Digistat® for wearables

Remote patient monitoring

Supporting proactive care

Inside and outside of the hospital

Easy to use patient facing applications and user friendly interfaces.

"We have discovered that people are flexible in a crisis; that innovation is possible in a short time, and that nurses have discovered the potential of technology."

Malou Peppelman
Innovation program manager,
Santiz hospitals, Netherlands

Digistat® Wearables supports a more proactive care model using wearable devices to monitor ambulatory not critical isolated patients. Whether hospitalized, in long term care or even at home, patients can remain in the most comfortable environment whilst under surveillance from trained clinical staff.
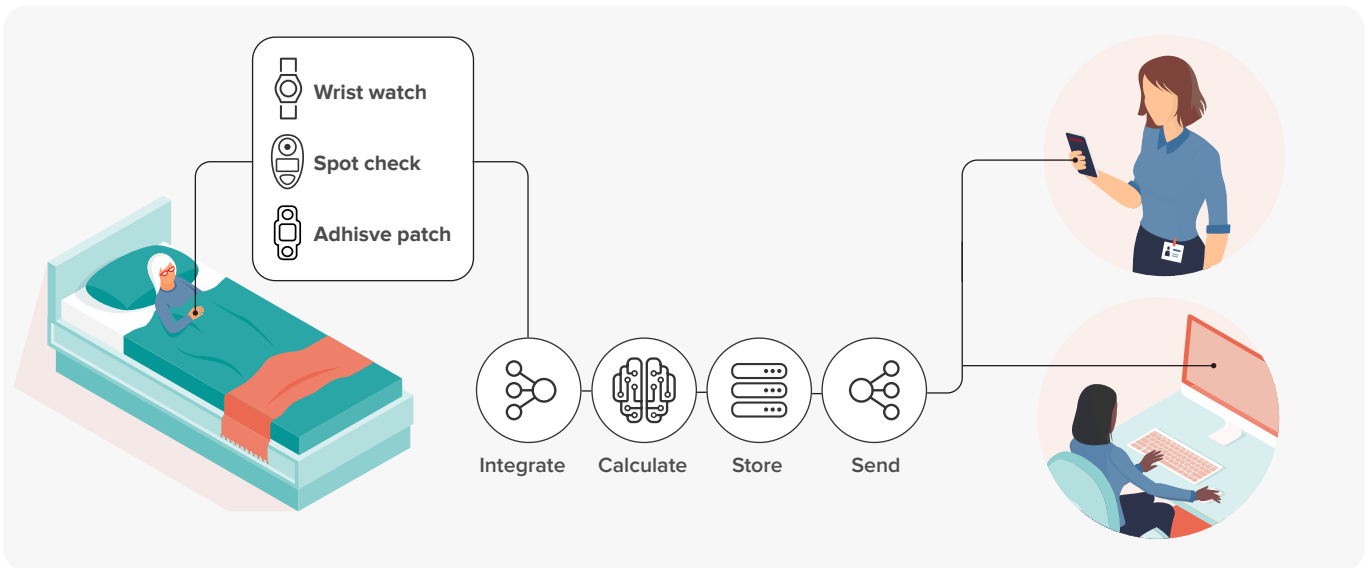
Digistat® Wearables is a solution combining multiple third-party wearable devices with the Digistat Gateway application to ensure comprehensive surveillance of patients' vital parameters by healthcare professionals.

Clinical data can be acquired automatically onto a smartphone which acts as a communication gateway to transmit the parameters directly to specific patient dashboards or sent to the patient's personal health record. Digital collection and presentation of this clinical information increases the visibility of patient conditions and helps doctors and nurses optimize their work safely. With a web-based dashboard clinicians can monitor patients wherever they are and be alerted to anomalies to proactively intervene before patients deteriorate significantly.

There is often a trade off between the ability to monitor patients accurately and the desire to keep them out of hospital as much as possible. The need to fully understand the patient's condition and spot deterioration early can result in many patients spending longer than necessary in hospital connected to expensive equipment. Conversely sending patients home too early without visibility can often result in readmissions and adverse events. The use of wearable remote monitors allows many more patients to be monitored both in hospital and at home picking up deterioration early whilst keeping more patients away from the hospital. This is particularly effective amongst groups such as Covid-19 patients who need to be isolated from other patients

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Proactive care at every level

From sensors to clinical decisions and decisive action

Wrist watch

Spot check

Adhisve patch

Integrate Calculate Store Send

Hospital care

Surveillance of patients who are not normally monitored continuously and increased monitoring capacity in any hospital environment:

- General wards where patients are normally observed only periodically, and deterioration can go undetected for several hours

- Post-operative patients who often require close monitoring for short periods where capacity is limited by the beds with monitoring devices, lack of which can impact surgical waiting lists

- Emergency and urgent care patients whose condition is unknown and may be at risk of rapid deterioration

Digistat for Wearables provides visibility of patient conditions in all of these areas and clinical decision support tools provide tailored alerting to ensure that any detrimental change is flagged to appropriate responders and proactive intervention can be triggered. Applying this solution gives hospitals the tools to help optimise length of stay in hospital, minimise ICU admissions and improve surgical throughput by increasing the continuous monitoring capacity across the whole hospital.

