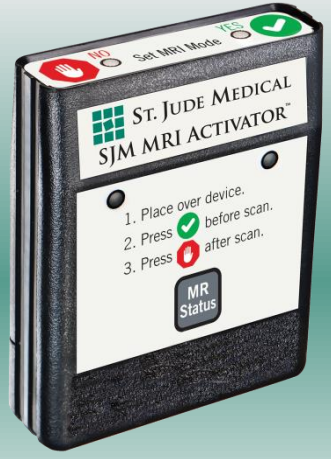
ASSURITY MRI™ PACEMAKER

Programming MRI Mode

ENABLE MRI SETTINGS



SJM MRI Activator™ handheld device

Merlin™ Patient Care System (PCS)

MRI PATIENT WORKFLOW

Traditional MRI patient workflow process

Patient needs an MRI scan

Patient goes to cardiology center or physician goes to MRI clinic

Device is programmed to temporary MRI settings

Patient has MRI scan

Patient goes to cardiology center or physician goes to MRI clinic

Device is programmed back to pre MRI scan settings

Patient goes home

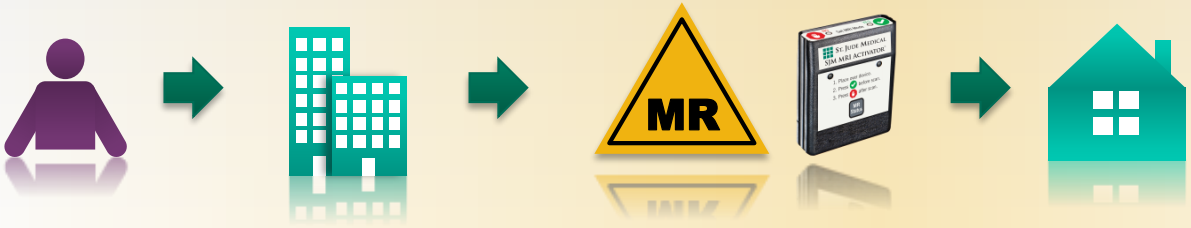
MRI patient workflow with SJM MRI Activator™ handheld device

Patient needs an MRI scan

Patient goes to cardiology center for device check

Patient has MRI scan

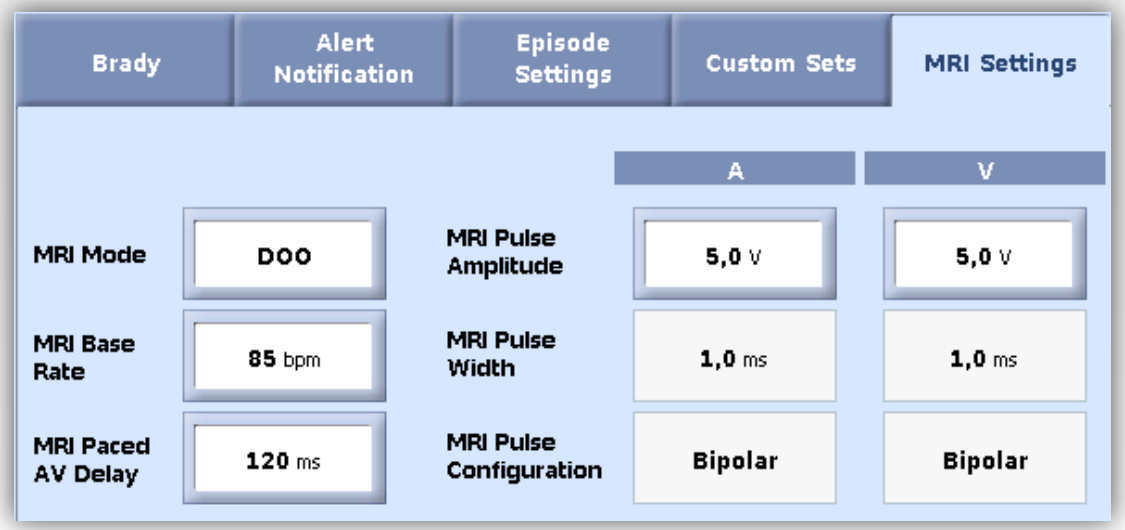
Patient goes home



Saves time, effort, and inconvenience

NOMINAL MRI SETTINGS

Parameter	Setting
MRI Mode (dual-chamber devices)	DOO
MRI Mode (single-chamber devices)	VOO
MRI Base Rate	85 bpm
MRI Paced AV Delay	120 ms
MRI Pulse Amplitude	5.0 V
MRI Pulse Width	1.0 ms
MRI Pulse Configuration	Bipolar

