Messaging Cardiovascular Implantable Electronic Device (CIED) Remote Monitoring Data to Patients

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Study Sponsored by:
St. Jude Medical

PARKVIEW MIRRO CENTER
FOR RESEARCH AND INNOVATION
Cardiovascular Implantable Electronic Devices (CIED)

Find ways to involve patients with CIED in their health care by providing them with their device information.
CIED Data > Patient Portal to EHR (MyChart®)

**HOW REMOTE MONITORING WORKS**

1. **SCHEDULE**
   Clinic schedules dates for the patient to send information from their device to the clinic.

2. **SEND**
   Device information is sent automatically (for wireless ICDs) or manually by the patient (for pacemakers).

3. **TRANSMIT**
   Device information travels from the remote monitor to the clinic.

4. **REVIEW**
   The clinic reviews the device information on a secure website.

**PHR DASHBOARD**
Present up-to-date device data in patient’s MyChart.
Example of ICD Patient Notification Summary: 
*hundreds of data points*
Study Groups and Characteristics

N = 191

Group A
- N = 73
- Patient Notification Summary via MyChart®

Group B
- N = 71
- Patient Notification Summary via postal mail

Group C
- N = 47
- Standard of Care only

Group C had significantly:
- Lower
  - Level of Education (p = 0.004)
  - Income (p = 0.0006)
  - Computer Skills (p < 0.0001)
- Higher level of comorbidities
  - Heart Failure (p = 0.0015)
  - Diabetes (p = 0.0001)
  - Chronic Lung Dz (p = 0.0033)
  - Ischemic Heart Dz (p = 0.0081)
  - History of CABG (p = 0.0024).
Patient Activation Measure (PAM): Baseline, 3-, 6-months