



Welcoming Covidien to Medtronic

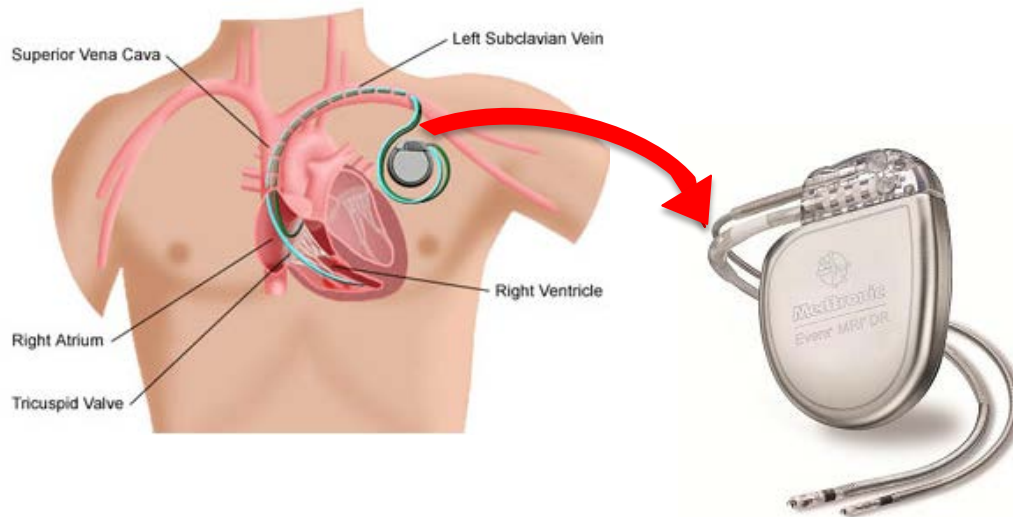
From Cure to Prevention

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Remote Patient Monitoring (RPM) ; Paradigm shift from cure to prevention

- RPM technologies enable the monitoring of patients outside standard clinical environments
 - Early detecting physiological deterioration
 - Decreasing hospital visits including Emergency Room
 - Assisting chronic disease management
 - Supporting independent aging



Reduce healthcare utilization



Up to **1 in 4** CRT-D/ICD device patients may visit the Emergency Room¹

Baseline

35%² potential reduction in ER visits

Remote Monitoring



Up to **1 in 2** CRT-D/ICD device patients may require a hospitalization¹

20%³ potential reduction in all-cause 3yr rehospitalization

18%¹ potential reduction in hospital length of stay

¹ Crossley GH, et al. *J Am Coll Cardiol*. 2011;57:1181-1189

² Landolina M, et al. *Circulation*. 2012;125:2985-2992

³ Akar J, et al. LB03-03 Presented at HRS 2014

Simplifies routine follow-up



Routine in-office visits may be replaced by remote visits resulting in **45% fewer**¹ in-office visits

58% less time² for remote vs. in-office follow-up

Remote monitoring **improves patient compliance**¹ to follow-up

¹Varma N. *Am Heart J.* 2007;154:1029-1034

²Cronin EM, et al. *Heart Rhythm.* 2012;9:1947-1951

Who Benefits from Remote Monitoring?

Patient

- Improved **quality of life**¹
- Benefit from **earlier detection** of issues and spend **less time** at the hospital²
- ICD and CRT patients may see an **improved survival rate** by 56% and 45% respectively³

Clinic

- Increased **efficiency** – spend 58% less time per patient^{4,5}
- **Diagnose** clinically actionable events faster^{2,6}
- Provide a 3-day **warning of inappropriate shocks** with LIA⁷

Hospital

- Decreased LOS – 18% **shorter hospital stay** with reduced estimated cost of \$581 per admission^{2,8}
- **Fewer ER visits** – HF patients are 35% less likely to visit an ER⁶
- Decreased adverse events – 52% **fewer inappropriate ICD shocks**⁹ and 75% **fewer strokes**¹⁰

¹ Ricci R, et al. *Europace*. 2012;14:1661-1665

² Crossley GH, et al. *J Am Coll Cardiol*. 2011;57:1181-1189

³ Saxon L, et al. *Circulation*. 2010;122:2359-2367

⁴ Cronin EM, et al. *Heart Rhythm*. 2012;9:1947-1951

⁵ Varma N, et al. *Circulation*. 2010;122:325-332

⁶ Crossley GH, et al. *J Am Coll Cardiol*. 2009;54:2012-2019

⁷ Swerdlow CD, et al. *Circulation*. 2010;122:1449-1455

⁸ Rizzo J, et al. Poster presented at AHA QCOR, 2013:201400170ENp2

⁹ Guedon-Moreau L, et al. *Eur Heart J*. 2013;34:605-614

¹⁰ Mabo P, et al. *Eur Heart J*. 2012;33:1105-1111



RPM is Standard of Care Globally



EMBARGOED FOR RELEASE UNTIL WEDNESDAY, MAY 13, 2015 AT 12:00 P.M. EDT

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NEW EXPERT CONSENSUS STATEMENT BY HEART RHYTHM SOCIETY RECOMMENDS REMOTE MONITORING BECOME STANDARD OF CARE

At Heart Rhythm 2015, an international panel of experts provides specific ways remote monitoring can efficiently be implemented by the patient and their healthcare provider

BOSTON, May 13, 2015 – A new expert consensus statement by **the Heart Rhythm Society (HRS)** recommends remote monitoring (RM) become standard of care for patients with **cardiovascular implantable electronic devices (CIEDs)**. The *HRS Expert Consensus Statement on Remote Interrogation and Monitoring for Cardiovascular Electronic Implantable Devices* was written by an international group of experts and published online today in *HeartRhythm Journal*, the official journal of HRS. This new approach presents a new paradigm for managing patients with CIEDs and will be presented at Heart Rhythm 2015, the Heart Rhythm Society's 36th Annual Scientific Sessions.

Drivers and Restraints

Drivers	Restraints
<ul style="list-style-type: none">• Rising Healthcare Costs• Shifting Demographics and Growing Incidence of Chronic Diseases• RPM and At-home Ageing as New Care-delivery Models	<ul style="list-style-type: none">• Lack of Legal Basis and Government Support• Lack of Reimbursement Schemes• Technical complexity• Privacy and Security Concerns• Lack of Consumer Awareness

Conclusion

- Remote Patient Monitoring becomes 'Standards of Care' globally
- Clinical and economical benefits are proven
- Korea has significant potential to lead this new service globally
- Legislation support is critical to make this service available to Korean population

Thank You for Your Attention