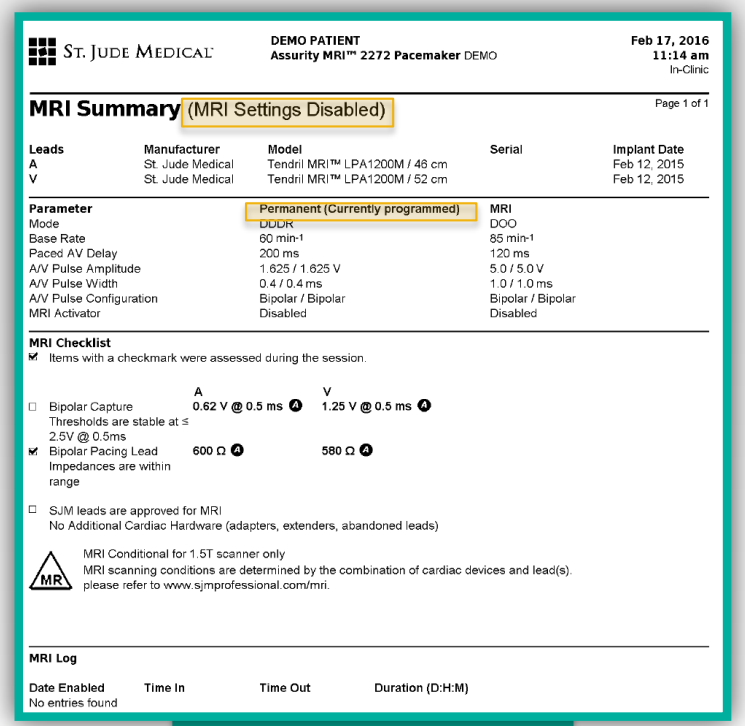


PROGRAMMING MRI MODE

Programming Tutorial

?
Tools
RF Telemetry is ENABLED
St. Jude Medical DEMO
Note: This is a demo application
II
Markers
A Sense Amp
V Sense Amp
V Bipolar
AS AS AS AS
VS VS VS VS
No Clinic
MRI Device
70 bpm
PDF
PDF Only
No Alerts
Longevity: 10.4-11.3 yrs
~ERI
> 5 yrs
Voltage: 3.07 V
Test Results (Today's most recent results shown on top)
Automatic
Capture
Sense
Lead Impedance
A
Today: 0.62V@0.5ms (Bi)
Oct 13, 2015: 0.5V@0.4ms (Bi)
Today: 4.0mV (Bi)
Oct 13, 2015: 4.1mV (Bi)
Today: 600Ω (Bi)
Oct 13, 2015: 600Ω (Bi)
V
Today: 1.25V@0.5ms (Bi)
Oct 13, 2015: 1.5V@0.4ms (Bi)
Today: >12.0mV (Bi)
Oct 13, 2015: >12.0mV (Bi)
Today: 580Ω (Bi)
Oct 13, 2015: 580Ω (Bi)
Mode DDDR
Base Rate/Max Track 60/130 bpm
Paced/Sensed AV Delay 200/150 ms
A/V Pulse Amp 1.625/1.625 V
A/V Pulse Width 0.4/0.4 ms
New EGMs: 4
Most Recent: High Ventricular Rate
AP: 11 % VP: 24 %
AS-VP 21%
AS-VS 68%
AP-VP 3.0%
AP-VS 8.0%
PVC <1%
Mode Switch: <1%
AMS Episodes: 6
Cleared today
Perform QuickOpt™
Print
FastPath™ Summary
Episodes
Diagnostics
Tests
Parameters
Wrap-up™ Overview
End Session

MRI SUMMARY REPORT



ST. JUDE MEDICAL

DEMO PATIENT
Assurity MRI™ 2272 Pacemaker DEMO

Feb 17, 2016
11:14 am
In-Clinic

Page 1 of 1

MRI Summary (MRI Settings Disabled)

Leads	Manufacturer	Model	Serial	Implant Date
A	St. Jude Medical	Tendril MRI™ LPA1200M / 46 cm		Feb 12, 2015
V	St. Jude Medical	Tendril MRI™ LPA1200M / 52 cm		Feb 12, 2015

Parameter	Permanent (Currently programmed)	MRI
Mode	DDDR	DOO
Base Rate	60 min-1	85 min-1
Paced AV Delay	200 ms	120 ms
A/V Pulse Amplitude	1.625 / 1.625 V	5.0 / 5.0 V
A/V Pulse Width	0.4 / 0.4 ms	1.0 / 1.0 ms
A/V Pulse Configuration	Bipolar / Bipolar	Bipolar / Bipolar
MRI Activator	Disabled	Disabled

MRI Checklist

☑ Items with a checkmark were assessed during the session.

	A	V
☐ Bipolar Capture Thresholds are stable at ≤ 2.5V @ 0.5ms	0.62 V @ 0.5 ms (A)	1.25 V @ 0.5 ms (A)
☑ Bipolar Pacing Lead Impedances are within range	600 Ω (A)	580 Ω (A)

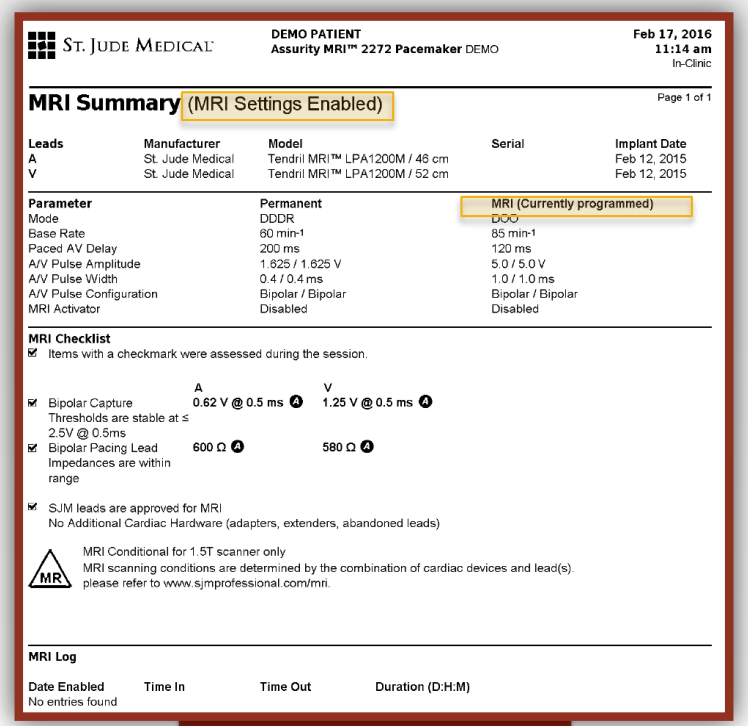
☐ SJM leads are approved for MRI
No Additional Cardiac Hardware (adapters, extenders, abandoned leads)

MR
MRI Conditional for 1.5T scanner only
MRI scanning conditions are determined by the combination of cardiac devices and lead(s).
please refer to www.sjmprofessional.com/mri.

