Boston Scientific

PHYSICIAN'S LEAD MANUAL

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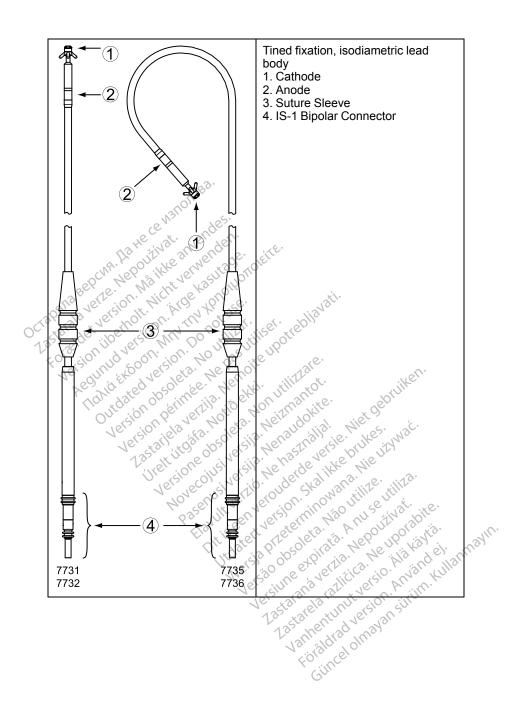
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INFORMATION FOR USE

Device Description

This lead family has the following characteristics:

- Endocardial pace/sense lead—intended for chronic bipolar pacing and sensing in the atrium and/or ventricle.
- IS-1 bipolar connector¹—the industry standard connector to be used in conjunction with a compatible cardiac device that accepts the IS-1 connector.
- MR Conditional—leads can be used as part of the ImageReady MR
 Conditional Pacing System or the ImageReady MR Conditional
 Defibrillation System when connected to Boston Scientific MR Conditional
 pulse generators ("MR Conditional System Information" on page 2).
- Tip electrode—serves as the cathode for intracardiac right atrial and/or
 right ventricular pacing/sensing, using a platinum-iridium design that
 increases the effective active area for sensing and increases chronic lead
 tip stability while maintaining a small surface area for pacing. The high
 impedance performance and low pacing thresholds may combine to
 increase the pacing longevity of the pulse generator.
- IROX-coated electrodes—the electrodes are coated with IROX to increase the microscopic surface area.
- Steroid-eluting—upon exposure to body fluids, the steroid elutes from the
 lead to help reduce tissue inflammation response at the distal electrode.
 The steroid suppresses the inflammatory response believed to cause
 threshold rises typically associated with implanted pacing electrodes.
 Lower thresholds are desirable because they can increase pacing safety
 margins and reduce pacing energy requirements, potentially increasing
 pulse generator longevity. The nominal dose and structure of the steroid
 are listed in the specifications (Table 5 Specifications (Nominal) on page
 24).
- Radiopaque suture sleeve—the radiopaque suture sleeve is visible under fluoroscopy and is used to secure, immobilize, and protect the lead at the venous entry site after lead placement. The window feature is designed to aid compression of the sleeve onto the lead during suturing.
- Preformed Atrial J-shaped fixation—the distal portion of the preformed atrial J lead is anchored in position by removing the stylet and allowing the distal tip to assume a J shape that lodges in the atrial appendage.
- Tined—silicone rubber tines located proximal to the distal pacing electrode provide fixation in the atrial appendage (preformed atrial J) or in the apex of the right ventricle (straight).
- Fluoroscopic visibility—the platinum-iridium electrode design increases the visibility of the passive lead tip under fluoroscopy.

^{1.} IS-1 refers to the international standard ISO 5841-3:2013.

- Lead body—the isodiametric lead body consists of a coaxial design that
 includes single-filar inner and outer coils designed for MR Conditional use
 in the MRI environment, as well as for improved flexural fatigue. The
 conductors are separated by both a silicone rubber and
 Polytetrafluoroethylene (PTFE) lining. Both the inner and outer coil are
 covered in Ethylene tetrafluoroethylene (ETFE) for extra insulation
 protection. The entire lead body is encompassed in a polyurethane outer
 insulation.
- Stylet delivery method—the design consists of an open-lumen conductor coil to enable lead delivery using a stylet. Refer to the stylet information ("Stylets" on page 11).

Related Information

Instructions in the lead manual should be used in conjunction with other resource material, including the applicable pulse generator physician's manual and instructions for use on any implant accessories or tools.

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

Refer to the ImageReady MR Conditional Pacing System MRI Technical Guide or the ImageReady MR Conditional Defibrillation System MRI Technical Guide² (hereafter each referred to as the MRI Technical Guide) for information about MRI scanning.

INTENDED AUDIENCE

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

MR Conditional System Information

These leads³ can be used as part of the ImageReady MR Conditional Pacing System or the ImageReady MR Conditional Defibrillation System (hereafter each referred to as an MR Conditional System) when connected to Boston Scientific MR Conditional pulse generators. Patients with an MR Conditional System may be eligible to undergo MRI scans if performed when all Conditions of Use, as defined in the applicable MRI Technical Guide, are met.

Components required for MR Conditional status include specific models of Boston Scientific pulse generators, leads, and accessories; the Programmer/Recorder/Monitor (PRM); and PRM Software Application. For the model numbers of MR Conditional pulse generators and components, as well as a complete description of the ImageReady MR Conditional System, refer to the applicable MRI Technical Guide.

Implant-related MRI Conditions of Use

The following subset of the MRI Conditions of Use pertains to implantation, and is included as a guide to ensure implantation of a complete imageReady MR Conditional System. For a full list of Conditions of Use, refer to the MRI

2. Available at www.bostonscientific-elabeling.com.

3. Some marketed INGEVITY MRI leads and all INGEVITY MRI leads used in the SAMURAI clinical study have two radiopaque marker bands on the proximal end.

