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Your CRT-P system information

Your CRT-P system information
Have your doctor or nurse complete these forms before you go home from the hospital. CRT-P Model Number: CRT-P Serial Number: Implant Date: Lead Model/Serial Numbers:
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CRT-P Serial Number:
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Lead Model/Serial Numbers:
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Introduction

Your doctor has determined that you have a form of heart failure—a medical condition in which your heart muscle is unable to pump enough his body's needs. To treat wascle is unable to pump enough blood to meet your body's needs. To treat your condition, your doctor has recommended a pacemaker with heart failure there your doctor may also coll " Your doctor may also call this device a correction therapy.

CRT-Page mough blood to meet your condition, your doctor has recommended a pacemaker with heart failure therapy. Rednund versioor

resynchronization therapy pacemaker (CRT-P). A CRT-P is designed to treat heart failure by your heart pure CRT-P is designed to treat heart failure by helping your heart pump more effectively to meet heed for blood 7 need for blood flow. It is also designed to monitor and treat abnormally slowed. your heart pump more effectively to meet your body's and treat abnormally slow heart rhythms, greatly reducing the risks account

> This handbook will tell you how a CRT-P system begin and those you should avoid after your surgery.
>
> It will talk about some of the changes it. It will talk about some of the changes that may occur in your life. It will also answer may typically have. If you have questions about what you read in this handbook, ask your doctor or asset are your boot. read in this handbook, ask your doctor or nurse. They are your best resource for information.

The glossary is located at the front of the handbook. It defines many of the words you will see in the upcoming pages, as well as those you may hear

well as those control with the device used?

Your doctor has recommend heart failure the symmetric symmetr Your doctor has recommended a pacemaker with heart failure therapy because you have heart failure symptoms despite drug therapy Atamight not contract at "body's" heart failure therapy because you have heart failure symptoms despite drug therapy. Also, your ventricles might not contract at the same time to meet your body's need for blood flow. If you be about when this do a pacemaker with capy because you have heart fail contract at the same time to meet your body's need for blood flow. If you have any about when this device is used

Outdated versi may not allow the CRT-P to function appropriately should not receive a device. If voluber about the capacitant account to the capacitant account to the capacitant account the cap Patients who have additional medical conditions that should not receive a device. If you have any questions about when this device is not used, ask your doctor.

How reliable is this device?

It is Boston Scientific's intent to provide implantable devices of high quality and reliability. However, these devices may exhibit malfunctions that may result in lost or compromised ability to deliver therapy. Refer to on www.bostonscientific.com/ppr for more information about device performance, including the transaction and rates of mark and the control of this system.

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Inve of future device

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Glossary

The ability of a device to increase or decrease its pacing

Adaptive rate

The ability of a rate in re-The ability of a device to increase or decrease its pactivity and the second se Asynchrony
Acondition
a nor Acondition in which the heart fails to maintain a normal timing sequence between atrial and ventricular contractions. ventricular contractions.

Atrioventricular

A cluster of cells located in the wall between the right and left atrium, just above the ventricles. The beautiful the beautiful and left atrium. and left atrium, just above the ventricles. This part of the heart's electrical pathway helps carry signals from the atria to the ventricles. the atria to the ventricles.

Atrioventricular (AV) synchrony

Atrioventricular (AV) synchrony

The normal timing sequence for an atrial contraction followed after a fraction followed, after a fraction of a second, by a ventricular contraction.

Atrium (plural: atria)

One of the two upper chambers of the heart—specifically the right atrium and left atrium. The atria collect blood as it comes into the heart and purchambers (von) upper chambers of the heart—specifically the right atrium and left atrium. The atria collect blood as it comes into the heart and pump blood into the lower chambers (ventricles). City Col Ulwayan Sililim. Kulla

Bradycardia

An abnormally slow heartbeat, typically fewer than

Cardiac arrest
Sudden loss of beats ver block

Cardiac resynchronization therapy pacemaker (CRT-P)

Sudden loss of heart function that occurs when the heart beats very fast or stops completely, resulting in a loss of blood flow to the body.

Cardiac resynchronization the An implanted devise signal. Cardiac resynchronization therapy pacemaker (CF An implanted device designed to monitor your heart's signals and coordinate the ventricles to help them con at the same time, allowing the heart to pure effectively. A CRT-P can also the monitoring and tree. at the same time, allowing the heart to pump more effectively. A CRT-P can also function as a pacemomonitoring and treating abnormally store.

Catheter signals and coordinate the ventricles to help them contract effectively. A CRT-P can also function as a pacemaker by monitoring and treating abnormally slow heart rhythms.

Tohid EK 6001.

dhid tred Athin, for Athin, flexible tube or wire inserted into the body for a variety of purposes. Catheters are inserted into the your heart's electrophysiology (EP) test to monitor your heart's electrical activity. Hollow catheters are also used to carry a lead through a blood vessel. electrophysiology (EP) test or study.

See Pulse generator.

ECG/EKG (electrocardiogram)
A graphic representation of your heart. Your doctor poking at " The graph shows how electrical signals travel through your heart. Your doctor can tell what kind of rhythm you have by looking at the pattern of your boothast Foraldrad version. Anvandel City Cal Ulwayan Silving Kulla Lastarela različica. Vanhentunut versio. looking at the pattern of your heartbeat.

oy voltage) and magnetic fields defection the farther they are from their source.

Electromagnetic interference that Invisible lines of force that are the result of electrical fields Electromagnetic interference (EMI)
Interference that occurs when an electromagnetic with an implementation of the state of (produced by voltage) and magnetic fields (produced by current flow). Electromagnetic fields decrease in strength

Interference that occurs when an electromagnetic field interacts with an implanted device. See also Electromagnetic field.

