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Page: 1/1

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BIOTRONIK Home Monitoring

BIOTRONIK Home Monitoring[®] is a remote monitoring system available with BIOTRONIK pacemakers, implantable defibrillators (ICDs), cardiac resynchronization therapy (CRT) devices and heart monitors. Physicians have implanted more than a million Home Monitoring devices in over 65 countries since BIOTRONIK launched the world's first remote monitoring system in 2000. Five thousand new patients opt for Home Monitoring every month.

How does Home Monitoring work?

BIOTRONIK Home Monitoring enables physicians to receive patient cardiovascular data from anywhere in the world.

Important clinical and technical data are transmitted daily from the implant to the CardioMessenger, an external patient device. The CardioMessenger transmits the data to the BIOTRONIK Service Center via GSM cellular technology, where it is processed and forwarded to physicians via a secure website. Physicians analyze the data and respond accordingly. In addition to daily transmissions, urgent patient information is sent to physicians automatically by text message, email or fax.

Observed Benefits for patients

- Continued, fully automated cardiac status monitoring
- Improved safety due to the early detection of device- and patient-related events^{1,2,3}
- Reduced incidence of atrial fibrillation-related stroke and hospitalization²
- Reduced mortality for heart failure patients by over 50 percent³ and for all ICD patients by 38 percent⁴
- Reduced risk of unnecessary ICD shocks and hospitalization^{5,6}

References:

¹ Varma N et al. *Circulation*. 2010, 122(4).

² Mabo P et al. *Eur Heart J*. 2012, 33(9).

³ Hindricks G et al. *Lancet*. 2014, 384(9943).

⁴ Hindricks G et al. *European Heart Journal*. 2017, May 10. doi:<https://doi.org/10.1093/eurheartj/ehx015>

⁵ Guedon-Moreau L et al. *J Cardiovasc Electrophysiol*. 2014, 25(7).

⁶ Burri H et al. *Europace*. 2013, 15(11).