LV→RV, 60 ms Off Normal Pacing Off VVI On Auto (+0.0) (2,0) 8 100 bpm Slow Medium	Rate Responsive PVARP/V Ref Shortest PVARP/V Ref A/V Pace Refractory A/V Sense Refractory Ventricular Blanking		275 ms 120 ms Low 225 ms 190/250 ms 93/125 ms 52 ms On 3 intervals Off Atrial Pace 110 bpm	
Rates Base Rate Rest Rate Max Sensor Rate Max Track Rate Hysteresis Rate 2:1 Block Rate		▶ 75 bpm 70 bpm 100 bpm 110 bpm Off 164 bpm	AMS V. Triggering Off A. Tachycardia Detection Rate 180		180 bpm 90 bpm	
Delays Paced AV Delay Sensed AV Delay Rate Responsive Shortest AV Dela Negative AV Hyst	AV Delay y	180 ms 150 ms Medium 100 ms -40 ms	•			
Capture & Sens Cap Confirm Pulse Amplitude Pulse Width AutoSense Sensitivity	e	A Off 2,0 V 0,5 ms On Auto 4	RV Off 2,0 V 0,5 ms On Auto	LV Off 2,75 V 0,5 ms		



nysician: Kozak In-Clinic

Parameters	Page 2 of 4

Leads	Α	RV	LV
Lead Type	Bipolar	Bipolar	Uncoded
Pulse Configuration	Bipolar	Bipolar	LV tip to RV coil
Sense Configuration	Bipolar	R	V Bipolar
Lead Monitoring	Monitor	Monitor	Monitor
Lower Limit	200 Ω	200 Ω	200 Ω
Upper Limit	2.000 Ω	2.000 Ω	2.000 Ω
HVLI Lower Limit		20 Ω	
HVLI Upper Limit		125 Ω	

ShockGuard™ Settings (Zone Configuration)

Detection Criteria	171 bpm/350 ms 16 intervals	200 bpm/300 ms 12 intervals
SVT Discrimination	On	

ATP x3	ATP x1
25,0 J/704 V	36,0 J/845 V
36,0 J/845 V	40,0 J/890 V
40,0 J/890 V x2	40,0 J/890 V x4
	25,0 J/704 V 36,0 J/845 V

VT Therapy Timeout Off

SVT Discrimination

SVT Discrimination Dual Chamber

SVT Discrimination Timeout Off

SVT Upper Limit Same as VF

Rate Branch	ו		Add	itional Discriminators		Diagnosis
AF/A Flutter	<u>.</u>	Morphology		Interval Stability		Deliver therapy only if
V < A		Morphology	Off	Interval Stability Stability Delta AV Association Delta Window Size	On w/AVA 40 ms 60 ms 12 intervals	the criteria in this rate branch indicate VT.
Sinus Tach V = A: AV Interval Delta:	On 60 ms	Morphology Morphology	Off	Sudden Onset Sudden Onset Onset Delta	On 100 ms	Deliver therapy only if the active criteria in this rate branch indicate VT.
VT/VF V > A						If Ventricular Rate is greater than the Atrial Rate, deliver therapy.

Vanickova Ruzena ID 445310432 Unify™ 3235-40 CRT-D 9867222 Implanting Physician: Kozak

8 Mar 2022 15:55 In-Clinic

Page 3 of 4

Parameters

ATP Details

ATP Pulse Amplitude 7.5 V ATP Pulse Width 1,0 ms

Therapy 1 Therapy 2 ATP Type ATP Upper Rate Cutoff Number of Bursts 3 8 Number of Stimuli Off Add Stimuli per Burst Burst Cycle Length 85 % Min. Burst Cycle Length 200 ms Readaptive Off Scanning On (Dec) Scan Step 10 ms

Off

Therapy 1 ATP While Charging 250 bpm/240 ms 8 85 % 170 ms

SenseAbility™ Settings

Ramp

RV Α **Pacemaker** Defib 0.3 mV Max Sensitivity Same as Defib $0.5\,\mathrm{mV}$ (0,3 mV @ 110 bpm) (0,5 mV @ 110 bpm) (0,5 mV @ 110 bpm)

Off

Low Frequency Attenuation

Decay Delay

Threshold Start

Post-Sensed Post-Paced Post-Sensed Post-Paced 0 ms 0 ms 60 ms 95 ms 50 % 0,8 mV 50 % 1,0 mV

