

MedicPen turns correct medication

into a holistic concept

- Medimi® provides the right dose at the right time



A photograph of an elderly couple walking away from the camera on a sandy beach. The man is on the left, wearing a light blue button-down shirt and khaki pants. The woman is on the right, wearing a light blue long-sleeved shirt and white pants. They are holding hands. In the distance, a black dog is walking on the sand. The background is a bright, hazy sky. Overlaid on the image is a large blue graphic consisting of two overlapping arches. A dark blue circular callout with a white border is positioned on the right side, containing a quote in white text.

"Our vision is to become a world-leading operator in the area of integrated systems for pill medication."

Medimi simplifies patient medication

Our business concept is to develop, manufacture and sell products that make it easier for patients to attend to their medication. Medimi® is based on a patented innovation regarding separate handling of medicines up until the administration of the dose. The products shall be at the forefront of technology and be developed for integration in IT environments.

Our products enable patients to take their medication as prescribed, meaning that they feel better, relatives no longer worry; municipalities, local councils, insurance companies and other agencies all save enormously if they can avoid admissions of patients who have not taken their prescribed medication. An increasing number of people want to be able to follow medication in order to provide better and more qualified care than at present - this is why the Medimi system is particularly timely.



A stylized, handwritten signature in black ink, appearing to read 'Anders Skarman'.

Anders Skarman
CEO, MedicPen AB

"Our strength is being able to localise our solutions to our different customers' needs."



medimi



A lack of medication compliance costs

hugely every year

A lack of compliance is a problem that provides major challenges and costs for society.

WHO states that, in undeveloped countries, only 50 percent of patients with chronic diseases take their medicine in the manner prescribed by the doctor. In the USA, poor compliance causes USD 300 billion in extra costs each year in the health system, 10 percent of all admissions to hospital and 23 percent of all admissions to care homes. Globally, poor compliance causes one million patients to die each year and is a threat to untreated diseases¹.

The Medimi[®] system consists of four main units

- 1 The pill dispenser is available in three product ranges, medimi[®], medimi[®]pro and medimi[®]smart.
- 2 The pill dispenser, available in several sizes.
- 3 Automatic filling unit for the cartridge.
- 4 Remote control, settings and follow-up provides maximum control.

1. Vermeire, E., Hearnshaw, H., Van Royen, P., & Denekens, J. (2001). Patient adherence to treatment: three decades of research. A comprehensive review. Journal of Clinical Pharmacy and Therapeutics, 26(5), 331-342.

Medimi®Pro

Medimi®Pro is equipped with a higher technology content; more advanced software than its predecessor Medimi®.

Medimi®Pro can be connected via GSM/CDMA or USB, is portable and can run on batteries. If you go for GSM/CDMA, it is easy to send an alert to a relative or caregiver if you miss a dose. For bigger customers, MedicPen is available as a communication gateway, the app for Android smartphones can be connected to the USB model and there is also Windows software for managing advanced scheduling.

Medimi®Pro can handle up to four medicines with complex medication schedules and up to 16 doses can be scheduled each day. In addition to the medicines available in the machine, Medimi®Pro can also handle reminders for one medicine not stored in the machine, e.g., ointment, syringes, etc. All events are logged. The unit can be connected via GSM/CDMA or USB, depending on the model. The combination of reminders and the ability to check the medication history has proved to provide considerably greater compliance and better care results.

The system also includes an automated drug handling tool, a desktop machine that fills the pill cartridge automatically in a few seconds. The target groups for a system with an automatic loader are pharmaceutical companies carrying out clinical studies, geriatric and long-term care and care companies. The advantages of an automated drug handling tool are major savings in time and a greater degree of safety.



10% of all admissions to hospital are due to poor compliance with medical treatment, which leads to increased costs for society, unnecessary suffering for the patient and worry for relatives¹.



1. Vermeire, E., Hearnshaw, H., Van Royen, P., & Denekens, J. (2001). Patient adherence to treatment: three decades of research. A comprehensive review. *Journal of Clinical Pharmacy and Therapeutics*, 26(5), 331-342.



"Our event log for compliance is sent back to the healthcare provider and thereby provides the staff the opportunity to give the doctor a powerful and unique tool to ensure the correct medication."

Medimi®Smart

Medimi®Smart has the highest technology content in the entire Medimi range and the most advanced software, both in the product and associated cloud services.

Medimi®Smart is a stationary pill dispenser that can handle up to twelve different medicines with complex medication schedules and up to 16 doses can be scheduled each day. There is also an XL model with space for 16 different medicines. The medicines are stored exactly as in the rest of the Medimi® range in a separate cartridge, but, in this case, each cartridge has room for 28 pills. In addition to the medicines available in the machine, Medimi®Smart can also handle reminders for up to 6 medicines not stored in the machine, e.g., ointment, syringes, etc.

The unit can be connected via a cloud service, GSM, WiFi or Ethernet, depending on the configuration. The combination of reminders and the ability to check the medication history has proved to provide considerably greater compliance and better care results.

Medimi®Smart is intended for integration in large care systems but works absolutely excellently as a standalone unit. Medimi®Smart can send remote alerts via e-mail, SMS and http. When integrated into a large care system, it receives all medication settings from the superior system and there is no local input of schedules, as medicines, times and numbers. The risk of errors is minimised since the medication information comes directly from the care system. Since Medimi®Smart is always connected, it is possible to monitor the operating status of the dispenser. It is possible to detect in good time whether a medicine is running out or whether you have been affected by a power failure.

Communication - Medimi®Smart

Medimi®Smart can send remote alerts via e-mail, SMS and http. When integrated into a large care system, it receives all medication settings from the superior system and there is no local input of schedules, as medicines, times and dose.

Medimi®Smart can communicate with a cloud service, GSM, WiFi or Ethernet, depending on the configuration.



Communication - Medimi®Pro

Communication gateway

The platform is designed for MedicPen's connected products, GSM in Europe and CDMA in the USA. The gateway can manage alarms from multiple Medimi®Pro units and can control what action is taken depending on which Medimi®, controlled via serial number, has sent the alarm, and which type of alarm it is. An alarm can be forwarded as an email or SMS, or both. All alarms are compiled in a database to then be analysed. The communication platform collects all alarms in a clear manner. This means that processing any incoming data is much easier and simpler. The platform is a Java application which works with Apple (OS X), Windows and Linux.

Android app

The app is designed for the Medimi®Pro USB model and can handle multiple Medimi®Pro units. The app allows you to easily add new items or make changes to an existing schedule, in respect of medication type, dosage, etc. The scheduling can then be downloaded to Medimin. The clock can be synced using the app and the log in Medimin can be downloaded and forwarded on as an email, e.g.

using Google Drive. The app is designed for Android smartphones and is connected using an OTG USB cable and can be downloaded for free from Google Play.

Windows app

The app is designed for the Medimi®Pro USB model and can handle multiple Medimi®Pro units. The app allows you to easily add new items or make changes to an existing schedule, in respect of medication type, dosage, etc. The scheduling can then be downloaded to the Medimi. Allows advanced scheduling, such as increasing or decreasing medication, every other day schedules, etc. The app is designed for Windows and connects using a USB cable.

Remote programming (coming in autumn 2016)

App/service for remote programming of Medimi®Pro GSM and CDMA. This app/service allows remote scheduling for new schedules, and corrections to be made to existing ones. Medimin users receive a message when something has been changed, and must confirm in Medimin before the changes are implemented. Logs can also be managed from this app/service.

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MedicPen Aktiebolag (publ) is a Swedish company with patented technical innovation for computerised pill dispensing. We are listed on the stock market as an investment company.

www.medicpen.se