



PACEART® System

Electronic Medical Record Interoperability

Medtronic's Commitment

Medtronic is strategically committed to providing its customers timely and easy access to the information resident in its various cardiac information systems, and to the provision of workflow tools that make it easy to transmit, access, and manage that information. Today, Medtronic leads the industry with technology solutions that connect data from a patient's device all the way to the electronic medical record (EMR). The Medtronic CareLink® Network, Medtronic CareLink® Programmer, and Paceart® System are the key components to seamless management and transfer of patient device data.

Paceart

For nearly two decades, Paceart has served clinicians by integrating data from implanted cardiac device programmers, pacemaker transmitters, cardiac event recorders, and the Medtronic CareLink Network (added in 2004) into a single patient record, enabling clinicians to conduct their daily work through commonly formatted data and workflow enhancement tools. In 2003, Paceart completed the link to the electronic medical record via its Export Module. Today, Paceart customers use this option to transmit software-industry-standard XML-based data to their electronic medical records, combining cardiac data with other patient information to provide more comprehensive insights into patient care.

Paceart Interoperability

Medtronic is committed not only to the transfer of Paceart-managed clinical data to the electronic medical record, but also to ensuring that its various cardiac information tools are designed to complement the capabilities of such systems. Such "interoperability" empowers clinicians to provide optimal patient care and efficient clinic workflow management. Interoperability will proceed on two fronts: the adoption of Health Level Seven (HL7) messaging protocols and the close collaboration with leading electronic medical record system providers to simplify data movement.

HL7

Paceart's HL7 messaging activities will tentatively focus on in- and outbound patient demographic, insurance, and scheduling data, as well as the outbound transfer of Paceart-managed clinical data. Paceart's 2006 First Edition (scheduled for release in November 2005) will support the bi-directional exchange of patient demographic and insurance data via the HL7 ADT (admission, discharge, transfer) message.

Regarding HL7-based support for outbound transfer of clinical data, Medtronic is committed to delivering this capability as soon as HL7 formally adopts a comprehensive standard, which is currently under development. Medtronic, along with other implanted cardiac device industry leaders, is actively working with HL7 to develop this standard. In the interim, no vendor – either from the implanted cardiac device or health care information system industries – can accurately claim such support. While the exact timing of a substantive HL7 message type to support the planned transfer of data from implanted cardiac devices is uncertain, it is probable that a standard of limited scope may be available during 2005. A more comprehensive HL7 cardiac device message type is likely in 2006, with the expectation that leading EMRs would fully support the standard by 2007.

Electronic Medical Record Vendor Collaboration

Over the next 12-18 months, Medtronic will work with leading EMR vendors to support interoperability, utilizing our current XML-based format, as well as emerging HL7 messaging standards that will also be based on XML. These activities are intended to ensure your Paceart investment will meet your healthcare information strategy needs.

Today, Paceart systems are installed in over 1,000 clinics managing more than 1.5 million patients with implanted cardiac devices.¹ Paceart's ability to integrate data from more than 1,000 types of implanted cardiac devices and its current and future capabilities in support of interoperability makes it an integral resource in information management strategies for clinics.

¹ Paceart Customer Study conducted January 2005 by an independent marketing research organization.

Brief Statements

Caution: Federal law (USA) restricts the device to sale by or on the order of a physician.

Paceart – Caution: Federal law (USA) restricts the device to sale by or on the order of a physician (or properly licensed practitioner). For further information, please call Medtronic at 1-800-PACEART and/or consult Medtronic's website at www.paceart.com.

The Medtronic/Vitatron CareLink programmer system is comprised of prescription devices indicated for use in the interrogation and programming of implantable medical devices. Prior to use, refer to the Programmer Reference Guide as well as the appropriate programmer software and implantable device technical manuals for more information related to specific implantable device models. Programming should be attempted only by appropriately trained personnel after careful study of the technical manual for the implantable device and after careful determination of appropriate parameter values based on the patient's condition and pacing system used.

The Medtronic CareLink programmer must be used only for programming implantable devices manufactured by Medtronic or Vitatron. See the appropriate technical manuals for detailed information regarding instructions for use, indications, contraindications, warnings and precautions, and potential adverse events.

The Medtronic CareLink® Monitor is a prescription device indicated for use in the transfer of patient data from some Medtronic implantable cardiac devices based on physician instructions and as described in the product manual. This product is not a substitute for appropriate medical attention in the event of an emergency and should only be used as directed by a physician. The Medtronic CareLink Network is currently available in the United States, Alaska, and Hawaii. Rx Only.

Medtronic Paceart

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