CARDIAC MONITORING – THE EARLY DAYS
SEEQ™ Mobile cardiac telemetry system for short-term monitoring up to 30 days

Reveal LINQ™ Insertable cardiac monitoring system for long-term monitoring up to 3 years
DIAGNOSTIC CHOICES BASED ON FREQUENCY OF SYMPTOMS

- Saves every beat
- 2% Yield

- 20% yield

- 64% yield

- 78% yield

Diagnostic choice should be based on frequency of symptoms and nature of syncope events.
MOBILE CARDIAC TELEMETRY
IDEAL FOR PATIENTS EXPERIENCING
FREQUENT SYMPTOMS THAT
REQUIRE SHORT-TERM MONITORING
THE SEEQ™ MCT SYSTEM

SEEQ™ WEARABLE SENSOR
Easy to apply, slim-profile sensor worn discretely under shirt or blouse.

SEEQ™ TRANSMITTER
Transmits data to Medtronic Monitoring Center 24/7.

MEDTRONIC MONITORING CENTER
Trained cardiographic technicians review ECG data and flag notable events.

PHYSICIAN ACCESS TO CLINICAL REPORTS
Clear and concise reports available online 24/7.

98% of patients achieve proper application.

90% patient compliance throughout duration of monitoring

64% detection rate of clinically relevant arrhythmias

5.8 Days mean time to initial detection of clinically relevant arrhythmias
SYSTEM OVERVIEW

- Wire free
- Water resistant
- Automatic Activation
  - Turns on automatically
- Auto Capture and Patient Trigger
- No battery changes required
  - 30 days of monitoring
SEEQ™ MCT Transmitter

- Relays sensor data automatically via cellular signals to Medtronic Monitoring Center
- Rechargeable from standard electrical outlet
- Compact enough to tuck in purse or pocket
- Battery life of up to 12 hours
- Can send sensor data successfully to transmitter up to 30 feet away
SYSTEM OVERVIEW
DATA COLLECTION

Recording and Saving EVERY HEARTBEAT

Detection: Patient Activated OR Auto Trigger

Capture: 45 Second Image 15s. Pre 30s. Post

Transmitted To Medtronic Monitoring Center
The Medtronic Monitoring Center is a Medicare Certified Independent Diagnostic Testing Facility (IDTF) with two locations in Bala Cynwyd, PA and San Francisco, CA. TFs must meet a set of Performance Standards to obtain and maintain Medicare billing privileges — 42 C.F.R. section 410.33(g).

Center is staffed with Certified Cardiographic Technicians (cci-online.org).

Medical Director oversight is provided by a Cardiac Electrophysiologist.

24/7/365 Hours of Operation
SELECTABLE REPORTABLE AND NOTIFIABLE CRITERIA

**SEEQ™ TRIGGER CRITERIA**
- Auto and Patient Triggers determine when ECGs are transmitted.
- ECGs may contain both abnormal or normal rhythms.

**REPORTABLE CRITERIA**
- Mostly a subset of the SEEQ trigger criteria.
- Determine which ECGs are included in Clinical Reports by the CMC.

**NOTIFICATION**
- A subset of the Reportable Criteria.
- Determine when MDs also receive a Notification Report.

**Automatic:**
- Rate ≥ 130 bpm
- Rate ≤ 40 bpm
- Pause ≥ 3 sec
- Atrial Fibrillation VTach/Vfib
- Every 24 hrs, when no other Triggers

**Patient-Triggered:**
- Driven by use of the Patient Trigger Button on the Wearable Sensor
ACTIONABLE REPORTS

NOTIFICATION REPORT*

- Full Name: Patient 1
- Birthdate: 01/01/1990
- Gender: Male
- Phone: 1-800-800-0000
- Address: 123 Main St, Anytown, USA

PHYSICIAN INFORMATION
- Name: Doctor Name
- Phone: 1-800-800-0000
- City, State: Anytown, USA

PRESCRIPTION SUMMARY
- System: SEEQ
- Prescribed: 15 mg/kg
- Start Date: 01/01/2020
- Physician: MD Name

PHYSICIAN INTERPRETATION

SIGNATURE: 

DATE:

Sent within 4 Hours
Call Made to Office
# REVEAL™ INSERTABLE CARDIAC MONITOR
## LEADING INNOVATION FOR MORE THAN 20 YEARS

<table>
<thead>
<tr>
<th>Year</th>
<th>Model</th>
<th>Features</th>
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| 1998 | Reveal | - World’s first ICM  
- 14-month battery |
| 2000 | Reveal Plus | - World’s second ICM  
- 14-month battery  
- MR Conditional |
| 2007 | Reveal DX | - 3-year battery  
- Added to the Medtronic CareLink™ Network  
- MR Conditional |
| 2009 | Reveal XT | - 3-year battery  
- AF detection algorithm  
- Cardiac Compass™ diagnostics |
| 2011 | FullView Software | - Improved data viewing and collection  
- Improved noise discrimination  
- Improved AF detection |
| 2014 | Reveal LINQ™ | - World’s smallest ICM  
- Simplified insertion procedure  
- Improved AF detection  
- Simplified reporting and patient management |
| 2017 | TruRhythm™ Detection  
inside the Reveal LINQ ICM | - World’s most accurate ICM  
- New smart filtering & self-learning detection algorithms  
- Improved reporting |
LINQ IMPLANTABLE LOOP RECORDER
REVOLUTIONIZING CARDIAC MONITORING

