

REF 3200

Forzeldet Versjon, Na Hive arm



JOHNA BEDCHA, HAHE CE WATTON 3BA. Forzeldet version. Waikke anvendes. Version iiberholt. Micht Verwenden. HEDRING FK 200 WW. LIN XONOTHOLOGE LEE. Aediniq Aeisioon, Woekasitage. outdated version. Do hot ise. Version périmée. Ne pas viilser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilitzare. Eldvun ver Liv. rov. i. de Chr. i. i. i. c. c. lin i. i. r. c. lin i. lin Movecojnsi nersija. Neizmantot. Trelt stofata. Notio akki. Pasenusi Versija, Nenaudokite. Judicit version, souther with the light water Elavult verzió. Ne haszhalia! Jidatert versjon. Skalikke brilkes. Jersine expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verzia. Nepoližívat. wastarala rallicica. Ne uporabite. - antimut versio. Ala kayta. avan ciiriim. Kullanma A varsion. Användel.

LIST OF ACRONYMS

AC	Alternating current	LCD	Liquid crystal display
AF	Atrial Fibrillation	MRI	Magnetic resonance imaging
ATP	Anti-tachycardia pacing	NSR	Normal sinus rhythm
CRT	Cardiac resynchronization therapy	RF	Radio Frequency
CPR	Cardiopulmonary resuscitation	RFI	Radio Frequency Interference
ECG	Electrocardiogram	RFID	Radio Frequency Identification
- EMI	Electromagnetic interference	S-ECG	Subcutaneous electrocardiogram
SIEWII	10 Licea of hagilette interference		
EOL	11 50° 151° 2.1° 20° 11		Subcutaneous implantable cardioverter defibrillator
	11 50° 151° 2.1° 20° 11	S-ICD	Subcutaneous implantable
EOL	End of life Elective replacement indicator Electrostatic discharge	S-ICD USB	Subcutaneous implantable cardioverter defibrillator
EOL ERI	End of life Elective replacement indicator	S-ICD USB VAC	Subcutaneous implantable cardioverter defibrillator Universal serial bus

This literature is intended for use by professionals trained or experienced in device implant and/or follow-up procedures.

The following are trademarks of Boston Scientific Corporation or its affiliates: EMBLEM, ImageReady, AF -1.31.27 cililim. Kullanma Inis product may be protected by one or more patents.
Patent information can be obtained at http://www.bostonscientific.com/patents.
© Copyright 2018 Boston Scientific Corporation or its affiliates.
All rights reserved. en de la sion. Användel.

JOHNA BEDCHA, HAHE CE WATTON 3BA. Forzeldet version. Waikke anvendes. Version iiberholt. Micht Verwenden. HEDRING FK 200 WW. LIN XONOTHOLOGE LEE. Aediniq Aeisioon, Woekasitage. outdated version. Do hot ise. Version périmée. Ne pas viilser. Version obsoleta. No utilizar. Jersione obsoleta. Non utilitzare. Eldvun ver Liv. rov. i. de Chr. i. i. i. c. c. lin i. i. r. c. lin i. lin Movecojnsi nersija. Neizmantot. Trelt stofata. Notio akki. Pasenusi Versija, Nenaudokite. Judicit version, souther with the light water Elavult verzió. Ne haszhalia! Jidatert versjon. Skalikke brilkes. Jersine expirata. Anuse utiliza. Versão obsoleta. Não utilize. Lastarana verzia. Nepoližívat. wastarala rallicica. Ne uporabite. - antimut versio. Ala kayta. avan ciiriim. Kullanma A varsion. Användel.

TABLE OF CONTENTS

GENERAL DESCRIPTION Programmer Warnings	
Programmer Warnings	2
General	2
Conditions for Operation	3
Programmer Precautions	4
General	4
Storage and Handling	4
lmplantation	5
Conditions for operation	5
Implantation	6
General	6
Post-Implant	6
Clinical Considerations	7
Implantation	8
Device Programming	8
S-ICD System Precautions	8
Environmental and Medical Therapy HazardsHazards	8
Hospital and Medical Environments	9
Follow-up Testing	13
Explant and Disposal	13
Supplemental Precautionary Information	13
Conditions for operation S-ICD System Warnings	14
OPERATION TO THE STATE OF THE S	
Packaging	17
Programmer Controls and Connections	18
Charging the Programmer	19
Turning the Programmer On	20
Changing the Programmer Volume Level	20
Placing the Programmer in Suspend Mode	20
Turning the Programmer Off	21
Using the Programmer Touch Screen	21
Turning the Programmer Off	22
Navigation	23
Screen Header	23
Navigation Bar	24
Restarting the Programmer	24
Configuring Programmer Settings	26
1/6 Etg. 6/9 "Up, "Plo "Op, "Plo "Op	
Navigation Bar	
125, 161, 94, 340	

	By.	
	Date and Time Format	27
	Time Zone	28
	Language Preference	29
	Printer Selection	30
	Programmer Software Version	31
	Bluetooth™ Data Export	32
aparia Bepcha,	Programmer Software Version Bluetooth™ Data Export Online Behavior Offline Behavior Stored Patient Sessions.	34
CN,	Offline Behavior	34
aparia Bepch. National de la companya de la company	Stored Patient SessionsStored Patient Sessions	35
80,76.	To view stored patient sessions	35
alla leprin	To purge stored patient sessions	35
19, 19,	Shelf ModeShelf Mode	36
1910 × 16	Therapy On Mode	36
Tro. Yer De	Therapy Off Mode	36
3, 5/0, 1/18	MRI Protection Mode	37
6, 10: 10.	Scanning for Pulse Generators	38
La Cherrian	Connecting to a Pulse Generator	39
16 Un ?	Connecting to a Pulse Generator in Shelf Mode	39
V602 19.	Connecting to an Implanted Pulse Generator	39
JON	Ending a Patient Session	40
110	Stored Patient Sessions. To view stored patient sessions To purge stored patient sessions. Shelf Mode Therapy On Mode Therapy Off Mode MRI Protection Mode Scanning for Pulse Generators. Connecting to a Pulse Generator in Shelf Mode Connecting to a Pulse Generator in Shelf Mode Connecting to an Implanted Pulse Generator Ending a Patient Session. Entering Electrode Information Creating the Patient Chart Automatic Setup. Programming Therapy Parameters Defibrillation Testing. Sensing Configuration and Automatic Setup Viewing Pulse Generator Status. Viewing Stored Episodes Printing Reports. Summary Report Captured S-ECG Report Episode Reports Export using Bluetooth™ wireless technology Export using a microSD™ card S-ECG Rhythm Strip Markers. S-ECG Scale Settings. Capturing and viewing S-ECG Strips.	42
00	Creating the Patient Chart	44
16	Automatic Setup	45
	Programming Therapy Parameters	47
	Defibrillation Testing	50
	Sensing Configuration and Automatic Setup	53
	Viewing Pulse Generator Status	54
	Viewing Stored Episodes	55
	Printing Reports	57
	Summary Report	59
	Captured S-ECG Report	60
	Episode Reports	61
	Export using Bluetooth™ wireless technology	62
	Export using a microSD™ card	63
	S-ECG Rhythm Strip Markers	64
	S-ECG Scale Settings	66
		(-
	To manually capture a new S-ECG rhythm strip	
	Viewing previously-captured S-ECGs	68
	Viewing previously-captured S-ECGs	
	10, 49, 45, 18, 1911	
	122 106, 00 23	

80.	
Acquire Reference S-ECG	70
Canture All Sense Vectors	70
Beeper Control	71
Reset Beeper	71
Disable Beeper (SQ-Rx devices)	
Enable/Disable Recover (EMRI EM S. ICD devices)	72
Manual Setup	73
Manual Setup	75
SMART Charge	75
Disabling SMART Pass	76
AF Monitor	77
Rescue Shock	78
Manual Shock	80
S-ICD System Magnet Use	81
MAINTENANCE	
Charging the Programmer	82
Cleaning the Programmer.	82
Service	82
Maintenance Check	83
Safety Measurements	83
Programmer End of Life	83
SMART Charge Disabling SMART Pass AF Monitor Rescue Shock Manual Shock S-ICD System Magnet Use MAINTENANCE Charging the Programmer Cleaning the Programmer Service Maintenance Check Safety Measurements Programmer End of Life TROUBLESHOOTING Inability to Print No Printer Available Touch Screen Inactive while Connected to AC Power Loss of Communication with Printer	
Inability to Print	84
No Printer Available	84
Touch Screen Inactive while Connected to AC Power	84
Loss of Communication with Printer	85
Inability to Communicate With the Pulse Generator	85
COMPLIANCE STATEMENTS S 1 S S S S S S S S S S S S S S S S S	
	86
EMI/RFI	86
DECLARATIONS TABLES AND CONTROL OF THE ACTION OF THE PROPERTY	
	170.07
EMI/REI Information Programmer-to-Pulse Generator Communication	
Guidance and Manufacturer's Declaration—Electromagnetic Compatibility EMI/RFI Information Programmer-to-Pulse Generator Communication EMI/RFI Information Bluetooth™ Wireless Printing and Data Transfer	89
SPECIFICATIONS No. 230 Company of the company of th	10.
Product Guidelines	90
Specifications	90
Specifications	
10, 59, 45, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	
123,76, 9	

г	Nominal Specifications (WITI	n device connected to external power sup L SYMBOLS pols Model 3200 Programmer	piy)9
L	Packaging and Device Symb	ools Model 3200 Programmer	92
v	ARRANTY	30.	
	Limited Warranty		94
P	PPENDIX A: INSERTION AND R	EMOVAL OF THE microSD™ CARD	9!
90C/	466 13 14 AG, 327,		
3 BE 1	PENDIX A: INSERTION AND R	Jersija. Ne hasznalialie. Niet Nersija. Ne hasznalialie. Niet Nersija. Ne hasznalialie. Niet Nersija. Ne hasznalialie. Niet	
ic, 181,	70, 1/2, 1/10, 16,	ise.	
3/3 1	10, 10, 10, 10	. al. al. apple	
del	sell sion my son:	liza ilise dire	
selo-ni	, Joi, J. W. J. J.	, Eng. Mbg	
1510,	cion it. Mi jaros kon perina in peri	pas litili upoe leta. Neizmantite. leta. Neizmantite. leta. Neizmantite. leta. Neizmantite. leta. Neizmantite. leta. Neizmantiti. leta. Nei	
SI, Uni	dersion obsoleta. Ne de de de la	Penojte Jenojte Jenojte Jenojte Jenojte Jerojte Jeta Nonithii zare. Jeta Nonithii zare	TEV.
Dec.	7, 60 720, 66. L	Je KKI. IKIII. KOC.	Tille
, Uo,	"93, "Or "!!!", "!!s.	Lerija Leraldokite. Lidekki. Litilik tot. L	16/0,
C	sion be reprind	C. Jeilly John ist	<i>-</i>)
	16, 210, 613 83.	1610 14 3118 113. A.	55. Mac.
	161, 431, 403, 905,	ilo a No. eizmidokite niet oles ila Nersija. Neraldokite niet oles ila	11
	135 11 10000	76: 13. 133. 76,16p.16	
	The Floring	isis He do the ite	470.
	Jer, eco, si	1,0. Mg CKS, 13/2,111	S. Hill
	Mos curi	JELLIELO W. JON MILL	e is
	035 11	SUA SIST WILLIAM ON	" Washite
	[13]	See The Stell * 3.1 Pl	ON ONSTRIA.
	Oit.	ister of the year's. Teh	UP List
		100 318 h 005 1011 13.1 5	76 119, 961
		ito Nolling Radokite. Niet of the standard of	ayan siriim. Kul Jon Anvandeli Jon Anvandeli Jon Siriim. Kul
		1612 inly 29 The les	2. VU. W.
		1612, 3131, 310, 11,	الأبان ال
		7 256 181 1100 215	50

GENERAL DESCRIPTION

Description

The EMBLEM S-ICD programmer (the "programmer") is a component of Boston Scientific's subcutaneous implantable cardioverter defibrillator system (the S-ICD System) which is prescribed for patients when cardiac arrhythmia management is warranted. Implantable components of the S-ICD System include the EMBLEM S-ICD pulse generator and the EMBLEM S-ICD subcutaneous electrode.

The programmer is a non-sterile, non-implantable, tablet computer controlled by a graphic user interface (GUI) displayed on a touchscreen. The programmer is powered by either AC line power or an internal lithium ion battery pack. The programmer uses a connected RF telemetry wand to communicate wirelessly with the S-ICD pulse generator in order to adjust programmable settings and to collect patient data. The EMBLEM S-ICD programmer is also compatible with the Cameron Health (Model 1010) SQ-Rx pulse generator. The programmer features and functions described in this manual apply to the Boston Scientific S-ICD System as well as to the Cameron Health S-ICD System.

The S-ICD System is designed for ease of use and simplicity of patient management. The S-ICD System has a number of automatic functions designed to reduce the amount of time required for implantation, initial programming and patient follow-up.

For additional technical reference guides, go to www.bostonscientific-elabeling.com

Intended Use of Programmer

The programmer is intended to communicate with the implanted pulse generator using wireless telemetry. The programmer software controls all such telemetry functions.

Indications for Use

The S-ICD System is intended to provide defibrillation therapy for the treatment of life-threatening - and cilitim. Kullani ventricular tachyarrhythmias in patients who do not have symptomatic bradycardia, incessant 12ct Arela razlicica cis re ventricular tachycardia, or spontaneous, frequently recurring ventricular tachycardia that is reliably ara versio terminated with anti-tachycardia pacing.

Contraindications

Unipolar stimulation and impedance-based features are contraindicated for use with the S-ICD System.

ated Information

Related Information

Before using the S-ICD system, read and follow all instructions, warnings, and precautions provided in this manual and in the manuals for the other system components, including the applicable S-ICD pulse generator, subcutaneous electrode, and electrode implant tools user's manuals.

This quide may contain reference information for pulse generator model numbers that are not currently approved for sale in all geographies. For a complete list of model numbers approved in your geography, consult with your local sales representative. Some model numbers may contain fewer features; for those devices, disregard descriptions of the unavailable features. Descriptions found within this manual apply to all device tiers unless otherwise noted.

Refer to the ImageReady MR Conditional S-ICD System MRI Technical Guide (hereafter referred to as the MRI Technical Guide) for information about MRI scanning.

Programmer Warnings and Precautions

The following warnings and precautions apply specifically to the Model 3200 programmer component of the S-ICD System.

rogrammer Warnings

General

• Modifications. No modification of this equipment is allowed unless approved by Boston Scientific.

Programmer Warnings

- Scientific.
- Programmer is MR Unsafe. The programmer is MR Unsafe and must remain outside the MRI site Zone III (and higher) as defined by the American College of Radiology Guidance Document for Safe MR Practices¹. Under no circumstances should the programmer be brought into the MRI scanner room, the control room, or the MRI site Zone III or IV areas.
- High temperatures. Do not subject the programmer to temperatures outside of the -10° C to 55° C (14° F to 131° F) storage range. Exposure to high temperatures may cause the programmer to overheat or ignite, and may possibly reduce its performance and service life. an IPISION

Kanal E, et al., American Journal of Roentgenology 188:1447-74, 2007. 4,2

- Extreme temperatures. Do not discard the programmer in a fire, incinerate, or subject it to temperatures that exceed 100° C (212° F). This could cause the programmer to explode.
- Do not immerse. Do not immerse the programmer in liquid of any kind. If the programmer does get wet, contact customer service for information about returning the programmer to Boston Scientific. Do not attempt to dry the programmer in an oven, microwave, or dryer because this poses a risk of overheating or explosion.

- cientific secause this pos Conditions for Operation Secure prooff experi-Forældetversi Secure programmer. Ensure this programmer is used by professionals trained or experienced in device implant and/or follow-up procedures. Take appropriate measures to prevent unauthorized use or tampering of the programmer.
 - Versionijoel power supplied extension power supply packaged with damage to the programmer.

 Electric shock. To avoid only be see Use only the supplied external power supply. Use the programmer only with the external power supply packaged with the programmer. Using other power supplies may cause
 - **Electric shock.** To avoid risk of electric shock, the programmer's external power supply must only be connected to a grounded electrical outlet.
 - **Damaged programmer or power supply.** Never use a damaged external power supply or a damaged programmer. Doing so could result in user injury, patient injury, or a lack of therapy delivery.
 - Interference with nearby equipment. By design, the programmer emits radio frequencies in the 402-405 MHz and 2.4 GHz bands. This may interfere with nearby medical or office equipment. When using the programmer, closely monitor equipment in the vicinity to verify normal operation. It may be necessary to take mitigation measures, such as reorienting or relocating the programmer or shielding the location.
 - Interference with programmer communication. The presence of other equipment operating in the same frequency bands used by the programmer (402-405 MHz for the pulse generator and 2.4 GHz for the printer) may interfere with communication. Interference can occur even if the other equipment complies with the International Special Committee on Radio Interference (CISPR) emission requirements. This RF interference can be reduced by increasing the distance between the interfering device and the programmer and pulse generator or printer. If communication problems persist, refer to the Troubleshooting section of this manual.
 - **Use of non-approved accessories.** The use of any accessories with the programmer other than those specified by Boston Scientific in this manual may result in increased emissions or decreased immunity of the programmer and may cause decreased functionality or unintended operational behavior of the programmer. Anyone connecting such accessories

to the programmer may be configuring a medical system and is responsible to ensure that the system complies with the requirements of IEC/EN 60601-1, Clause 16 for medical electrical systems.

- Programmer location. Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Radio frequency (RF) communications equipment. Keep all RF communications equipment (including peripherals such as antennas, wands, and cables) at least 30 cm (12 in) away from the Model 3200 Programmer, including cables specified by Boston Scientific, Programmer Precautions

 General to avoid degradation of the performance of this equipment. , Pas litilité

Wand use. Use only the Model 3203 telemetry wand with the programmer.

HOUT

- Do not disassemble. Do not disassemble or alter any parts of the programmer.
- **Device communication.** Use only the designated programmer and software application to communicate with the pulse generator.
- Intended users. The programmer is intended for use by or under the direction of healthcare professionals only.
- **Sensitive Information.** To prevent sensitive personal information from being transmitted to inappropriate devices or printers when using Bluetooth™ wireless connections, make certain to only connect with known Bluetooth™ devices.

Storage and Handling

- Mishandling. Mishandling (such as dropping or crushing) could damage the programmer. If you suspect damage to the programmer, contact your Boston Scientific representative or the customer service department for instructions and return packaging.
- Broken or cracked screen. The display on the programmer is made of glass or acrylic and could break if the programmer is dropped or if it receives significant impact. Do not use if

could break if the programmer is gropped or it it receives significant impact. Do not use in screen is broken or cracked as this could cause injury.

The Bluetooth™ word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks is under license.

microSD™ is a trademark or registered trademark of SD-3C, LLC.