Electrophysiology (EP) to A test in which incompanions. A test in which catheters (thin, flexible tubes or wires) are inserted into your heart to identify and measure the type of electrical signals in your heart. The test reshelp your doctor identify the original heart rhythms. measure the ty and measure the ty grain your heart. The test results can heart rhythms, determine how well medications work, and decide what treatment is best for your conditions.

Heart attack Monia Ex 600M.

Heart block

A condition in which the electrical signals of your heart's natural pacemaker (SA node) are delayed or do not reach the ventricles.

A medical condition in which the heart muscle is unable to pump enough blood to meet the body's needs.

to your rhythm as being normal or irregular. A normal heart rate typically ranges from 60 to 100 beats per minute at rest. City Cal Ulwayan Silitim. Kulla heart rate typically ranges from 60 to 100 beats per minute at rest.

Lead (pronounced "leed")

An insulated wire that is implanted in the heart and connected to the device. The lead senses your heartbeat and delivers pacing pulses from the device

Myocardial infarction (MI)

Also called a heart attack. A myocardial infarction occurs when an artery that supplies blood to the heart becomes blocked. As a result, blood does not reach some the heart, and some of the heart tic a myocardial infarction nausea for when an artery that supplies blood to the heart becomes blocked. As a result, blood does not reach some parts of the heart, and some of the heart tissue dies. Symptoms a myocardial infarction may include shortness nausea, fatigue, and/or pain in the result, blood to the heart becomes use heart, and some of the heart tissue dies. Symptoms a myocardial infarction may include shortness of breath, nausea, fatigue, and/or pain in the chest, arm, or neck the heart, and some of the heart tissue dies. Symptoms of

The area above the breast and below the collarbone.
This is a common area for a device implant.

Programmer

Mania Ex 800M. This is a common area for a device implant.

Programmer

Microcomp Programmer

Microcomputer-based equipment that is used to communicate with the device. The program during testion during testing and follow-up exams to gather and display information from the device. The death communicate with the device. The programmer is used also uses the programmer to adjust the device so that it senses and treats your slow heart rate

the heart failure system that contains the electronics and battery; it is implanted under the skin in the past. Foraldrad version. Anvandel Citized alwayan silvina Kulla Vanhentunut versio. Lastarela različice in some cases, abdominal) area. See also pectoral.

Sinoatrial (SA) node

The heart's natural pacemaker. The SA node is a small signal. This sheart to beat. group of specialized cells in the upper right chamber of the heart (right atrium) that normally generates an electrical signal. This signal runs through the heart and causes the

Ventricle
One of the two lower chambers of the heart. The right ventricle pumps blood to the lungs, and the left ventricle pumps oxygen-carrying blood from the lungs of the body.

Ventric ventricle pumps blood to the lungs, and the left ventricle pumps oxygen-carrying blood from the lungs to the rest of the body.

Ventricular dyssynchronv

A condition in which itimine.

Ventricular dyssynchrony

A condition in which the heart fails to maintain a normal timing sequence between the contractions of the left and right ventricles. Aedinud versioon. condition in timing sequence right ventricles. Javun ver Liv. Nerouder de Versie. Niet gebruiken.
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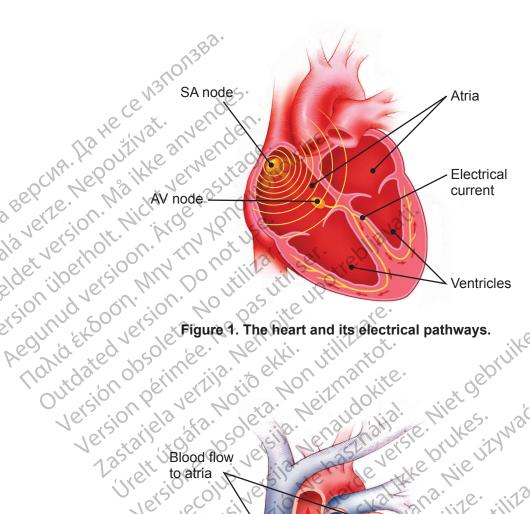
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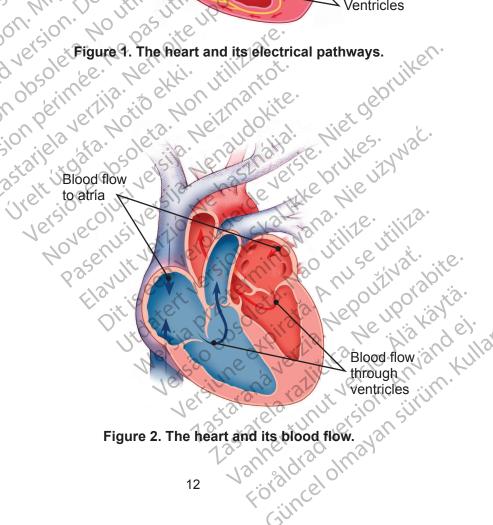
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Your heart's natural pacemaker

Your heart works as both a mechanical pump and an electrical organ. It is able to beat because it produces electrical signals. These signals travel "electrical pathways of "the muse" electrical organ. It is able to beat because it produces electrical signals. These signals travel through the electrical pathways of your heart (Figure the muscle contraction to your body) able to beat because it produce signals. These signals travel through the electrical pathways of your heart (Figure 1), causing the muscle contraction that pumps blood through your body. Jai pę ine musele ine musele i