MRI Log

Date Enabled	Time In	Time Out	Duration (D:H:M)
No entries found			

MRI Settings Disabled



ST. JUDE MEDICAL

DEMO PATIENT
Assurity MRI™ 2272 Pacemaker DEMO

Feb 17, 2016
11:14 am
In-Clinic

Page 1 of 1

MRI Summary (MRI Settings Enabled)

Leads	Manufacturer	Model	Serial	Implant Date
A	St. Jude Medical	Tendril MRI™ LPA1200M / 46 cm		Feb 12, 2015
V	St. Jude Medical	Tendril MRI™ LPA1200M / 52 cm		Feb 12, 2015

Parameter	Permanent	MRI (Currently programmed)
Mode	DDDR	DOO
Base Rate	60 min-1	85 min-1
Paced AV Delay	200 ms	120 ms
A/V Pulse Amplitude	1.625 / 1.625 V	5.0 / 5.0 V
A/V Pulse Width	0.4 / 0.4 ms	1.0 / 1.0 ms
A/V Pulse Configuration	Bipolar / Bipolar	Bipolar / Bipolar
MRI Activator	Disabled	Disabled

MRI Checklist

☑ Items with a checkmark were assessed during the session.

	A	V
☑ Bipolar Capture Thresholds are stable at ≤ 2.5V @ 0.5ms	0.62 V @ 0.5 ms (A)	1.25 V @ 0.5 ms (A)
☑ Bipolar Pacing Lead Impedances are within range	600 Ω (A)	580 Ω (A)

☑ SJM leads are approved for MRI
No Additional Cardiac Hardware (adapters, extenders, abandoned leads)

MR
MRI Conditional for 1.5T scanner only
MRI scanning conditions are determined by the combination of cardiac devices and lead(s).
please refer to www.sjmprofessional.com/mri.

MRI Log

Date Enabled	Time In	Time Out	Duration (D:H:M)
No entries found			

MRI Settings Enabled

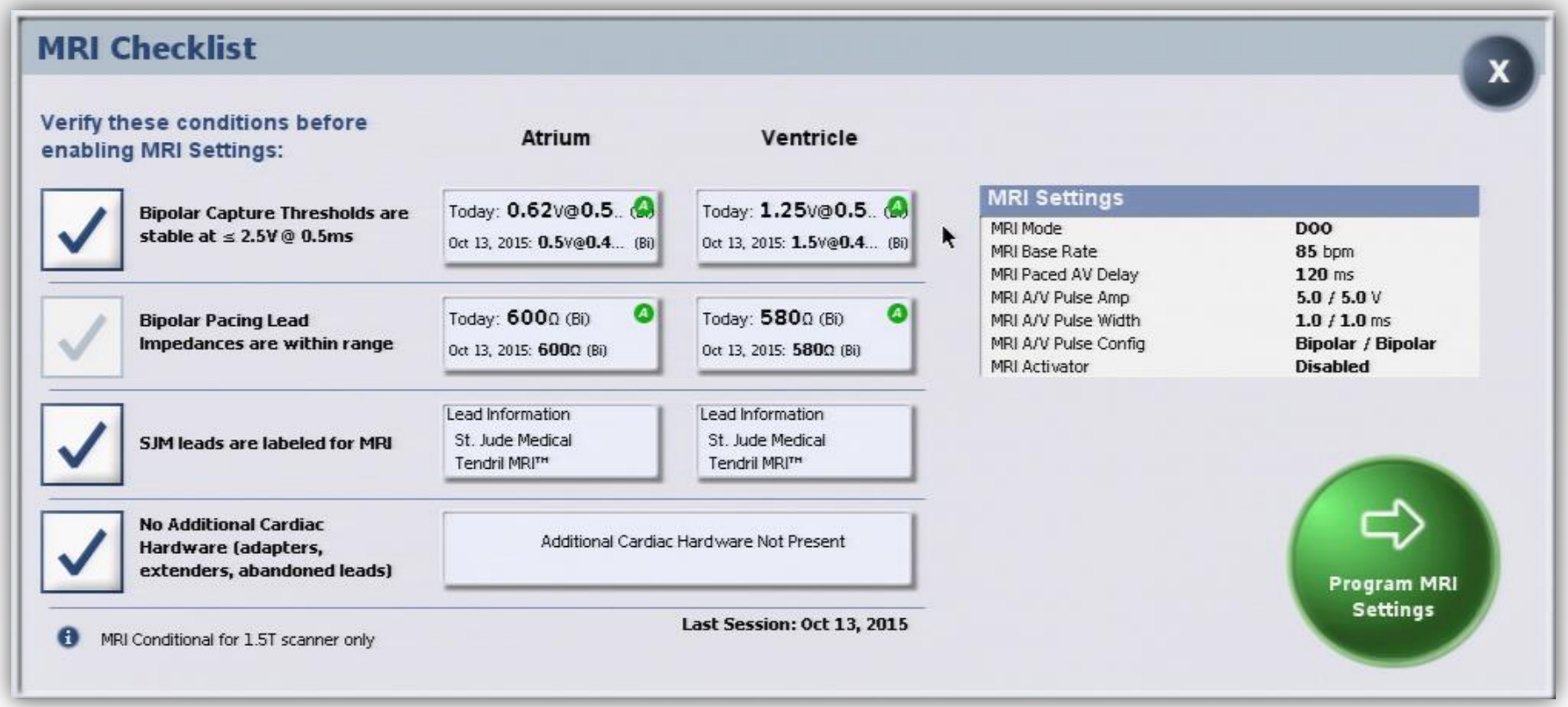
ENABLE SJM MRI ACTIVATOR™ HANDHELD DEVICE