- Magnet handling. Do not place a magnet on the programmer.
- **Data Storage.** The programmer and digital data storage media, such as microSD™ memory cards, used with the programmer may contain sensitive personal information. These should be handled in accordance with applicable privacy and security policies and regulations.

Implantation

- Telemetry wand. The wand is a non-sterile device. Do not sterilize the wand. The wand must be contained in a sterile barrier before use in the sterile field.
- Programmer m cannot be steriliz

 Conditions for operation

 Power continued to the continued Programmer must remain outside the sterile field. The programmer is non-sterile and cannot be sterilized. It must remain outside the sterile field.

- Power cord usage. Power cords are for connection to 230 VAC supply mains. Use the supplied power cord that exactly matches your AC electrical outlet.
- Disconnecting the programmer. Mains isolation is achieved by disconnecting the external power supply power cord from the AC electrical outlet. Do not position the programmer or the external power supply in a manner that would make it difficult to disconnect that cord.
- **Programmer use.** The programmer is not waterproof or explosion-proof and cannot be sterilized. Do not use it in the presence of flammable gas mixtures containing anesthetics, oxygen, or nitrous oxide.
- Confirm communication. Confirm that the programmer is in communication with the intended implanted S-ICD pulse generator.
- Electrostatic discharge. The programmer may be affected by ESD. If ESD occurs and the programmer's functionality is affected, attempt to reset the programmer or contact Boston Scientific for instructions. Do not touch or connect the telemetry wand to the programmer Versão obsoleta. Não util Nersia Przeterminow Lustanala različica. Ne uporabite. unless ESD precautionary procedures are used

Versiune expirata. Anuse · Zastaraná verzia. Nepoužívat. er zartunut versio. Ala kayta. avan ciiriim. Kullanma A version. Användeil.

S-ICD System Warnings and Precautions

The following warnings and precautions apply to the S-ICD System as a whole. For additional warnings and precautions that are specific to other individual components of the system, and/or to the process of implanting the system, refer to the manual of the relevant system component. rge kasitat

S-ICD System Warnings

- uesigned for use with the Boston Scientific or Cameron Health S-ICD System only.
 Connection of any S-ICD System components to a non-compatible component has not been tested and could result in failure to deliver life-saving defibrillation therapy.

 Backup defibrillation protection. Always have external and could result in CDD

 medical personnel skilled in CDD
 - ystem only.
 Backup defibrillation protection. Always have external defibrillation equipment and medical personnel skilled in CPR available during implant and follow up testing if patient's death terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the
 - Pulse generator interaction. Using multiple pulse generators could cause pulse generator interaction, resulting in patient injury or a lack of therapy delivery. Test each system individually and in combination to help prevent undesirable interactions. Refer to the appropriate S-ICD pulse generator manual for more information.

Post-Implant

- Magnet Response. Use caution when placing a magnet over the S-ICD pulse generator because it suspends arrhythmia detection and therapy response. Removing the magnet resumes arrhythmia detection and therapy response.
- Magnet response with deep implant placement. In patients with a deep implant placement (greater distance between the magnet and the pulse generator) magnet application may fail to elicit the magnet response. In this case the magnet cannot be used to inhibit therapy.
- **Diathermy.** Do not expose a patient with an implanted S-ICD System to diathermy. The interaction of diathermy therapy with an implanted S-ICD pulse generator or electrode can damage the pulse generator and cause patient injury.
- Magnetic Resonance Imaging (MRI) exposure. EMBLEM S-ICD devices are considered MR Conditional. For these devices, unless all of the MRI Conditions of Use are met, MRI scanning of the patient does not meet MR Conditional requirements for the implanted A JEKSI er.

system. Significant harm to or death of the patient and/or damage to the implanted system may result. All other devices covered by this manual are not MR conditional. Do not expose patients with non-MR Conditional devices to MRI scanning. Strong magnetic fields may damage the pulse generator and/or subcutaneous electrode, possibly resulting in injury to or death of the patient.

- **Protected environments.** Advise patients to seek medical guidance before entering environments that could adversely affect the operation of the active implantable medical device, including areas protected by a warning notice that prevents entry by patients who
- nave a pulse generator.

 Sensitivity settings and EMI. The pulse generator may be more susceptible to low frequency electromagnetic interference at induced signals greater than 80 uV Over of noise due to this increased susceptibility could lead to increased to low frequency exposed to low frequency frequency exposed to low frequency exposed to requency electromagnetic interference at induced signals greater than 80 uV. Over of noise due to this increased susceptibility could lead to inappropriate shocks and should be taken into consideration when determining the follow-up schedule for exposed to low frequency electromagnetic interference. The follow-up schedule for of electromagnetic interference. exposed to low frequency electromagnetic interference. The most common source of electromagnetic interference in this frequency range is the power system for European trains which operate at 16.6 Hz. Particular in with occupational exposure. frequency electromagnetic interference at induced signals greater than 80 uV. Oversensing should be taken into consideration when determining the follow-up schedule for patients of electromagnetic interference in this frequency range is the power system for some European trains which operate at 16.6 Hz. Particular attention should be given to patients

Clinical Considerations

- Longevity. Battery depletion will eventually cause the S-ICD pulse generator to stop functioning. Defibrillation and excessive numbers of charging cycles shorten the battery longevity.
- **Pediatric Use.** The S-ICD System has not been evaluated for pediatric use.
- Versiune expirata. Anuse willing Available Therapies. The S-ICD System does not provide long-term bradycardia pacing, Versão obsoleta. Oitis een veroud Wersja Przeterminowar Cardiac Resynchronization Therapy (CRT) or Anti-Tachycardia Pacing (ATP). Jidatert versjon. Sk

Implantation

- **Upper extremity injury.** During arrhythmia induction, the induction current and subsequent shock may result in forceful contraction of the pectoralis major muscle which can exert significant acute forces on the glenohumeral joint as well as on the clavicle. This, in conjunction with a tightly restrained arm, may result in injury to the clavicle, shoulder, and arm, including dislocation and fracture.
- **Avoid shock at implant.** Verify the device is in Shelf mode or Therapy Off to prevent the Device Programming

 Sensing delivery of unwanted shocks to the patient or the person handling the device during the implant procedure.

- Version it be Patients hear tones coming from their device.

 Programming for supraventricular food.

 Programming for supraventricular food.
 - Programming for supraventricular tachyarrhythmias (SVTs). Determine if the device and programmed parameters are appropriate for patients with SVTs because SVTs can initiate a. Nenaudoki

S-ICD System Precautions

- Environmental and Medical Therapy Hazards

 Avoid electromagnetic interest because EMI may approximately approxim unwanted device therapy.

 stem Precautions

 nimental and Medical Therapy Hazards

 Avoid electromagnetic interference (EMI). Advise patients to avoid sources of EMI herause EMI may course the pulse specific define because EMI may cause the pulse generator to deliver inappropriate therapy or inhibit appropriate therapy. Moving away from the source of the EMI or turning off the source usually allows the pulse generator to return to normal operation. Examples of potential EMI sources found in hospital and medical environments are:
 - Radio transmitters
 - Electronic surveillance or security systems
 - Medical treatments and diagnostic tests in which an electrical current is passed through the body, such as TENS, electrocautery, electrolysis/thermolysis, electrodiagnostic testing, electromyography, or nerve conduction studies
 - Any externally applied device that uses an automatic lead detection alarm system (e.g., an EKG machine) .clea. , ster.

Hospital and Medical Environments

- **External defibrillation.** External defibrillation or cardioversion can damage the pulse generator or subcutaneous electrode. To help prevent damage to implanted system components, consider the following:
 - Avoid placing a pad (or paddle) directly over the pulse generator or subcutaneous electrode. Position the pads (or paddles) as far from the implanted system components as possible.
 - Set energy output of external defibrillation equipment as low as clinically acceptable.
 - Following external cardioversion or defibrillation, verify pulse generator function (see "Post-Therapy Pulse Generator Follow Up" on page 13).
- Forældeitversion
 - Version iiber Carquopulmonary resuscitation (CPR) may temporarily the control of the contr not crossing one another. Electrical interference or "noise" from concomitant implanted devices such as a ventricular assist device (VAD) devices. devices such as a ventricular assist device (VAD), drug pump, or insulin pump may interfere with establishing or maintaining telemetry for interrogating or programming the pulse denerator. In the presence of such interference, place the wand over the pulse generator and shield both with a radiation-resistant material.
 - **lonizing radiation therapy.** It is not possible to specify a safe radiation dosage or guarantee proper pulse generator function following exposure to ionizing radiation. Multiple factors collectively determine the impact of radiation therapy on an implanted pulse generator, including proximity of the pulse generator to the radiation beam, type and energy level of the radiation beam, dose rate, total dose delivered over the life of the pulse generator, and shielding of the pulse generator. The impact of ionizing radiation will also vary from one pulse generator to another and may range from no changes in function to a loss of therapy. Sources of ionizing radiation vary significantly in their potential impact on an implanted pulse generator. Several therapeutic radiation sources are capable of interfering with or damaging an implanted pulse generator, including those used for the treatment of cancer, such as radioactive cobalt, linear accelerators, radioactive seeds, and betatrons. Prior to a course of the apeutic radiation treatment, the patient's radiation arall, art. No. oncologist and cardiologist or electrophysiologist should consider all patient management -ni options, including increased follow-up and device replacement.

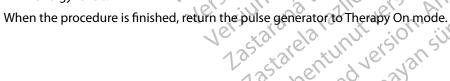
Other considerations include:

- Shield the pulse generator with a radiation-resistant material, regardless of the distance between the pulse generator and the radiation beam.
- Determining the appropriate level of patient monitoring during treatment

Evaluate pulse generator operation during and following the course of radiation treatment to exercise as much device functionality as possible (see "Post-Therapy Pulse Generator Follow Up" on page 13). The extent, timing, and frequency of this evaluation relative to the radiation therapy regimen are dependent upon current patient health, and therefore should be determined by the attending cardiologist or electrophysiologist.

Forzeldet versi Version tibe evaluation should not be concluded until pulse generator diagnostics have been updated and reviewed (at least one hour after radiation exposure). The effects of radiation exposure on the implanted pulse generator may remain undetected until some time following exposure. For this reason, continue to monitorial.

- Electrocautery and RF Ablation. Electrocautery and RF ablation may induce ventricular arrhythmias and/or fibrillation, and may cause inappropriate shocks and inhibition of postshock pacing. Additionally, exercise caution when performing any other type of cardiac ablation procedure in patients with implanted devices. If electrocautery or RF ablation is medically necessary, observe the following to minimize risk to the patient and device:
 - Program the pulse generator to Therapy Off mode.
 - Have external defibrillation equipment available.
 - Avoid direct contact between the electrocautery equipment or ablation catheters and the pulse generator and subcutaneous electrode.
 - Keep the path of the electrical current as far away as possible from the pulse generator and subcutaneous electrode.
 - If RF ablation and/or electrocautery is performed on tissue near the device or subcutaneous electrode, verify pulse generator function (see "Post-Therapy Pulse Generator Follow Up" on page 13). For electrocautery, use a bipolar electrocautery system where possible and use short, intermittent, and irregular bursts at the lowest feasible energy levels.



- Lithotripsy. Extracorporeal shock wave lithotripsy (ESWL) may cause electromagnetic interference with or damage to the pulse generator. If ESWL is medically necessary, consider the following to minimize the potential for encountering interaction:
 - Avoid focusing the lithotripsy beam near the pulse generator implant site.
 - Program the pulse generator to Therapy Off mode to prevent inappropriate shocks.
- Ultrasound energy. Therapeutic ultrasound (e.g., lithotripsy) energy may damage the pulse generator. If therapeutic ultrasound energy must be used, avoid focusing near the pulse generator site. Diagnostic ultrasound (e.g., echocardiography) is not known to be harmful to
- energ , acor. If therapo generator site. Diagr the pulse generator. Conducted electric test that in ' conducted electrical current. Any medical equipment, treatment, therapy, or diag test that introduces electrical current into the patient has the potential to interfere with pulse generator function. Medical therapies, treatments, and diagnostic test use conducted electrical current (e.g., TENS, electrocautors) electrodiagnostic testing, electromagnitudes. **Conducted electrical current.** Any medical equipment, treatment, therapy, or diagnostic with pulse generator function. Medical therapies, treatments, and diagnostic tests that use conducted electrical current (e.g., TENS, electrocautery, electrolysis/thermolysis, treatment, and monitor device performance during the treatment. After the treatment, verify pulse generator function (see "Post-Therapy Pulse Generator Fall 13). electrodiagnostic testing, electromyography, or nerve conduction studies) may interfere with or damage the pulse generator. Program the device to Therapy Off mode prior to the
 - Transcutaneous Electrical Nerve Stimulation (TENS). TENS involves passing electrical current through the body, and may interfere with pulse generator function. If TENS is medically necessary, evaluate the TENS therapy settings for compatibility with the pulse generator. The following guidelines may reduce the likelihood of interaction:
 - Place the TENS electrodes as close together and as far away from the pulse generator and subcutaneous electrode as possible.
 - Use the lowest clinically-appropriate TENS energy output.
 - Consider cardiac monitoring during TENS use. Additional steps can be taken to help reduce interference during in-clinic use of TENS:
 - If interference is suspected during in-clinic use, turn off the TENS unit.

Do not change TENS settings until you have verified that the new settings do not interfere with pulse generator function.

If TENS is medically necessary outside the clinical setting (at-home use), provide patients with the following instructions:

Do not change the TENS settings or electrode positions unless instructed to do so.

- End each TENS session by turning off the unit before removing the electrodes.
- If the patient receives a shock during TENS use, they should turn off the TENS unit and contact their physician. Follow these steps to use the programmer to evaluate pulse generator function during TENS use:
 - 1. Program the pulse generator to Therapy Off mode.
 - Observe real-time S-ECGs at prescribed TENS output settings, noting when
 - When finished, turn off the TENS unit and reprogram the pulse generator to Therapy

You should also perform a thorough follow-up evaluation of the pulse generator following TENS, to ensure that device function has not been compromised (see "Post-Therapy Pulsa Generator Follow Up" on page 13). For additional information contusing the information on the back cover Forzeldet version; ugn toll Generator Follow Up" on page 13). For ad using the information on the back cover.

• Electronic Article Surveilled

impact to continuous

- Electronic Article Surveillance (EAS) and Security Systems. Advise patients how to avoid impact to cardiac device function due to antitheft and security gates, tag deactivators, or tag readers that include radio frequency identification (RFID) equipment. These systems may be found at the entrances and exits of stores, at checkout counters, in public libraries, and in point-of-entry access control systems. Patients should avoid lingering near or leaning against antitheft and security gates and tag readers. In addition, patients should avoid leaning against checkout counter-mounted and handheld tag deactivation systems. Antitheft gates, security gates, and entry control systems are unlikely to affect cardiac device function when patients walk through them at a normal pace. If the patient is near an electronic antitheft, security, or entry control system and experiences symptoms, they should promptly move away from nearby equipment and inform their doctor.
- Elevated Pressures. The International Standards Organization (ISO) has not approved a standardized pressure test for implantable pulse generators that experience hyperbaric oxygen therapy (HBOT). Elevated pressures due to HBOT may damage the pulse generator. Prior to starting an HBOT program, the patient's attending cardiologist or electrophysiologist should be consulted to fully understand the potential consequences relative to the patient's specific health condition. More frequent device follow-up may be warranted in conjunction with HBOT. Evaluate pulse generator operation following high pressure exposure (see "Post-Therapy Pulse Generator Follow Up" on page 13). The extent, timing, and frequency of this evaluation relative to the high pressure exposure are dependent upon current patient health, and should be determined by the attending cardiologist or electrophysiologist. Refer to the appropriate pulse generator manual for

additional information about device-specific high pressure testing results. If you have additional questions, contact Boston Scientific using the information on the back cover.

Follow-up Testing

- **Low shock impedance.** A reported shock impedance value of less than 25 ohms from a delivered shock could indicate a problem with the device. The delivered shock may have been compromised, and/or any future therapy from the device may be compromised. If a reported impedance value of less than 25 ohms is observed, correct functioning of the
- is no assurance that conversion will occur post-operatively. Be aware that changes in the patient's condition, drug regimen, and other factors may change the DFT, which may result in nonconversion of the arrhythmia post-operatively. Verify with a conversion test that the patient's tachyarrhythmias can be detected and terminated bear the patient's status has changed or Forseldet versi aware that changes in the patient's tachyarrhythmias can be detected and terminated by the pulse generator system if the patient's status has changed or parameters have been reprogrammed.

 • Follow-up considerations for patients leaving at a considerations of the patients leaving at a considerations of the arrhythmia post-operatively. Verify with a conversion test that the patient's tachyarrhythmias can be detected and terminated by the pulse generator system if the patient's status has changed or parameters have been reprogrammed.
 - implant to a country other than the country in which their device was implanted. Regulatory approval status for devices and associated programmer software configurations varies by country; certain countries may not have approval or capability to follow specific products. Contact Boston Scientific, using the information on the back cover, for help in determining feasibility of device follow-up in the patient's destination country.

Explant and Disposal

- Handling at explant. Before explanting, cleaning, or shipping the device, complete the following actions to prevent unwanted shocks, overwriting of important therapy history data, and audible tones:
 - Program the pulse generator to Therapy Off mode
 - Disable the beeper, if available.
 - Clean and disinfect the device using standard biohazard handling techniques.

Supplemental Precautionary Information

Post-Therapy Pulse Generator Follow Up. Following any surgery or medical procedure with the potential to affect pulse generator function, you should perform a thorough follow up, which may include the following:

- Interrogating the pulse generator with a programmer
- Reviewing stored events, fault codes, and real-time S-ECGs prior to saving all patient data

- Verifying the appropriate final programming prior to allowing the patient to leave the clinic

 ** Ending session

 Potential Adverse Events

Lustanala različica. Ne uporabite.

er in him versio. Ala Kayta.

A varsion. Användel.

21/20 ciiriim. Kullanma

clinic

** Ending session

**Otential Adverse Events

Potential adverse events related to implantation of the S-ICD System may include, but are not limited to the following: Delayed therapy delivery
Discomfort or prolonged healing of incision
Tlectrode deformation and/or breakage
ectrode insulation failure
sion/extrusion
re to deliver the limited to, the following:

- Allergic/adverse reaction to system or medication
 Bleeding
 Conductor fracture
 Cyst formation
 Death
 Delayed therapy delivery
 Discomfort or part Wersia Przeterminowana. Nie używać. Utdatert versjon. Skalikke brukes.

- Versiume expirata. Anuse utiliza. Versão obsoleta. Não utilize. · Lastarana verzia. Nepoližívat.

- Fever
- Hematoma/seroma

- Hemothorax
- Improper electrode connection to the pulse generator
- Inability to communicate with the pulse generator

- Inappropriate shock deliver.