Technical Guide. All items on the full list of Conditions of Use must be met in order for an MRI scan to be considered MR Conditional.

- Patient is implanted with the ImageReady MR Conditional Pacing System⁴ or the ImageReady MR Conditional Defibrillation System
- No other active or abandoned implanted devices, components, or accessories present such as lead adaptors, extenders, leads, or pulse generators
- Bipolar pacing operation or pacing off with the ImageReady MR Conditional Pacing System
- Pulse generator implant location restricted to left or right pectoral region
- At least six (6) weeks have elapsed since implantation and/or any lead revision or surgical modification of the MR Conditional System
- Pacing threshold < 2.0 V in pace-dependent patients with the ImageReady MR Conditional Pacing System
- No evidence of a fractured lead or compromised pulse generator-lead system integrity

Indications and Usage

This Boston Scientific lead is indicated for use as follows:

 Intended for chronic pacing and sensing in the right atrium (Preformed Atrial J) or right ventricle (Straight) when used with a compatible pulse generator

Contraindications

Use of this Boston Scientific lead is contraindicated for the following patients:

- Patients with a hypersensitivity to a nominal single dose of 0.61 mg dexamethasone acetate
- Patients with mechanical tricuspid heart valves

WARNINGS

General

- Labeling knowledge. Read this manual thoroughly before implantation to avoid damage to the pulse generator and/or lead. Such damage can result in patient injury or death.
- For single patient use only. Do not reuse, reprocess, or resterilize.
 Reuse, reprocessing, or resterilization may compromise the structural integrity of the device and/or lead to device failure which, in turn, may result in patient injury, illness, or death. Reuse, reprocessing, or resterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection, including, but not limited to, the transmission of infectious disease(s) from one patient to another.
- 4. Defined as a Boston Scientific MR Conditional pulse generator and lead(s), with all ports occupied by a lead or port plug.

- Contamination of the device may lead to injury, illness, or death of the patient.
- Backup defibrillation protection. Always have external defibrillation equipment available during implant and electrophysiologic testing. If not terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the patient's death.
- Resuscitation availability. Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external rescue.
- Lead fracture. Lead fracture, dislodgment, abrasion, or an incomplete connection can cause a periodic or continual loss of pacing or sensing or both.

Handling

- Excessive flexing. Although pliable, the lead is not designed to tolerate excessive flexing, bending, or tension. This could cause structural weakness, conductor discontinuity, and/or lead dislodgment.
- Do not kink leads. Do not kink, twist, or braid the lead with other leads as doing so could cause lead insulation abrasion damage or conductor damage.

Implant Related

- Do not implant in MRI site Zone III. Implant of the system cannot be performed in an MRI site Zone III (and higher) as defined by the American College of Radiology Guidance Document for Safe MR Practices⁵. Some of the accessories packaged with pulse generators and leads, including the torque wrench and stylet wires, are not MR Conditional and should not be brought into the MRI scanner room, the control room, or the MRI site Zone III or IV areas.
- Obtain appropriate electrode position. Take care to obtain appropriate electrode position. Failure to do so may result in suboptimal lead measurements.

Post-Implant

- Magnetic Resonance Imaging (MRI) exposure. Unless all of the MRI
 Conditions of Use (as described in the MRI Technical Guide) are met, MRI
 scanning of the patient does not meet MR Conditional requirements for the
 implanted system, and significant harm to or death of the patient and/or
 damage to the implanted system may result.
 - Refer to the MRI Technical Guide for potential adverse events applicable when Conditions of Use are met or not met, as well as for a complete list of MRI-related Warnings and Precautions
- Diathermy. Do not subject a patient with an implanted pulse generator and/or lead to diathermy since diathermy may cause fibrillation, burning of
- 5. Kanal E, et al., American Journal of Roentgenology 188:1447-74, 2007.

the myocardium, and irreversible damage to the pulse generator because of induced currents.

PRECAUTIONS

Clinical Considerations

Dexamethasone acetate. It has not been determined whether the
warnings, precautions, or complications usually associated with injectable
dexamethasone acetate apply to the use of a low concentration, highly
localized, controlled-release device. Refer to the Physicians' Desk
Reference [™] ⁶ for a listing of potentially adverse effects.

Sterilization and Storage

- If package is damaged. The blister trays and contents are sterilized with ethylene oxide gas before final packaging. When the pulse generator and/ or lead is received, it is sterile provided the container is intact. If the packaging is wet, punctured, opened, or otherwise damaged, return the pulse generator and/or lead to Boston Scientific.
- Storage temperature. Store at 25°C (77°F). Excursions are permitted between 15°C to 30°C (59°F to 86°F). Transportation spikes are permitted up to 50°C (122°F).
- Use by date. Implant the pulse generator and/or lead before or on the USE BY date on the package label because this date reflects a validated shelf life. For example, if the date is January 1, do not implant on or after January 2.

Handling

- Do not immerse in fluid. Do not wipe or immerse the tip electrode in fluid. Such treatment will reduce the amount of steroid available when the lead is implanted.
- Chronic repositioning. Optimum threshold performance might not be achieved if the lead is chronically repositioned because the steroid can be depleted.
- Protect from surface contamination. The lead uses silicone rubber which can attract particulate matter, and therefore, must always be protected from surface contamination.
- No mineral oil on lead tip. Mineral oil should never come in contact with the lead tip electrode. Mineral oil on the tip may inhibit conduction.
- Ensure suture sleeve position. Ensure the suture sleeve remains
 proximal to the venous entry site and near the terminal boot molding
 throughout the procedure until it is time to secure the lead.

Implantation

- Evaluate patient for surgery. There may be additional factors regarding the patient's overall health and medical condition that, while not related to
- 6. Physicians' Desk Reference is a trademark of Thomson Healthcare Inc.