Programming Tutorial

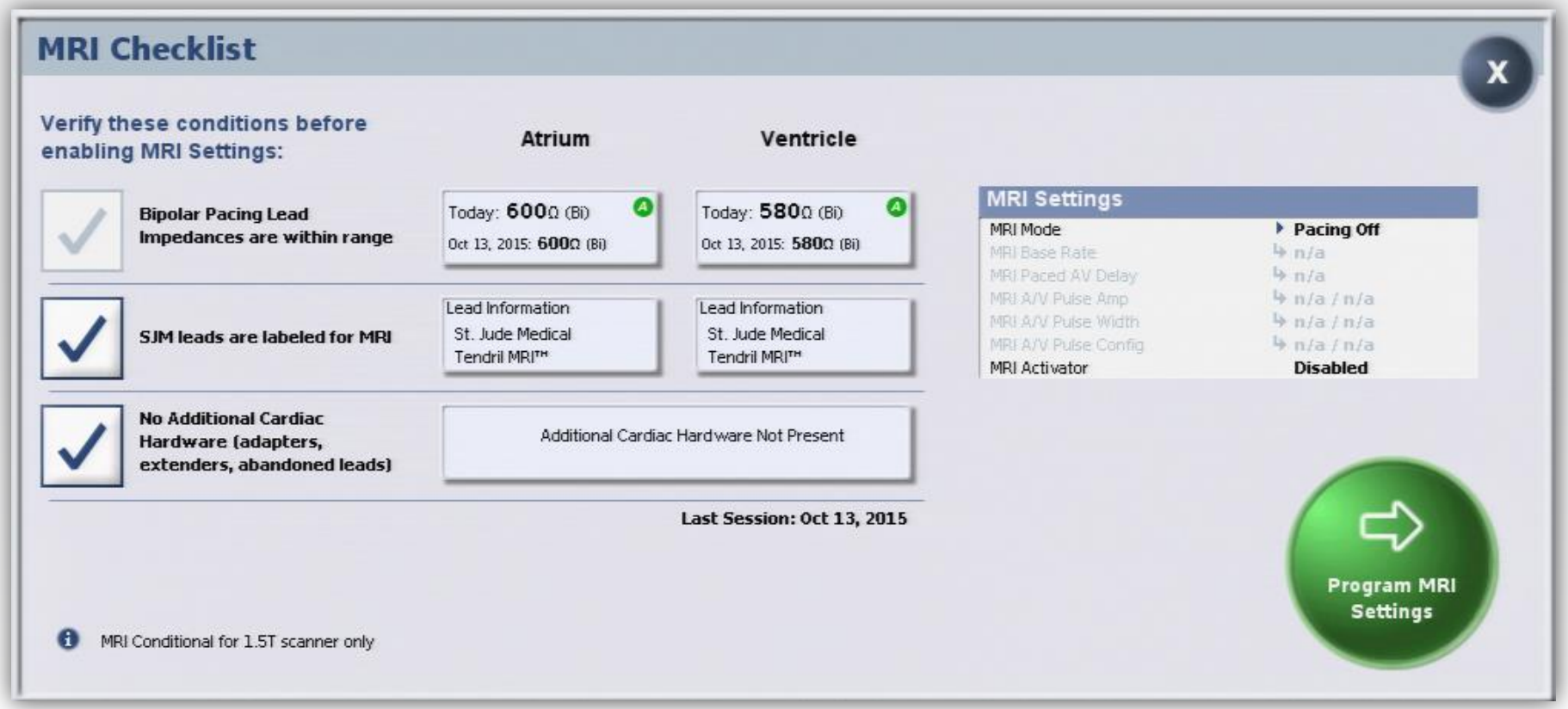
?
Tools
RF Telemetry is ENABLED
St. Jude Medical
DEMO
Note: This is a demo application
II
Markers
A Sense Amp
V Sense Amp
V Bipolar
AS
VS
No Clinic
MRI Device
70 bpm
PDF
PDF Only
No Alerts
Longevity: 10.4-11.3 yrs
~ERI
> 5 yrs
Voltage: 3.07 V
Mode DDDR
Base Rate/Max Track 60/130 bpm
Paced/Sensed AV Delay 200/150 ms
A/V Pulse Amp 1.625/1.625 V
A/V Pulse Width 0.4/0.4 ms
FastPath™ Summary
Episodes
Diagnostics
Tests
Parameters
Wrap-up™ Overview
Test Results (Today's most recent results shown on top)
Automatic
Capture
Sense
Lead Impedance
A
Today: 0.62V@0.5ms (Bi)
Oct 13, 2015: 0.5V@0.4ms (Bi)
Today: 4.0mV (Bi)
Oct 13, 2015: 4.1mV (Bi)
Today: 600Ω (Bi)
Oct 13, 2015: 600Ω (Bi)
V
Today: 1.25V@0.5ms (Bi)
Oct 13, 2015: 1.5V@0.4ms (Bi)
Today: >12.0mV (Bi)
Oct 13, 2015: >12.0mV (Bi)
Today: 580Ω (Bi)
Oct 13, 2015: 580Ω (Bi)
New EGMs: 4
Most Recent: High Ventricular Rate
AP: 11 % VP: 24 %
AS-VP 21%
AS-VS 68%
AP-VP 3.0%
AP-VS 8.0%
PVC <1%
Mode Switch: <1%
AMS Episodes: 6
Perform QuickOpt™
Cleared today
Print
End Session

