PADSY

Innovations for cardiology
Software

Everything for cardiopulmonary functional diagnostics

We have healthy ideas.

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INNOVATION IN CARDIOLOGY

Our company profile

We are a medium-sized medical technology company founded in 1987.

With the introduction of the first digital ECG recorder, we established ourselves as a provider of high-quality products for cardiopulmonary functional diagnostics. We have developed and marketed innovative medical devices for medical practices and hospitals for over 30 years.

Our PADSY software includes various applications for resting, stress and Holter ECG examinations, ambulatory blood pressure and spirometry.

PADSY makes it possible to organize these applications, control the devices and offer comprehensive analyses to medical staff. Our software is programmed in Java and thus compatible with Windows and macOS operating systems.

The constant will to meet the needs of medical practice and to prepare ourselves quickly and innovatively for new challenges is our strength.

Since 2017, Medset has been part of the successful Zimmer MedizinSysteme GmbH in Neu-Ulm. This collaboration offers a broad basis for exciting developments – both for our customers as well as for each individual colleague.
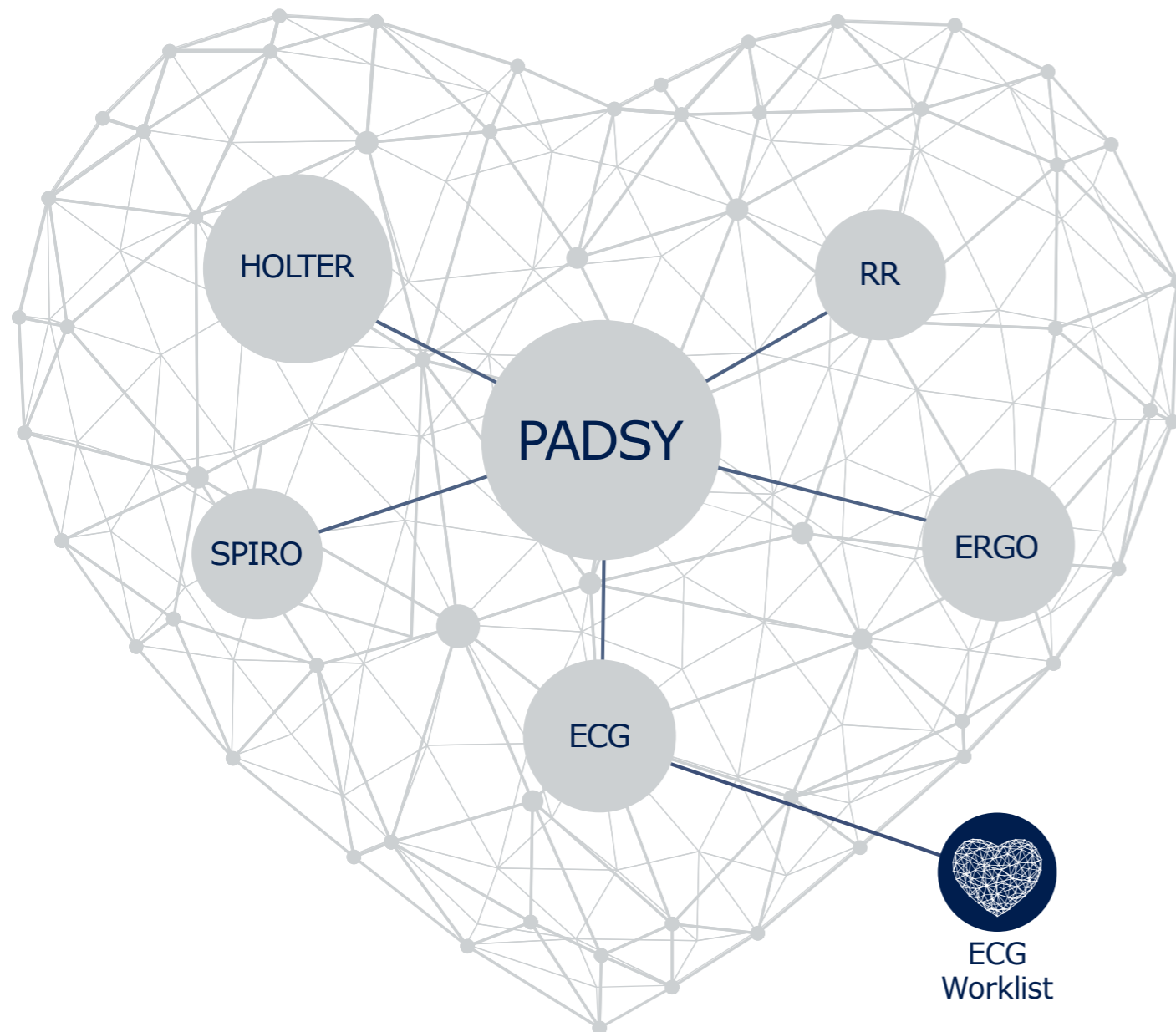
Medset - Innovative manufacturer of software for functional diagnostics
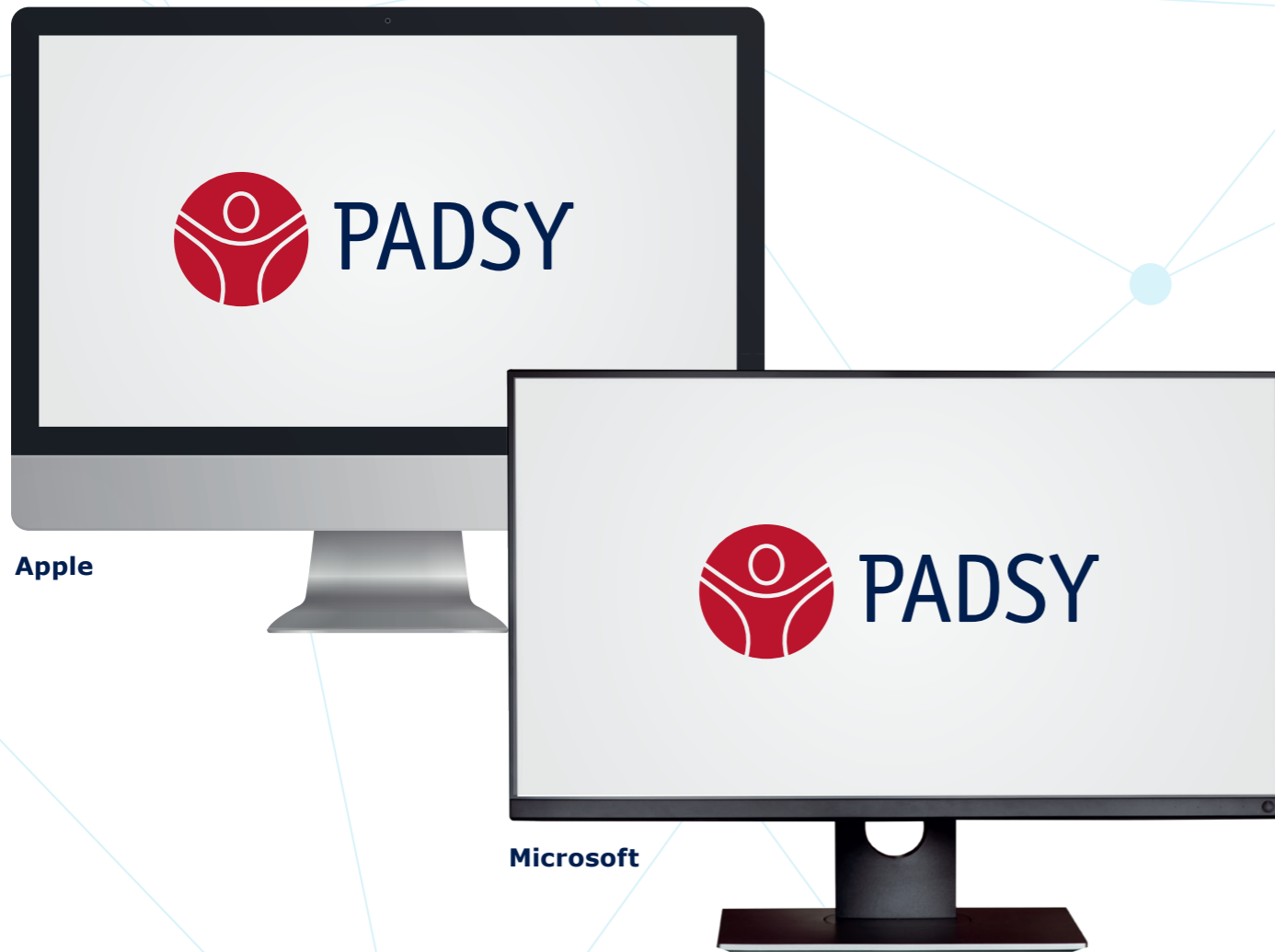
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PADSY

PADSY integrates medical applications and interfaces on various operating systems in all networks

Apple

Microsoft

Connectivity
PADSY communicates with HIS and medical practice IT systems. Patient data and findings are accepted or transmitted fully automatically via the existing interfaces, such as data transmission via GDT.

