## Improved technology highlights the shortcomings of conventional tools.

#### Disadvantages of conventional Holter monitoring, event recorders, and wired telemetry

- Arrhythmic events may be missed.
- 12 electrode leads interfere with patient's activities of daily living.
- Holter monitoring duration is only 24 to 48 hours.
- Event recorders offer only intermittent tracking, because patients must activate device at time of symptom onset.
- Data evaluation is retrospective, not real time.

#### What about patch monitoring?

- Data evaluation is only retrospective.
- High consumer cost due to non-reusability.
- Report is unavailable until days after device submission.



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#### **TeleSense Technical Specifications**

#### **Monitor Physical Characteristics**

Dimensions: 3.7" x 2.3" x 0.7" (9.4 x 5.8 x 1.8 cm)

Weight: 4 oz (113 g)

#### **Technical Characteristics**

Transmission mode: 802.11 Wifi

RF transmission range: 328' (100 m) open space Recording period: 3 channels, up to 30 days

#### **Electrical Characteristics**

Number of electrodes: 3

Input impedance: > 20 Mohm

Frequency response: > 0.05 - 100 Hz

Pacer ID: Yes, 2 mV to 700 mV, 100 usec to 2 msec

Dynamic range: ± 5 mV DC offset: ± 400 mV

CMMR: 80 dB @ 60 Hz minimum

#### **Environmental Characteristics**

Operating temperature: 50°F to 104°F (10°C to 40°C)
Transport and storage temperature: -4°F to 149°F
(-20°C to 65°C)

Relative humidity: 25% to 95%, nc

Water resistance: IP22

#### **Recording Resolution**

Samples per second: 128

Sample resolution: 8, 10, 12 bits

#### **Battery**

Battery type: Rechargeable 3.7 V lithium ion Battery life: Up to 50 hours before recharge

Reverse battery protection: Yes

Low-battery signal: Yes On/off indicator: Yes

CMMR=common-mode rejection ratio

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### Improve patient care and increase your reimbursement with simple, continuous heart monitoring.

Better rhythm detection¹

LEADS

- 24/7 expert attention to incoming data
- Patient-friendly device
- Significantly reduced capital outlay<sup>a</sup>
- <sup>a</sup> Providers bill both professional and technical components. Details available on request.



SCOTTCARE"



# TeleSense empowers patients and providers and can help reduce hospitalizations.

Cardiac arrhythmias can lead to significant morbidity and mortality (eg, stroke, cardiomyopathy, heart failure).<sup>2</sup> *Timely diagnosis and treatment are essential*.

Atial fibrillation (AFib), the most common type of arrhythmia, can be asymptomatic. An estimated **2.7 to 6.1 million people in the US have AFib,** and this number is expected to rise.<sup>3</sup> AFib:

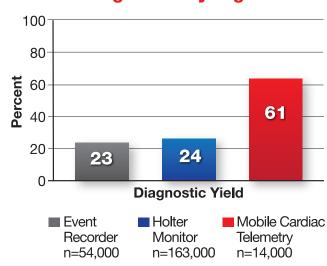
- Is vastly under-diagnosed.<sup>2</sup>
- Is often first diagnosed in the setting of acute ischemic stroke.<sup>2</sup>
- Increases stroke risk by four to five times<sup>3</sup>
- Causes >750,000 hospitalizations annually<sup>3</sup>
- Contributes to an estimated 130,000 deaths each year.<sup>3</sup>

## Diagnostic yield is significantly higher with mobile cardiac telemetry (MCT).<sup>1</sup>

In a retrospective analysis spanning 57 months of claims data from January 2007 to September 2011 (N=200,000 patients), the diagnostic yield of patients monitored with MCT was 61%—significantly higher than for the Event recorder (23%) or the Holter monitor (24%).<sup>1</sup>

Use of MCT versus Holter and Event devices also produced significant hospital cost savings.<sup>1</sup>

### MCT Diagnostic Yield Significantly Higher<sup>1</sup>



#### References

- Tsang J-P, Mohan S. Benefits of monitoring patients with mobile cardiac telemetry (MCT) compared with the Event or Holter monitors. Med Devices (Auckl) 2014;7:1-5.
- Fung E, Jarvelin M-R, Doshi RN, et al. Electrocardiographic patch devices and contemporary wireless cardiac monitoring. Front Physiol 2015;6(149).
- Centers for Disease Control. Atrial Fibrillation Fact Sheet. 2015.
   Accessed November 7, 2016 at http://www.cdc.gov/dhdsp/data\_statistics/fact\_sheets/fs\_atrial\_fibrillation.htm

## Additional advantages of TeleSense Mobile Cardiac Telemetry

- Continuous measurement of heart rate and rhythm, up to 30 days
- Sensitive detection of infrequent and asymptomatic arrhythmias not recorded by other devices
- Instantaneous transmission to an expert monitoring center
- Immediate report of urgent event sent to physician
- Secure cloud-based system allows limitless memory
- Timely diagnosis and treatment

### Everything a Holter can do . . . only better.

- Detection of dysrhythmias; atrial fibrillation; cause of cryptogenic stroke; status following ablation procedure; evaluation of pre-syncope, syncope, palpitations, or dizziness
- Diagnosis of previously unrecognized aberrations
- Evaluation of anti-arrhythmic drug therapy

#### You receive:

- Assessment and translation of data
- Report with graphs and trends
- Signature of certified cardiologist (optional)
- Integration with electronic health records
- Administrative and clinical queries at your convenience