 Infection Injury to or pain in upper extremity including clavicle, shoulder, and arm
 Keloid formation
 Migration or dislodgement
 Muscle/nerve stimulation
 Nerve damage
 Pneumothorax
 Post-shock/post-page discords reumothorax

 Post-shock/post-pace discomfort

 Premature battery depletion

 Random component failures

 Stroke

 Subcutanec

 - ...comfort
 ...y depletion
 ...component failures
 stroke
 Subcutaneous emphysema
 Surgical revision or replace
 (ncope
 sue rec

Linphysema

Lai révision or replacement of the system

Syncope

Tissue redness, irritation, numbness or necrosis

adverse events occur, invasive corrective active I replacement of the system

Jue

Tissue redness, irritation, numbness or necrosis

If any adverse events occur, invasive corrective action and/or S-ICD System modification or removal may be required. avan ciiriim. Kullanma

eceive an S-ICD System .ed to, the following: رression/anxiety
Fear of device malfunction
Fear of shocks
Phantom shocks Patients who receive an S-ICD System may also develop psychological disorders that include, but HEANING FREDOWN WINN LLAN XOUGHOUSE HE.

- Aedinid Aeksioon, Hyde Kasiliade.

Version Périmée. Ne pas villiser.

Welt utgafa. Notio akki.

Versione obsoleta. Non utilizzare.

Novecojusi versija. Neizmantot.

Pasenusi Versija, Nenaudokite.

Elavilt verzió. Ne haszhália!

Jidatert versjon. Skalikke brukes.

Versão obsoleta. Não Utilize.

Juliane Mie lighnate.

Versiline expirate. Anuse utiliza.

Zastarana verzia. Nepoliživat.

instrum Analytica. Ne liborabite.

Augraion. Användel.

avan ciiriim. Kullanma

Version obsoleta. No utilizar.

- Version Penninger, Memojte upotrebljavati.

 Lastariela verzina. Memojte upotrebljavati. Outdated version. Do hot lise.

Packagin Packagin

Programmer components include:

Model 3200 Programmer with

Model 3203 Telent Degrammer components include:
Model 3200 Programmer with pre-loaded software
Model 3203 Telemetry Wand
Model 3204 External power Model 3203 Telemetry Wand
 Model 3204 External power supply and AC power cord
 Visually inspect the packaging to ensure the contents are complete. Do not use if there is evidence of damage. of damage.

In case of damage return the product to Boston Scientific. For return packaging and instructions, instruct

instru In case of damage return the product to Boston Scientific. For return packaging ar contact Boston Scientific using the information on the back cover of this manual. Move collisive is ila. Nei Zhananto Pasenusi Versija. Nenaudokite.

Elavilt verlio. Ne haszhálial.

Weisia pileterninowana. wie utywat.

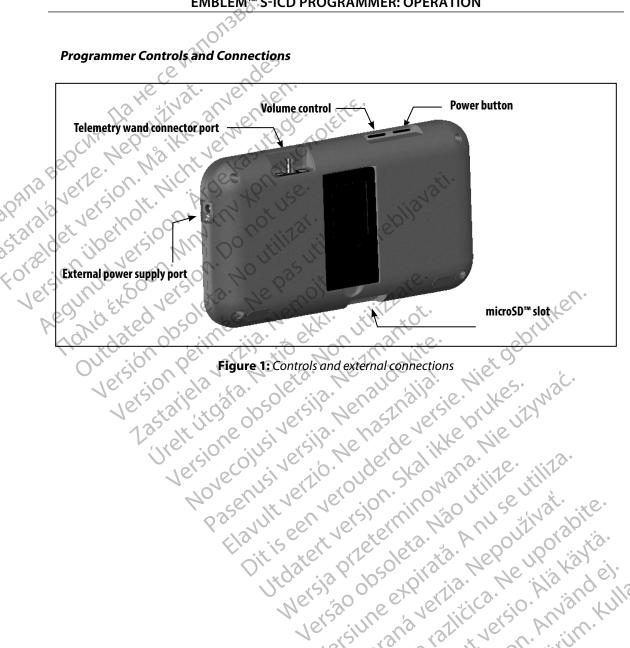
Versing expirate. Anuse utiliza.

*Zastaranaverzia. Nepoližívat.

Jidatert versjon. Skalikke brilkes.

· Versão obsoleta. Vão Utilize.

Programmer Controls and Connections



Elavilli verzio ne hasznalia

Versiline expirata. Anuse utiliza.

Lastarana verzia. Nepoliživat.

instrum ralifica. Ne Uporabite.

ersio. Ala Kayta.

A varsion. Användel.

avan ciiriim. Kullanma

Versão obsoleta. Vão Utilize.

Charging the Programmer

The programmer is primarily intended to be operated while connected to the AC-powered external **Mote: Current session data may be lost if a 45 minute period of inactivity occurs during an active telemetry session and the programmer is not connected to AC power.

Typical charge time for a fully discharged battery is 5 hor the programmer is in use while bor. power supply, but may also be operated on battery power provided that the internal battery is adequately charged. The programmer is recharged whenever it is connected to the AC-powered external power supply. When not in use, it is recommended that the programmer remain connected

Typical charge time for a fully discharged battery is 5 hours. However, more time may be required if

ypical charge time for a fully discharged battery i the programmer is in use while being recharged.

The Battery Status indicator look the main be the main battery power when the unit is in use:

All four bars are illumined. The Battery Status indicator located on the upper right corner of the screen displays the status of • All four bars are illuminated (green) – The battery is 100% charged
• Three bars are illuminated (green) – The battery is 100% charged

- Two bars are illuminated (yellow) The battery is 50% charged
- One bar is illuminated (red) The battery is 25% charged

The programmer displays one of the following alert screens as battery power gets progressively To charge the programmer:

1. Connect the external 18).

2. P' Programmer displays one of the following alert screens as battery power gets progress for.

Programmer Battery Low

Programmer Battery Critical

Out Of Power

Charge the programmer:

1. Connect the external power supply cable to the programmer (see Figure 1 on page 18).

Warning: Use the programmer only with the external power supply packaged with the programmer. Using other power supplies may cause damage to the programmer. To avoid risk of electrical To avoid risk of electric shock, the programmer's external power supply must only be connected to a grounded electrical outlet.

EMBLEM™S-ICD PROGRAMMER: OPERATION

Caution: Power cords are for connection to 230 VAC supply mains. Outside North America, use the supplied power cord that exactly matches your AC electrical outlet.

Using the Programmer

Turning the Programmer On

The program The programmer power button is located in the recess above and behind the left corner of the

Note: If the programmer cannot be turned on while it is connected to AC power via the external power supply, first unplug the external power supply cord from the programmer. Press and hold the programmer power be active. AC power via the external via the ext Jersian iiberi the external power supply, first unplug the external power supply cord from the programmer. Press and hold the programmer power button until the display screen is

Changing the Programmer Volume Level

The volume level of programmer-generated sounds may be temporarily adjusted using the volume control (see Figure 1 on page 18). This level is automatically reset when the programmer is restarted.

Placing the Programmer in Suspend Mode

The programmer has a Suspend Mode which is activated automatically to conserve power. The display will be blank when this mode is in effect.

The programmer enters Suspend Mode whenever:

- The power button is momentarily pressed and released

 The programmer is not connected to the connected to th The programmer is not connected to the external power supply, it is not in active or 1. was a strictly ersio. His kinytis. communication with an S-ICD pulse generator, and no user activity has occurred for 15 minutes Zastarana verzia. Nepol

avan ciiriim. Kullanma

Momentarily pressing the power button will resume normal operation. A varsion. Användeil Versiune expirat

Turning the Programmer Off

There are two ways to turn the programmer off:

- 1. Press and hold the power button until the System shutdown menu appears. Select Power off from the popup and confirm by pressing OK.
- From the programmer start-up screen, press the Power Off button and select OK at the

یریو programmer start confirmation prompt. **Using the Programmer Touch Screen**The programmer is equirable viewing and ' viewing angle by using the kick-stand located on the back of the programmer. All interaction with the programmer is conducted using the fingers to touch the appropriate areas on the second Scroll on-screen lists by sliding a finger in and decomposition. Scroll on-screen lists by sliding a finger up and down the list. An on-screen keyboard is presented whenever text entry is required.

Versiline expirata. Anuse utiliza.

Lastarana verzia. Nepoliživat.

· Versão obsoleta. Vão Utilize.

break if the programmer is made of glass or acrylic and could break if the programmer is dropped or if it receives significant impact.

Do not use if screen is broken or cracked as this could cause in: Novecojusi versija. Neizm Pasenusiversila. Nenaudoki Welt itt data. Notice Lastarjela verz Versione obsoleta. Ne Judicit verzini. zranina na na nie nizywat. Elavilt verzió. Ne használia! Jidatert versjon. Kalikke brukes.

EMBLEM™S-ICD PROGRAMMER: OPERATION

Using the Wand

The Model 3203 wand ("the wand") makes it possible for this programmer to communicate with the pulse generator.

Caution: Use only the Model 3203 telemetry wand with the programmer.

Caution: The wand is a non-sterile device. Do not sterilize the wand. The wand must be contained in a sterile barrier before use in the sterile field

must be contained in a sterile barrier before use in the sterile

Caution: The programmer is non-sterile and cannot be sterilized.

It must remain outside the sterile field.

To connect the wand to the programmer is non-sterile and cannot be sterilized. To connect the wand to the programmer, slide the wand cable connector over the communication connector port located on the rear edge of the programmer (see Figure 1 on page 18).

To disconnect the wand, grass the ward.

To disconnect the wand, grasp the wand cable connector and gently pull it straight off the communication connector port.

Note: Do not pull or yank on the cable to disconnect the wand from the programmer. Such action could cause hidden damage to the cable. A damaged cable might reduce wireless communication capabilities and require a replacement wand.

Optimal telemetry depends on the wand being placed directly over the implanted pulse generator. Although it may appear that the programmer is in communication with the pulse generator at greater distances, programming should always be performed with the wand placed directly over the implanted pulse generator.

Warning: The presence of other equipment operating in the same frequency bands used by the programmer (402-405 MHz for the pulse generator and 2.4 GHz for the printer) may interfere with communication. Interference can occur even if the other equipment complies with the International Special Committee on Radio Interference (CISPR) emission requirements. This RF interference can be reduced by increasing the distance between the interfering device and the programmer and pulse generator or printer. If communication problems persist, refer to the Troubleshooting section of this manual.

When telemetry loss occurs, the display screen will turn yellow and a message will appear with the text "Communication Loss" to alert the user. Reposition the wand to establish communication. The programmer will return to the screen that was active before telemetry loss if the pulse generator is found and programming can continue gen Anyo ne, inult versit or Kiriim. K 1-ctarela razlici found and programming can continue.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

Note: If communication cannot be reestablished, the session should be ended and restarted by scanning for the pulse generator.

Navigation

The programmer's graphic user interface (GUI) facilitates management and control of the S-ICD System. The Navigation Bar and on-screen icons at the top of the screen allow the user to navigate programming software screens. In addition, a continuous subcutaneous electrocardiogram (S-ECG) is displayed along the bottom of the screen during Online (active) communication with the pulse

Screen Header
When et generator.

creen Header

When the programmer is Offline (inactive communication), the screen header displays the Battery when the programmer is Online (active communication), the screen header displays:

Therapy On/Off
Patient name
Patient heart rate
Programmer Battery and Telemetry status indicator
Screen title
Rescue shock icon wnen the progra Status Indicator.

When viewing Offline Stored Sessions, the screen header displays:

• Patient name

- Versiline expirata. Anuse utiliza. Lastarana verzia. Nepoližívat. Jack arala rallicica. Ne Uporabite.

EMBLEM™S-ICD PROGRAMMER: OPERATION

Navigation Bar

The Navigation Bar is the primary method for navigating the Online programmer screens. The bar is located along the top edge of the programmer screen and chosen screens appear with their selection icon highlighted.

Table 1: Icon descriptions on page 25 provides a list of the programmer icons and their corresponding descriptions.

Restarting the Programmer

error conditions and automatically initiate a restart sequence in response. Follow the on-screen instructions to complete the programmer-initiated restart sequence.

The programmer The programmer's operating system is self-monitoring and is generally able to sense many system

The programmer may need to be manually restarted if:

- You cannot exit a screen
- The operating system stops responding

A manual restart is accomplished by pressing and holding the power button until the system shutdown menu appears on the screen. Select Restart from the popup and confirm by pressing OK.

Jidateri versjon. Skalikke br If the programmer does not respond to a restart process, contact Boston Scientific using Wersja przeterminowana. Nie Dit is een verouderde the information on the back cover of this manual. Elavult verzió. Nel Versiline expirate. Anuse utiliza.

· Versao obsoleta. Não utilize.

Zastarana verzia. Nepoližívat.

waseraralarallicica. Neurorabite.

er. J. Alakaylia.

A varsion. Användel.

avan ciiriim. Kullanma

EMBLEM™ S-ICD PROGRAMMER: OPERATION

Fable 1: Icon descriptions			
lcon	Description	User Application	
	Main Menu Lon	Allows user to return to the main menu.	
000	Automatic Setup Icon	Allows user to access the Automatic Setup menu.	
3	Device Settings Icon	Allows user to access the S-ICD device settings screen.	
o Tolow	Device Status Icon (open folder and closed folder)	Allows user to access the S-ICD device status screen. User can view number of shocks delivered since the last update as well as the S-ICD device battery life.	
	Patient View Icon	Allows user to access the patient chart screen. User can view information on the S-ICD device battery life.	
SON EX	Captured and Stored Episodes S-ECG Icon	Allows user to access captured S-ECG and stored episode screens	
/ M. 73	Induction Test Icon	Allows user to access induction screen.	
Je Col	Manual Shock Icon	Allows user to access the manual shock screen.	
0000: % 1111	Battery & Telemetry Meter	Left side of the meter allows user to view the programmer's battery status. The right side of the meter allows viewing of telemetry signal strength.	
	Capture S-ECG	Allows user to capture a live S-ECG.	
	S-ECG Display Settings	Allows user to modify the zoom and sweep speed on the live S-ECG.	
	Heart Rate Icon	Allows user to view current heart rate.	
♠ Shock	Rescue Shock Icon	Allows user to administer a rescue shock	
A B	Option Selection Switch	Allows user to select one of two options, e.g. A or 8	

Versitarance rathur version, stirting 25 25

Configuring the Programmer

Configuring Programmer Settings

The programmer should be configured before communication with a pulse generator is attempted. This includes setting the date and time format, time zone, language and printer. Once these settings are configured during the initial setup process they become the default parameters and will not normally need to be changed with each session.

To configure the programmer settings:

Select the Programmer Settings button on the programmer start-up screen (Figure Aegunud yezz). 2 on page 26) to display the Programmer Settings screen (Figure 3 on page



avan ciiriim. Kullanma A varsion. Användel. 26

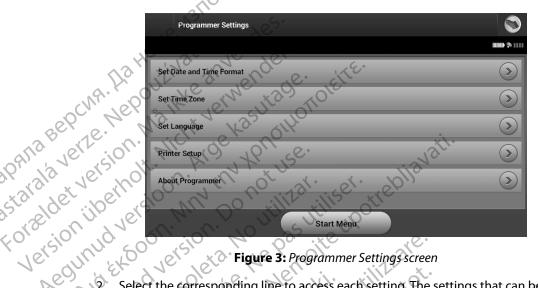


Figure 3: Programmer Settings screen

- Aegunud vere hoya Expor 2. Select the corresponding line to access each setting. The settings that can be configured include:

 Date and time format

 Language
 Printer

 Pate and Time Format

 To set the date and time format: Language
 Printer

 Date and Time Format

 1. 5 Select the corresponding line to access each setting. The settings that can be configured include:

 Date and time format
 Time zone
 Language
 Printer

 set the date and time format:

 Select Set Date and Time Format on the Programmer Settings screen (Figure 3 on page 27). The Date and Time Settings screen appears.

 Select the desired date format.
 Select the Save button to save the changes and return to the Programmer Settings screen, or select Cancel to return to the Programmer Settings screen without saving the changes.

- avan ciiriim. Kullanma select Cancel to return to the Programmer Settings screen without saving the changes.

27

EMBLEM™S-ICD PROGRAMMER: OPERATION

Time Zone

The time zone setting controls two S-ICD System parameters, one for the programmer (the time shown on screens and printed reports), the other for pulse generators (the electronic filter that is intended to minimize electromagnetic interference (EMI)).

Choosing the correct time zone setting for the programmer will result in the electronic filter of interrogated pulse generators being set to the appropriate regional electrical power line frequency.

Specifically, the pulse generator line frequency filter is automatically programmed to either 50 Hz or 60 Hz, based on the time zone setting of the interrogating programmer.

- To set the time zone Select Set Time Zone on the Programmer Settings screen. The time zone selection screen appears (Figure 4 on page 29).
 - Aegunzi. Select the time zone button for the zone in which the programmer will be used. A checkmark will appear in the selected button.
 - Select the Save button to save the changes and return to the Programmer Settings screen, or select Cancel to return to the Programmer Settings screen without saving the changes.

In the rare cases where a single time zone setting includes regional power line frequency differences, two line frequency options are available. Choose the option with the correct frequency for the region where the programmer is located.

Because a programmer will set the time zone (and electronic frequency filter) of pulse generators it interrogates to match its own time zone setting, be aware that travelling patients whose devices are J have Versiume expirata. Anuse 1. 2. Starana verzia. Nepoużiwat interrogated in time zones or countries other than the one in which they reside may need to have Jersão obsoleta. Vão Nersja Przetermin their pulse generator time zone reset upon returning home.

w. Jahnit Versio. Hakaylia. avan ciiriim. Kullanma A. Jaraion. Användei. 28



- yuage Preference

 set the language preference:

 1. Select Set Language on the Programmer Settings screen. The Language Settings screen appears. Scroll the list and select a language.

 2. Select the Sava beautiful Select and Select and Select and Select the Sava beautiful Select and Select and Select and Select and Select the Sava beautiful Select and Select and
 - Select the Save button to save the changes or select Cancel to return to the Programmer Versing expiration Anuse Utiliza. Settings screen without saving the changes. If the language is changed the settings screen without saving the changes. If the language is changed programmer will automatically restart and return to the Startup screen. Versão obsoleta. Não utilize

Lastarana verzia. Nepoližívat. waser aralara Zilicica. Ne Uporabite. w. Janin Versio. Hakaylia. avan ciiriim. Kullanma A. Jarsion. Användel. 29

Printer Selection

The programmer communicates with the printer via *Bluetooth*™ wireless technology. Only Boston Scientific-approved printers should be paired and used with the programmer. To select a printer to be paired and used with the programmer:

- 2. Select Printer Setup on the Programmer Settings screen. The Printer Setup screen (Figure 5 on page 30) may appear with a previously configured printer displaced the default printer. If a default printer has not already be printered. Figure 5 on page 30) may appear with a previously configured printer displayed as the default printer. If a default printer has not already been selected and configure the screen will be empty and the programmer will scan the apprinters. A Scan Progress Bar will appear in currently scanning for the screen will scanning for the scanni ייים אונים אייים אונים אייינים איינים the default printer. If a default printer has not already been selected and configured, مان pe empty and t بانت pe empty and t بانت pe empty and t currers. A Scan Progress Bar w currently scanning for printers.