Normally these signals come from a small area in your heart called the sinoatrial (SA) node is located in the your heart called the sinoatrial (SA) node. This area is located in the upper right chamber or When the SA When the SA node signals reach the two upper chambers of the heart (the State). is located in the upper right chamber, or right atrium. chambers of the heart (the atria), they contract at the same time. The atrial contraction fills the two lower chambers (the ventricles) with blood (Figure 2). As to your body. The contraction of the heart muscle (ventricles) is what you feel as a hearthand the electrical signal travels through the ventricles, your body. The contraction of the heart muscle (ventricles) is what you feel as a heartbeat. After a brief rest, the cycle begins again. Foraldrad version. Anvandel. Citize of alwayan silving. Kulla



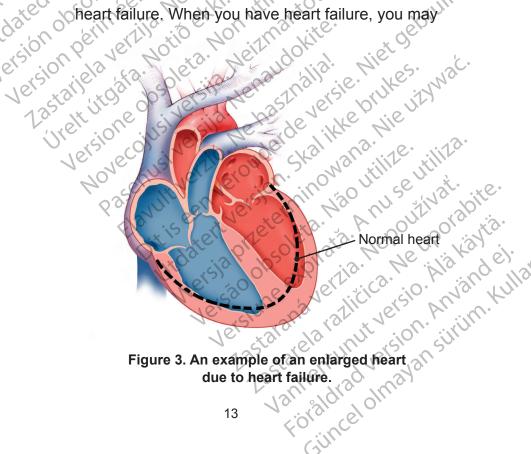


from a heart attack. The heart can also be weakened from prolonged periods of pumping against high pressure in the arteries.

Over time. the from prolonged periods of pumping against high blood

Over time, the heart muscle weakens and becomes enlarged (Figure 3). The ventricles are unable to contract with the same strength or before. As a result over time, the heart muscle weakens and become larged (Figure 3). The ventricles are unable to contract with the same strength or coordination before. As a result, the flow of blood the body is poor. This failure of the heart to the body. with the Letore. As a result the body is poor.
This failure the

This failure of the heart to pump efficiently and meet the body's need for blood and oxygen is known heart failure. When you haveυουγ's need for blood and oxygen is known as heart failure. When you have heart failure, you may



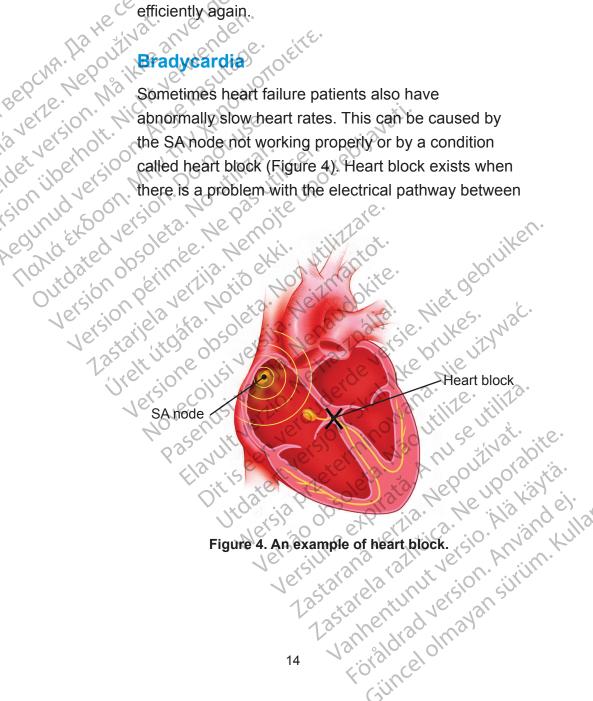
feel short of breath, tired, or light-headed, or you may faint. Medications are often used to treat heart failure and its symptoms. However, some people may also need a CRT-P device to help the heart beat more

sympton eèd a CRT-P de efficiently again.

Brady Bradysardia

Sometimes heart failure patients also have abnormally slow heart rates. This can be caused by the SA node not working properly or by a condition called heart block (Figure 4). Heart there is a problem with the same of the Bradycardia
Sometimes

Alder version Highnore the SA node not working properly or by a condition called heart block (Figure 4). Heart block exists whethere is a problem with the electrical



During bradycardia, the chambers of the heart do not contract often enough to supply the proper amount of blood to your body. If you have brade feel tired or dizzy. Anode

SA node

ventricles.

adycardia, the chamber

act often enough to supply the blood to your body. If you have bra

feel tired or dizzy, or you may faint. Juling bradycardia, the chambers of the heart do not contract often enough to supply the proper amount of blood to your body. If you have bradycardia, you may feel tired or dizzy, or you may faint. Jerann Penneering Nerhoite up otreblia vati.

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Your CRT-P system

Your CRT-P system is designed to coordinate the contractions of your heart's ventricles, and to more and treat abnormally slow heart rhutter consists of a pulse got which is the contraction of your heart rhutter. contractions of your heart's ventricles, and to monitor and treat abnormally slow heart rhythms. The system consists of a pulse generator (also coll which is typically implant consists of a pulse generator (also called a device), which is typically implanted in your chest, and three leads, which are implanted. three leads, which are implanted in your heart and connected to the device. connected to the device.