- device function or purpose, could render the patient a poor candidate for implantation of this system. Cardiac health advocacy groups may have published quidelines that may be helpful in conducting this evaluation.
- Lead compatibility. Prior to implantation, confirm the lead-to-pulse generator compatibility. Using incompatible leads and pulse generators can damage the connector and/or result in potential adverse consequences, such as undersensing of cardiac activity or failure to deliver necessary therapy.
- Use recommended stylet. It is recommended that you use a stylet designed for use with this lead.
- Line-powered equipment. Exercise extreme caution if testing leads using line-powered equipment because leakage current exceeding 10 μA can induce ventricular fibrillation. Ensure that any line-powered equipment is within specifications.
- Do not bend the lead near the lead-header interface. Insert the lead terminal straight into the lead port. Do not bend the lead near the leadheader interface. Improper insertion can cause insulation or connector damage.
- Vein pick. The vein pick is not intended either for puncturing the vein or for dissecting tissue during a cutdown procedure. Be sure that the vein pick does not puncture the insulation of the lead. This could prevent proper lead function.
- Do not bend lead with stylet in place. Do not bend the lead with a stylet in place. Bending the lead could damage the conductor and insulation material.
- Tools applied to distal end. Do not apply tools to the distal end of the lead because lead damage could occur. Avoid holding or handling the distal tip of the lead.
- Curving the stylet. Do not use a sharp object to curve the distal end of a stylet. Do not curve a stylet while it is in the lead. If a curved stylet is preferred, gently curve a straight stylet before inserting it into the lead to avoid damage to the stylet and lead.
- Do not implant lead under clavicle. When attempting to implant the lead via a subclavian puncture, do not introduce the lead under the medial one-third region of the clavicle. Damage or chronic dislodgment to the lead is possible if the lead is implanted in this manner. If implantation via the subclavian vein is desired, the lead must enter the subclavian vein near the lateral border of the first rib to avoid entrapment by the subclavius muscle or ligamentous structures associated with the narrow costoclavicular region. It has been established in the literature that lead fracture can be caused by lead entrapment in such soft tissue structures as the subclavius muscle, costocoracoid ligament, or the costoclavicular ligament.⁷

Magney JE, et al. Anatomical mechanisms explaining damage to pacemaker leads, defibrillator leads, and failure of central venous catheters adjacent to the sternoclavicular joint. PACE. 1993;16:445–457.

- Lead dislodgment. Should dislodgment occur, immediate medical care is required to resolve the electrode position and minimize endocardial trauma.
- Do not use tined lead if withdrawn through introducer. Do not continue
 to use a tined lead if it has been withdrawn through an introducer, since
 damage to the tines may occur.
- Compatible delivery tools. Only use compatible delivery tools to deliver the lead because using incompatible delivery tools may cause lead damage or patient injury.
- Avoid tight stricture. When ligating the vein, avoid stricture that is too tight. A tight stricture might damage the insulation or sever the vein. Avoid dislodging the distal tip during the anchoring procedure.
- Do not suture directly over lead. Do not suture directly over the lead body, as this may cause structural damage. Use the suture sleeve to secure the lead proximal to the venous entry site to prevent lead movement.
- Use caution to remove suture sleeve. Avoid removing or cutting the suture sleeve from the lead. If removal of the suture sleeve is necessary, use caution as lead damage can occur.
- Use of multiple suture sleeves has not been evaluated. Use of multiple suture sleeves has not been evaluated and is not recommended.

Hospital and Medical Environments

 Electrocautery. Electrocautery may induce ventricular arrhythmias and/or fibrillation, and may cause asynchronous pacing, inhibition of pacing, and/ or a reduction in pulse generator pacing output possibly leading to loss of capture.

If electrocautery is medically necessary, observe the following to minimize risk to the lead. Also, refer to pulse generator labeling for device programming recommendations and additional information about minimizing risk to the patient and system.

- Avoid direct contact between the electrocautery equipment and the pulse generator or leads.
- Keep the path of the electrical current as far away as possible from the pulse generator and leads.
- If electrocautery is performed on tissue near the device or leads, monitor pre- and post- measurements for sensing and pacing thresholds and impedances to determine the integrity and stability of the system.
- Use short, intermittent, and irregular bursts at the lowest feasible energy levels.
- Use a bipolar electrocautery system where possible.
- Radio frequency (RF) ablation. RF ablation may induce ventricular arrhythmias and/or fibrillation, and may cause asynchronous pacing, inhibition of pacing, and/or a reduction in pulse generator pacing output

possibly leading to loss of capture. RF ablation may also cause ventricular pacing up to the Maximum Tracking Rate (MTR) and/or changes in pacing thresholds. Additionally, exercise caution when performing any other type of cardiac ablation procedure in patients with implanted devices.

If RF ablation is medically necessary, observe the following to minimize risk to the lead. Also, refer to pulse generator labeling for device programming recommendations and additional information about minimizing risk to the patient and system.

- Avoid direct contact between the ablation catheter and the pulse generator and leads. RF ablation close to the lead electrode may damage the lead-tissue interface.
- Keep the path of the electrical current as far away as possible from the pulse generator and leads.
- If RF ablation is performed on tissue near the device or leads, monitor pre- and post-measurements for sensing and pacing thresholds and impedances to determine the integrity and stability of the system.
- **Central line guidewire insertion.** Use caution when inserting guidewires for placement of other types of central venous catheter systems such as PIC lines or Hickman catheters in locations where pulse generator leads may be encountered. Insertion of such guidewires into veins containing leads could result in the leads being damaged or dislodged.

Follow-up Testing

Lead performance in chronic state. For some patients, lead performance at implant may not predict performance in the chronic state. Therefore, it is recommended that post-implant lead evaluation follow-up be done at the routine pulse generator follow-up and additionally as necessary.

Potential Adverse Events

Based on the literature and on pulse generator and/or lead implant experience, Breakage/failure of the implant instruments
Cardiac perforation
Cardiac tamponade
Chronic nerve damage
Component the following list includes the possible adverse events associated with oraidrad version, Anvandellianmayin. Güncel olmayan sürüm, kullanmayin. implantation of products described in this literature.