MRI CHECKLIST

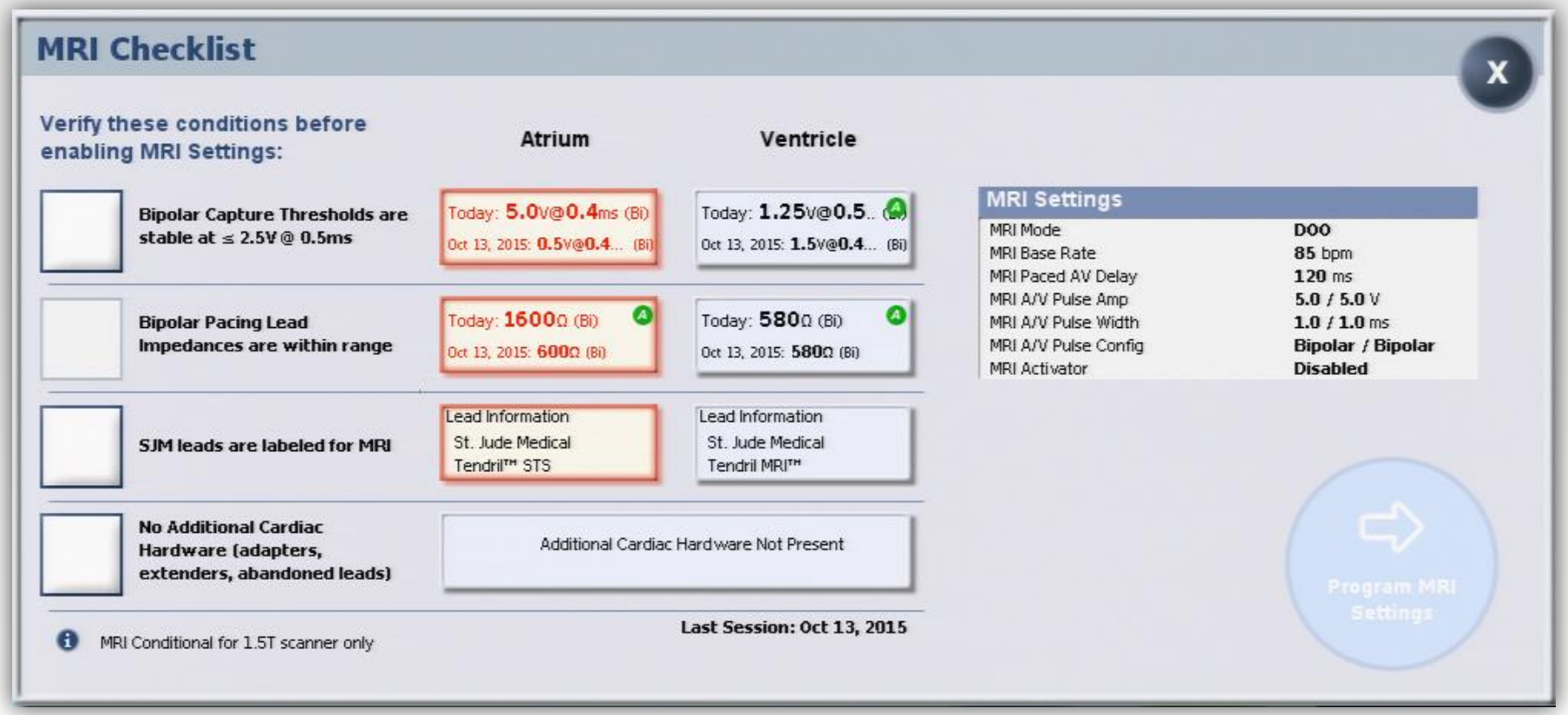
MRI CHECKLIST – DUAL CHAMBER (DOO)