The device

The device contains a small computer. It runs on a battery that is safely sealed within item. a battery that is safely sealed within its case. The device continuously monitors your heart rhythm and delivers electrical energy (as programmed by your physician) to pace your heart during a slow rhythm

As the device monitors your heart rhythm, it can also store information about your heart. Your doctor can review this information using a special computer called a programmer your heart. Your doctor can seview this information using a special computer called a programmer. The programmer communicates with the device from outside your body through a wand that is placed over your skin. With the programmer, your doctor can better evaluate

The leads

A lead is an insulated wire implanted in your heart and connected to the device. The lead carries the heart signal to the device. It then from the device he A lead is an insulated wire implanted in your heart and connected to the device. The lead carries the heart signal to the device. It then carries energy from the device back to the heart to your heart's contraction. sulated wire implant nected to the device. The kast signal to the device. It then can from the device back to the heart to a your heart's contractions and rhythm. connected to the device. The lead carries the heart signal to the device. It then carries energy from the device back to the heart to coordinate your heart's contractions and rhythm.

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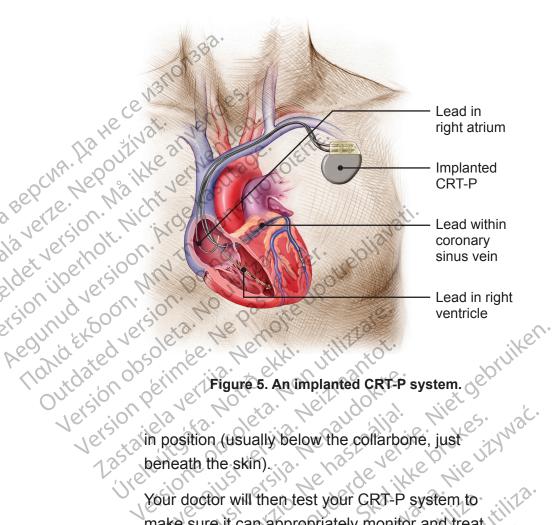
Elavult verzió. Ne haszhália!

Implanting your CRT-P system

A heart failure system is implanted during a surgical procedure. To keep you as comfortable as possible you will be sedated for this surgery procedure, your doctor a vein procedure. To keep you as comfortable as possible, you will be sedated for this surgery. During the procedure, your doctor will insert two 'a vein, usually through collarbon. collarbone. The doctor will then pass these leads through the vein into your heart (one in the atrium and the other: Mania Ex 600M. the tips of the leads the tips of the leads will rest directly against your heart's inner wall. A third lead will be heart's inner wall. A third lead will be placed within a coronary vein, which lies on the outside surface of your heart's left side (Figure 5)

> In some cases, a patient may need to have the third Your doctor will discuss if this type of chest surgery is an alternative for you. lead placed on the heart's surface through an incision

After the leads are positioned, they will be tested to make sure they clearly sense your heart signal and can adequately position. can adequately pace your heart. After this testing, the device will be connected to the leads and placed



make sure it can appropriately monitor and treat your heart rhythm.

After your doctor has finished testing your system, the incision will be closed. You may experient some discomfort of some discomfort from the incision as you recover from the surgery. You should be able to recover normal activities Foraldrad version Anvandel Citize of almayan sirin Kulla normal activities soon after the procedure.

anderstand that, while complications do not happen very often, there are risks associated with the implantation of a device or lead. You should talk with your doctor about these those listed below the implantation of a device or lead. You should talk with your doctor about these risks, including those listed below.

Some of the risks encomprocedure. antation of a calk with your doctor those listed below.

Some of the riproced Some of the risks encountered during the implant procedure include, but are not limited to, the following.

Bleeding Dame of the risks encountered during the implant procedure include, but are not limited to, the following:

• Bleeding
• Formation of a blood of the procedure include in the procedure in the procedure include in the procedure in the pro

Bleeding 12 Form

- Formation of a blood clot

 Damage to adjacen

 muscles Damage to adjacent structures (tendons, muscles, nerves)

 Puncture of a lung or Jamage to adjac muscles, nerves)

 Puncture of a Puncture of a lung or vein

 Damage to the heart (perforation or tissue damage)

 Dangerous arrhythmias

 Kidney failure

 Heart attack

 Death

attack
Stroke
Death
Some of the risks encountered after the system is implanted may include, but are not limited to ne following:

You may develop an infection.

- You may experience erosion of the skin near
- The lead(s) may move out of place in the heart.
- The lead(s) may move out

 The electrod

 The electrod ne electrodes on the lead or the pacing pulsimay cause an irritation or damaging effect on the surrounding tissues, including heart tissue and nerves.

 You may have difficulty fimplanted device. The electrodes on the lead or the pacing pulses cause the surround and nerves.

 You may improve improv

 - The device might be prevented from pacing due to electromagnetic interference (see "Important safety information" on page 31")

 You may receive Mond Ex 800 mm You may receive pacing therapy when it is not needed (unnecessary therapy).

 The device might needed (annual management of the device might needed)
 - Version obsoleti
 - needed (unnecessary therapy).

 The device might not be appropriate.
 - appropriately treat your heart rhythms.

 The device may expense. The device may exhibit malfunctions that may result in lost or compromised ability to the result. therapy. See "How reliable is this device?" on page 2 page 2.

Be sure to talk with your doctor so that you thoroughly understand all of the risks and the sixty of the sixt Vanhentunuit versio, Ala kaytia. Foraldrad version. Anyandel understand all of the risks and benefits associated City Cal Ulwayan Silving Kills Zastarana verzia. Lastarela različica. with the implantation of this system.

After your implant

As you recover from your implant surgery, you will find that your CRT-P system may allow you to return to an active lifestyle. It is important the actively involved in volume doctor's find that your CRT-P system may allow you to return to an active lifestyle. It is important that you become actively involved in your recovery by following your doctor's instructions, including: an active lifestyle. It is important that you become actively involved in your recovery by following your doctor's instructions, including:

Report any reductions. doctor's instructions, including:

Report any redn-

- Jersion obsoleta eport any record in your incisions.