Long term care

Surveillance of long term care residents who normally have little or no clinical observations in the care home setting:

- Residents living with long term health conditions who are prone to episodic deteriorations which can often result in hospitalisation

- Residents who have needed hospital care and are delayed in returning to the care home environment due to the potential for deterioration and lack of clinical visibility outside of the hospital

- Residents suffering from a minor illness requiring closer observation with the potential to deteriorate to a stage requiring hospitalisation

Digistat for Wearables provides visibility of residents vital parameters in all of these situations and with clinical decision support tools can escalate care in accordance with clinical governance to ensure early intervention when needed. Applying this solution can help join up care between care homes, primary care physicians and hospital clinics to ensure residents receive the right level of clinical attention when needed. This can help keep residents from deteriorating to a level requiring hospitalisation as well as helping hospitals discharge residents back to care homes in a timely fashion without losing visibility.

Home care

Surveillance of patients requiring clinical observation over time outside of the hospital environment where traditionally there is no visibility of their condition:

- Patients living with chronic conditions under the care of outpatient clinics requiring regular hospital visits which provide at best sporadic visibility of the condition over time

- Patients undergoing assessments for potential health conditions such as atrial fibrillation or observation of short term conditions such as Covid-19 which require surveillance over time and regular data capture to manage and respond to patient condition

- Patients who have been hospitalised and are in recovery but require close observation for a short period to pick up potential deterioration usually requiring a longer stay in hospital

Digistat for Wearables provides clinicians with the tools to monitor any set of vital parameters for all of these patient groups along with clinical decision support to automate the application of clinical governance rules for escalating care. Applying these solutions allows clinics to minimise outpatient appointments whilst maximising the visibility of patient parameters. This helps patients manage chronic conditions more comfortably and effectively, provides rich data for the assessment of potential conditions and allows hospitals to discharge patients confidently in a timely manner.

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"Digital technology" says Eng. Ciro Verdoliva, General Manager of ASL Napoli 1 centro *"includes not only the computerization of data but also the ability to support doctors and health professionals in the adoption of clinical and organizational decisions. It therefore contributes in a concrete and fundamental way to the digitization of hospital and territorial care structures and to the development of the concept of Healthcare 2.0"*

Ing. Ciro Verdoliva
ASL Napoli 1 General Manager, Italy

Main benefits

For patients
■ Peace of mind knowing their parameters are constantly monitored
■ More freedom than with fixed devices
■ Comfortable, non-invasive monitoring

For biomedical and IT departments
■ Vendor neutral third-party wearable device integration
■ Android™ platform for mobile devices
■ GDPR compliant solution
■ Works on various networks (Wi-Fi, 4G)

For clinicians
■ Simultaneously monitor multiple patients
■ Read current and historic vital signs to aid decision making
■ Customizable rules to detect and flag anomalies or potential deterioration

About Digistat®
Digistat® Suite is the clinical information system developed by Ascom to manage patient data in different areas (e.g. Intensive Care Units, Operating Rooms, etc.).

It is a medical device according to local legislation, depending on modules used. The solution may not be available in a particular country or region as subject to regulatory clearance.

Please check with Ascom UMS or your local Ascom representative, for the availability of the solution in your market and for detailed technical specifications or compatibility restrictions. Specifications are subject to change without notice

Digistat for Wearables is a specific solution of Digistat® Suite.

About Ascom
Ascom is a global solutions provider focused on healthcare ICT and mobile workflow solutions. The vision of Ascom is to close digital information gaps allo-wing for the best possible decisions – anytime and anywhere. Ascom's mission is to provide mission-critical, real-time solutions for highly mobile, ad hoc, and time-sensitive environments. Ascom uses its unique product and solutions portfolio and software architecture capabilities to devise integration and mobilization solutions that provide truly smooth, complete and efficient workflows for healthcare as well as for industry and retail sectors. Ascom is headquartered in Baar (Switzerland), has subsidiaries in 15 countries and employs around 1,200 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.

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