MRI CHECKLIST – PACING OFF

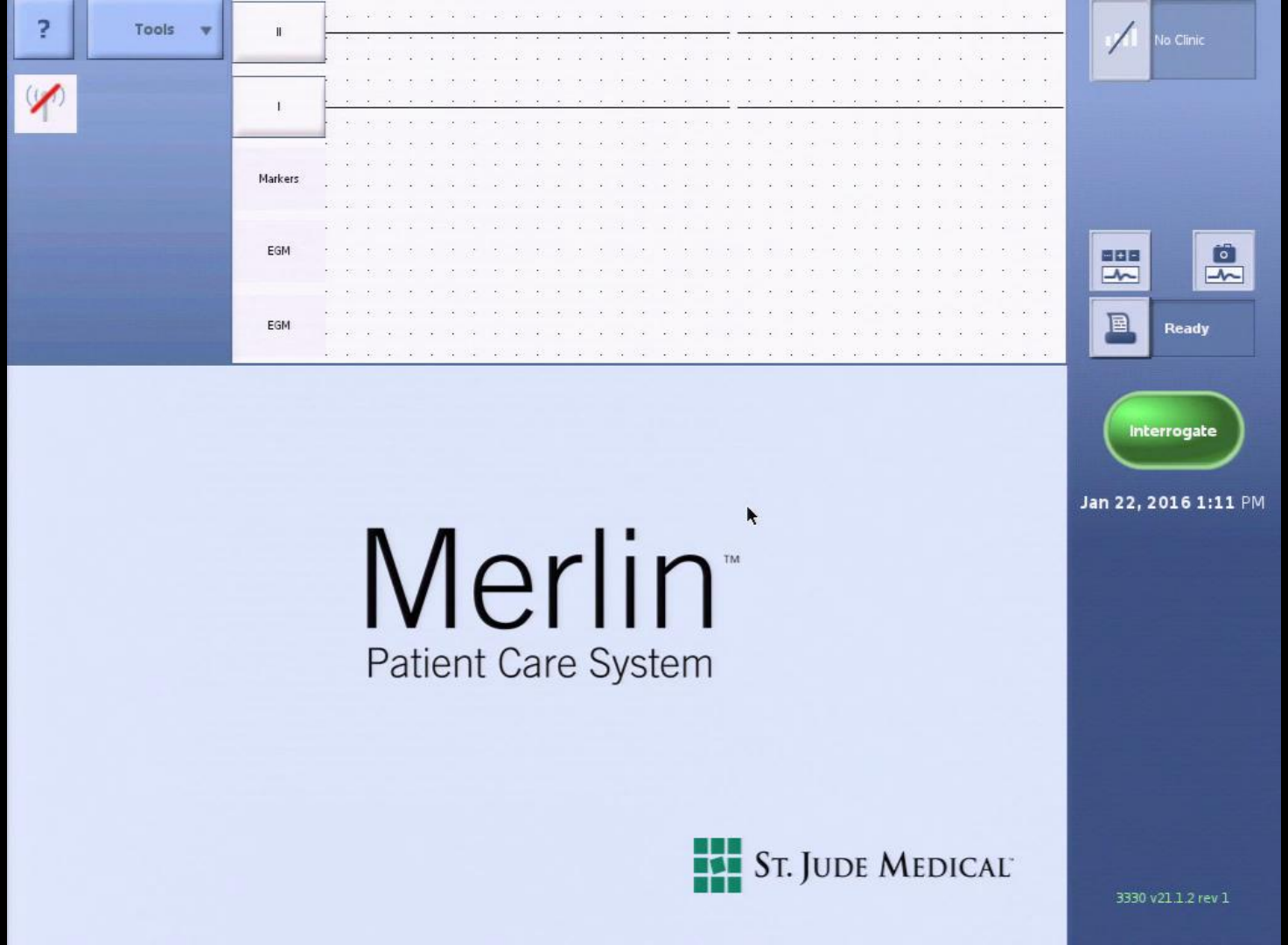


MRI CHECKLIST – OUT OF RANGE VALUES



DISABLE MRI MODE

Programming Tutorial


?
Tools
II
I
Markers
EGM
EGM
No Clinic
Ready
Interrogate
Jan 22, 2016 1:11 PM
Merlin™
Patient Care System
ST. JUDE MEDICAL
3330 v21.1.2 rev 1