Platform for functional diagnostics
PADSY organizes all applications for cardiopulmonary functional diagnostics and controls the connected devices for the recording of vital parameters.

Uniform user interface
All applications in PADSY have a uniform look and feel and thus provide a sense of reliability in operation. Printouts can be individually configured for each application. In addition, text modules can be defined for generating reports.
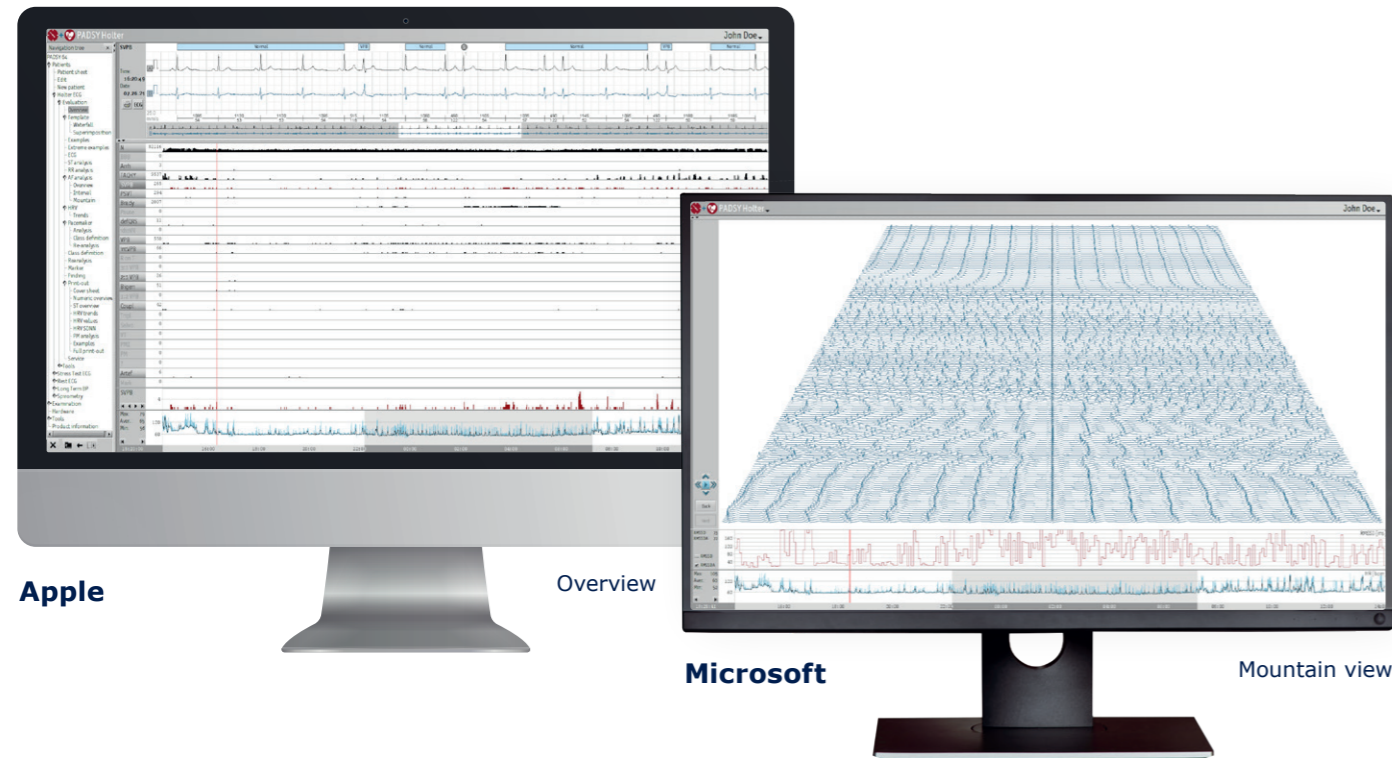
Data management
All patients and examinations at a glance.

Network capability
PADSY was developed as a client/server system and therefore works in networks of any size.

Operating systems
Because of the Java programming language, PADSY and its applications are fully compatible with Windows and macOS operating systems.

