Dutch introduction Philips ePatch

PUBLISHED SEP 7, 2023
BY PHILIPS

Martini Hospital, an innovative center of clinical excellence with a specialized cardiac arrhythmia center in Groningen, the Netherlands, recently implemented a newly designed service for continuous remote cardiac monitoring. The first service of its kind in the Netherlands, Philips' user-friendly The new solution empowers Martini Hospital's cardiology and neurology teams with an end-to-end solution that enhances their ability to detect and diagnose atrial fibrillation – a common and potentially life-threatening cardiac arrhythmia [2]. The service has already proven invaluable to the hospital's cardiology team, enabling them to detect arrhythmias in multiple patients that would have gone unnoticed using traditional testing methods. Atrial fibrillation is the world's most common cardiac arrhythmia. It significantly increases the risk of stroke, dementia, and heart failure, but frequently goes undetected because it often lacks noticeable symptoms and may only occur infrequently. To find the cause, patients are often asked to visit their general practitioner or cardiologist, who typically performs an electrocardiogram (ECG). ePatch couples with the company's AI-powered Cardiologs analytics platform to replace conventional, more labor-intensive Holter monitor devices that can be cumbersome for patients to wear, labor-intensive to manage, and only provide cardiac monitoring data over a limited timeframe.

> This innovative new service marks a significant leap forward in detecting and managing cardiac arrhythmias," said Dr. Robert Tieleman, cardiologist at the Martini Hospital. "With its advanced technology and user-friendly, end-to-end design, this new service enhances our ability to monitor and support heart and stroke patients. Especially, the prolonged monitoring period and the cleaner registrations of data during exercise improves the diagnostic yield which can have important consequences for the individual treatment of the patient and may eventually improve outcomes and quality of life.

Martini Hospital, an innovative center of clinical excellence with a specialized cardiac arrhythmia center in Groningen, the Netherlands, recently implemented a newly designed service for continuous remote

cardiac monitoring. The first service of its kind in the Netherlands, Philips' user-friendly

The new solution empowers Martini Hospital's cardiology and neurology teams with an end-to-end solution that enhances their ability to detect and diagnose atrial fibrillation – a common and potentially life-threatening cardiac arrhythmia [2]. The service has already proven invaluable to the hospital's cardiology team, enabling them to detect arrhythmias in multiple patients that would have gone unnoticed using traditional testing methods.

Atrial fibrillation is the world's most common cardiac arrhythmia. It significantly increases the risk of stroke, dementia, and heart failure, but frequently goes undetected because it often lacks noticeable symptoms and may only occur infrequently. To find the cause, patients are often asked to visit their general practitioner or cardiologist, who typically performs an electrocardiogram (ECG).

Greater patient comfort and enhanced diagnostic confidence The new ePatch-based service allows for a longer period of continuous recording and prolonged insights into a patient's health condition. The ePatch comes as a 'ready-to-go' unit. A cardiologist or nurse applies the device to the patient's sternum, located in the center of the chest, during a visit to the doctor's office. It is comfortable and splash-proof and can even be worn in a shower, allowing patients to maintain their daily routines, including sports activities. The device's sensor continuously records and stores the patient's heart activity day and night for up to 14 days. The recorded data is then retrieved and analyzed by AI-based software that searches for irregularities that indicate heart arrhythmias and makes an automatically generated concept report with findings for the clinical teams to evaluate further. Previously, patients had to use conventional Holter monitors that required up to seven to ten ECG electrodes to be applied to the patient's chest, linked to a bulky control unit worn on a belt or necklace. These bulkier Holter monitors typically limit patients' ability to go about their normal daily activities, which could impact diagnostic yield. With traditional Holter monitors, the application process, data analysis and reporting, and cleaning process afterward can be labor-intensive and inefficient for clinical staff. Additionally, a traditional Holter monitor is also relatively costly, which could often limit their availability, causing patients to wait longer for their tests, and they typically only allow 72 hours of continuous wearing and recording.

> With the longer recording capability of the ePatch, we have a higher chance of detecting an arrhythmia," said Alexandra Bevers, heart function lab technician and Holter analyst at the Martini Hospital. "Because the patch is a single device that adheres well to the patient's chest, compared to our traditional Holter with 7 leads, this results in minimal interference and a more reliable recording, allowing ECG analysts like me to evaluate the data quite quickly and provide the cardiologists with the information needed to support a diagnosis.