 Avoid lift. Report any redness, swelling, or drainage from
 - Avoid lifting heavy objects as instructed by your
 - Lastarjela Walk, exercise, and bathe according to your doctor's instructions. doctor's instructions.

 Do not
 - Do not wear tight clothing that could irritate the skin over your device.
 - Contact your doctor if you develop a fever that
 - have about your CRT-P system; heart rhythm, or medication. • Avoid rubbing your device or the surrounding chest area.

- If directed by your doctor, limit arm movements that could affect your lead system.
- Avoid rough contact that could result in blows to
- Tell your other doctors, dentists, and emergency
- Iell your other doctors, dentists, and emergen personnel that you have an implanted device.

 Contact your doctor if you notice anything unusual or unexpected, such as or symptoms like the or before you rec contact your doctor if you notice anything unusual or unexpected, such as new symmor symptoms like the ones you expressed before you received your of Medication. unusual or unexpected, such as new symptoms

your doctor if you notice anything unusual or unexpected, such as new symptor or symptoms like the ones you experienced before you received your device.

Medications

Your CRT-P Medications

Your CRA Your CRT-P system is designed to help treat your heart condition. However, you may need to continue taking certain medications as well. It is important that you follow your designed to help treat your factors are the following the following follows your designed to help treat your follow your designed to help treat your follow your designed to help treat your follow your designed to help treat your factors are the following follows your designed to help treat your follow your designed to help treat your follow your designed to help treat your factors are the factors and the factors are the factors are the factors are the factors and the factors are the factors a that you follow your doctor's instructions any medications any medications.

Activities and exercise

Activities and exercise

Your doctor will help you decide what level of activity is best for you. He or she can help answer your questions about lifestyle changes, travel, exercise work, hobbies, and sexual intimacy

Have your doctor or nurse complete the "Your CRT-Pinning system information" form at the front of this before your car! system information" form at the front of this handbook before you go home from the hospital.

Living with your CRT-P system

It is important to follow your doctor's instructions and keep your scheduled follow-up appointments. You should also do the following:

• Ask your decorated in the following: keep your scheduled follow-u should also do the following:

Ask your docto Ask your doctor if you have any questions about or notice anything unusual with your device.

Take the medications preserved instructed by your device. Take the medications prescribed for instructed by your doctor.

• Carry ve Tonid Exooon. Mr

- rake the medications pres instructed by your doctor.

 Carry your medications
 Carry your medications

 - Carry your medication list with you at all times.
 Tell your family doctor, dentist • Tell your family doctor, dentist, and emergency personnel that you have a CRT-P.

Special considerations

Your doctor might ask you to avoid activities where under Jose activities might include driving, swimming or boating alone, or climbing a ladder. Vanhentunut versio Ala kaytia. Foraldrad version. Användeil Citized alwayan silvim. Kulla Zastarana verzie Lastarelarazlicica. Versão o

will be allowed to drive. Your doctor will advise you about what is best for your safety and the safety of others. caused by your heart the deciding factors in whether you allowed to drive. Your doctor will advise you about what is best for your safety and the safety of others.

When to call your -rhythm are often the deciding factors in whether you When to call your doctor

Your doctor will provide guid
should contact him
doctor if

cour doctor will provide guidelines for when you should contact him or her. In general, phone your doctor if you:

• Have a heart rate " doctor if you:

- Outdated versio? Have a heart rate that drops below the minimum
- Have a heart rate that d rate set for your device. Have symptoms Have symptoms of an abnormal heart rhythm and have been instructed to call.

 Notice any swelling your incisions.

 • Devel Notice any swelling, redness, or drainage from
 - Develop a fever that does not go away in two
 - Have questions about your device, hear rhythm, or medications
 - doctor to develop a follow-up plan while you are away.
 - Cinaral almayan siriim. Kulla Notice anything unusual or unexpected, such as new symptoms or symptoms like the ones you had before you received your device. -vic

Remember that your device is designed to monitor and treat your heart rhythm. It can be a great source

Tonia Ex 800M.

Your doctor will schedule regular follow-up visits. It is important that you attend these visits, even if are feeling well. Your device has features; follow rour doctor will schedule regular follow-up visits. It is important that you attend these visits, even if you are feeling well. Your device has many programmed features; follow-up visits will help well your device to best me are feeling well. Your device has many programmable features; follow-up visits will help your doctor program your device to best meet your individual needs.

During your visit, the doctor programmable programma During your visit, the doctor or nurse will programmer to check verilias a special

or nurse will use a special external computer that can communicate with your device in two ways:

1. By using records. special external compute with your device in two ways:

- 1. By using radio frequency (RF) telemetry communication, if you have an PF communication, if you have an RF-enabled device
 - . By using wanded telemetry communication. In this case, the doctor or nurse will place a wand over your skin near your device.

use the programmer to interrogate, or check, your device. They will review your device's memory to evaluate its port. A typical follow-up visit takes about 20 minutes. necessary, they will adjust your device's programmed settings. They will also check the battery to much energy is 1.5. settings. They will adjust your device's programmed settings. They will also check the battery to see how much energy is left.

the energy needed to monitor your heart rhythm and pace your heart. Just like any other type of battery, the battery in your device over time. Since the within your heart rhythm

actery, the battery in your device will be used up
over time. Since the battery is permanently sealed
within your device, it cannot be replaced when ite
energy is depleted. Instead, your entire
need to be replaced (**
on page 5 A battery, safely sealed inside your device, provides ersion liberholt. Nir How will vois depends upon the settings your doctor programs and

Aegunud versioo' Lighty Expools, How will you know if your device's battery is running down?