Same as Defib

DeFT Response™ Settings (Shock Waveform)

Waveform **Biphasic** Waveform Mode Tilt

RV to SVC & Can **Shock Configuration**

RV Polarity Anode(+)

1st Phase 2nd Phase VF Shocks (Defib) 65 % 65 %

VT Shocks (CVRT) Same as Defib

3,7 ms Estimated Defib Pulse Width 3,7 ms Estimated CVRT Pulse Width

Shock Impedance 30 Ω (Measured)

Post-Shock Pacing Redetection & Post-Detection

Mode DDD VT Redetection 6 intervals Base Rate 60 bpm Sinus Redetection Nominal (5 intervals)

Pause 2 sec Post VF Detection Same as VT

Duration 0,5 min Post VT Detection Same as VT

вν **Capacitor Maintenance** Α Pulse Amplitude 7,5 V 7,5 V Charge Interval 4 months

Pulse Width 1,5 ms 1,5 ms

Last Programmed: Today 15:53 Bold values were changed this session (See Parameters that are "n/a" are not shown Wrap-up™ Overview report for details)

▶ Manual-programmed ♣ Auto-programmed

On





In-Clinic
Page 4 of 4

Parameters

Congestion Monitoring

Congestion Monitoring

Off

Trigger Alerts When	Show on FastPath™	Notify Patient
AT/AF Episode (3 hours)	On	Off
AT/AF Burden (6 hours evaluated daily)	On	Off
V Rate during AT/AF (100 bpm for 6 hours, evaluated daily)	On	Off
A Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
RV Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
LV Lead Impedance Out of Range (200 - 2.000 Ω)	On	On
HV Lead Impedance Out of Range (20 - 125 Ω)	On	On
Percent BiV Pacing Alert (<90% over 7 days)	On	Off
Device at ERI	On	On
Charge Time Limit Reached (32 sec)	On	On
Possible HV Circuit Damage	On	On
Device Parameter Reset	On	On
Backup VVI	On	On

Patient Notifier Delivery

Vibration Duration 6 sec
Number of Notifications 4
Time Between Notifications 10 hours

Episode Triggers		Stored EGM Configuration	
Atrial Episode (AMS)	Low	VT/VF EGM Max Duration	1 min
VT (Detection)	High	VT/VF Pre-Trigger Max Duration	14 sec
VF (Detection)	High	Channels (Storage)	2 (22 min)
PMT	Off	Channel 1	A Sense Amp
Noise Reversion	Off	Channel 2	V Sense Amp
Magnet Response	Low		·

Vanickova Ruzena ID 445310432 Unify™ 3235-40 CRT-D 9867222 Implanting Physician: Kozak

8 Mar 2022 15:55 In-Clinic

Wrap-up™ Overview

1 Alert

Page 1 of 1

Patient

Indications for Implant

Date of Birth EF %

10 Mar 1944 Unknown

Implant Physician

Kozak

Device Manufacturer CRT-D St. Jude Medical Model

Unify™ 3235-40

Serial 9867222 Implant Date 11 Feb 2020

A Lead **RV** Lead LV Lead

Battery

Longevity: 2,7 yrs

Test Results

Last Max Charge Battery Current Remaining Capacity to ERI 2,4 sec (Therapy) 27 uA 56%

Longevity estimate is based on

patient history

~ERI

8 Mar 2022

Sense

Automatic

Capture

360 Ω (Bi) **4**

Α Not Performed Not Performed

Lead Impedance

RV Not Performed Not Performed

360 Ω (Bi) **4**

LV Not Performed 380 Ω (LVT-RVC) 4

HV

30 Ω (RV to SVC & Can) **4**

Parameters

Mode Base Rate Max Track Rate Paced AV Delay Sensed AV Delay Ventricular Pacing

DDDR ▶75 bpm 110 bpm 180 ms 150 ms

LV→RV, 60 ms

Zone Configuration **Detection Criteria** Therapy (ENABLED)

VT 171 bpm ATP x3 25,0 J 36.0 J 40,0 J x2 200 bpm ATP x1 36,0 J 40.0 J

40,0 J x4

Programming Changes

Initial 85 bpm

Final ▶75 bpm

Alerts

Base Rate



LV. Lead Type is Uncoded

- ▶ Manual-programmed
- ▶ Auto-programmed