56-year-old stroke patient exemplifies the program's impact Marco:

> After my stroke, I had been monitored in the hospital for 24 hours twice before. Nothing was found during those times. I am relieved that something has now been discovered that the clinical team believes has been causing my problems and can be prevented with the right medication.

Beyond enhancing patient experiences and diagnoses, the hospital's cardiology department aims to significantly alleviate the growing workload on its staff through this program while also driving cost efficiencies.

Marco, a 56-year-old patient recovering from a stroke, exemplifies the program's impact. His Philips ePatch identified atrial fibrillation on the fifth day of his monitoring program, shedding important light on the potential cause of his initial stroke. Utilizing the insights provided by the ePatch, his clinical team has been able to provide Marco with a proactive personalized treatment to help avert future heart or stroke problems.

Greater patient comfort and enhanced diagnostic confidence

The new ePatch-based service allows for a longer period of continuous recording and prolonged insights into a patient's health condition. The ePatch comes as a 'ready-to-go' unit. A cardiologist or nurse applies the device to the patient's sternum, located in the center of the chest, during a visit to the doctor's office. It is comfortable and splash-proof and can even be worn in a shower, allowing patients to maintain their daily routines, including sports activities. The device's sensor continuously records and stores the patient's heart activity day and night for up to 14 days. The recorded data is then retrieved and analyzed by AI-based software that searches for irregularities that

indicate heart arrhythmias and makes an automatically generated concept report with findings for the clinical teams to evaluate further.

Previously, patients had to use conventional Holter monitors that required up to seven to ten ECG electrodes to be applied to the patient's chest, linked to a bulky control unit worn on a belt or necklace. These bulkier Holter monitors typically limit patients' ability to go about their normal daily activities, which could impact diagnostic yield. With traditional Holter monitors, the application process, data analysis and reporting, and cleaning process afterward can be labor-intensive and inefficient for clinical staff. Additionally, a traditional Holter monitor is also relatively costly, which could often limit their availability, causing patients to wait longer for their tests, and they typically only allow 72 hours of continuous wearing and recording.

> With the longer recording capability of the ePatch, we have a higher chance of detecting an arrhythmia," said Alexandra Bevers, heart function lab technician and Holter analyst at the Martini Hospital. "Because the patch is a single device that adheres well to the patient's chest, compared to our traditional Holter with 7 leads, this results in minimal interference and a more reliable recording, allowing ECG analysts like me to evaluate the data quite quickly and provide the cardiologists with the information needed to support a diagnosis.

56-year-old stroke patient exemplifies the program's impact

Marco:

> After my stroke, I had been monitored in the hospital for 24 hours twice before. Nothing was found during those times. I am relieved that something has now been discovered that the clinical team believes has been causing my problems and can be prevented with the right medication.

Beyond enhancing patient experiences and diagnoses, the hospital's cardiology department aims to significantly alleviate the growing workload on its staff through this program while also driving cost efficiencies.

Building on years of success in the U.S. The introduction of this initiative in the Netherlands is built on years of successful experience in the United States, where yearly more than 1.2 million patients are

being monitored using comparable Philips wearable e-patches and remote telemetry programs. These programs have To learn more about Philips' broad portfolio of ECG solutions, visit the [1] demonstrated heightened atrial fibrillation detection and major cost savings per patient. Gobio website. New post-cryptogenic stroke remote telemetry study demonstrates increased atrial fibrillation detection and USD 4 million in cost savings using initial Philips BioTel Heart MCOT monitoring

Building on years of success in the U.S.

The introduction of this initiative in the Netherlands is built on years of successful experience in the United States, where yearly more than 1.2 million patients are being monitored using comparable Philips wearable e-patches and remote telemetry programs. These programs have

To learn more about Philips' broad portfolio of ECG solutions, visit the

Press release distributed by Wire Association on behalf of Philips, on Sep 7, 2023. For more information subscribe and follow us.

Media Assets

Embedded Media

Visit the online press release to interact with the embedded media.

https://wireassociation.eu/newsroom/philips/releases/en/dutch-introduction-philips-epatch-1409

Philips

Newsroom: https://wireassociation.eu/newsroom/philips
Website: https://www.philips.com/global
Primary Email: press@philips.com

Social Media

Twitter - https://twitter.com/PhilipsPR
Linkedin - https://www.linkedin.com/company/philips
Youtube - https://www.youtube.com/user/philips