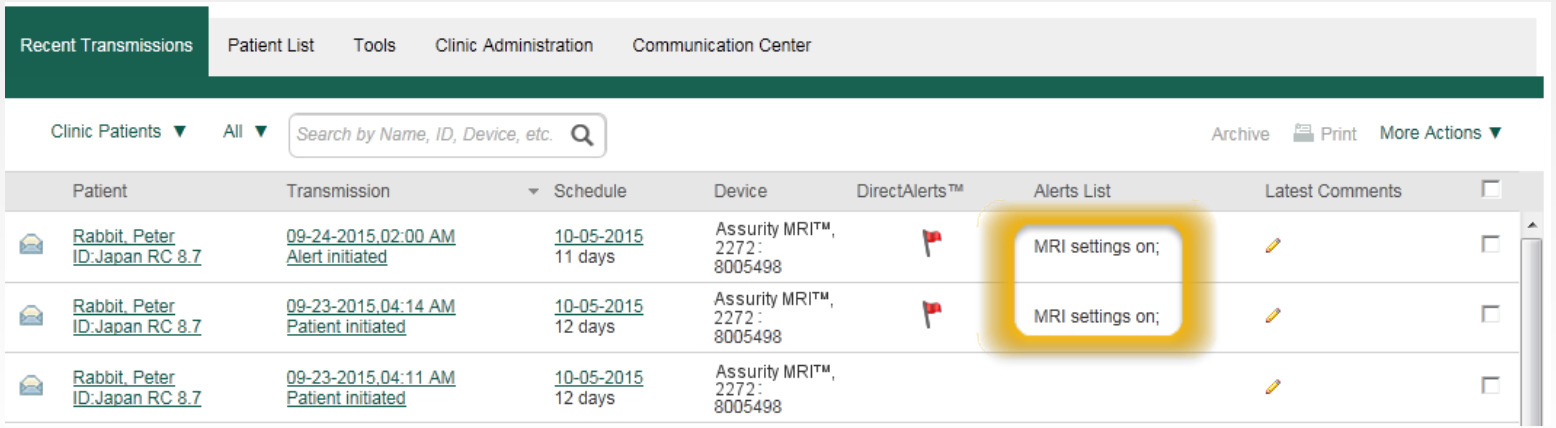
MERLIN.NET™ PATIENT CARE NETWORK

ALERT: MRI Settings On

MRI SETTINGS ON ALERT

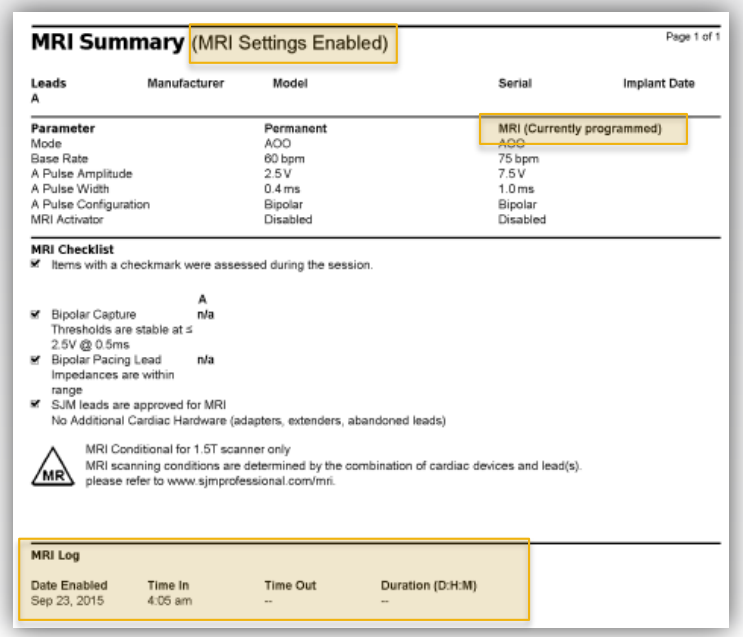
If MRI settings are not disabled and the patient goes home, an alert will appear on Merlin.net™ PCN indicating "**MRI settings on**".

- This alert is to highlight that the MRI settings weren't disabled after the scan session was complete. The patients' MRI settings should be turned OFF and permanent parameters restored as soon as possible.
- This alert is automated, not set up by the user.



REPORTS

When you click on the Alert flag, and if the alert is due to the MRI settings being left ON, you will see the MRI Summary and Alert Summary reports.



MRI Summary (MRI Settings Enabled)

Page 1 of 1

Leads	Manufacturer	Model	Serial	Implant Date
A				

Parameter	Permanent	MRI (Currently programmed)
Mode	AOO	~~AOO~~
Base Rate	60 bpm	75 bpm
A Pulse Amplitude	2.5 V	7.5 V
A Pulse Width	0.4 ms	1.0 ms
A Pulse Configuration	Bipolar	Bipolar
MRI Activator	Disabled	Disabled

MRI Checklist

Items with a checkmark were assessed during the session.

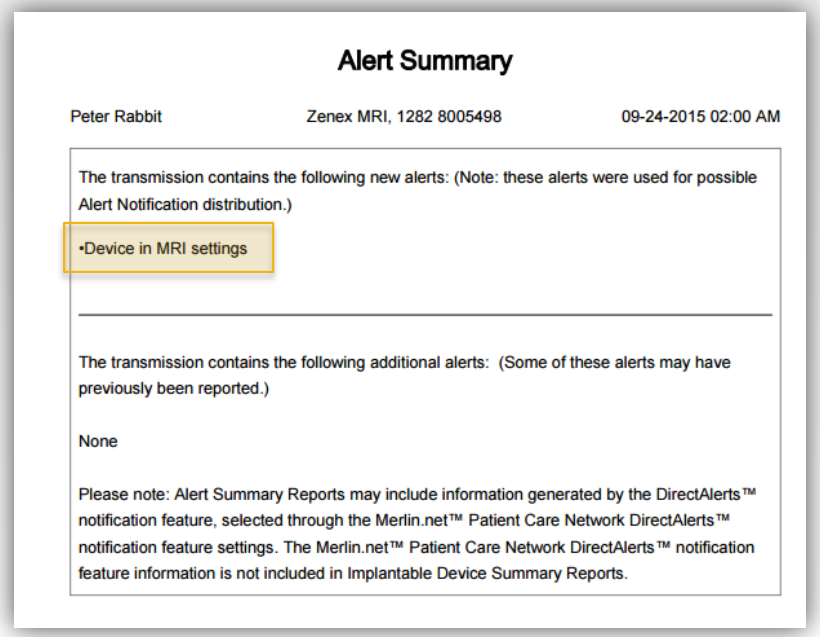
	A
☑ Bipolar Capture Thresholds are stable at ≤ 2.5V @ 0.5ms	n/a
☑ Bipolar Pacing Lead Impedances are within range	n/a

☑ SJM leads are approved for MRI
No Additional Cardiac Hardware (adapters, extenders, abandoned leads)

MR
MRI Conditional for 1.5T scanner only
MRI scanning conditions are determined by the combination of cardiac devices and lead(s). please refer to www.sjmprofessional.com/mri.