- Totaldrad version. Aniandeli.

- Conductor coil fracture

- Death
- Electrolyte imbalance/dehydration
- Elevated thresholds
- Frosion
- Excessive fibrotic tissue growth
- Extracardiac stimulation (muscle/nerve stimulation)
- Fluid accumulation
- Foreign body rejection phenomena
- Formation of hematomas or seromas
- Heart block
- Hemorrhage
- Hemothorax
- Inability to pace
- Inappropriate therapy (e.g., shocks and antitachycardia pacing [ATP] where applicable, pacing)
- Incisional pain
- Incomplete lead connection with pulse generator
- Infection including endocarditis
- Lead dislodgment
- Lead fracture
- Lead insulation breakage or abrasion Lead tip deformation and/or breakage
- Malignancy or skin burn due to fluoroscopic radiation
- Myocardial trauma (e.g., tissue damage, valve damage)
- Myopotential sensing
- Oversensing/undersensing
- Pericardial rub, effusion
- Pneumothorax
- Pulse generator and/or lead migration
- Syncope
- Tachyarrhythmias, which include acceleration of arrhythmias and early, Güncel olmayan recurrent atrial fibrillation
- Thrombosis/thromboemboli
- Valve damage
- Vasovagal response
- Venous occlusion
- Venous trauma (e.g., perforation, dissection, erosion)

For a list of potential adverse events associated with MRI scanning, refer to the appropriate ImageReady MR Conditional Pacing System or Defibrillation System MRI Technical Guide.

Warranty Information

A limited warranty certificate for the lead is available. For a copy, contact Boston Scientific using the information on the back cover.

PRE-IMPLANT INFORMATION

Proper surgical procedures and techniques are the responsibility of the medical professional. The described implant procedures are furnished only for informational purposes. Each physician must apply the information in these instructions according to professional medical training and experience.

The lead is designed, sold, and intended for use only as indicated.

Surgical Preparation

Consider the following prior to the implantation procedure:

- Instrumentation for cardiac monitoring, imaging (fluoroscopy), external defibrillation, and lead signal measurements must be available during implant.
- Always isolate the patient from potentially hazardous leakage current when using electrical instrumentation.
- Sterile duplicates of all implantable items should be available for use if ali Allin verko veronderde verse. Niet Ditis een veronderde verse. accidental damage or contamination occurs. Jr. 15 een verouder de Verste, werde bruke 5.

The following items are packaged with the lead:

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Stylet guide
Literature

Accessories
Separately packaged lead accessories are available in addition to those packaged with the lead.

vein Pick

The vein pick is a disposable plastic device designed to assist with insertion into a vein during a cutdown procedure. into a vein during a cutdown procedure.

Radiopaque Suture Sleeve

The radiopaque suture sleeve is an adjustable, tubular reinforcement that is visible under fluoroscopy. It is positioned over the outer lead insulation and is designed to secure and protect the lead at the venous entry site after lead placement. Using a suture sleeve reduces the possibility of structural damage caused by suturing directly over the lead body. To move the suture sleeve, gently pinch and slide it over the lead until it is in the desired position. The window feature is designed to aid compression of the sleeve onto the lead during suturing.

NOTE: A radiopaque suture sleeve is pre-loaded on the lead and is also available in a slit form as an accessory (Model 6402). The accessory slit suture sleeve is intended to be used as a replacement for the pre-loaded suture sleeve in the event of damage or loss.

CAUTION: Use of multiple suture sleeves has not been evaluated and is not recommended.

Stylets

Stylets aid in positioning the lead. Ensure you use the length appropriate to the lead. Stylets of various degrees of stiffness are available depending on implant technique and patient anatomy.

Table 1. Stylet lengths and stiffness

Lead Model Number (Type)	~ 6 10 70	Recommend- ed Stylet Model Number (Type)	Stylet Stiffness and Knob Color	Stylet Cap Color
7735 (Preformed Atrial J)	71. 10	5012 (Long Tapered)	Soft = Green	White
Attial 3)	religione ousi	5003 (Straight)	X-Soft = Yellow	Ma.
7731 (Straight)	52 HO BEENLIT	5013 (Long Tapered)	Soft = Green	Red
7736 (Preformed Atrial J)	Elg. it	5004 (Straight)	X-Soft = Yellow	lakaka Polaring
7732 (Straight)	59	5014 (Long Tapered)	Soft = Green	Yellow
		5005 (Straight)	X-Soft = Yellow	

CAUTION: It is recommended that you use a stylet designed for use with this lead.

Lead Cap

The lead cap may be used to isolate or cap the lead terminal that is not inserted in the pulse generator. Place a suture around the lead cap groove to secure the lead cap to the lead terminal. Use an appropriate cap for lead.

IMPLANTATION

NOTE: Select the appropriate lead length for a given patient. It is important to select a lead that is long enough to avoid any sharp angles or kinks and to allow for a gentle curve of excess lead in the pocket. Typically, a minimum of 5 to 10 cm of excess lead is sufficient to achieve this configuration in the pocket.

NOTE: Refer to the appropriate ImageReady MR Conditional Pacing System or Defibrillation System MRI Technical Guide for considerations affecting choice and implant of leads for use as part of an MR Conditional system. Use of Boston Scientific MR Conditional pulse generators and leads is required for an implanted system to be considered MR Conditional. Refer to the appropriate ImageReady MR Conditional Pacing System or Defibrillation System MRI Technical Guide for model numbers of pulse generators, leads, accessories, and other system components needed to satisfy the Conditions of Use for MR Conditional scanning.

NOTE: Other implanted devices or patient conditions may cause a patient to be ineligible for an MRI scan, independent of the status of the patient's ImageReady MR Conditional System. . gebruiken.

- Follow the steps below to insert a stylet.