The world’s smallest, most accurate ICM

- One-third the size of a AAA battery (1.2 cc)
- Minimally invasive, simplified insertion procedure
- Up to a 3-year longevity for long-term monitoring
- MR Conditional at 1.5 and 3.0 Tesla
THE REVEAL LINQ ADVANTAGE
AN ADVANCED MONITORING SOLUTION

SOLUTION ENABLERS

Insertion Tools
Minimally invasive procedure

Patient Assistant
One-button symptom marking

Reveal LINQ™ ICM
MyCareLink™ Patient Monitor
CareLink™ Network and Reports
ECG data storage: 59 minutes total
Patient-activated: up to 30 minutes

4 episodes @ 7.5 minutes each
- 6.5 min prior
- Patient-activated

3 episodes @ 10 minutes each
- 9 min prior
- Patient-activated

2 episodes @ 15 minutes each
- 14 min prior
- Patient-activated
ECG data storage: 59 minutes total
Automatically detected: 27 minutes

Programmable Detection:
Bradycardia – rates 30 – 40 bpm
Pause 3-4.5 sec
Tachycardia – rates based on patient’s age
INITIAL INTERROGATION AND MANUAL UPLOAD

After the CareLink Network receives the initial manual transmission, the patient’s transmissions will happen automatically. The patient will only need to interact with the monitor when instructed by the clinic to send a manual transmission.

The daily wireless audit occurs automatically:

• It is without any interaction between the monitor and the patient
• It is silent – the monitor screen remains dark in the “sleep” state, and no audio tones sound
• Keep monitor 6.5 feet from patient, plugged in at all times

All patient and clinical data are fictitious and for demonstration purposes only.
MYCARELINK – BEDSIDE MONITOR
SIMPLIFIED MONITORING
THE CARELINK NETWORK

Clinically actionable reports
Simple and clear reporting that provides the information you need to take action

Event Reports
Delivered based on clinician-ordered criteria

Summary Reports
Delivered every 30 days

Full Report
Delivered when you request manual transmission

Clinical and patient data are fictitious and for demonstration purposes only.
MINIMALLY INVASIVE WITH SIMPLIFIED INSERTION PROCEDURE

The Reveal LINQ ICM comes pre-loaded in the insertion tool.

< 1 cm incision provides precision and improved cosmesis.
REVEAL LINQ ICM INSERTION LOCATION

**Best location:** 45 degrees to sternum over 4th intercostal space, 2 cm from left edge of sternum.
LINQ IMPLANT

- https://youtu.be/fIFbMMU0Mdg
On his way to a soccer game, 22-year-old Scott suddenly began wobbling. His head started throbbing. What he thought was dehydration turned out to be much worse. The college student had suffered a stroke. Surgeons removed a blood clot in his brain, but a looming question remained: What caused the stroke in this seemingly healthy young man?

Scott’s doctors suspected it was the result of atrial fibrillation (AF). So Scott’s doctors turned to the Reveal LINQ ICM, which, within a few months, confirmed he had AF.

The diagnosis not only gave Scott’s doctors the information they needed to prescribe stroke-preventive blood thinners; it gave Scott the peace of mind to live life fully again.
NEW ONSET AF
DIAGNOSIS IN CRYPTOGENIC STROKE
THE REVEAL LINQ ADVANTAGE
SYNCOPE PATIENT IMPACT

William’s story

Reveal LINQ ICM used to discover Slow Heart Rhythms

The first time William fainted was just after he stood up to get a second cup of coffee. He was unconscious for 30 seconds while his wife feared he was dead. Another time while out for dinner, without warning his head fell forward and he lost consciousness. Over the years, William experienced an ambulance trip, multiple visits to the hospital, and appointments with various physician specialties. Multiple tests showed nothing.

Years went by without incident until he was on vacation in Paris. As he walked along a cobblestone street with his family, William collapsed. His face slammed into the cobblestone curb causing serious injury.

Back in the US, his doctor recommended the Reveal LINQ ICM. The device was inserted in February, 2016. The following August, an episode of bradycardia and heart block was detected while he slept.

Today, following implantation of a pacemaker, William is back to enjoying life. He works out multiple times a week and enjoys traveling with his family, playing basketball, tennis, and golf.
DIAGNOSIS MADE
REFERENCES


8 Engel, et al. Estimation of patient compliance in application of adherent mobile cardiac telemetry device. 33rd Annual International Conference of the IEEE EMBS, Boston, Massachusetts USA, August 30-September 3, 2011.