Figure 5: Printer Setup screen

30

- 3. Select the printer of choice from among those found during the scan. If none were found, a window will appear stating that there are no printers. Rescan or select the Cancel button to return to the Programmer Settings screen.
- keyboard (up to 15 characters). The printer serial number will appear with the printer
- Select the Save button to save the changes and return to the Programmer Settings screen, or select Cancel to return to the Programmer Settings screen without saving the changes. A confirmation screen will appear when the printer setup is completed.

 Note: Refer to the Troubleshooting section for information.

 Programmer Software Vereing.

Note: Refer to the Programmer Software Version

To view the process

- To view the programmer's software version:

 1. Select About Programmer 1. Select About Programmer on the Programmer Settings screen. The Programmer Software Version information screen appears.

 2. The Programmer C. 1.
 - 2. The Programmer Software Version information screen displays the current version of the programmer software Select the Continue Law. the programmer software. Select the Continue button to return to the Programmer Note: The printed reports also contain the programmer software versions. Settings screen.

Versiline expirate. Anuse utiliza. · Versao obsoleta. Não Utilize. Zastarana verzia. Nepoliživat. waser and radicion. Ne uporabite. w. Janin Jersio. Ala Kaylia. avan ciiriim. Kullanma A varsion. Användel. 31

Bluetooth™ Data Export

The programmer can be configured to wirelessly export patient data to desktop or notebook Note: Data transfer is supported for computers running Windows. The data transfer feature is not available for tablets or smartphones.

1. Ensure the computer to be paired has been made discourse mer searches for nearby computers. computers that are equipped with Bluetooth™ wireless technology. The programmer and each procedure for pairing the programmer with a computer is different from the procedure used to pair

is not available for tablets or smartphones.

1. Ensure the computer to be paired has been made discoverable, since the programmer searches for nearby computers during the pairing process.

Note: Detailed instructions for accomplishing windows have a complishing windows. ...puters running Windows. The conjugate the computer to be paired has been made discoverable, single mer searches for nearby computers during the pairing process.

Note: Detailed instructions for accomplishing the windows help files under the Bluetooth

- Note: Detailed instructions for accomplishing this are found in the Microsoft Windows help files under the general heading of "Why can't I connect Bluetooth device to my computer?"

 2. Once the target computer has "Data but" Bluetooth device to my computer?"

 2. Once the target computer has been made discoverable, select the Export Programmer Data button on the programmer start-up screen. The Export Programmer Bluetooth screen will appear Select the Computer Select the Export Programmer Data Select Bluetooth screen will appear. Select the Set Up Authorized Computers button to scan for nearby computers and begin the pairing process.
 - 3. When the scan is complete the screen will list the discovered computers (the three computers having the strongest *Bluetooth*™ signals) under the heading Unauthorized Computers Nearby (Figure 6 on page 33). Choose the computer you wish to pair with and press the plus button next to it to complete the pairing process.
 - 4. During the pairing process, both the programmer and the computer will present identical numeric passkeys and both machines will ask you to confirm that the two numbers are the same. The passkey is only presented while pairing and is used to verify that the correct machines are being paired.
 - 5. Successful pairing is indicated when the listing for the subject computer appears in the Authorized Computers column instead of the Unauthorized Computers Nearby column.
 - avan ciiriim. Kullanma A. Incion. Användel. 6. Authorized computers may be renamed if desired. Press and hold the listing for the computer until the Rename an Authorized Computer popup appears. Lantinut versio.

Lastarana veri 100 takalaralikica 32



Versione obsoleta. Non utilit Novecolusi versila. Neizhantot. Lastariela Verzija. Nen Jrelt Jitgata. Notio ekki. Jersion périmée.

Pasenusi versija. Nenaudokite.

Elavilt verzió. Ne használia!

Jenarel Mersia Dizerthinonana. Nie używać.

Versiline expirata. Anuse utiliza.

· Lastarana verzia. Nepoližívat.

Jidatert versjon. Skal jikke brukes.

Versão obsoleta. Vão Utilize.

Programmer Modes of Operation

Online Behavior

The programmer's interface varies according to whether the programmer is Online (actively communicating) or Offline (not communicating) with a selected pulse generator.

An Online session begins when the programmer establishes a telemetry link with a specific pulse generator. A yellow alert screen is displayed if the telemetry signal is lost between the programmer and the pulse generator for more than five seconds during active communication. This may occurved out of theved out of theved out of the until telemetry is reestablished.

Telemetry recommunity is recommended. if the wand is moved out of the telemetry communications range or if noise or interfering objects inhibit communication. Programming commands, including Rescue Shocks, will not be available

Telemetry reconnection may occur automatically if the reason for the telemetry loss has been remedied, e.g. moving the wand back into telemetry range of the pulse generator or removing the source of interference or noise. Restart the session if the telemetry link does not resume within one minute.

When in active communication with a pulse generator, the programmer emits an audible notification to indicate that the pulse generator is preparing to deliver a shock, whether that shock is commanded or is in response to a detected arrhythmia. The notification continues until the shock is either delivered or aborted.

Offline Behavior

The programmer is Offline when it is not actively communicating with a pulse generator. Jersinne expirata. A muse utiliza wersia Przeterminowana *Versao obsoleta. Não utilize Dit is een veroude sion skal Programmer settings can be accessed and stored patient sessions can be viewed and/or printed during Offline sessions. *Lastarana verzia. Nepolizivat. Luzerz rala različica. Ne uporabite.

A. Jarsion. Användel.

avan ciiriim. Kullanma

Stored Patient Sessions

During a patient follow-up visit, the programmer will retrieve data from the pulse generator memory. The programmer will store up to 50 patient sessions or 90 days of patient session data. When the 51st session occurs, the programmer will automatically replace the oldest stored session with the new data. Additionally, when the 90th day passes after a patient session was stored, the A stored session includes the following information:

• Captured S-ECG Reports (including to the following information):

• Episode History (including to the following information): programmer will automatically delete that patient session when the programmer is next powered

- Louiowing information:

 Laptured S-ECG Reports (including Induction S-ECGs)
 Episode History (including any downloaded episodes)
 Patient Data
 Programmed Device Settings

 To view c**

- Programmed Device Settings

 To view stored patient sessions:

 1. From the From the programmer start-up screen, select Stored Patient Sessions.
 - Select the desired patient session.

To purge stored patient sessions:

- Jeiect the Purge All Data button.

 A confirmation dialog appears. Select OK to purge all the stored patient session data. Versing expirate. Anuse utiliza Wersia Prieterminowana. Jidatert versjon. Skal Versão obsoleta. Vão utilize

Lastarana verzia. Nepoližívat.

Modes of Operation for the Pulse Generator

The pulse generator has the following modes of operation:

 Therapy Off
 MRI Protection Mode
 Shelf Mode
 The Shelf mode is a low power consumption state intended for storage only. When a pulse generator in Shelf mode is interrogated by a programmer, it exits Shelf mode and defaults to Therapy Off mode. A full-energy capacitor reformation is performed is prepared for set-up. Once the pulse to the pulse. generator in Shelf mode is interrogated by a programmer, it exits Shelf mode and defaults to Therapy Off mode, A full-energy capacitor reformation is performed and the pulse generator reprogrammed back into Shelf mode.

Therapy On Mode

The Therapy On mode is the primary operating mode of the pulse generator, allowing automatic detection of, and response to, ventricular tachyarrhythmias.

*herapy Off Mode**

The Therapy Off mode disables automatic therapy delivery while still allowing manual control of detection of, and response to, ventricular tachyarrhythmias.

Therapy Off Mode

shock delivery. Programmable parameters may be viewed and adjusted via the programmer. The subcutaneous electrogram (S-ECG) may be displayed or printed from this mode.

The pulse generator defaults to Therapy Off mode when it is taken out of Shelf mode.

Note: Manual and rescue shock therapy are available when the device is set to Therapy On or Therapy Off mode and is actively communicating with a pulse generator, but only ally sersio. Ala käyl avan ciiriim. Kullanma Lastarana Verla. N after the initial Setup process is complete. Refer to Automatic Setup on page 45. Versiune expirat 12ctarala razlicica. Nel A. Varcion. Användel.

MRI Protection Mode

MRI Protection Mode is available in EMBLEM S-ICD devices.

MRI Protection Mode modifies certain pulse generator functions in order to mitigate risks associated with exposing the S-ICD system to the MRI environment. Choosing MRI Protection Mode will initiate a sequence of screens to assess the patient's eligibility and readiness to undergo an MR Conditional MRI scan. Refer to the Summary Report to find out whether the device has been in Prior to the patient undergoing an MRI scan, an ImageReady S-ICD System must be programmed to the MRI Protection Mode using the programmer. In MRI Protection Mode:

Tachycardia therapy is suspended MRI Protection Mode. For a complete description of MRI Protection Mode, a list of MR Conditional

- A Time-out feature is nominally set to 6 hours, with programmable values of 6, 9, 12, and 24 hours
- Beeper is disabled

MRI Protection Mode is terminated by manual exit or through the user-programmed automatic MRI Protection Time-out period (refer to the MRI Technical Guide for MRI Protection Mode programming instructions.) Rescue Shock will also terminate MRI Protection Mode. When MRI Protection Mode is exited, all parameters (except for the Beeper) return to the previously programmed settings. Nersja Przeterninowana. Nie uż

· Versão obsoleta. Não Utilize.

*Lastarana verzia. Nepoliživat.

Jidatert versjon. Skalikke **Note:** The Beeper can be reenabled after exiting MRI Protection Mode. Ditiseenverouderde Elavult verzió. Ne Versiline expirate. Anuse utiliza.

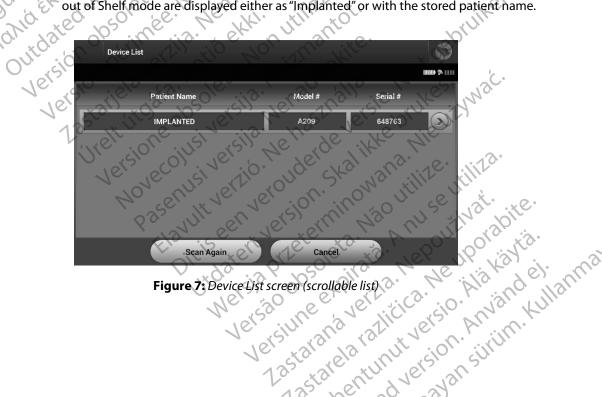
Connecting and Disconnecting from the S-ICD Pulse Generator

This section provides the information necessary for selecting, connecting to, and disconnecting from the pulse generator.

Caution: Use only the designated Boston Scientific S-ICD programmer and appropriate software application to communicate with and program the S-ICD pulse generator.

Scanning for Pulse Generators

- . Select the Scan For Devices button on the programmer start-up screen (Figure 2). The Scan Progress Bar is displayed during the scanning process, at the conclusion of which the Device List screen appears. Select the Cancel button at any time to end the scanning process.
- will be displayed on the Device List screen (Figure 7). The devices that are in She mode will be displayed as "Not Implanted." Any devices that were previously taken out of Shelf mode are displayed either as "Implanted" or with the stored particles. 16) will be displayed on the Device List screen (Figure 7). The devices that are in Shelf out of Shelf mode are displayed either as "Implanted" or with the stored patient name.



3. If the desired pulse generator is not listed, select the Scan Again button to re-initiate the scanning process. Select the Cancel button to return to the programmer start-up screen.

Note: Refer to the Inability to Communicate With the Pulse Generator heading within the Troubleshooting section for further assistance.

Connecting to a Pulse Generator

Select the desired pulse generator from the Device List screen (Figure 7) to initiate the communication session.

Note: Regardless of how many pulse generators are located by a scan, the user must select a specific pulse generator from the list in order to begin active communication.

nnecting to a Pulse Generator in Shelf Mode

- 1. The programmer connects to the selected pulse generator after the selection is
- 2. The Device Identification screen appears once communication is established with the pulse generator.

Note: The Device Identification screen is visible only while connecting to a pulse generator in Shelf mode.

The device model and serial numbers are automatically acquired and displayed during the initial scanning process. Select Continue to remove the device from Shelf mode and prepare for implantation, or select Cancel to return to the Device List screen.

Connecting to an Implanted Pulse Generator

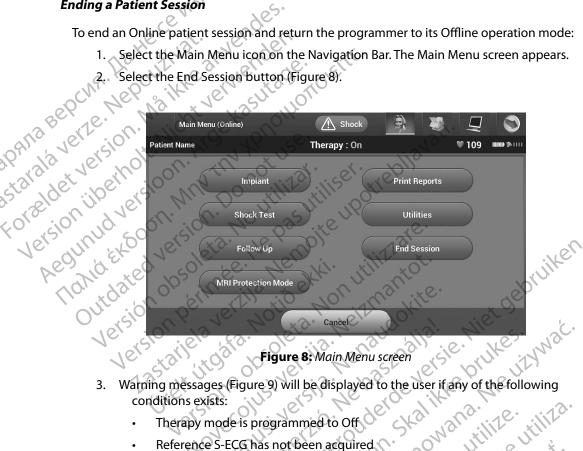
If an implanted pulse generator is chosen from the Device List screen, the following connection sequence occurs:

- 1. The programmer connects to the selected pulse generator after the selection is made. A window will appear indicating connection is in process.
- avan ciiriim. Kullanma The Device Status screen appears once communication is established with the pulse generator (Figure 16). with version - pul. Anva Zastarana ve Jetaralaralici

Ending a Patient Session

To end an Online patient session and return the programmer to its Offline operation mode:

- Select the Main Menu icon on the Navigation Bar. The Main Menu screen appears.



- - Automatic or Manual Setup has not been completed

 Optimization has not been completed att.

 Optimization was not Optimization has not been completed. This message is displayed if Setup.

 Optimization was not performed during the Automatic Setup. avan ciiriim. Kullanma A varsion. Användei. proc Ne. Versing expira Zastarana verzia.

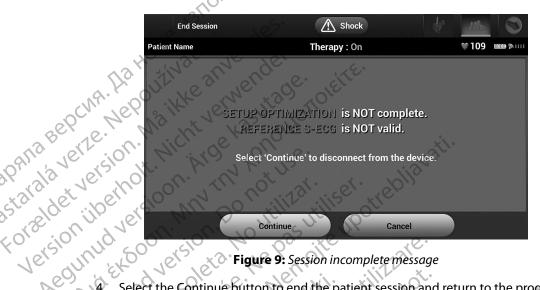


Figure 9: Session incomplete message

Aegunud vere MONIA EXFOR start-up screen, or select Cancel to remain Online and return to the Main Menu screen. Select the Continue button to end the patient session and return to the programmer

Note: Once the Continue button is selected, the session is stored and communication is terminated.

Note: A telemetry session must be terminated using the End Session process as described in steps 1 through 4 above in order for data obtained during that session to be saved. If the programmer is powered off during a session, either automatically or manually, session data will not be saved.

wasen and radicica. Ne uporabite. **Note:** In order to confirm that Therapy Mode is set to On upon disconnection, w. Janit Versio. Hakaylia. varni, Nepoll Wersja Przete always use the End Session process and review all displayed warning Versão obsoleta. Versiune expirata. A avan ciiriim. Kullanma messages. ? A varsion. Användel.

Programming the Pulse Generator at Implant

This section provides the information necessary for programming the pulse generator during an implant.

Caution: Use only the Model 3203 telemetry wand with the programmer.

Caution: Confirm that the programmer is in the intended in a sterile field. **Caution:** The wand is a non-sterile device. Do not sterilize the wand. The wand

must be contained in a sterile barrier before use in the sterile field.

Line wa Line varrier before use in the stand cannot be sterilized. It must remain outside the sterile field.

Caution: Confirm that the programmer is in communication with the intended implanted S-ICD pulse generator.

Entering Electrode Information

Entering Electrode Information

The program ntering Electrode Information

The programmer maintains information on the implanted electrode. To record this information for a Select the Implant button.
 Select the Automatic Setup icon in the Navigation Bar. The Automatic Setup screen appears (Figure 12).
 Select Set Electrode ID button. patient's new or replacement electrode:

- Wersia Prieterninowana. Nie używa

Versiline expirata. Anuse utiliza.

Lastarana verzia. Nepoliživat.

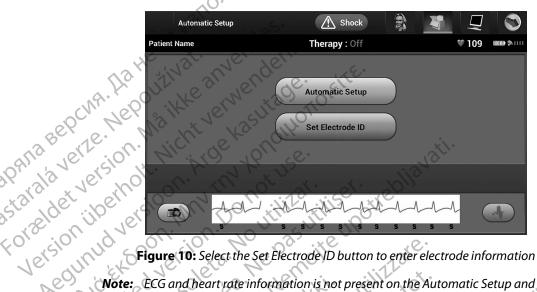
water and radicited. Ne liporabite.

er er himit versio. Ala Kaylia.

A varsion. Användel.

avan ciiriim. Kullanma

Versão obsoleta. Não utilize.



Aegunud vers Figure 10: Select the Set Electrode ID button to enter electrode information

Note: ECG and heart rate information is not present on the Automatic Setup and Electrode

ID setup screens until the electrode has been connected to the pulse consecution.

- Enter the electrode model and serial number.
- 6. Select the Program button to save the information. A confirmation screen will appear elect the Program button to save the information. A confirmation screen will appear during communication with the device. Select Cancel to cancel information storage and return to the Automatic Setup screen. Nersia przeterminowana. Nie uży and return to the Automatic Setup screen.

Versing expirata. And se utiliza.

Lastarana verzia. Nepoližívat.

Versão obsoleta. Vão Utilize.

Creating the Patient Chart

This chart contains reference information for the patient. To set up the patient chart:

- Select the Main Menu icon on the Navigation Bar.

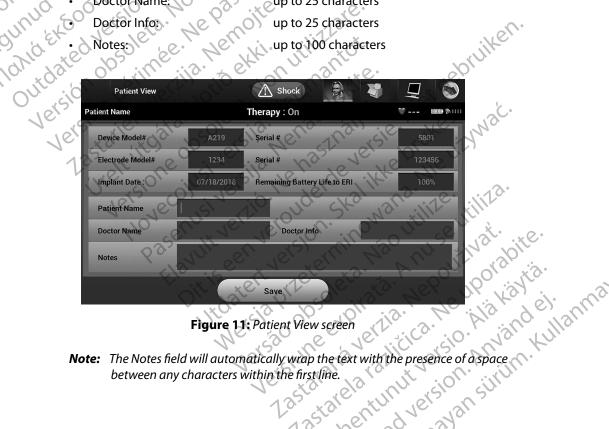
implant date appears on the third line of the enter the following patient information:

Patient Name:

Doctor Name Patient Name:

Doctor Name Doctor Name:

Doctor Info up to 25 characters up to 25 characters up to 25 charact imée. Ne pas __ guaracters up to 100 characters



5. Select the Save button to update the pulse generator with the patient information.

Note: Failure to save the new patient information will result in loss of the entered

Automatic Setup

utomatic Setup

Before the S-ICD device can be activated, it must go through an initial Automatic Setup Process at otrebliavati. the time of the implant.