 1. Remove any preinser. Remove any preinserted stylet before inserting a different one.
- Select a stylet according to the function and to the preferred firmness. If 2. desired, gently curve the stylet with any sterile, smooth-surfaced instrument (e.g., 10-cc or 12-cc syringe barrel) (Figure 1 Curve the stylet on page 12).

CAUTION: Do not use a sharp object to curve the distal end of a stylet. Do oraidrad version, Anvandell, Kullanmayin, Güncel olmayan sürüm, Kullanmayin, style sinne expiration not curve a stylet while it is in the lead. If a curved stylet is preferred, gently Jameshumur verziv. Aniand eli curve a straight stylet before inserting it into the lead to avoid damage to the astatalia vertica. Ne Zastarela razlicira. Ne Restaure Engineer. 17 Laster latinity Persio, Mal stylet and lead.

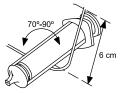


Figure 1. Curve the stylet

Insert the chosen stylet through the terminal pin or the stylet guide if using one (Figure 2 Insert the stylet on page 13).

To optimize insertion into the lead, do not allow body fluids to come in NOTE: contact with the stylet.

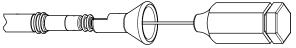


Figure 2. Insert the stylet

Ensure the stylet is fully inserted in the lead prior to inserting the lead into the vein.

CAUTION: Do not bend the lead with a stylet in place. Bending the lead could damage the conductor and insulation material.

Inserting the Lead

The lead may be inserted using one of the following methods: via the cephalic

Via cutdown through the left or right cephalic vein Only one incision over the deltopectoral groove is required to access the right or left vein in the deltopectoral groove. over the deltopectoral groove is required to access the right or left cephalic

The vein pick packaged with this lead can be used to aid access during the cutdown procedure. Isolate the selected vein and introduce the point of the vein pick via this incision into the lumen of the vein. With the point of the vein pick facing in the direction of the desired lead passage, gently raise and tilt the pick. Pass the lead under the vein pick and into the vein.

The vein pick is not intended either for puncturing the vein or for dissecting tissue during a cutdown procedure. Be sure that the vein Jersao obsoleta, wao uninge utilika. Julaten Versterningwana. Wetsla Prizerennin Wao utilize. pick does not puncture the insulation of the lead. This could prevent proper lead function.

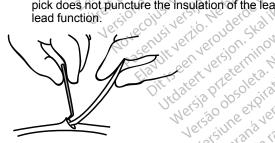


Figure 3. Using the vein pick

letsune expirate. Nepolitivat. tunit versio, Ala kayta. Netzion. Användei. Percutaneously or via cutdown through the subclavian vein A subclavian introducer set is available for use during percutaneous lead insertion. Refer to the specifications for the recommended introducer size.

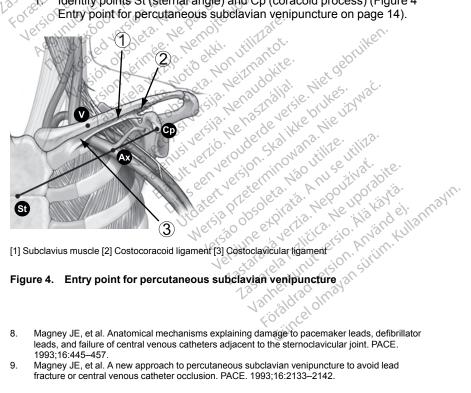
CAUTION: When attempting to implant the lead via a subclavian puncture, do not introduce the lead under the medial one-third region of the clavicle. Damage or chronic dislodgment to the lead is possible if the lead is implanted in this manner. If implantation via the subclavian vein is desired, the lead must enter the subclavian vein near the lateral border of the first rib to avoid entrapment by the subclavius muscle or ligamentous structures associated with the narrow costoclavicular region. It has been established in the literature that lead fracture can be caused by lead entrapment in such soft tissue structures as the subclavius muscle, costocoracoid ligament, or the costoclavicular ligament.8

Leads placed by percutaneous subclavian venipuncture should enter the subclavian vein, where it passes over the first rib (rather than more medially), to avoid entrapment by the subclavius muscle or ligamentous structures associated with the narrow costoclavicular region.9 It is recommended to introduce the lead into the subclavian vein near the lateral border of the first rib.

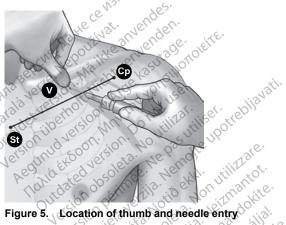
The syringe should be positioned directly above and parallel to the axillary vein to reduce the chance that the needle will contact the axillary or subclavian arteries or the brachial plexus. Use of fluoroscopy is helpful in locating the first rib and in guiding the needle.

The steps below explain how to identify the skin entry point and define the course of the needle toward the subclavian vein where it crosses the first

Identify points St (sternal angle) and Cp (coracoid process) (Figure 4 Entry point for percutaneous subclavian venipuncture on page 14).



- 2. Visually draw a line between St and Cp, and divide the segment into thirds. The needle should pierce the skin at the junction of the middle and lateral thirds, directly above the axillary vein (point Ax).
- 3. Place an index finger on the clavicle at the junction of the medial and middle thirds (point V), beneath which point the subclavian vein should be located.
- Press a thumb against the index finger and project 1–2 centimeters below the clavicle to shield the subclavius muscle from the needle (when hypertrophy of the pectoralis muscle is apparent, the thumb should project about 2 centimeters below the clavicle because the subclavius muscle should be hypertrophied as well) (Figure 5 Location of thumb and needle entry on page 15).



Feel with the thumb the pressure from the passage of the needle 5. through the superficial fascia; direct the needle deep into the tissues toward the subclavian vein and the underlying first rib. Fluoroscopic guidance will reduce the chance that the needle would pass below the first rib and into the lung.

