

Sleuth™ Implantable ECG Monitoring System – An accurate, efficient system for monitoring a patient’s heart rate and rhythm, and providing electrocardiogram (ECG) data to physicians in a timely manner. System components include:

High Definition Implantable Loop Recorder (HD-ILR) – A small, implantable device that continuously monitors the electrical activities of the heart.

Personal Diagnostic Manager (PDM) – A hand-held, battery-powered device that stores and transmits ECG data when symptoms related to a patient’s heart rate and rhythm occur.

Base Station – A device placed in the patient’s home and connected to a phone line. ECG data collected by the PDM is transmitted wirelessly and automatically to the base station which sends the data securely to the Monitoring Center.

Monitoring Center – Certified cardiac technicians evaluate and triage the patient’s ECG data, and then create and send reports to the physician to aid in the patient’s diagnosis.

510(k) Marketing Clearance – Regulatory permission from the Food and Drug Administration to introduce medical devices into commercial distribution.

Arrhythmia – A disturbance in the beating or rhythm of the heart.

Bradycardia – Abnormally slow heart rhythm (usually less than 60 beats per minute) that may be accompanied by symptoms, such as fainting, dizziness, lethargy and shortness of breath.

Cardiovascular Syncope – Syncope caused by a cardiovascular condition. Causes may include: heart attack, arrhythmia, obstructed blood flow, congestive heart failure, hypotension and severe muscle disease.

Congestive Heart Failure (Heart Failure) – An abnormal, progressive condition that impairs the heart’s ability to pump enough blood to other organs. It can be caused by narrowed arteries, a previous heart attack or high blood pressure. Patients can experience volume overload and pressure within the heart.

Electrocardiogram (ECG, EKG) – Recording of the heart’s electrical activity that controls the heart’s beating.

Heart Attack – See myocardial infarction.

Hypertension – High blood pressure.

Hypotension – Low blood pressure.

Implantable Wireless Diagnostic Systems – Monitoring devices that include a wireless, implantable component to record data on activities in the body so physicians can diagnose the patient’s condition. The systems allow for monitoring even when the patient is not at the physician’s office, facilitating an accurate and prompt diagnosis.

Myocardial Infarction (Heart Attack) – Interruption to the blood and oxygen supply to a part of the heart. This can cause damage to the heart, and can lead to congestive heart failure.

Obstructed Blood Flow – When an organ’s vessels become narrowed, making it more difficult for blood to flow to the organ – such as the heart, the kidney or the brain.

Syncope – Temporary loss of consciousness and posture, typically described as fainting. It most often occurs when blood pressure is too low (hypotension), and there is a lack of blood and oxygen supply to the brain.

Tachycardia – Excessively fast heart rhythm (usually greater than 100 beats per minute) that may result in fibrillation, where the heart beats so rapidly that it simply “quivers.” Possible symptoms include fainting, dizziness, feeling the heart beat (palpitations), chest discomfort or pain (angina), or shortness of breath.

Triage – Certified technicians at the Monitoring Center review patient data and identify patient cardiac occurrences that need to be immediately addressed by a physician. This process is similar to a hospital’s emergency room triage, where incoming patients are assessed for how quickly they need to be examined by a physician.

For additional information, visit:

Transoma Medical – www.transoma.com

American Heart Association – www.americanheart.org

Heart Rhythm Society – www.hrsonline.org

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