

**APPROPRIATE ILR PROGRAMMING
IMPROVES DETECTION AND REDUCES
INAPPROPRIATE ALERTS.**

Reduction in home monitoring workload for physiologists
made possible

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BIOMONITOR 1 AND 2

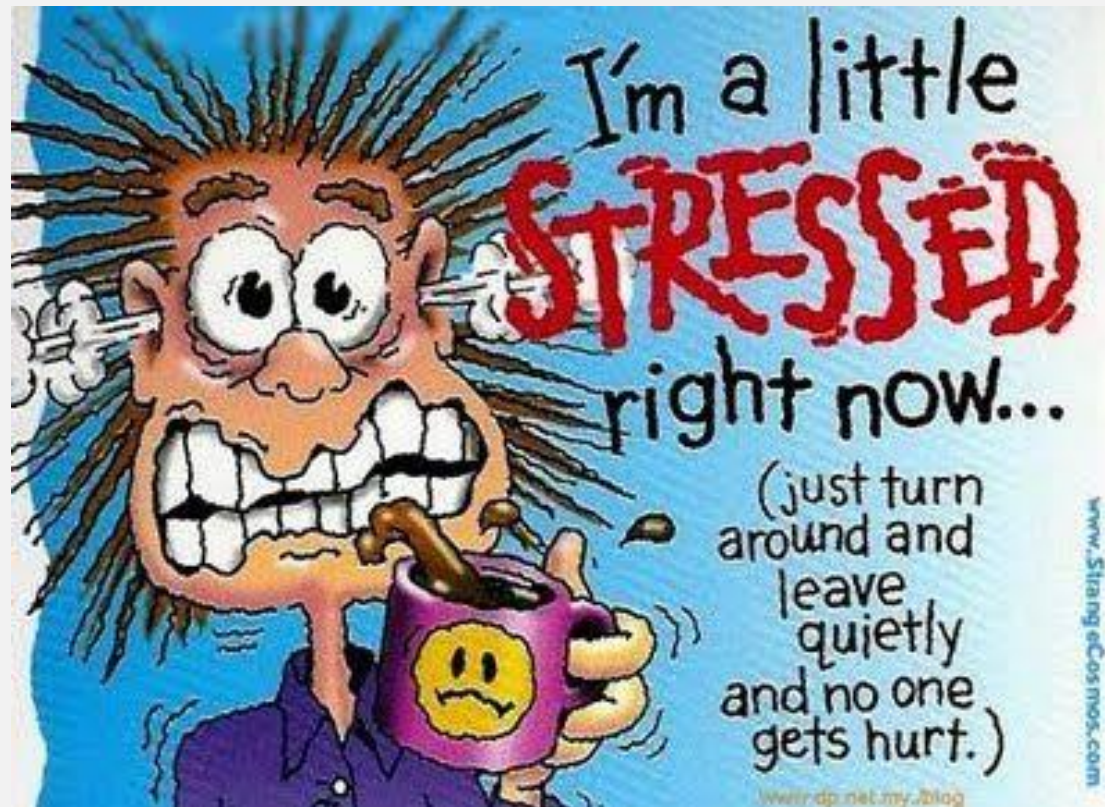


THE NEED FOR SUCH AN AUDIT

- Number of implants of ILRs
- – UP
- Number of substantive physiologists in the workplace
- – DOWN!
- Individual Workload
- -UP

COHORT OF PATIENTS.....

- <https://goo.gl/images/jqlexj>



NUMBER OF HOME MONITORING ALERTS

- Overall an increase of alerts from ILR's

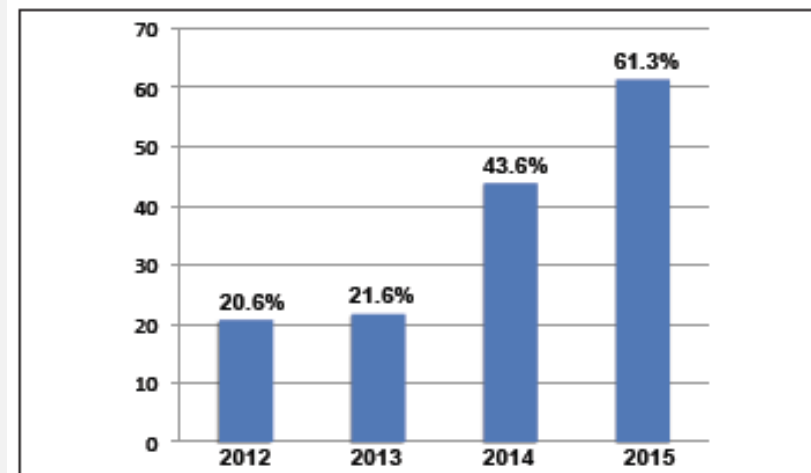


Figure 4: Percentage of remote transmissions from an implantable loop recorder (ILR) as a percentage of our total cardiac implantable electronic device (CIED) remote transmissions. Concomitant with the release of the Reveal LINQ™ ILR (Medtronic Inc.) in early 2014, there has been a marked increase in remote transmissions emanating from these devices. As a result, 61% of our remote transmissions are currently generated from our patients with an ILR.

- Graph: EP lab digest , May 2016, Seetal te al.

METHOD

- Biotronik Loop recorder
- 99 patients
- Counted, reviewed and categorised all the alerts
- **21,000**
- 10hrs per patient

REASONS FOR ALERTS: AF

- 40%
- 73% of all AF alerts were false

REASONS FOR ALERTS: BRADYCARDIA

- 30%
- 78% were true.....at 40bpm

REASON FOR ALERTS: HVR

- 20%
- 65% were false

REASONS FOR ALERTS: AND THE REST

- 10%
- SRD – sudden rate drop
- Pt triggered
- Periodic EGM
- Asystole

OUT OF THE BOX SETTINGS

- AF = Medium
- Bradycardia = 40bpm for 5 beats
- HVR – 180bpm for 10 beats
- SRD – medium
- Asystole – 3 secs

COMPARISON

OUT OF THE BOX

- AF – medium
- Bradycardia- 40bpm for 5 beats
- HVR – 180bpm for 10 beats
- SRD – medium
- Asystole – 3 sec

OPTIMISED SETTINGS

- AF – low
- Bradycardia – 30bpm for 5 beats
- HVR – 180bpm for 16 beats
- SRD – 40%
- Asystole – 4 secs

THE RESULTS

- Total number of alerts 3 months PRE changes:
- 2134
- Total number of alerts 3 months POST changes:
- 733
- 100% of patients saw a reduction of the number of alerts

OUTCOME

Biotronik Biomonitor Settings