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Atrial fibrillation diagnosis

Apple

Overview

Microsoft

Mountain view

AF analysis
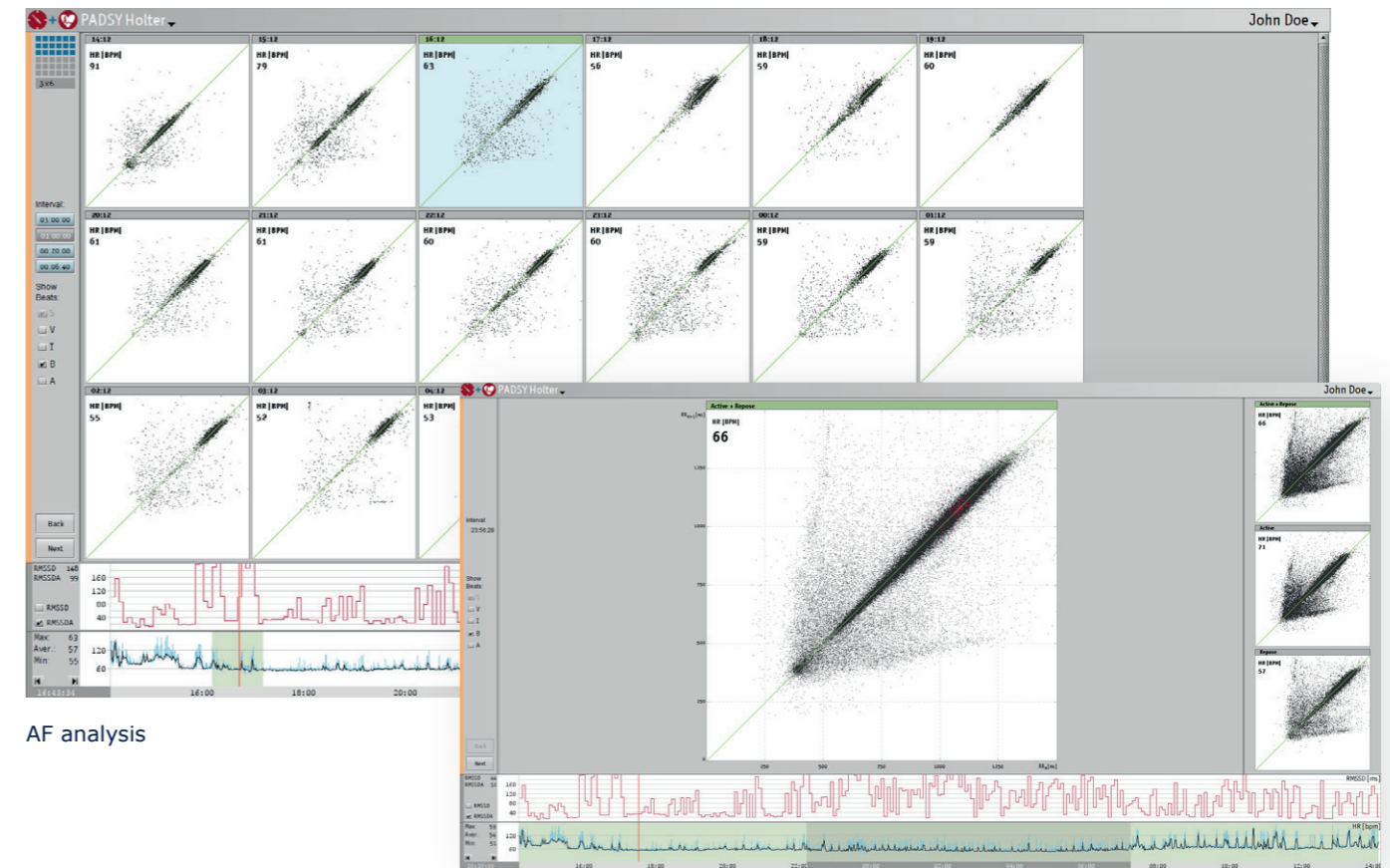
Valid results at first glance
The general overview allows you to assess your patient's heart rate in just a few seconds.

Various functions
- Re-analysis
- Template matching
- RR analysis
- QRS compass
- Area editor
- Individual beat editor

The ECG in a new perspective
A particular highlight is the mountain view which shows each ECG beat of a beat class clearly and precisely.

Additional options
- Initialization of various compatible Holter ECG recorders (patient's name is written on the recorder)
- Placement of markers during the recording by the patient
- Optional: Printout of a patient diary

Reliable detection
The Poincaré plots show the dynamics of the reliably detected atrial fibrillation phases. You can confirm these by rapidly switching over to the interval or Mountain view.