The Automatic Setup Process is initiated as follows:

- 1. Select the Main Menu icon.
 2. Select the Implant bird.
 3. Select the ' 3. Select the Automatic Setup icon on the navigation bar. The Automatic Setup screen appears. Select the Automatic Setup button on this screen to advance to the screen.

 4. Select Configuration
 - appear: screen. rates greater than 130 bpm, select the Cancel button and refer to Manual Setup on page 73.

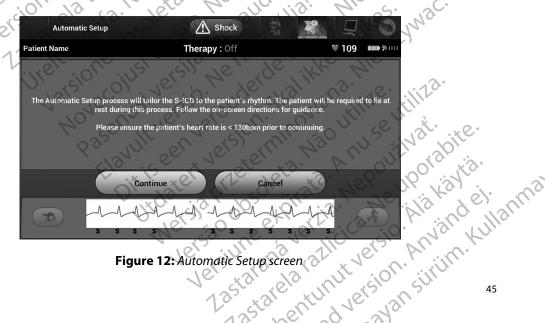


Figure 12: Automatic Setup screen

- - Perform the shock electrode integrity check to measure electrode impedance.
- Select the best sensing configuration. SMART Pass will be automatically conbased on the amplitude of the ECG signals in the selected vector. The sense electrode configuration appears on the printed report and can be viewed via Manual Setup process. The status of SMART Pass (On/Off) is displayed the Settings programmer screen and Summary Report of Charge and SMART Pass, see SMART Select the appropriate Select the best sensing configuration. SMART Pass will be automatically configured electrode configuration appears on the printed report and can be viewed via the Forældet version. Manual Setup process. The status of SMART Pass (On/Off) is displayed on the SMART Settings programmer screen and Summary Report (for more information on SMART
 - Select the appropriate gain selection. The selected sense gain appears on the

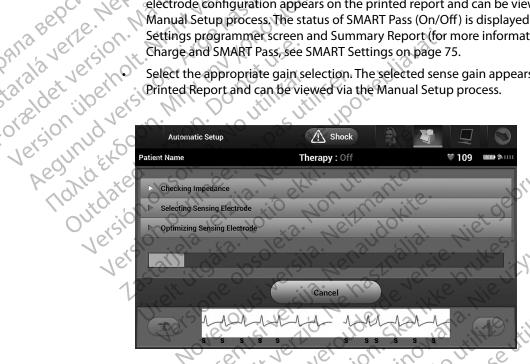


Figure 13: Measuring electrode impedance

The overall progress of the Automatic Setup process is shown in the status bar (Figure anan ciiriim. Kullanma who was a second of the second refu Zastarana verzia. 13). When each function is complete, the arrow next to the function moves to a down -sta Jetaralarazličica. N Versingeexpi position.

- 6. The Automatic Setup optimization process will be initiated. The programmer will display a message requesting that the patient sit up. If Automatic Setup is being performed during implant, or if the patient is unable to sit up for some other reason, this step can be omitted by selecting the Skip button. If desired, Automatic Setup can be repeated during a follow-up session to include the optimization step.
- Select the Continue button to finish the Automatic Setup process. A confirmation screen will appear when Automatic Setup is complete.
- Following the optional optimization process, the Acquire Reference S-ECG screen is displayed. Select the Continue button to acquire a reference S-ECG.
- During this process, a template of the patient's baseline QRS complex is stored in the pulse generator. Select Cancel at any time to end Reference S-ECG acquisition 14" acquisition is complete, select the Continue button

Select the Implant button.

Select the Device Settings icon on the Navigation Bar to display the Device Settings screen (Figure 14). Once Automatic Setup has been completed, the pulse generator therapy parameters may be selected.

To set the therapy parameters:

- et the therapy parameters:

 1. Select the Main Menu icon on the Navigation Bar.
- Lastarana verzia. Nepoližívat. water and radicion. Ne uporabite.

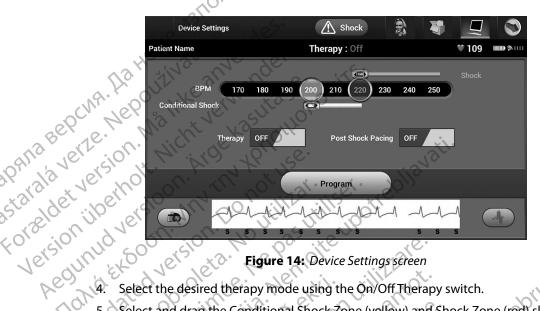


Figure 14: Device Settings screen

- Select the desired therapy mode using the On/Off Therapy switch.
- MONIA EXFOR 5. Select and drag the Conditional Shock Zone (yellow) and Shock Zone (red) slider bars to set the desired zone configuration.

Note: Clinical testing of the first generation S-ICD System demonstrated a significant reduction in inappropriate therapy with the activation of the Conditional Shock Zone prior to hospital discharge.1

- The Shock Zone is programmable between 170 and 250 bpm in steps of 10 bpm.
- The Conditional Shock Zone is programmable between 170 and 240 bpm in steps of 10 bpm. Enhanced detection criteria are automatically enabled when the Conditional Shock Zone is programmed.
- When programming both the Shock Zone and Conditional Shock Zone, maintain at least a 10 bpm difference between the two zones. If the Conditional Shock Zone slider (yellow) is dragged over the Shock Zone slider (red), the two sliders will merge

Weiss R, Knight BP, Gold MR, Leon AR, Herre JM, Hood M, Rashtian M, Kremers M, Crozier I, Lee KI, Smith W, Burke MC. Safety and efficacy of a totally subcutaneous implantable-cardioverter defibrillator. Circulation. 2013;128:944–953

- 6. If post-shock pacing is desired, set the Post Shock Pacing switch to the On position. (Post-shock bradycardia pacing occurs at a non-programmable rate of 50 bpm for up to 30 seconds. Pacing is inhibited if the intrinsic rate is greater than 50 bpm.)
- 7. Select the Program button to apply the changes and program the pulse generator. A message confirming that the pulse generator settings were successfully programmed

warning: The presence of other equipment operating in the same frequency bands used by the programmer (402-405 MHz for the pulse generator and 2.4 GHz for the printer) may interfere with communication. Interference can occur even if it complies with the International of the Interna programmer (402-405 MHz for the pulse generator and 2.4 GHz for the printer) mo interfere with communication. Interference can occur even if the other equipment complies with the International Special Committee on Radio Interference (CICDIN) emission requirements. This RF interference can be reduced. emission requirements. This RF interference can be reduced by increasing the distance between the interfering device and the programmer and pulse generator or printer of communication problems persist, refer to the Troubleshood.

9. Once programming is confirmed. 9. Once programming is confirmed, select the Continue button to proceed to the next operation.

Note: The Pending Program Changes screen will appear if changes made to pulse to the pulse generator. Select Cancel to return to the Device Settings screen and save all settings changes, or Continue to all settings changes. generator settings on the Device Settings screen were not successfully applied Jirdatert version. Skalikk Dit is een verouderde Elavult verzió. Ne Versiune expiration Anuse utiliza. Wersja Przeterminowana. Pasenusiversi setting changes. Versão obsoleta. Vão utilize.

Zastarana verzia. Nepoliživat.

Defibrillation Testing

Once the pulse generator is implanted and Therapy Mode is programmed On, defibrillation testing may be conducted. Prior to arrhythmia induction during implant procedure, the following recommendations for arm positioning are intended to reduce the potential for injury of the clavicle,

- and potential for injury of the clave and ugnt strapping of the arm to the arm board, and consider loosening arm restraints.
 Remove any wedge elevation below the torso, if used during the implant procedure, taking care to preserve the sterile field.
 Create a smaller angle of arm abduction from the torso by position while • Create a smaller angle of arm abduction from the torso by adducting the arm as close to the torso as feasible, taking care to preserve the sterile field. Temporarily place the hand in a more adducted position, reverting arm needs to be abducted again torso as feasible, taking care to preserve the sterile field. Temporarily place the hand in a neutral position while the arm is in a more adducted position, reverting to a supinated position if the

Warning: During arrhythmia induction, the induction current and subsequent shock may result in forceful contraction of the pectoralis major muscle which can evert significant forces on the glenohumeral injust and inspectors. in forceful contraction of the pectoralis major muscle which can exert significant acute tightly restrained arm, may result in injury to the clavicle, shoulder, and arm, including dislocation and fracture.

Warning: Always have external defibrillation equipment and medical personnel skilled in CPR available during implant and follow up testing. If not terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the patient's death.

Caution: Successful VF or VT conversion during arrhythmia conversion testing is no assurance that conversion will occur post-operatively. Be aware that changes in the patient's condition, drug regimen, and other factors may change the DFT, which may result in nonconversion of the arrhythmia post-operatively. Verify with a conversion test that the patient's tachyarrhythmias can be detected and terminated by the pulse generator system if the patient's status has changed or parameters have been reprogrammed.

Note: Defibrillation testing is recommended at implant, replacement, and concomitant device implants to confirm the ability of the S-ICD System to sense and convert VF.

- Sugar Einim. Kullanma **Note:** When the Hold to Induce button is pressed during defibrillation testing, the programmer begins capturing the episode data generated during the test. This data is available for viewing and printing (see Capturing and viewing S-ECG Strips on page 67 and Captured S-ECG Report on page 60.)

To induce VF and test the S-ICD System:

- Select the Main Menu icon on the Navigation Bar to access the Main Menu.
- Select the Shock Test button to setup the induction test (Figure 15).
- 3. Select either standard (STD) or reverse (REV) polarity.
- Select and drag the red marker to set the desired shock energy for the first delivered shock. The shock energy may be programmed from 10 to 80 J. A 15 J safety margin is

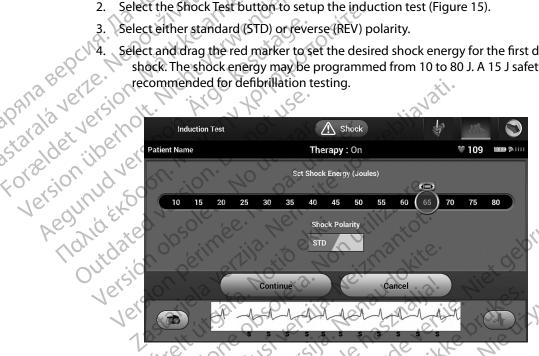


Figure 15: Setting the desired first shock energy for defibrillation testing

Select the Continue button to display the next Induction Test screen or select the Cancel button to return to the Main Menu screen

w. Franklin III Versio. Alia Kaytia. induction. The presence of noise markers may delay detection and therapy delivery. **Note:** Ensure that noise markers ("N") are not present on the S-ECG prior to id the like a radicica. Ne like avan ciiriim. Kullanma Lastarana verzia. Ne A. Jarsion. Användel. Versão obsol Versiune expirat

6. Select and hold the Hold To Induce button for the desired duration.

Note: If necessary, the induction can be terminated by disconnecting the wand from the programmer.

Arrhythmia detection and the Live S-ECG are suspended the Hold to Induce button is released, the program.

Upon detection and confirmation and confirmation and confirmation and confirmation and confirmation. The S-ICD System induces ventricular fibrillation using 200 mA alternating current Suiton is released (up to source). Suiton is released (up to source). Suiton is released (up to source).
 Arrhythmia detection and the Live S-ECG are suspended during induction. Once the Hold to Induce button is released, the programmer displays the patient's rhythm.
 Upon detection and confirmation of an induced arrhythmia the formula automatically delivers a shock at the programmer.

Note: When in a suite of the source of the programmer is suited.

 and the Live S-ECG are suspended during induction. On induction to Induce button is released, the programmer displays the patient's rhyth
 Upon detection and confirmation of an induced arrhythmia, the S-ICD System automatically delivers a shock at the programmed energy output and polarity.
 Note: When in active communication with a serious programmer emits are Note: When in active communication with a pulse generator, the programmer emits an audible notification to indicate that if generator is preparing to deliver a shock with communication with a pulse generator is preparing to deliver a shock with a commanded or is in response. programmer emits an audible notification to indicate that the p generator is preparing to deliver a shock, whether that shock is commanded or is in response to a detected arrhythmia. The continues until the shock is either delivered and the shock fails to convert the shocks are do!

Shocks are delivered at the pulse generator's maximum energy output (80 J).

Note: Evaluate the const If the shock fails to convert the arrhythmia, re-detection occurs and subsequent

Note: Evaluate the sensing markers during the induced rhythm that follows the release of the Hold To Induce button. The Supplementary of the Hold To Induce button. the release of the Hold To Induce button. The S-ICD System uses a lengthened rhythm detection period. Consistent to a lindicate the second sec indicate that tachyarrhythmia detection is occurring, and that capacitor charging is imminorable of the capacitor charging is imminorable. lengthened rhythm detection period. Consistent tachy "T" markers capacitor charging is imminent. If a high degree of amplitude variation is noted during the arrhythmia, a slight delay may be expected prior to capacitor charging or shock delivery.

e. Alakayta. Note: The pulse generator can deliver a maximum of five shocks per episode. avan ciiriim. Kullanma A. Jarsion. Användel. An 80 J rescue shock can be delivered at any time prior to therapy Tock arala različica. Ne. Zastarana verzia. delivery by pressing the Rescue Shock icon. Versiume expl

- The programmer will start capturing S-ECG data when the Hold to Induce button is pressed. The Captured S-ECG will cover the time period six seconds before the button is pressed and up to 102 seconds afterwards, for a maximum total of 108 seconds. The Induction S-ECGs will be viewable and printable from the Captured S-ECG screen, labeled as "Induction S-ECG".
- At any time prior to therapy delivery, the programmed energy may be aborted by selecting the red Abort button.
- Select the Exit button to return to the Main Menu screen.

Performing a Follow-up

Sensing Configuration and Automatic Setup

It is not necessary to perform Automatic Setup at each follow-up. If Sensing Optimization was skipped during the original implant setup, it may be performed during a follow-up.

Sensing should be re-evaluated if Automatic Setup is performed and results in a vector change. After the setup process is complete, evaluate the streaming S-ECG during a pectoral exercise. Sensing performance during high rate exercises can also be performed. Acceptable sensing will yield "S" markers synchronous to all QRS complexes. If other markers are noted, use the Manual Setup process to evaluate other sensing configurations.

Caution: Following any sensing parameter adjustment or any modification of

the subcutaneous electrode, always verify appropriate sensing.

Note: If Manual Setup was previously used to override a sensing configuration, careful

consideration should be taken when selecting Automatic Setup.

If an update to the reference S-ECG is desired due to a change in the patient's resting ECG, follow the Acquire Reference S-ECG instructions. ag Ecc. 125tarana verzia. Nepoliziwat. waster and a razlicica. Ne uporabite. er en innit versio. Alakayta.

Viewing Pulse Generator Status

Once communication is established, the programmer displays the Device Status screen which contains information regarding the current episodes and battery status of the pulse generator.

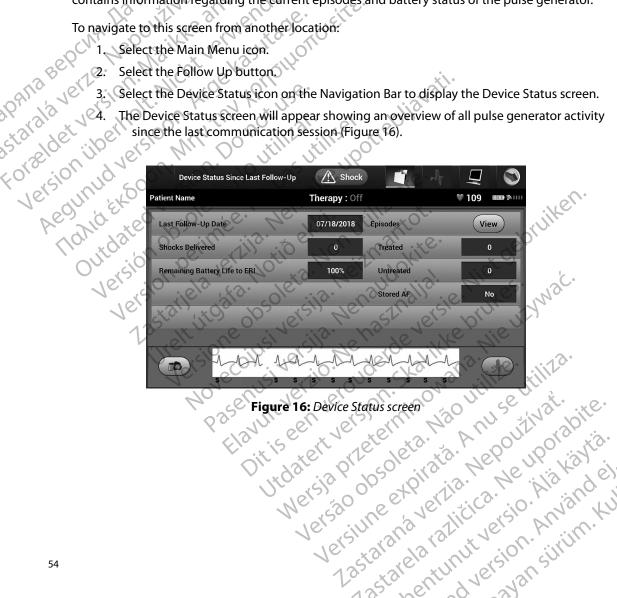


Figure 16: Device Status screen Wersja Przeterm Jidatert ver er en timit versio. Hakaylia.

avan ciiriim. Kullanma

A varsion. Användel.

The Device Status overview reports:

- Date of the last follow-up session
- Total number of shocks delivered since the last follow-up session
- Total number of treated episodes since the last follow-up session
- Total number of untreated episodes since the last follow-up session
- Total number of Stored AF episodes since the last follow-up session that are available for review

Choosing the "View" button in the Episodes row allows navigation directly to the list of stored episodes (Figure 17).

Viewing Stored Episodes

 Remaining pulse generator battery life
 iewing Stored Episodes
 The pulse generator stores episodes, which can be viewed during a patient's follow-up session. EMBLEM S-ICD (Model A209) and Cameron Health (Model 1010) pulse generators store up to 25 treated and 20 untreated tachycardia episodes. EMBLEM MRI S-ICD (Model A219) pulse generators store S-ECGs for up to 20 treated and 15 untreated tachycardia episodes, as well as up to 7 AF episodes. When the maximum number of episodes is reached, the most recent episode replaces the oldest stored episode of the same type. The first treated episode is never overwritten.

Note: Spontaneous episodes that occur while the pulse generator is communicating with the Tio. He has In Skalikkebru versija. Ne stored episodes:
Select the Main Menu icon.
Select the Follow Up button.
Select the Captured and Stored Episodes S-ECG icon from the Navigation Bai programmer will not be stored.

To view stored episodes:

- 1. Select the Main Menu icon.

- Select the Episodes option to access the Episodes screen (Figure 17).
- Select the episodes option to access the episode will be downloaded from the pulse avan eiiriim. Kullanma A. Jarcion. Användel. generator and displayed.

Note: In order to be available for printing, episodes must first be individually selected and viewed from the Episodes Screen.



Figure 17: Episodes screen (scrollable list)

- Aegunud vere and the stored S-ECG data at the time of episode declaration.

 7. Select the Continue button on the discussion. The display screen for each selected episode also displays the programmed parameters
 - Select the Continue button on the display screen for the selected episode to return to The following details are available for each episode: Sthe Episodes screen.