Positioning Lead in Right Atrium

Correct functioning of the lead depends on appropriate placement of the electrodes. Follow the instructions below to position the lead.

- 1. Use a straight stylet to advance the lead into the right atrium.
- Partially withdraw the stylet so that the distal end of the lead begins 2. resuming the J shape.
- 3. To position the preformed atrial J lead, hold the stylet stationary and maintain fluoroscopic observation while advancing the lead tip until the tip enters and becomes lodged in the atrial appendage (Figure 6 Atrial placement on page 16).

WARNING: Take care to obtain appropriate electrode position. Failure to do so may result in suboptimal lead measurements.

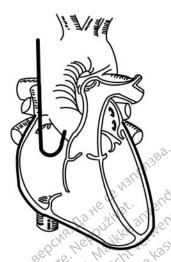


Figure 6. Atrial placement

Positioning Lead in Right Ventricle Correct functioning of the lead depends on appropriate placement of the electrodes. Follow the instructions below to position the lead.

- 1. Partially withdraw the stylet to utilize the flexible silicone neck during lead positioning. Withdrawal of the stylet tip proximal to the anode minimizes tip stiffness and provides added flexibility of the tip region.
- 2. Advance the lead into the right atrium using a straight stylet.
- Advance the lead through the tricuspid valve or place the lead tip against 3. the lateral atrial wall and back the curved lead body through the tricuspid valve.

NOTE: A curved stylet may enhance maneuverability.

Under fluoroscopy and with a stylet in the lead, advance the lead as far as 4. possible until the tip enters and becomes lodged in healthy myocardium in the apex of the right ventricle.

Take care to obtain appropriate electrode position. Failure to do in suboptimal lead measurements. Jannentunu verzion, Anvar Jidiniga kerzini, kiradi ing d Giluga olu shira yan siriin. Kul N.I. Vanhentunit versio. so may result in suboptimal lead measurements.

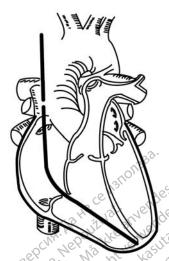


Figure 7. Ventricular placement

 Verify under fluoroscopy that the distal tip electrode is situated in the right ventricle.

Checking for Lead Stability

Follow these steps to check lead stability:

- After fixation, partially withdraw the stylet 8 to 10 cm. (Also see step 5 in this list.)
- Check the stability of the lead using fluoroscopy. Do not tug on the lead. If possible, have the patient cough or take several deep breaths.
- For atrial implantation, after the lead tip is affixed to the heart wall, check for proper lead movement and lead slack in the atrium:
 - As the patient exhales, the lead J-shape should appear secure in the atrial appendage.
 - As the patient inhales, the J-shape straightens to form an L-shape.
 Sufficient slack is present if the lead assumes an L-shape. Excessive slack is present if the lead drops near the tricuspid valve.
- For ventricular implantation, after the lead tip is affixed to the heart wall, check for proper lead movement and lead slack in the ventricle.
- 5. When the electrode position is satisfactory, withdraw the stylet.

CAUTION: Should dislodgment occur, immediate medical care is required to resolve the electrode position and minimize endocardial trauma.

CAUTION: Do not continue to use a tined lead if it has been withdrawn through an introducer, since damage to the tines may occur.

Evaluating Lead Performance

Verify electrical performance of the lead using a pacing system analyzer (PSA) before attaching the lead to the pulse generator. Verifying electrical performance will confirm lead integrity.

- When the lead is placed in the desired location, partially withdraw the stylet so the terminal pin is accessible.
- 2 Connect the lead to the PSA.
 - For bipolar leads, the lead terminal pin is the cathode (–) conductor and should be connected to the negative conductor of the PSA patient cable. The ring of the lead terminal is the anode (+) conductor and should be connected to the positive conductor of the patient cable.
- Perform the measurements as indicated in the table.

Table 2. Recommended threshold and sensing measurements

Measurements	Atrial Data	Ventricular Data
Voltage threshold (pulse width setting at 0.5 ms)	≤1.5 V 11011	≤ 1.0 V
P-wave / R-wave	≥2.0 mV	≥ 5.0 mV
Impedance Company	200–2000 Ω	200–2000 Ω

- Pulse generator measurements may not exactly correlate to the PSA measurements due to signal filtering. Baseline measurements should fall within the recommended values indicated in the table.
- Lower intrinsic potentials, longer durations, and higher pacing threshold may indicate lead placement in ischemic or scarred tissue. Because signal quality may deteriorate, reposition the lead if necessary to obtain a signal with the largest possible amplitude. shortest duration, and lowest pacing threshold.
- If measurements do not conform to the values in the table, perform the 4. following steps:
 - Remove the PSA from the lead.
 - Reinsert the stylet and reposition the lead using the procedures
 - If testing results are unsatisfactory, further lead system repositioning or replacement may be required.

 N: Do not see:

CAUTION: Do not continue to use a tined lead if it has been withdrawn through an introducer, since damage to the tines may occur.

Consider the following information:

- Low stimulation threshold readings indicate a desirable safety margin. since stimulation threshold may rise after implantation.
- Initial electrical measurements may deviate from recommendations because of acute cellular trauma. If this occurs, wait approximately 10 minutes and repeat testing. Values may be dependent on patient-

specific factors such as tissue condition, electrolyte balance, and drug interactions.

- Amplitude and duration measurements are not inclusive of current of injury and are taken during the patient's normal baseline rhythm.
- 5. Test for diaphragmatic stimulation by pacing the lead at a high voltage output, using professional medical judgment to select the output voltage. Adjust the lead configurations and lead position as necessary, PSA testing at higher outputs may also be considered to better characterize stimulation margins. Testing should be conducted for all lead placements.
- Once acceptable measurements are obtained, remove the pacing system 6. analyzer connections, and remove the stylet.