Device batteries have very predictable behavior over time Your device will regularly check its own battery. At every follow-up visit, the doctor or nurse will also check to see how much energy is remaining in the battery. When the battery's energy level decreases to a certain point, your device will need to be replaced.

Eventually, the energy in your device's battery will decrease to a point where your device. decrease to a point where your device will need to be replaced (see "What you should know about device's batter" July of Silvin Kulla device's battery" on page 28). Your doctor will

Deplace your device, your doctor will surgically open the pocket of skin where your device is located. He or she will disconnect your old device from vour leads and then check to make sure properly with your not seem to be a sure properly wit JAIN where will disconnect your with your new device.

In rare instances, your or with your new replacements and then check to make properly with your new device.

In rare instances, your leads may not work properly with your new device, and your doctor may need to replace the leads. Your doctor will do't leads should be replace. your leads may not work properly with your new device, and your doctor may need to replace the leads. Your doctor will determine if your leads should be replaced.

Should a lead need to be will insert.

Should a lead need will insert Should a lead need to be replaced, your doctor will insert a new lead into a vein, similar to be original lead was implanted. original lead was implanted. See "Implanting your CRT-P system" on page 19.

Version Your doctor will then connect the leads to your new device. Finally, he or she will test your new system to make sure it is working properly

> After the testing is complete, the pocket of skin will be closed. You may experience some discomfort from the Vanhentunut versio Ala Kaytia. be able to return to normal activities soon after the procedure. incision as you recover from the surgery. You should Foraldrad version. Användiel. Versiune expirati 1.astarelarazličica. Ne Jersão obso Lastarana verzia. Citized alwayan silving Kulla

...ed during a device and/or lead
...placement procedure are similar to the risks of
the initial implant, such as infection, tissue damage,
and bleeding. See "Implant risks" on page 21.

Be sure to talk with your door
risks when mo! a device and/or lead occurred are similar to the risks infection, tissue day and bleeding. See "Implant risks" on page 21.

Be sure to talk with your doctor about the risks when making decision your system. Be sure to talk with your doctor about the potential risks when making decisions about replacing your system.

sure to talk risks when make your system. reparent pennies in Nemoite up otrebliavati.

1. 25 tariela verzina. Hemoite up otrebliavati.

1. 25 tariela verzina. La compara de la compara Outdated Version Do boringe. Jersion Périmée. Ne pas Juilser. Jersion obsoleta. No utilizar.

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Move Cojusi versija. Neizmantot.

Pasenusi versija. Nenaudokite.

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Important safety information

Your device has built-in features that protect it from interference produced by most electrical equipment. Most of the things vow work around on a device affect. Redilling Asiziool sensitive to strong electromagnetic interference

(EMI) and can be affected by certain source of electric or magnetic. Mania Ex 800n. (EMI) and can be affected by certain sources of electric or magnetic fields.

If your employment requires you to be close to large industrial generators or sources of radar you may need special considerations. need special consideration before returning to work. If your work takes place in such an environment, please talk with your physician.

tor safe interaction with tools, appliances, and activities.

Items that are safe under normal use:

Air purifiers Foraldrad version. Anvandeil Citized alwayan silvim. Kulla

- **Blenders**
- CD/DVD Players
- cothes washing
 Electric blankets
 Electric can electric blankets

 Electric can openers

 Electric invisible for Clothes washing machines and dryers
- ectric can openers

 Electric invisible fences

 Electric toothbrusher

 Fax/copy ectric invisible fenc

 Electric toothbrushes

 Fax/copy machine

 Hair dry ctric toothbrush.

 Fàx/copy machines

 Hair dryers

 Heating re nhotrepliavati. Heating pads Hot tubs/whirlpool baths

 NOTE: Consult with your with your medical consult with your however. NOTE: Consult with your doctor before using a hot tu Your medical condition may not permit this activity; however, it will not harm your device.

 • Laser tag games NOTE: Consult with your doctor before using a hot tub.

 Your medical condition may not permit this action. ovens (electric, convection, and gas)

 Pagers

 Patient alert devices

 Personal digital

 NOTE: Pr
 - Lastarjela V

 - Pagers

 - NOTE: PDAs that also function as cell phones should be kept at least 6 inches (15 cm) away from your described See "Cellular phones" on page 37 NOTE: PDAs that also function as cell phones should be kept at least 6 inches (15 cm) away from your device. See "Cellular phones" on page 37. Cincal almayan sirin. Kulla Levi Fioraldrad version.

- Radios (AM and FM)

 Remote controls (tv, garage door, stereo, camera/video equipment)

 Stoves (electric or gas)

 Tanning be ontrols (tv, ganteral/video equipme)
 Stoves (electric or gas)
 Tanning beds
 Television
- Jec Jectra Tanning beds Televisions Televisions

 TV or radio towers (safe outside of restricted areas)

 Vacuum cleaners

 VCRs TV or radio towe restricted areas)

 Vacuum clearing von

Outdated version, Version obsoleta Viernia

Warnings and precautions

If you use any of the following that you keep them " Version perimerilia. If you use any of the following items, it is important that you keep them the recommendations that you keep them the recommended distance away

Lastarela razlicica. Ne li porabite. Lastarana vertia. Items that should not be placed directly over Vanhentunut versio Ala kayta. device, but are otherwise safe to use: Foraldrad version. Användiel.

- Cordless (household) telephones Citaral almayan silitim. Kulla
- Hand-held massagers

 Portable MP3 and multimedia players (such as iPods™) that do not also function as a cellular phone (see "Cellular phones" on page 37)

NOTE: While portable MP3 players themselves should not interfere with your device, the headphones or earbuds should be stored at least 6 inches (15 cm) away from your device, and you should avoid draping the headphones

d Bepcha. Ha He ce war ala verze. Nepoliżiwat. aldet version, waitike a Items that should remain at least 6 inches (15 cm) Aegunud Versioon.