- Up to 128 seconds of S-ECG data is stored for each Treated Episode:

 Pre-episode S-ECG: Up to 44 seconds
 First shock: Up to 24 seconds of S-ECG First shock: Up to 24 seconds of pre-shock S-ECG and up to 12 seconds of post-shock Subsequent shocks: 6 seconds of pre-shock and 6 seconds post-shock S-ECG ersio. Alakayia.
- avan ciiriim. Kullanma A varsion. Användel.

Untreated Episodes

An Untreated Episode is defined as any high-rate episode that spontaneously terminates during the charging process, before a shock is delivered.

Up to 128 seconds of S-ECG data is stored for each Untreated Episode:

- Pre-episode S-ECG: 44 seconds of pre-episode S-ECG
- **Episode S-ECG:** Up to 84 seconds of tachycardia S-ECG data

Printing Reports Printing Reports

Printing Reports Patient reports can be printed before or after a patient session is ended. It is recommended that a final report be printed immediately following the implant procedure. There are the reports: mal reports: • Summary Report
• Captured cont

- Select the Main Menu icon to display the Main Menu screen.
- Episode Reports

 To print patient reports from either an Online or Offline session:

 1. Select the Main Menu icon to display the Main Mean

 2. Select the Print Reports button Select the Main Menu icon to display the Main Menu screen.

 Select the Print Reports button to display the Print Reports screen (Figure 18). Versiline expiration. And se utiliza. Versão obsoleta. Vão litilize.

Lastarana verzia. Nepoližívat.

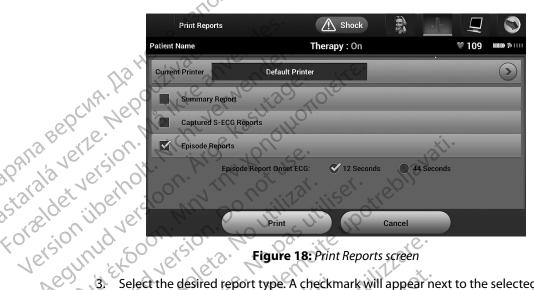


Figure 18: Print Reports screen

Aegunud vere 10/13 EX800 Report types are described below.

4. Select the Print burn Select the desired report type. A checkmark will appear next to the selected report. Select the Print button to print the selected report.

5. Select the Cancel button to return to the previously accessed screen.

Versing expiration Anuse Utiliza.

· Lastarana verzia. Nepoliživat.

waser aralarallicica. Ne uporabite.

ersio. Ala Kayta.

A varsion. Användel.

avan ciiriim. Kullanma

Versão obsoleta. Vão Utilize.

- Jitdatert versjon. Skalikke brilkes. sed se

Summary Report

To print a summary report, select the Summary Report option on the Print Reports screen and press the Print button. The report will print for either the current active session (if the programmer is Printed Report Date
Programmer Soft
Pulse Online) or for the chosen stored session (if the programmer is Offline.)

The Summary Report includes the following information: • Patient Name
• Date of Last

- Patient Name

 Date of Last Follow-Up

 Date of Current

 - Date of Current Follow-Up

 Implant Date

 Pulse
- Jw-Up

 Implant Date

 Pulse generator Model/Serial Number

 Electrode Model/Serial Number

 Therapy Parameters

 SMART Charge Delav

 Pro

 - Status

Captured S-ECG Report

To print a Captured S-ECG report

- Select the Captured S-ECG Reports option from the Print Reports screen.
- A scrollable list containing both Captured S-ECG and Induction S-ECG strips is displayed (Figure 19). Select the desired S-ECG(s) to be printed by placing a checkmark next to the selection(s).



Figure 19: Captured S-ECG list (scrollable)

- Select Continue to return to the Print Reports screen.

 Select the Print button to print the selected report and return to the previously accessed screen.
- Select the Cancel button to return to the previously accessed screen without printing the report. with Jersio. His kinylia. dt prin Lastarana verzia. Nepol Jersiune expirata. avan ciiriim. Kullanma A varsion. Användel.

Episode Reports

- 2. The Select Episode Reports screen appears showing a list of the stored episodes (Figure 20). Select the episode(s) to be printed. A checkmark appears next to the selected episode(s).

 Note: In order to be available.

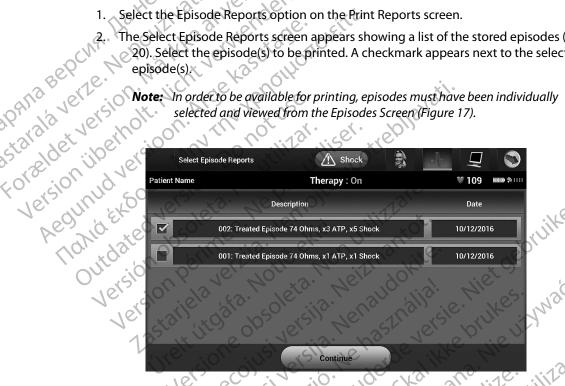


Figure 20: Select Episode Reports screen (scrollable)

- 3. Select Continue to return to the Print Reports screen. Either 12 seconds or 44 seconds of pre-episode S-ECG data may be selected using the radio buttons below the Episode Reports row. The default value for Episode Report Onset is 12 seconds.
- 4. Select the Print button to print the selected report and return to the previously
- Select the Cancel button to return to the previously accessed screen without printing the report.

Export Patient Data

Patient data saved on the programmer may be exported to a desktop or notebook computer using either of two means: wirelessly, over a pre-configured Bluetooth™ pairing, or with a Model 3205 microSD[™] log data card. For information about Bluetooth[™] pairing between the programmer and a desktop or laptop computer, see Bluetooth™ Data Export on page 32.

Export using Bluetooth™ wireless technology

 Select the Export Programmer Data button on the programmer start-up screen. The Export Programmer Data Over Bluetooth screen will appear.
 Select one of the three export options (Export Today / Export All). The "Select a " Ensure that the programmer and the intended recipient computer are within 10 meters (33 feet) of

- 2. Select one of the three export options (Export Today's Data, Export Last Seven Days, Export All). The "Select a receiving computer" pop-up window will appear

 Note: The Export Today's Data Solution of the three export options (Export Today's Data, Export Last Seve Export All). The "Select a receiving computer" pop-up window will appear.

 Note: The Export Today's Data and Export Last Seven less time to complete the

been paired with. Select the intended receiving computer from the list to begin the transfer.

Note: Although every paired computer is listed in the scrollable box, only those within 10 meters (33 feet) of the programmer can participate in a file transfer. Once one of the three export options has been selected, the programmer will prepare the file transfer package and attempt the wireless transfer. An error message will appear if the transfer cannot be completed. Should this occur, move the programmer to within 10 meters of the intended receiving computer or choose another computer within that distance. Restart the computer or choose another computer within that distance. Restart the export process by selecting one of the three export options on the Export Programmer Data Over Bluetooth screen. avan ciiriim. Kullanma A. Jarajon. Användel.

Export using a microSD™ card

Data may also be exported using a microSD™ card. For security reasons, the programmer will only export data to Model 3205 microSD™ log data cards. Using any other microSD™ card will cause an

- Joins, the programme and other microSD™ card will suppear.

 Joseph Losing any other microSD™ card will suppear.

 Joseph Losing and State

card will cause card will cause.

... insert the card into the microSD™ slot according to the instructions presented in Appendix A: Insertion and Removal of the microSD™ Card. The instructions are also provided with Model 3205 microSD™ log data card. A Copy Data screen will appear when the microSD™ card has been properly inserted and recognized.

Note: An invalid card error message will appear if appea slot according to the instructions presented and Removal of the microSD™ Card. The instructions presented with Model 3205 microSD™ log data card. A Copy Data scree when the microSD™ card has been properly inserted and recognized.

Note: An invalid card error message will appear if any card of 3205 microSD™ log data card is inserted in programmer does not to this occording to the instructions presented. InicroSD™ Card. The instructions and inicroSD™ card. The instructions are inicroSD™ log data card. A Copy Data screen will a microSD™ card has been properly inserted and recognized.

Note: An invalid card error message will appear if any card other than a Model 3205 microSD™ log data card is inserted. The message may also appear if programmer does not recognize the Model 3205 card of this occur, remove the card and select the for the programmer of the programmer of the select the for the programmer of the select the selec and recognized.

2005 microSD™ log data card is inserted. The message may also appear if the programmer does not recognize the Model 3205 card after insertion. Should this occur, remove the card and select the OK button on the error screen to reappear and the sc

- 4. A confirmation screen is presented when the copy process is complete. Selecting the OK button will return the programmer to its start-up screen.
- 5. Remove the microSD™ card according to the instruction sheet (Appendix A).

Jidatert versjon. Skalikke bi Wersja przeterminowana. **Note:** Navigating away from and returning to the start-up screen with the microSD™ card Ditiseenverouderde still inserted will cause the export process to begin again. Elavult verzió. Nel Versiline expirate. Anuse utiliza.

· Versão obsoleta. Não Utilize.

*Lastarana verzia. Nepoliživat.

· EN3HOH3F The programmer provides the capability to view, adjust and capture the streaming S-ECG from the pulse generator.

S-ECG Rhythm Strip Markers

The system

The system provides annotations to identify specific events on the S-ECG. These markers in the S-ECG Markers on Programmer Display Screens and Printed Reports table (Table 2). S-ECG Rhythm Strip Markers

The system provides annotations to identify specific events on the S-ECG. These markers are shown in the S-ECG Markers on Programmer Display Screens and Printed Reports table (Table 2) Version permies we have the horizon of the political and the property of the political and the property of the political and the political outdated version. Do not use Version Périmée. Ne pas litiliser. Version obsoleta. No utilizar.

Eldvun ver Liver ouder de versie Liver de Druiken.

Jidatert versjon. Skalikke brukes.

Versão obsoleta. Não Utilize.

Judien ver zwin zkanika wie winkez.

Versiline expirate. Anuse utiliza.

Zastaraná verzia. Nepoližívat.

instrum Analytica. Ne liborabite.

ersio. Ala Kayta.

A varsion. Användel.

avan ciiriim. Kullanma

Jersione obsoleta. Non utilizzare.

The Hillidge 18. Notio akki.

Move Collisi Nersila. Nei Zhinantot.

Pasenusi Versija. Nenaudokite.

Elavilt verzió. Ne haszhalla!

Table 2: S-ECG Markers on Programmer Display Screens and Printed Reports

Description	Markei
Charging * Sensed Beat	C
Sensed Beat	S
Noisy Beat	N
Paced Beat	D P
Description Charging* Sensed Beat Noisy Beat Facety Detection	1
Description Charging * Sensed Beat Noisy Beat Paced Beat Inchy Detection Discard Beat	<u> </u>
Noisy Beat Paced Beat Tachy Detection Discard Beat	,e. 🛡
Noisy Beat Paced Beat Tachy Detection Discard Beat Shock Episode data compressed or not available 'Marker present on printed report but not on programmer dis	10to 1
Fnisode data compressed or not available	90ki, s. —
Marker present on printed report but not on programmer dis	play screen.
1/23 06 101. 10	16/16/
, 2101, 0172, 161211 HE TEL	go like
e, decensionalio, onos	2Kg Malle
40 Seventhas refered	expirata. A
B.o. 171, 6/1, 6/2)	W. Ho
137 6 "10 x6	
Marker present on printed report but not on programmer dis	16, 49.

Versiune expirata. Anuse utiliza.

*Lastarana verzia. Nepoliživat.

Versão obsoleta. Não Utilize.

S-ECG Scale Settings

To adjust the real-time S-ECG amplitude and display speed scale settings:

- 1. Select the S-ECG Display Settings icon located to the right of the Live S-ECG window. The S-ECG Settings screen is displayed.
- Select and drag the Gain or Sweep Speed Scale bars as desired (Figure 21). The S-ECG In selected grainmer defaults to Ful and to 1/2 Range for pulse. The Sweep Speed slider controls the display nominal sweep speed setting is 25 mm/sec.

 Note: Amplitude settings and display S-ECG and Company and Company S-ECG and Company and Company S-ECG and Compa scale will change according to the selected setting. The gain setting controls the visual gain. The programmer defaults to Full Range for pulse generators with a Include Setting to Sweep speed settings and display speed adjustments on scrolling real-time S-ECG and Captured S-ECGs affect the display screen settings only and to no impact on the pulse generator settings for sensiti gain setting of 1x and to 1/2 Range for pulse generators with a gain setting of 2x. The Sweep Speed slider controls the display speed of the scrolling Live S-ECG. The

S-ECG and Captured S-ECGs affect the display screen settings only and have

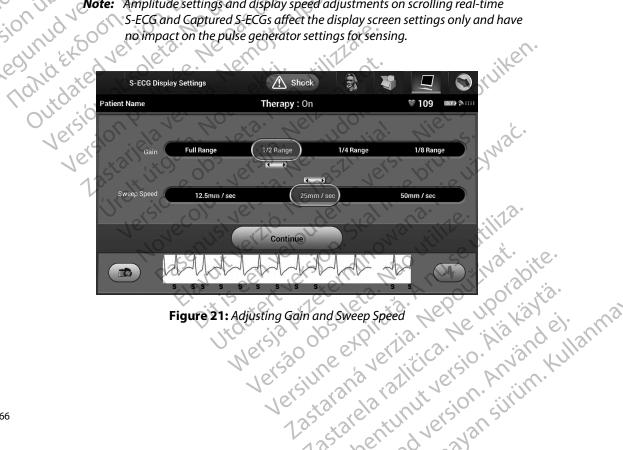


Figure 21: Adjusting Gain and Sweep Speed Versiune expli

recordings generated by:

1. Manually-captured twelve-second S-ECGs using the Capture S-ECG button which include:

• 8.5 seconds before activation of the Capture S-FCC in the capture S-ECG seconds after activation of the Capture S-FCC in the capture S-ECGs capt The programmer can display and store real-time S-ECG rhythm strips. The programmer saves a

- anually-c include;
- Forzeldet version.

activation of the Capture S-ECG button
3.5 seconds after activation of the Capture S-ECG button
2. S-ECGs captured automatically during induction testing which include:

6 seconds before the induce button is pressed

Up to 102 seconds after the induce button.

Note: The S-ICD successions. Up to 102 seconds after the induce button is pressed

Note: The S-ICD suspends detection of sensed
has been delivered. As a marker i Note: The S-ICD suspends detection of sensed events for 1.6 seconds after a shock has been delivered. As a result, the S-ECG rhythm strip will not commarkers during this 1.6 second markets during this 1.6 second marke has been delivered. As a result, the S-ECG rhythm strip will not contain event

If an additional recording is required, then the oldest previous recording is replaced with the new recording.

To manually capture a new S-ECG rhythm strip:

1. Select the Capture S-ECG button located to the left of the Live S-ECG window. The S-ECG will scroll across the display screen. Calipers appear below the Captured S-ECG rhythm strip. Each 12-second recording is date and time stamped according to the programmer's date and time setting.

Note: Induction S-ECGs are automatically generated during induction testing without additional user input.

- Select and move the calipers across the S-ECG strip to measure intervals as desired. Jack 2 rala razlicica. We upor
- Lastarana Verzia. Nel 3. Select the Continue button to return to the previously accessed screen. Versão obsoli Versiune expirat

EMBLEM™ S-ICD PROGRAMMER: OPERATION

It is also possible to capture S-ECGs corresponding to all three sense vectors (Primary, Secondary, and Alternate) by using the Capture All Sense Vectors button on the Utilities screen (Figure 22).

Viewing previously-captured S-ECG

- 2. Select the Follow Up button.
 3. Select the Captured and Stored Episode S-ECG icon. The Captured S-ECG screen appears.
 4. Select one Captured S-ECG or Induction S-ECG from the appears.
 5. Selection Select the Captured and Stored Episode S-ECG icon. The Captured S-ECG screen appears.

 4. Select one Captured S-ECG or Induction S-ECG from the list. The S-ECG details screen appears.

 5. Select and drag the calipers to view details

 6. Select the Captured S-ECG or Induction S-ECG from the list. The S-ECG details screen appears. 5. Select and drag the calipers to view details.
 6. Select the Continue button to result.

 When the second one Captured S-ECG or Induction S-E

- 1. Select the Stored Patient Sessions button from either the programmer start-up screen or the Main Menu.
- 2. Select the desired stored patient session.
- 3. Select one Captured S-ECG from the list. The Captured S-ECG Details screen appears.

Note: Not all stored patient sessions contain captured S-ECGs. A message to that effect is presented when such patient sessions are opened. In this event select the Main Menu icon, then select the End Session button. This action returns Luser arala različica. Ne uporabite. you to the programmer start-up screen. Select the Continue button to return to the Captured S-ECG list screen.

A varsion. Användel.

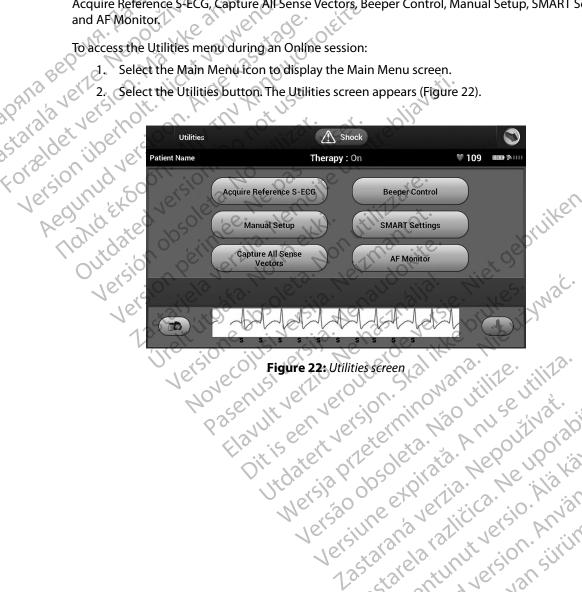
- avan ciiriim. Kullanma

Utilities Menu

The programmer Utilities menu provides access to additional device features. These may include To access the Utilities menu during an Online session:

1. Select the Main Menu icon to displayed

2. Select the Utilities Acquire Reference S-ECG, Capture All Sense Vectors, Beeper Control, Manual Setup, SMART Settings,



· Lastarana verzia. Nepoližívat. was that alara Alicica. Ne Uporabite.

Acquire Reference S-ECC

To acquire a manual Reference S-ECG

- 1. From the Utilities screen (accessible from the Main Menu screen), select the Acquire Reference S-ECG button to access the Acquire Reference S-ECG screen.
- The Cancel button can be used at any time to end S-ECG acquisition and return to the Utilities screen.

 Capture All Sense Vectors Select Continue to acquire a Reference S-ECG. The programmer will begin acquiring the Reference S-ECG. A message will appear requesting that the patient remain still. The
- Une Cancel butt
 Utilities screen.

 Capture All Sense Vectors

 The Capture The Cancel button can be used at any time to end S-ECG acquisition and return to the Utilities screen.