Securing the Lead

After the electrodes are satisfactorily positioned, use the suture sleeve to secure the lead to achieve permanent hemostasis and lead stabilization. Suture sleeve tie-down techniques can vary with the lead insertion technique used. Consider the following warning and precautions while securing the lead.

WARNING: Do not kink, twist, or braid the lead with other leads as doing so could cause lead insulation abrasion damage or conductor damage.

CAUTION: When ligating the vein, avoid stricture that is too tight. A tight stricture might damage the insulation or sever the vein. Avoid dislogging the distal tip during the anchoring procedure.

CAUTION: Do not suture directly over the lead body, as this may cause structural damage. Use the suture sleeve to secure the lead proximal to the venous entry site to prevent lead movement.

CAUTION: Avoid removing or cutting the suture sleeve from the lead. If removal of the suture sleeve is necessary, use caution as lead damage can occur.

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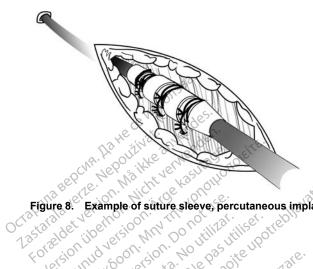
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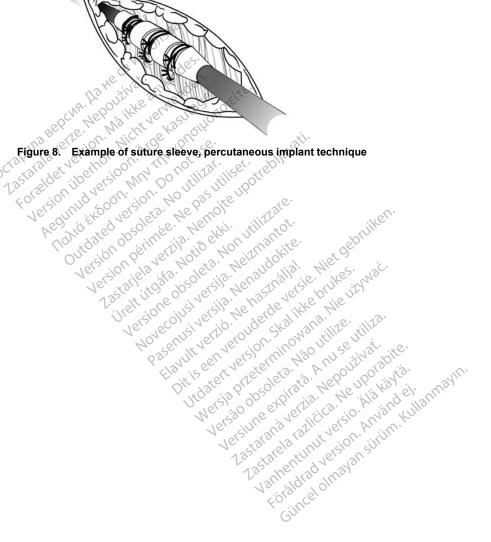
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Percutaneous Implant Technique

Peel back the introducer sheath and slide the suture sleeve deep into the tissue (Figure 8 Example of suture sleeve, percutaneous implant technique on page 20).

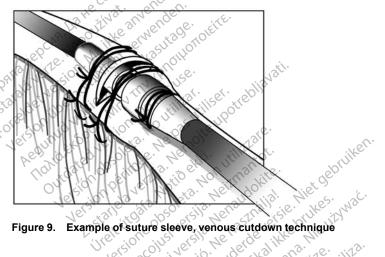




- 2. Using at least two grooves, ligate the suture sleeve and the lead to the fascia. For additional stability, the sleeve may be secured to the lead first before securing the sleeve to the fascia.
- 3. Check the suture sleeve after tie-down to demonstrate stability and lack of slippage by grasping the suture sleeve with fingers and trying to move the lead in either direction.

Venous Cutdown Technique

- Slide the suture sleeve into the vein past the distal groove.
- 2. Ligate the vein around the suture sleeve to obtain hemostasis.
- 3. Using the same groove, secure the lead and vein to the adjacent fascia (Figure 9 Example of suture sleeve, venous cutdown technique on page 21).



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- Use at least two grooves to secure the sleeve to the lead. Secure the lead 4. and suture sleeve to the adjacent fascia.
- 5. Check the suture sleeve after tie-down to demonstrate stability and lack of slippage by grasping the suture sleeve with fingers and trying to move the lead in either direction.

Connection to a Pulse Generator

Consult the applicable pulse generator physician's manual for more instructions for connecting lead terminals to the pulse generator.

- 1. Verify the stylet and any terminal pin accessories are removed prior to connecting the lead to the pulse generator.
- 2. When the lead is secured at the venous entry site, recheck position and threshold measurements and then connect the lead to the pulse generator using the procedure described in the applicable pulse generator physician's manual.
- Grasp the terminal immediately distal to the terminal ring contacts and fully 3. insert the lead terminal into the pulse generator port until the terminal pin is visible beyond the setscrew block. If the terminal pin is difficult to insert, verify the setscrew is completely retracted.

NOTE: If necessary, lubricate the lead connectors sparingly with sterile water to make insertion easier.

Apply gentle traction to the lead by grasping the labeled area of the lead body to ensure a secure connection.

CAUTION: Insert the lead terminal straight into the lead port. Do not bend the lead near the lead-header interface. Improper insertion can cause insulation or connector damage.

NOTE: If the lead terminal will not be connected to a pulse generator at the time of lead implantation, you must cap the connector before closing the pocket incision. The lead cap is designed specifically for this purpose. Place a suture around the lead cap to keep it in place.

Giving consideration to patient anatomy and pulse generator size and motion, gently coil any excess lead and place adjacent to the pulse Kullannayin. generator. It is important to place the lead into the pocket in a manner that Användel. minimizes lead tension, twisting, sharp angles, and/or pressure.

Electrical Performance

- 1. Evaluate the lead signals using the pulse generator.
- Place the pulse generator into the implant pocket as indicated in the pulse 2. generator physician's manual. Also refer to the instructions in this manual ("Connection to a Pulse Generator" on page 22).
- 3. Evaluate the lead signals by viewing the real-time EGM. Consider the following:
 - The signal from the implanted lead should be continuous and without artifact, similar to a body-surface ECG.

- A discontinuous signal may indicate a lead fracture or an otherwise damaged lead, or an insulation break that would necessitate lead replacement.
- Inadequate signals may result either in a failure of the pulse generator system to detect an arrhythmia or in an unnecessary delivery of therapy.
- 4. Test for diaphragmatic stimulation by pacing the lead at a high voltage output, using professional medical judgment to select the output voltage. Adjust the lead configurations and lead position as necessary. Testing should be conducted for all lead placements.

POSTIMPLANT

Postimplant Evaluation

Perform follow-up evaluation as recommended in the applicable pulse generator physician's manual.