MRI Log

Date Enabled	Time In	Time Out	Duration (D:H:M)
Sep 23, 2015	4:05 am	--	--



Alert Summary

Peter Rabbit | Zenex MRI, 1282 8005498 | 09-24-2015 02:00 AM

The transmission contains the following new alerts: (Note: these alerts were used for possible Alert Notification distribution.)

•Device in MRI settings

The transmission contains the following additional alerts: (Some of these alerts may have previously been reported.)

None

Please note: Alert Summary Reports may include information generated by the DirectAlerts™ notification feature, selected through the Merlin.net™ Patient Care Network DirectAlerts™ notification feature settings. The Merlin.net™ Patient Care Network DirectAlerts™ notification feature information is not included in Implantable Device Summary Reports.

Merlin.net™ PCN

https://demo.merlin.net/group/merlin-ep_b/transmission

ST. JUDE MEDICAL

Signed in as *T Marks* Help▼ Switch to▼ Sign Out

Merlin.net™ Patient Care Network

Recent Transmissions | Patient List | Tools | Clinic Administration

My Patients ▼ All ▼ Search by Name, ID, Device, etc Archive Print More Actions ▼

Patient	Transmission	Schedule	Device	DirectAlerts™	Alerts List	Latest Comments
Miller (VT/VF Shock), Mr.	07-30-2012,01:50 AM Alert initiated	10-22-2012 84 days	Current™ VR RF, 1207-36 : 60401		HV therapy;	Increased chest pain.
Kaminsky (SVT Episodes), Mr.	07-29-2012,03:00 AM Scheduled	08-31-2012 33 days	Current™ VR RF, 1207-36 : 60431		Alert Episodes:18	Change in blood pressure.
Childs (Shock), Mr.	07-28-2012,07:39 PM Alert initiated	03-28-2014 608 days	Promote™ RF, 3207-36 : 60311		Note highlighted;	Increased shortness of breath, Drop in daily activity level.
Harris (VT), Mrs.	07-28-2012,03:40 AM Alert initiated	10-16-2012 80 days	Fortify™ DR, 2231-40 : 60371		Successful ATP;	Increased chest pain, Increased pain while sleeping, Weight gain.
Freeman (lead extraction), Mrs.	07-26-2012,03:56 AM Scheduled	08-14-2012 19 days	Fortify™ DR, 2231-40 : 60441			
Harris (VT), Mrs.	07-24-2012,03:00 AM	10-16-2012 84 days	Fortify™ DR, 2231-40 : 60371		Successful ATP;	Increased chest pain, Increased pain while sleeping, Weight gain.
Harris (VT), Mrs.	07-21-2012,03:38 AM	10-16-2012 87 days	Fortify™ DR, 2231-40 : 60371		Successful ATP;	Increased chest pain, Increased pain while sleeping, Weight gain.
Freeman (lead extraction), Mrs.	**07-14-2012,03:56 PM**	**08-14-2012 31 days**	**Fortify™ DR, 2231-40 : 60441**			
Nash (lead Imp), Mrs.	07-09-2012,02:00 AM Alert initiated	10-07-2012 90 days	Current™+ DR RF, 2211-36 : 60341		HV lead impedance; Note highlighted;	
Craft (VT w/ ATP), Mr.	07-06-2012,06:08 AM Patient initiated	09-17-2012 73 days	Current™ VR RF, 1207-36 : 60391		Successful ATP; Alert Episodes:2	
Aybar (AT/AF burden), Mr.	07-06-2012,03:16 AM Scheduled	05-21-2014 684 days	Accent™ DR RF, 2210 : 60351		AT/AF burden; PMT detection;	On vacation until September 20th and leaving transmitter at home. Scheduled clinic follow-up on October 1st.
Bickford (AT/AF Episodes), Ms.	**07-06-2012,01:23 AM Scheduled**	**08-30-2012 55 days**	**Accent™ DR RF, 2210 : 60421**			
Craft (VT w/ ATP), Mr.	07-05-2012,11:40 PM	09-17-2012 74 days	Current™ VR RF, 1207-36 :		Successful ATP;	

Showing 1 - 24 of 24 Show 25 per page ◄◄ ◄ 1 ► ►►

Quick Links

Unviewed Transmissions	6
Transmissions with alerts	20
Patients with overdue follow-up	0
Patients with no future schedule	1
Patients with pending transmissions due today	0
My Active Patients	13
Messages	0

Enroll a new patient

Looking for more training for Merlin.net™ PCN 8.0? Click Here

Merlin.net™ © 2015 St. Jude Medical

SUMMARY

- There are two ways to enable MRI mode (Merlin™ PCS or SJM MRI Activator™ handheld device)

- The MRI Checklist must be completed and all conditions met prior to programming MRI mode or enabling the SJM MRI Activator device.
  - Capture thresholds ≤2.5V @ 0.5ms
  - Bipolar impedances within range
  - SJM Leads are labeled for MRI
  - No additional cardiac hardware present

- Merlin.net™ PCN has a new alert should a device be left in MRI mode after the patients MRI scan

Device	DirectAlerts™	Alerts List
Assurity MRI™, 2272: 8005498		MRI settings on;

03 - Programming Assurity MRI LMS - Copy

Quiz - 6 questions

Last Modified: Mar 02, 2016 at 04:59 PM

PROPERTIES

On passing, 'Finish' button:	Goes to Next Slide
On failing, 'Finish' button:	Goes to Next Slide
Allow user to leave quiz:	After user has completed quiz
User may view slides after quiz:	At any time
Show in menu as:	Multiple items

Edit in Quizmaker

Edit Properties

You may now close the browser window.

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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