 Apture All Sense Vectors

 The Capture All Sense Vectors button on the Utilities screen configures temporary programmer

settings that allow you to capture S-ECGs generated from each of the three sense vectors (Primary, Secondary, and Alternate). This process takes appears to the capture of the three sense vectors (Primary, Secondary, and Alternate). to its original settings configuration after all S-ECGs have been captured.

To capture the three sense vectors:

- 1. From the Utilities screen (accessible from the Main Menu screen), select the Capture All Sense Vectors button.
- 2. The Capturing 12 Second S-ECG screen will appear and display the status of the sense vector capture process.

w. Jakinnit Jersio. Ala Kayta.

A. Jarsion. Användel.

avan ciiriim. Kullanma

Once captured, the three S-ECGs can be viewed by following the steps outlined in Viewing previously-captured S-ECGs on page 68. Versiune expirate. Anuse il 128taranaverzia. Nepolizivat. waseraralarallicica. Ne uporabite.

Beeper Control

The pulse generator has an internal warning system (beeper) that may emit an audible tone to alert the patient to certain device conditions that require prompt consultation with the physician. These conditions may include:

- Electrode impedance out of range
- Prolonged charge times
- Failed Device Integrity Check

This internal warning system is automatically activated at time of implant. Once triggered, if the beeper is enabled, tones beep for 16 seconds every nine hours until the triggering condition reoccurs than the consult the policy. beeper is enabled, tones beep for 16 seconds every nine hours until the trigger condition has been

Caution: Patients should be advised to contact their physician immediately whenever they hear beeping tones coming for

Note: Access to the Reset Beeper display screen is enabled only when an alert condition occurs, If an alert condition is activated, a notification screen will appear upon connection.

Warning: The Beeper may no longer be usable following an MRI scan. Coming in contact with the strong magnetic field of an MRI scanner may cause a permanent loss of the Beeper volume. This cannot be recovered, even after leaving the MR scan environment and exiting MRI Protection Mode. Before an MRI procedure is performed, a physician and patient should weigh the benefit of the MR procedure against the risk of losing the Beeper. It is strongly recommended that patients are followed on LATITUDE NXT after an MRI scan if they are not already. Otherwise, an in-clinic follow-up schedule of every three months is strongly recommended to monitor device performance.

Reset Beeper

To reset the Beeper, select the Beeper Control button from the Utilities screen (accessible from the Main Menu) to open the Set Beeper Function screen.

Select the Reset Beeper button to suspend audible beeping tones triggered by an alert condition. es W. If the alert condition is not corrected, the audible beeping tones will be reactivated during the next e re LA LIPYSION automatic S-ICD System self-check.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

Disable Beeper (SQ-Rx devices)

In SQ-Rx devices, Beeper Control allows for the deactivation of beeping on alert conditions (Disable Beeper). Perform the following steps to disable the Beeper:

Note: The Disable Beeper function is only available once device ERI or EOL is reached.

- From the Utilities screen, select Beeper Control to open the Set Beeper Function

Note: This will permanently disable all beeping on alert conditions for the SQ-Rx device.

However, this will not affect Beeper functionality for when a magnet is placed on the device or when a programmer connects to the device.

Enable/Disable P However, this will not affect Beeper functionality for when a magnet is placed on the Enable/Disable Beeper (EMBLEM S-ICD devices)

In EMBLEM S-ICD devices, the Beeper must be tested before being enabled or disabled. Perform the following steps to test the Beeper:

Note: For EMBLEM S-ICD devices, the Test Beeper function is only available when beeping for an alert condition is not active.

- 1. From the Utilities screen, select Beeper Control.
- Select the Test Beeper button from the Set Beeper Function screen.
- Evaluate if the Beeper is audible using a stethoscope.
- If the Beeper is audible, select the Yes, Enable Beeper button. If the Beeper is not audible or you wish to permanently disable beeping functionality, select the No, Disable Beeper button.

Note: This will disable beeping functionality for alert conditions, for when a magnet is placed over the device, and for when a programmer connects to the device.

If the Beeper is not audible to the patient, it is strongly recommended that the patient has a follow-up schedule of every three months either on LATITUDE NXT or in-clinic to monitor device performance.

- Guig 1 cetarala razli For additional information regarding the Beeper, refer to the MRI Technical Guide or contact Boston A Varsion. Al Scientific using the information on the back cover.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

Manual Setup

Manual Setup enables the user to perform the electrode integrity test and select the electrode sensing configuration and gain setting in the pulse generator. During Manual Setup, the system will also automatically enable SMART Pass if appropriate.

- Jen (aci Jelect the Test button to perfo 3. Select the Continue button. 4. There are three available Manual Set From the Utilities screen (accessible from the Main Menu screen), select the Manual Setup button. The Measure Impedance screen appears.
- 4. There are three available sensing vectors that can be manually selected from the Manual Setup screen (Figure 23):

 Primary: Sensing from the proximal electrods

 to the surface of the active Primary: Sensing from the proximal electron to the surface of the active pulse generator

 Secondary: Sensing from the distalt electrode to the surface. Aedriung Vel
 - **Primary:** Sensing from the proximal electrode ring on the subcutaneous electrode
 - electrode ring on the distal sensing electrode

 Alternate: Sensing from the distal sensing

 electrode ring on the distal sensing **Secondary:** Sensing from the distal sensing electrode ring on the subcutaneous
 - Alternate: Sensing from the distal sensing electrode ring to the proximal sensing

Versiline expirata. Anuse utiliza.

Lastarana verzia. Nepoližívat.

· Versão obsoleta. Não Utilize.

The gain setting adjusts the sensed S-ECG signal sensitivity. It may be manually selected with the Select Gain switch on the Manual Setup screen. Wersja Przeterninowana. Nie używ

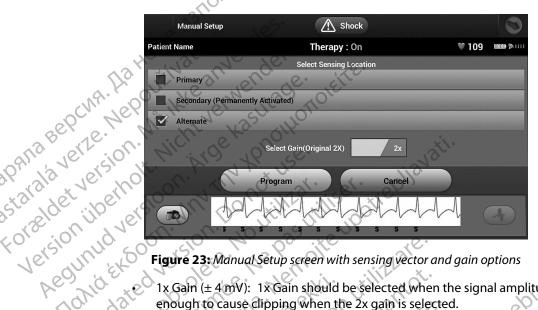


Figure 23: Manual Setup screen with sensing vector and gain options

- May Grand Export 1x Gain (± 4 mV): 1x Gain should be selected when the signal amplitude is large enough to cause clipping when the 2x gain is selected.
 - Outdated 2x Gain (± 2 mV): 2x Gain should be selected when the signal amplitude is small enough to allow use of a more sensitive setting without causing clipping of the gram the manually selected sense configuration:

 Select the Program button to save the sense vector and gain settings. captured signal. The 2x gain selection amplifies the signal twice as much as the 1x

waseraralarallicica. Neurorabite.

er en timit versio. Ala Kayta.

A varsion. Användel.

avan ciiriim. Kullanma

To program the manually selected sense configuration:

Versiune expirata. Anuse utiliza. Versão obsoleta. Vão utilize *Lastarana verzia. Nepoliživat.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

- 2. Select the Continue button. When the continue button is selected, the device will automatically evaluate if SMART Pass should be enabled. Refer to the S-ICD User's Manual for additional information about SMART Pass. For assistance, contact Boston Scientific using the information on the back cover.
- The Acquire Reference S-ECG process is automatically enabled during the Manual Setup Process. Select the Continue button to acquire a reference S-ECG. A confirmation screen will appear when the captured reference S-ECG is acquired.

SMART Settings

یدی MART Settings screen allows t Charge and SMART Pass features. SMART Charge The SMART Settings screen allows the user to access information and functions for the SMART Charge and SMART Pass features.

SMART Charge

Through the SMART Charge feature, the pulse generator charge initiation sequence adapts to the

SMART Charge
Thro occurrence of non-sustained ventricular arrhythmia episodes by delaying capacitor charging. This conserves battery life and may prevent unnecessary shocks for conserves battery life and may prevent unnecessary shocks for non-sustained arrhythmias. Refer to the pulse generator manual for further information about the SMART Charge feature.

> SMART Charge is enabled automatically when an untreated ventricular arrhythmia episode is recorded. Resetting returns the SMART Charge value to zero. To reset the SMART Charge feature:

From the Utilities screen (accessible from the Main Menu screen), select the SMART Settings button. The SMART Settings screen appears (Figure 24). Wersja pizeterminowana. Nie i gure, gure, join, skalikke

Versiline expirata. Anuse utiliza. · Versão obsoleta. Não Utilize. *Lastarana verzia. Nepoliživat. Luzerz rala različica. Ne uporabite. avan ciiriim. Kullanma A. Jarsion. Användel.

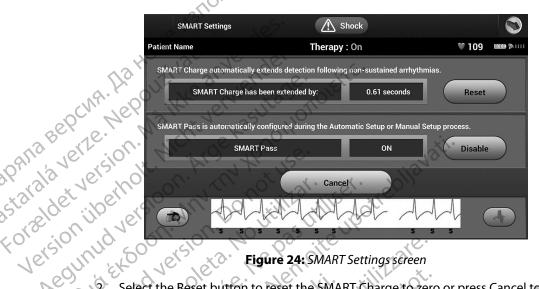


Figure 24: SMART Settings screen

- Aegunud ver MONIE EXFOO the Utilities Menu without resetting the SMART Charge.

 3. A confirmation window will accommod the SMART Charge. Select the Reset button to reset the SMART Charge to zero or press Cancel to return to
 - A confirmation window will appear with the message: "SMART Charge successfully reset."
 - 4. Press the Continue button to return to the Utilities screen.

4. Press the Continue button to return to the Utilities screen.

Disabling SMART Pass

The SMART Pass feature is designed to reduce oversensing while still maintaining an appropriate sensing margin. The device continuously monitors the ECG signal amplitude and automatically disables SMART Pass if under-sensing is suspected.

SMART Pass can be manually disabled if under-sensing is suspected by selecting the Disable button on the SMART Settings screen.

Note: If SMART Pass is disabled, another automatic or manual setup must be performed to re-enable the feature. red to Alia Val Zastarana verzia. Ne avan ciiriim. Kullanma Jersiume expirated -paralarazličica. Nev A. Jarsion. Användel.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

AF Monitor

The AF Monitor feature is designed to assist in the diagnosis of atrial fibrillation.

The AF Monitor feature can be enabled/disabled using the On/Off switch accessed through the AF Monitor button on the Utilities screen. Select the Program button to apply the changes and

The following statistics are available on the programmer screen by selecting the AF Monitor button:

istarala veri Days with detected Estim Days with measured AF: Provides the number of days within the last 90 where AF was

Move Cojlisi versijā. Neizmantot.

Pasenusi Versija, Nenaudokite.

Elavilt verzió. Ne haszhalla!

Juliane Mie lighnate.

Versiline expirata. Anuse utiliza.

Lastarana verzia. Nepoliziwat.

Jidatert versjon. Skalikke brilkes.

Versão obsoleta. Não Utilize.

Estimate of measured AF: Provides the total percent of detected AF within the last 90 days

July and Non utilizzare. nfor, mfor, length of the leng Eldvuit vei Liv. ive i de de versie. Liv. i. r. e. l. r.

Trett tito ata. Notio akki.

Additional Programmer Functions

Rescue Shock

The Rescue Shock icon is available in the navigation bar on the programmer display when the Setup Process is complete and a pulse generator is actively communicating with the programmer. To deliver a rescue shock: During active communication, a maximum (80 J) rescue shock can be delivered upon programmer

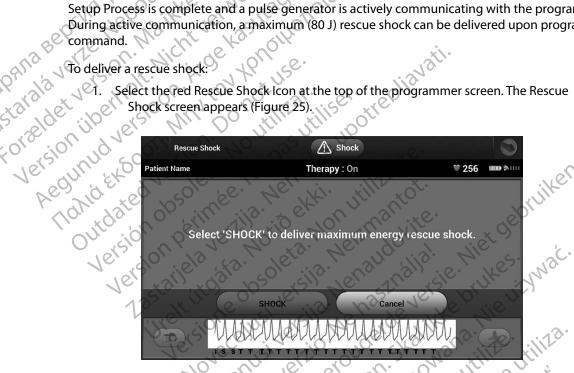


Figure 25: Rescue Shock screen

- 2. Select the Shock button to begin charging the pulse generator for a Rescue shock. A red avan eiiriim. Kullanma background screen with the word "Charging" will appear. Selecting the Abort button ed. ed. ed. ed. ed. ed. ed. will prevent delivery of a rescue shock and will return to the Device Settings screen.
- deliv 3. A confirmation screen will appear with notification that the shock was delivered successfully along with the corresponding shock impedance.

EMBLEM™ S-ICD PROGRAMMER: OPERATION

...ance value of .
...a problem with the
...romised, and/or any futu.
...sed. If a reported impedance v
...ed, correct functioning of the device
...the shock could not be delivered, a red ba
...ting "The shock could not be delivered."
...ate: In the event telemetry is lost, pulse generator comm.
...will not be available until telemetry is reestablished. Caution: A reported shock impedance value of less than 25 ohms from a delivered If for any reason the shock could not be delivered, a red background screen will appear with a message stating "The shock could not be delivered."

Note: In the event telemetry is lost, pulse generator and will not be available. Lecould not be delivered, a red background screen will appear with a stating "The shock could not be delivered."

Note: In the event telemetry is lost, pulse generator commands—including Rescue Shocks—will not be available until telemetry is reestablished.

Jersione obsoleta. Non utilizzare.

The Hotel of Standing and the standard a

Move Collisiversilà. Nei Zhanin de la Mei Zhanna de la Me

Pasenusi Versija. Nenaudokite.

Elavult verzió. Ne haszhália!

Eldvun ver Liver ouder de versie Liver de Druiken.

Jidatert versjon. Skalikke brilkes.

· Versão obsoleta. Vão Utilize.

Judicit version, souther with the light water

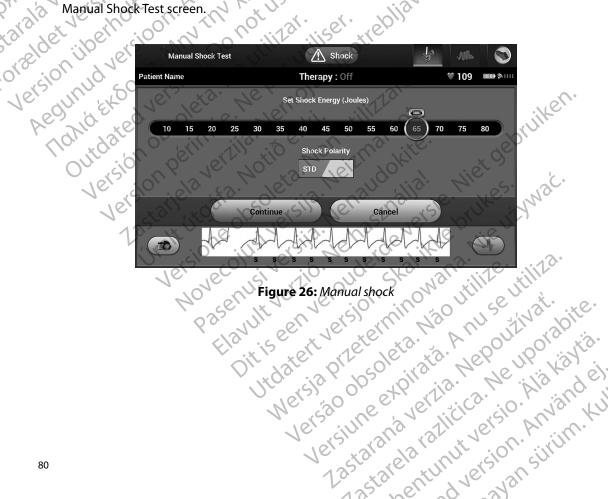
Versiune expirata. Anuse utiliza.

Zastaraná verzia. Nepoližívat.

Manual Shock

Manual Shock allows the user to deliver a synchronized shock during a sinus rhythm, an atrial rhythm or a ventricular rhythm. The shock energy level is user-configured in the 10 to 80 joule range and the polarity is also user-configured (Figure 26). Manual shock may also be utilized at a low energy to assess system impedance/integrity either at implant or as warranted by patient condition. A manual shock may be administered with the Therapy Mode set to On or Off.

To access Manual Shock, select the Shock Test button on the main menu. The Induction Test screen will appear. Select the Manual Shock icon in the navigation bar at the top of the screen to view the Manual Shock Test screen. Forzeldety



er en timit versio. Ala Kayta.

A varsion. Användel.

avan ciiriim. Kullanma

S-ICD System Magnet Use

The Boston Scientific magnet Model 6860 (the magnet) is a non-sterile accessory that may be used to temporarily inhibit the delivery of therapy from the pulse generator if necessary. The Cameron Health magnet Model 4520 may be used interchangeably with the Boston Scientific magnet for this purpose.

Other behaviors of magnet application:
Inhibit shock therapy delivery
Terminate For detailed information about using the magnet, refer to the appropriate S-ICD User's Manual.

- Inductives

 Inhibit shock therapy delivery

 Terminate post-shock pare

 Prohibit arm er behaviors of magnet application:
 Inhibit shock therapy delivery

 Terminate post-shock pacing therapy

 Prohibit arrhythmia induction testing

 Activate the pulse generator's beeper with each detected QRS complex for 60 seconds if Prohibit arrhythmia induction testing

 Activate the pulse generator

 beepen is turn beeper is turned on and is audible

 Warning: Use couries
 - **Warning:** Use caution when placing a magnet over the S-ICD pulse generator because it suspends arrhythmia detection and therapy response. Removing the magnet resumes arrhythmia detection and therapy response.
 - Warning: In patients with a deep implant placement (greater distance between the magnet and the pulse generator) magnet application may fail to elicit the magnet response. In this case the magnet cannot be used to inhibit therapy.
 - Do not place a magnet on the programmer.
 - **Note:** A programmer commanded Rescue Shock can override the use of the magnet as long as the magnet was in place prior to the initiation of the programming command. If the magnet is applied after the initial command, the Rescue Shock will be terminated.
 - Jackarala različica. Ne uporabite. lastarana verzia. Nepoliziwa Jersão obsoleta. Não Versiline expirata. Anul Nersja przetermi **Note:** Magnet application does not affect wireless communication between the pulse w. Jakinnit Versio. Hakayta. generator and the programmer.

MAINTENANCE

Charging the Programmer

When not in use, it is recommended that the programmer remain connected to the external power supply, which in turn is connected to the AC mains. This will ensure that the internal battery is adequately charged.

Ture of the programmer and wand and dirt. Do not strong detergents to clean the programmer and wand. **leaning the Programmer**Keep the programmer away from dust and dirt. Do not use harsh chemicals, cleaning solvents, or

- 1. Turn the programmer off.

 2. Gently wipe the σ

 3. Cu-3. Clean the programmer plastic case and the wand by wiping them with an isopropyl alcohol-moistened cloth. alcohol-moistened cloth.

 4. Dry the program
 - Dry the programmer immediately to remove residue.

There are no user-accessible or user-serviceable parts or components in the programmer. If any service, repair, or replacement of internal components is needed, the programmer must be returned to Boston Scientific. For instructions and return packaging, contact Boston Scientific using the information on the back cover of this manual.

When requesting service, please provide information concerning the nature of the failure and the when requesting service, please provide information concerning the nature of the failure and the manner in which the equipment was used when the failure occurred. The model number and serial number should also be provided. Tastarana verzia. Nepoużli ar and ar allicica. Ne uporalo en serving in the sion of the kaylia. avan ciiriim. Kullanma

A varsion. Användel.

EMBLEM™S-ICD PROGRAMMER: MAINTENANCE

Maintenance Check.