CAUTION: For some patients, lead performance at implant may not predict performance in the chronic state. Therefore, it is recommended that post-implant lead evaluation follow-up be done at the routine pulse generator follow-up and additionally as necessary.

WARNING: Ensure that an external defibrillator and medical personnel skilled in CPR are present during post-implant device testing should the patient require external rescue.

NOTE: Chronic repositioning of the lead may be difficult because of body fluid or fibrotic tissue intrusion.

Explantation

NOTE: Return all explanted pulse generators and leads to Boston Scientific. Examination of explanted pulse generators and leads can provide information for continued improvement in system reliability and warranty considerations.

WARNING: Do not reuse, reprocess, or resterilize. Reuse, reprocessing, or resterilization may compromise the structural integrity of the device and/or lead to device failure which, in turn, may result in patient injury, illness, or death. Reuse, reprocessing, or resterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection, including, but not limited to, the transmission of infectious disease(s) from one patient to another. Contamination of the device may lead to injury, illness, or death of the patient.

Contact Boston Scientific when any of the following occur:

- When a product is removed from service.
- In the event of patient death (regardless of cause), along with an autopsy report, if performed.
- For other observation or complications reasons.

NOTE: Disposal of explanted pulse generators and/or leads is subject to applicable laws and regulations. For a Returned Product Kit, contact Boston Scientific using the information on the back cover.

Consider the following items when explanting and returning the pulse generator and/or lead:

- Interrogate the pulse generator and print a comprehensive report.
- Deactivate the pulse generator before explantation.
- Disconnect the leads from the pulse generator.
- If leads are explanted, attempt to remove them intact, and return them
 regardless of condition. Do not remove leads with hemostats or any other
 clamping tool that may damage the leads. Resort to tools only if manual
 manipulation cannot free the lead.
- Wash, but do not submerge, the pulse generator and leads to remove body fluids and debris using a disinfectant solution. Do not allow fluids to enter the pulse generator's lead ports.
- Use a Boston Scientific Returned Product Kit to properly package the pulse generator and/or lead, and send it to Boston Scientific.

SPECIFICATIONS

Specifications (Nominal)

Table 3. Model Number and Lead Length, Preformed Atrial J

	Model: Model Length (cm)
7735	7813.501,618 845. 764. 45 2710 2/13. 67 Mes. Mas.
7736	18 50 150 005 ets 52 251 ets bru it

Table 4. Model Number and Lead Length, Ventricular Straight

	Model Overly Jerth	Length (cm)
7731	bas Ann Gen	52'S CHAIL MAD AN JULIA VADIL
7732	Cit is ater	591 0 0 xia 10 0 10 xia 1 1

Table 5. Specifications (Nominal)

Characteristic	Nominal Pill
Terminal type	13-481 Alakatun lakion siir
Compatibility	Pulse generators with an IS-1 port, which accepts an IS-1 terminal
Fixation	Tined

Table 5. Specifications (Nominal) (continued)

Characteristic	Nominal
Nominal Electrode Dimensions:	
Tip surface area	5 mm ²
Distance between electrodes	10.7 mm
Anode electrode	20 mm ²
Nominal Diameter:	
Insertion	2.0 mm (6F)
Anode electrode	2.0 mm
Lead body The Water Hell Hell.	1.9 mm
Material?	
External insulation	Polyurethane (55D)
Internal insulation	Silicone rubber
Tine material	Silicone rubber
Terminal ring contact	316L stainless steel
IS-1 terminal pin contact	316L stainless steel
Tip electrode	IROX (iridium oxide) coated Pt-Ir
Anode electrode	IROX (iridium oxide) coated Pt-Ir
Conductor type Karl Koli Osom Kalifa	Single wound helical coils of MP35N™ a
Steroid Well Gone Gustansila	0.61 mg dexamethasone acetate
Suture sleeve	Radiopaque white silicone rubber
Maximum Lead Conductor Resistance:	sign will have the spite.
From terminal ring to anode (or ring) electrode	45 cm: 130 Ω 52 cm: 152 Ω 59 cm: 174 Ω
From terminal pin to tip electrode	45 cm: 130 Ω. 52 cm: 152 Ω 59 cm: 174 Ω 45 cm: 180 Ω. 52 cm: 209 Ω. 59 cm: 238 Ω.
a. MP35N is a trademark of SPS Technologies, I	45 cm: 130 Ω 52 cm: 152 Ω 59 cm: 174 Ω 45 cm: 180 Ω 52 cm: 209 Ω 59 cm: 238 Ω

Lead Introducer

Table 6. Lead introducer

Recommended lead introducer		
Introducer without guide wire	6F (2.0 mm)	
Introducer with guide wire	9F (3.0 mm)	

Symbols on Packaging

The following symbols may be used on packaging and labeling (Table 7 Symbols on packaging on page 26):

Table 7. Symbols on packaging

Symbol He Central Well	Description
REF CUM LEPONS HER ENDE	Reference number
SN ETE, ON HICKORY	Serial number
33 yes liber signing Do	Use by 11/2 The Tree of the Control
LOT JUNIUS FOO SELECTIONS	Lot number
M Nithate obsime til	Date of manufacture
STERILE EO JOISTANIEN DATA	Sterilized using ethylene oxide
STERINGE	Sterilized using ethylene oxide Do not resterilize Do not reuse
(S) 642 647	Do not reuse
®	Do not use if package is damaged
os entific.	Consult instructions for use on this website: www.bostonscientific-elabeling.com
C€ 0086	CE mark of conformity with the identification of the notified body authorizing use of the mark

Table 7. Symbols on packaging (continued)

Symbol	Description
	Opening instruction
EC REP	Authorized Representative in the European Community
113E2.	Manufacturer
AUS CENSIL andes	Australian Sponsor Address
MR MA. Ila Helitivat anvende	MR Conditional

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