- Items that should remai away from your device:

 Cellular phone Mand Exooon, MAN Cellular phones, including PDAs and portable MP3 players with integrated cellular phones NOTE: For more information about cellular phones, see
 - Outdated version Sources transmitting Bluetooth™ or Wi-Fi signals (cellular phones, wireless Internet routers, etc.)

 Headphones and
 - NOTE: It is safe to use headphones and earbuds, but you should refrain from draping them around your neck from storing them in a breast or all places them
 - Starana verzia. Nepoużíwat

iPod is a trademark of Apple Inc.
Bluetooth is a trademark of Bluetooth CPD in the game of Bingo iPod is a trademark of Apple Inc.
Bluetooth SIG, Inc. Citaral almayan silitim. Kulla

remain at least 12 inch way from your device: Battery-powered cordless power tools Chain saws Corded drills and power. Lawn Items that should remain at least 12 inches ed cordless pc an saws Corded drills and power tools Leaf blowers Rem

- Leaf blower

 Hilling to the Rem
- Leaf blowers

 Remote controls with antennas

 Shop tools (drills, table saw

Shop tools (drills, table saws, etc.) Slot machines Snow blower Slot machines Snowbler Snow blowers Stereo sr Items that should remain at least 24 inches (60 cm) away from your device: Arc welders

- CB and police radio antennas (LE Nille)

 Running motors and those

Running motors and alternators, especially those found in vehicles

NOTE: Avoid leaning over running motors of a running vehicle. Alternator fields that can affect required to at the second control of the second control fields that can affect your device. However, the distance required to drive or ride in a vehicle is safe Vanhentunut versio Ala kaytia. NOTE: Avoid leaning over running motors and alternators Foraldrad version. Användeil Lastarela razlicica. Ne Citaral almavan silitim. Kulla

Items that should not be used:

- Body-fat measuring scales
- Jack hammers

- Magnetic mattresses and chairs

a particular appliance, tool, or activity, please call Boston Scientific Patient Services at +1.651.582.4000. You can all Compatibility and Compatibility an particular appliance, tool, or activity, ple call Boston Scientific Patient Services at +1.651,582.4000. You can also refer to "Compatibility Chart located com/patients activity, please
conentific Patient Services at
to 651,582,4000. You can also refer to the EMI
Compatibility Chart located at www.bostonscientific.
com/patients. ompatibility com/patients.

Theft detection and security systems

Electronic antitheft systems (including to deactivation) and security

that included the transfer of the Electronic antitheft systems (including tag deactivation) and security gates or tag that include radio frequence equipment (often found in store and library doorways, at checkout counters, and in point-of-entry control systems) should be a control systems. Outdatedver control systems) should not cause you any worry if you follow these guidelines:

- Walk through theft detection and security systems at a normal pace.
- O Do not lean against or linger near these systems.
 - Do not lean against checkout counter-mounted or handheld tag deactivation systems.
 - doorways, as some theft detection systems may be hidden in the walls or the floor in these Avoid lingering near entrance and exit
 - · If you are near an electronic antitheft, security, or entry control system and suspect interaction cincel olma

(experience symptoms) with your device from one of these systems, promptly move away from

nearby and inform your doctor.

rour Boston Scientific implantable device is unlike to set off the alarm from an electronic antitheft or security system.

Airport security Your Boston Scientific implantable device is unlikely

Juston Sc. Juston Sc. Juston Sc. Juston Sc. Juston Sc. Juston Sc. Juston Security System. Airport security
Your device Your device contains metal parts that may set off airport security metal detector alarms. The security archway will not harm your device personnel that your amport security metal detector alarms. The security metal device. Tell security personnel that you have an implanted device.

Airport security ware device. airport security metal detector alarms. The security

Airport security wands could tempordevice. If possible act Airport security wands could temporarily affect your device. If possible, ask to be hand-searched in of being searched with a hand. of being searched with a handheld wand. If a wand must be used, inform the security personn have an implanted device. If possible, ask to be hand-searched instead must be used, inform the security personnel that you not to hold the wand over your device and to perform the search quickly. have an implanted device. Tell the security personnel

> If you have questions about airport security, call your doctor or Boston Scientific Patient Services at

+1.651.582.4000.

Cellular phones

Keep your cellular phone at least 6 inches (15 cm) away from your device. your cellular phone at least 6 inches (15 cm) away from your device. Your cellular phone is a source of EMI and could affect your down operation. This interaction the phone away from your device. Your cellular phone is a source of EMI and could affect your device's operation. This interaction is temporary and the phone away from your operation. This interaction is temporary, and moving the phone away from your device will return it to the phone away from your device will return it to ciincelolm

proper function. To reduce the chance of interaction. follow these precautions:

- d Bed CNA. II 3 He ce hate phone and your devansmits more than 3 watts, in austance to 12 inches (30 cm).

 Hold the cellular phone to your ear on the opposite side of your body from your device or on a belt if that place 6 inches (15 cm). Maintain a distance of at least 6 inches (15 cm) between the cellular phone and your device. If the phone transmits more than 3 watts, increase

Do not carry a cellular phone in a breast pocket or on a belt if that places the phone within 6 inches (15 cm) of your device.