Prior to each use, you should perform a visual inspection and verify the following:

- Mechanical and functional integrity of the programmer, cables, and accessories.
- Legibility and adherence of the programmer labels.

That the programmer start-up screen appears a few seconds after you turn on the programmer. (The normal power-up process verifies that the programmer has passed its internal checks and is ready for use.)

Safety Measurements

Is ready for use.)

afety Measurements

National regulations may require that the user, manufacturer, or manufacturer representative your country, follow the testing interval and extent of testing as regulated in your country. If you do not know the national regulations in your country. please contact Poster Country. information on the back cover of this manual. If IEC/EN 62353 is a required standard in your country, but no specific testing or interval is specified it is recovered. using the direct method as specified in IEC/EN 62353 at an interval of every 24 months. Test values are shown in the Nominal Specifications table (Table 11).

Programmer End of Life

The programmer and accessories are designed to provide years of service under typical use. To dispose of, return, or exchange a programmer, contact Boston Scientific using the information Jersinne expiration Anni se utilità Wersja Przeterminowana on the back cover of this manual. Do not dispose of the programmer in the trash or at electronics recycling facilities. Versan obsoleta. Nao utili Ze. Jran Skal Versians and vertila. Nepolithyat. Jack arala različica. Ne uporabite.

EMBLEM™ S-ICD PROGRAMMER: TROUBLESHOOTING

TROUBLESHOOTING

This section presents potential programmer issues and the possible solutions. Of note, restarting the programmer can often resolve many of the issues listed below. The programmer can be restarted by pressing and holding the power button until the system shutdown menu appears and then choosing the "Restart" option.

Contact Boston Scientific using the information on the back cover of this manual for additional Inability to Print assistance.

- If unable to print, follow the steps below:

 1. Ensure that the prints Ensure that the printer is turned On and that it contains paper and a sufficient ink

 - Aegunyld 3. Ensure, as applicable, that the wireless function is enabled on the printer or that the Bluetooth™ wireless adapter is fully inserted intertal.

No Printer Available

No Printer Available

The No Printer Available screen will appear if a printer was not set up. Select the Try Again button or refer to the Printer Selection section for instructions.

Touch Screen Inactive while Connected to AC Power

If the touch screen does not function while the programmer is connected AC power via the external

inmer.

And And And And And Andrews and Andrews and Andrews and And Andrews an Versiume expiration Anuse 1. 2. starana verzia. Nepoużiwat Versão obsoleta. Vão power supply, disconnect and reconnect the external power supply and restart the programmer. Utdatert versio Nersja Przetermin

A. Jarsion. Användel.

avan ciiriim. Kullanma

EMBLEM™ S-ICD PROGRAMMER: TROUBLESHOOTING

Loss of Communication with Printer

When communication between the programmer and the printer fails, a Printing Error screen will appear with a message stating "Error while printing reports. Press 'Continue' to try printing any remaining reports, or 'Cancel' to cancel the current print job."

If this occurs:

- Select the Try Again button to reconnect to the printer.
- apple, that the wireless function of the programmer closer to the printer.

 4. Move any devices and the associated communication.

 Inability: 2. Ensure, as applicable, that the wireless function is enabled on the printer or that the Bluetooth™ wireless adapter is fully inserted into the USB slot on the printer.

 - Move any devices and the associated cables that may be interfering with the RF

If the programmer is unable to communicate with the pulse generator, follow the steps below:

- 1. Attempt to reposition the wand.
- 2. Select Scan For Devices from the programmer start-up screen or select Scan Again from the Device List screen to locate the desired device
- 3. Move any equipment and associated cables that may be interfering with RF communication.
- 4. If available, attempt to communicate using a different S-ICD System programmer and/ or wand.
- Versiune expirata. Anuse Jve Jackarala različica. Ne uporabite. Versão obsoleta. Não U wersja przetermino 5. Apply a pulse generator magnet to the pulse generator to elicit beeper tones. Remove 1. astarana verlia. Nepouthvat. the magnet and re-attempt communication. w. Jakinant Versio. Ala Kayta.

COMPLIANCE STATEMENTS

EMI/RFI

This equipment has been tested and found to comply with the applicable limits for medical devices, IEC 60601-1-2:2014 or Active Implantable Medical Device Directive 90/385/EEC.

Although this testing shows the device to provide reasonable protection against harmful interference in a typical medical installation, there is no quarantee that interference will not occur in a particular Reorient or relocate the device
Increase the separation before installation. If the device does cause harmful interference the user is encouraged to try and correct the

- Increase the separation between the devices
- Connect the equipment to an outlet on a different circuit
- Contact Boston Scientific using the information on the back cover of this manual.

Essential Performance

In order for the Model 3200 Programmer to meet its intended use, it must interrogate and maintain a communications link with an S-ICD pulse generator as well as being able to appropriately detect touch screen button presses. Therefore those functions that pertain to communications with the implanted cardioverter defibrillator and detection of touch screen presses are considered essential performance.

CAUTION: Changes or modifications not expressly approved by Boston Scientific could void the user's authority to operate the equipment.

w. Jakinnit Versio. Hakayta.

A. Jarcion. Användel.

avan ciiriim. Kullanma

Versão obsoleta. Vão utilize Versinge expirate. And sentility The electromagnetic emissions and immunity information is provided in Table 3: Guidance and Wersja Przeterminowan Manufacturer's Declaration—Electromagnetic Compatibility on page 83 Utdatert versjon. Zastarana verzia. Nepoliziwat. waseraralaralitica. Ne Uporabite.

EMBLEM™ S-ICD PROGRAMMER: DECLARATIONS TABLES

DECLARATIONS TABLES

Table 3: Guidance and Manufacturer's Declaration—Electromagnetic Compatibility

The LATITUDE Programming System, Model 3200, is suitable for use in professional health care facility environments. The customer or the user of this system should assure that it is used in such an environment.

The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

Test Victorial Victoria Victorial Victorial Victorial Victorial Vi	Compliance	Electromagnetic environment—guidance
Proximity fields from RF wireless communications equipment	CISPR 11 Group 1 Class A	The LATITUDE Programming System, Model 3200, uses RF energy only for its intended uses in communication with the implanted device or connectivity functions. Its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Protection of the public mains network	C(SPR 11 Class A IEC 61000-3-2 IEC 61000-3-3	The LATITUDE Programming System, Model 3200, is suitable for use in professional health care facility environments.
Electrostatic Discharge	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, and ± 15 kV air	rite. "depling
Radiated RF EM field	3 V/m from 80 MHz to 2.7 GHz	D'al sie
Proximity fields from RF wireless communications equipment	380 - 390 MHz: 27 V/m 430 - 470 MHz: 28 V/m 704 - 787 MHz: 9 V/m 800 - 960 MHz: 28 V/m 1700 - 1900 MHz: 28 V/m 2400 - 2570 MHz: 28 V/m 5100 - 5800 MHz: 9 V/m	salikke prikes "ilita." salikke prikes "ilita."
Rated power frequency magnetic field	30 A/m	Now Will Bush
Electrical fast transients/ bursts	± 2 kV input AC power ±1 kV SIP/SOP	W. Mag Un STAN Spile
Surges line-to-line	± 0.5 kV, ± 1 kV input AC power	2, × 3. 186 180 180
Surges line-to-ground	\pm 0.5 kV, \pm 1 kV, \pm 2 kV input AC power	Physia 46 Marge
	Nersiane de la	rela razlicica. To Anvano Ku rela razlicica ersion. Anvano Ku rela razlicica ersion. Anvano Ku rentunut version. Anvano Ku

EMBLEM™ S-ICD PROGRAMMER: DECLARATIONS TABLES

Table 3: Guidance and Manufacturer's		
Conducted disturbances induced by RF fields	3 V/m from 0.15 MHz to 80 MHz 6 V/m in ISM bands from 0.15 MHz to 80 MHz	The ISM bands between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz 13.553 MHz to 13.567 MHz 26.957 MHz to 27.283 MHz 40.66 MHz to 40.70 MHz.
366 CNY. WEBONING INTO NOW	OIHOHOIEE	The amateur radio bands between 0.15 MHz and 80 MHz ard 1.8 MHz to 2.0 MHz 3.5 MHz to 4.0 MHz 5.3 MHz to 5.4 MHz 7.0 MHz to 7.3 MHz 10.1 MHz to 10.15 MHz
Table 3: Guidance and Manufacturer's Conducted disturbances induced by RF fields Voltage dips's Voltage interruptions's	108/15 to 105 cucle at 10° 45° 4	14 0 MHz to 14 2 MHz
estimated psolities.	315° 0% U ₊ for 1 cycle and 70% U ₊ for 25/30 cycles at 0°	tot.
Voltage interruptions ^a	0% <i>U</i> _T for 250/300 cycles	1411
a. Voltage dips and interruptions; UT is the AC main	ns voltage prior to applicatio	n of the test level
Voltage interruptions ^a a. Voltage dips and interruptions; UT is the AC main	ns voltage prior to applicatio	h of the test level is of the

Versiline expirate. Anuse utiliza.

*Lastarana verzia. Nepoliživat.

waseraralaralitica. Ne Uporabite.

er en timit versio. Hakaylia.

A varsion. Användel.

avan ciiriim. Kullanma

Versão obsoleta. Não Utilize.

a. Voltage dips and interruptions: UT is the AC mains voltage prior to application of the test level

EMBLEM™ S-ICD PROGRAMMER: DECLARATIONS TABLES

Table 4: EMI/RFI Information: Programmer-to-Pulse Generator Communication

Specification	Medical Implant Communications Service (MICS)
Frequency band	402-405 MHz
Modulation type	FSK EN C. EIL
Radiated Power	<25 µW
Bandwidth	<300 KHz

Table 5: EMI/RFI Information: *Bluetooth* ™ Wireless Printing and Data Transfer

Specification Frequency band Modulation type	
Specification	Bluetooth™ wireless technology 2.402-2.480 GHz
Frequency band Modulation type	2.402-2.480 GHz
-/, /, /, //,	GESK, π/4-DQPSK, 8DPSK
Modulation type Radiated power	GESK, π/4-DQPSK, 8DPSK
Bandwidth	<1.5MHz
Radiated power Bandwidth HONGO AREA LONGO AREA LON	GESK, #/4-DQPSK, 8DPSK <10 mW <1.5 MHz 1.5 MH

Weisja Przeterminowana. Nie używać.

Versiline expirate. Anuse utiliza.

128tarana verzia. Nepoliživat.

Jidatert versjon. Skalikke brukes.

Versão obsoleta. Não Utilize.

EMBLEM™ S-ICD PROGRAMMER: SPECIFICATIONS

SPECIFICATIONS

SPECIFICATIONS	105.		
Table 6: Product Guidelines	leugeu.		
Component	Requirement		
DC Power	The suitable of the suitable o		
Battery pack type	4000 mAh 3.7 volt lithium-ion battery pack	•	
Charge time	Approximately 5 hours	all.	
Power Supply	Arional. et. solis		
Input C 50	100 – 240 VAC, 50 – 60 Hz, 0.5A		
Output	5.5 VDC, 3.64A Power: 20 W	0	
Manufacturer/Model	Elpac Power Systems MWA020005A	~	
Environment	Operating	Storage and Transport	
Temperature	15° C to +38° C (+59° F to +100° F)	-10° C to +55° C (+14° F to +131° F)	
Relative humidity	5% to 93% maximum at 40° C, non-condensing	5% to 93% maximum at 40° C, non-condensing	
Atmospheric pressure	50 kPa to 106 kPa (7.252 psi to 15.374 psi)	50 kPa to 106 kPa (7.252 psi to 15.374 psi)	
Table 7: Specifications	(7.252 psi to 15.374 psi) (7.252 psi to 15.374 psi to 15.374 psi) (7.252 psi to 15.374 psi	ikke Hie TITA	
Table 7: Specifications	St. 110 710 2/20	Mana Hille. Hilling.	

Parameter	40,	Specification 1810 1010 1111 11 11 11 11 11 11 11 11 11	
Dimensions Width x Depth x Height	6.0	24.0 cm x 12.7 cm x 2.6 cm 9.4 in x 5.0 in x 1.0 in	
Weight		.6 kg_1.3 lbs	23
Standard Screen Display		WVGA, 1024 x 600 pixels; 16M TFT	July,
		Mers, so one extremitica. To busine Kni	
90		Lastarela tunul resion sine	

EMBLEM™ S-ICD PROGRAMMER: SPECIFICATIONS

Characteristic	Nominal
Electrical Safety Testing – IEC 60	0601-1:2012
Earth resistance	Not accessible
Earth leakage current	5 mA Normal Condition (NC)
Seb Sign Mo Wi	10 mA Single Fault Condition (SFC)
Patient leakage current	100 µA Normal Condition (NC)
	500 μA Single Fault Condition (SFC) (mains on applied parts)
Electrical Safety Testing – IEC 62	11, 10, 13, El El.,
Electrical Safety Testing – IEC 62	2353;2008 allowed values
Protective Earth Resistance	Not accessible
Equipment leakage — direct method	.500 μΑ
Patient leakage current — direct method (Wand, BF)	= 5000 Melliki. Hill Toto
Insulation resistance	Not accessible O
Une four bes	18/1 Office La SIXII OFFI
Safety Features	13 18 18 4 NO 113. The S. 3C.
Defibrillator protection	To 5000 V; 400 J
128storium Versi	To 5000 K.400 J. Cilio De la Propinsiona del Propinsiona de la Propinsiona de la Propinsiona del Propinsiona del Propinsiona del Propinsiona de la Propinsiona de la Propinsiona del Propinsiona

Versiune expirate. Anuse utiliza.

Lastarana verzia. Nepoliziwat.

Versão obsoleta. Vão utilize.

DEFINITION OF PACKAGE LABEL SYMBOLS

Table 9: Packaging and Device Symbols: Model 3200 Programmer

The following symbols may be used on the Model 3200 programmer, its accessories, and their packaging.

Symbol	Specification	Symbol	Specification
os antific.	Follow instructions for use at www. bostonscientific-elabeling.com.	*	Type BF Applied Part
on Alexandre	Electrostatic discharge	$((\bullet))$	Non-ionizing electromagnetic radiation
dillips to	Temperature limitations	11.00	Humidity limitations
	Atmospheric pressure limitations		Manufacturer
SN	Serial Number	w je	Date of Manufacture
REF	Reference Number 5	EC REP	Authorized Representative in the European Community
LOT	Lot number en USI VERLIO	NON STERILE	Non-sterile
	ACMA Compliance Mark	AUS	Australian Sponsor Address
-	Power plug storage	2012/18/18	Door, open
	Ners to version	arana vertia	cica. Anyan Kullan

DEFINITION OF PACKAGE LABEL SYMBOLS

Table 9: Packaging and Device Symbols: Model 3200 Programmer

The following symbols may be used on the Model 3200 programmer, its accessories, and their packaging.

20.0.	11, 12, 10,11		
Symbol	Specification	Symbol	Specification
et Parolio	Consult instructions for use	1212	Proper insertion of microSD™ card
	WEEE – Waste, Electrical, and Electronic	-)- 5,5V DC	External power supply port
edunitaited,	Equipment (WEEE). Indicates separate collection for electrical and electronic equipment (i.e., do not throw this device in the trash).	C€2797	CE mark of conformity with th identification of the notified body authorizing use of the mark
Renz	New Zealand R-NZ RF Compliance Mark		MR Unsafe
125	Jersione observitione de la	side likke	or Mienry
	Pasenditue, vertuersion	skujuorgo	Jeborijast. Pite
	Versione ojust versile Net Versionological Versione ojust versile net versionological versiono	e expiration	it relation by the state of the

Versiune expirata. Anuse utiliza.

*Lastarana verzia. Nepoliživat.

Versão obsoleta. Vão utilize.

.....ted warranty may apply to this programmer. For warranty eligibility and to obtain the limited warranty, contact Boston Scientific using the information on the back cover. imited Warranty

A limited warranty may apply to this programmer. For warranty eligibility and to obtain a copy of LONIO EXOOUNTINA YOU OIN OIL

Version Penninger, Memojte upotrebljavati.

Lastariela verzina. Memojte upotrebljavati.

Versione obsoleta. Non utilizzare.

Move Cojlisi Versija. Neizhantot.

Pasenusi Versija, Nenaudokite.

Elavult verzio. Ne haszhalia!

Eldvult vertuo. We riderde versie. Livier of bruiken.

Jidatert versjon. Skalikke brilkes.

Versão obsoleta. Não Utilize.

Judien verzieningwand. Nieutywat.

Versiline expirate. Anuse utiliza.

Versians and vertila. Nepolitivat.

instrum Analytica. We liborabite.

en sentimit versio. Ala Kayta.

Augraion. Användel.

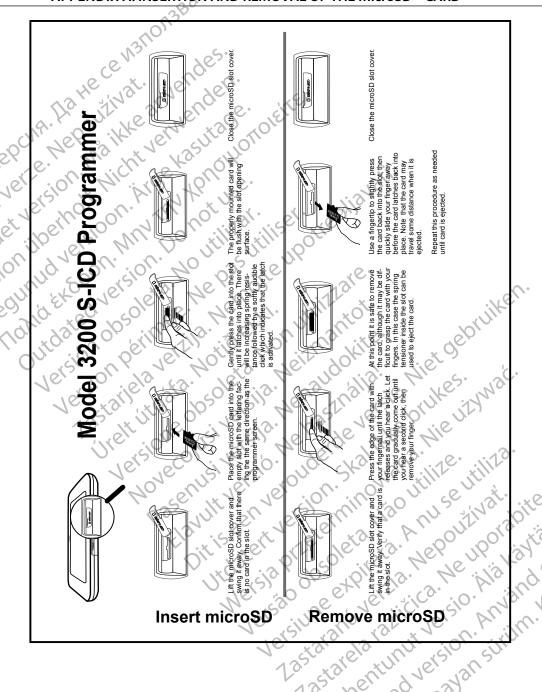
avan ciiriim. Kullanma

Outdated Version Do hot lise.

Version obsoleta. No utilizar.

Version périmée. Ne pas villiser.

The Hotel of Standing and the standard a



Scier Science Just very liberholt. Nicht very enwers. Inden. tific (? Aud versioon, Arge kasutage. Forzeldet version Naikk

Boston Scientific (Australia) Pty Ltd PO Box 322 BOTANY NSW 1455 Australia Free Phone 1 800 676 133 Tree Fax 1 800 836 666 Zastariela verzina. Nemojte upotrebljavati. Boston Scientific Corporation
4100 Hamline Avenue North
t. Paul, MN 55112-5798 UF Soston Scientific Corporation
4100 Hamline Avenue North
St. Paul, MN 55112-5798 USA

300.CARDIAC (227.3422)
651.582.4000



are,
oekstraat 5D
.o31 Diegem, Belgium
www.bostonscientific.com CE2797

Authorized 2015

Jersiune expiration in the continuous properties and the continuous properties are a serial and the continuous properties are a s