These precautions apply or to household These precautions apply only to cellular phones, not to household cordless phones. However, you sho avoid placing your household. to household cordless phones. However, you should avoid placing your household cordless phone rodirectly over your device directly over your device. avoid placing your household cordless phone receiver

Dental and medical procedures 💛

Some medical procedures could damage or otherwise affect your device. Be sure to always tell your dentist and physicians that you have an implanted device so that they can take the necessary precautions. Be especially careful with the following procedures:

> electromagnetic field. Some pacemaker systems have been engineered to allow the patients. Magnetic resonance imaging (MRI): undergo MRI scans under specific conditions.
>
> Talk to your physician about the capabilities of your device and leads. ans under specific conditions.
>
> Talk to your physician about the capabilities of your device and leads. If your system is not one of those eligible to be scanned, or if the one of those eligible to be scanned, or if the ori,

required conditions are not met. MRI scans and shc provided and shc provided and shc you and your pacing syst and ready for an MRI scan in or you to undergo this procedure. Hospitals keep MRI equipment in rooms marked with signs that indicate magnets are inside. Do no go inside these rooms unless your not have confirmed that your package and you meet the not page. can severely damage your device and should not be performed. Your physician must always an MRI scan in order this procedure. Hospitals equipment in rooms marked with signs that indicate magnets are inside. Do not go inside these rooms unless your physician has confirmed that your pacing system is eligand you meet the requirements for an heat to tissue.

• Diathermy: This uses heat to tissue. confirm that both you and your pacing system are eligible and ready for an MRI scan in order magnets are inside. Do not magnets are inside. Do not nas confirmed that your pacing system is eligible and you meet the requirements for an MRI scan.

• Diathermy: This uses an electrical field to an heat to tissues in the body and contyour device or injure your not be performed.

- Tonid Ex 600n. MMV
 - Outdated version procedures to stop vessels from bleeding. If electrocautery must be used, talk with vound doctor and the doctor performing procedure. Jersion obsoleta electrocautery must be used, talk with your heart
 - Lastarjela Electrolysis and Thermolysis: These are dermatology or hair removal procedures that pass electrical current into the evice. your heart doctor before having any electrolysis or thermolysis treatment or thermolysis treatment.
 - External defibrillation: This is a procedure, uses external equipment to deliver an electrical shock to your heart to restore a rapid or irregular. irregular heart rate to a normal rhythm. External defibrillation can affect your device but constill be performed if defibrillation can affect your device, but can still be performed if necessary. If you receive external defibrillation, be sure to contact

- your physician as soon as possible following the emergency to verify that your device is functioning properly.
- Jaical procedure that

 . ap stones in the urinary tract

 . ariley stones). Lithotripsy can damage
 your device if certain precautions are not taken.
 Talk with your heart doctor as well as the doctor
 performing the procedure about what can be
 done to protect your device.

 Therapeutic radiation trace
 This procedure
- Aegunud versioon. Arg Mand Exoon, MAN Outdated version
 - Transcutaneous Electrical Nerve Stimulation
 (TENS) unit: This is a device prescribed by physicians or chiropracters for pain. ATENO Version obsoleti physicians or chiropractors for control of chronic pain. ATENS unit can affect your device and will require special precautions. If you must use a TENS unit, talk with your heart doctor.

Most medical and dental procedures will not affect Lastarela razlicica. Ne liporabite. your device. Some examples include: Dental drills and cleaning equipment.

Diagnostic ultrasound pro-

- CT scans
- Janhentunut versio Hia kayta. Foraldrad version. Anyandel. City Cal Ulwayan Silving Kills
- Diagnostic X-rays
- EKG machines
- Mammograms

NOTE: Mammograms will not interfere with your device. However, your device could be damaged if

It you need to undergo any surgical procedures, tell your dentist and/or doctor that you have a heart failure system. They can contact the physician who monitors your device to find the best way to pro-Jour dentist and/or doctor that you have a heart failure system. They can contact the physician who monitors your device to find the best way to provide treatment medical procedure talk.

Jou nave a heart failur contact the physician who monitors your device to find the best way to provide treatment.

If you have questions about a specific appliance, tool, medical procedure, or piece of equipment, please talk with your doctor or call Boston C

Services at +1 654 who mon west way to provide treatm who may have questions about a specific appliance, to medical procedure, or piece of equipment, please talk with your doctor or call Boston Scientific Part Services at +1.651.582,4000. act the bes ave questions about adject procedure, or piece talk with your doctor or call B Services at +1.651.582.4000. Tonia Ex600n. Jersione obsoleta. Non utilizzare. 1. Astariela verzila. Nemoite Javun Vending Niet de Diniken.

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Summary

A BERCHA, Ha He Ce V31101138a. It is natural for you to feel anxious or nervous about receiving a CRT-P system. Remember that your device can be a great source of reasons you and your friends and receiving a CRT-P system. Remember that your device can be a great source of reassurance for you and your friends and family.

Talking with other CPT
while

Jel anxic

JAT-P system. Ren

Jevice can be a great source of

you and your friends and family.

Talking with other CRT To while adiust. Talking with other CRT-P patients is often helpful while adjusting to your new device. Ask vous nurse, or Boston Scientific a local CC nurse, or Boston Scientific representative if there is a local CRT-P patient support group in vo while adjusting to your new device. Ask your doctor, а local CRT-P patient support group in your area.
The information presented

The information presented in this handbook is intended to help you understand intended to help you understand more about your heart condition and your device of heart condition and your device. If you have questions about what you have read be sure to ask your doctor Lustarela razlicica. Ne li porabite. Lastarana vertia. Nepolithya Versinne expiration. Anus or nurse. They are your best resource for information about your particular needs or situation. Janhenthunt Jersio. Hia kayta. Jersão obsoleta.

Foraldrad version. Anvandel. Circal almayan silvim. Kulla

Contact information

Symbol

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