Re-analysis
Using the time cursor, you can rapidly find the relevant time range in which the atrial fibrillation occurred. The measurement can be analyzed once again by changing the settings.

Compatible Holter ECG recorders
- ECG Time
- ECG Time S
- ECG Time S$_{Accu}$
- Other recorders upon request

ECG Time

ECG Time S

ECG Time S$_{Accu}$

Planet Center performance features
- PADSY Holter ECG system with the "Planet Center" option
- Expanded PADSY database system for any number of analysis participants (planets)
- Authentication of the individual participants
- Automatic encryption according to the RSA method
- Return of all changes and comments

Encrypted communication

Analysis Center

Apple

Microsoft

Analysis Center
The Center can organize all connected analysis participants by special modules.

Planet Center option
Recordings are sent to an analysis Center that handles the analysis.
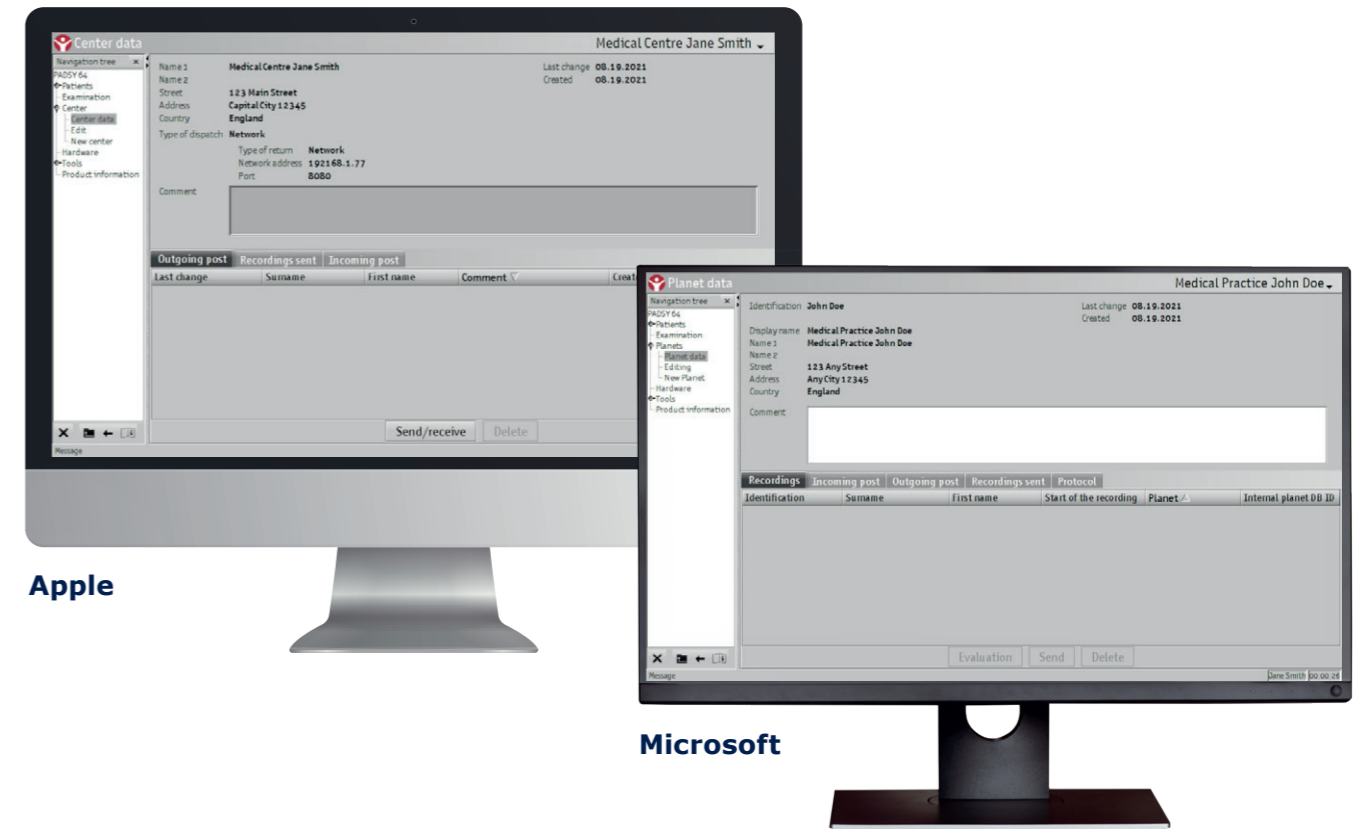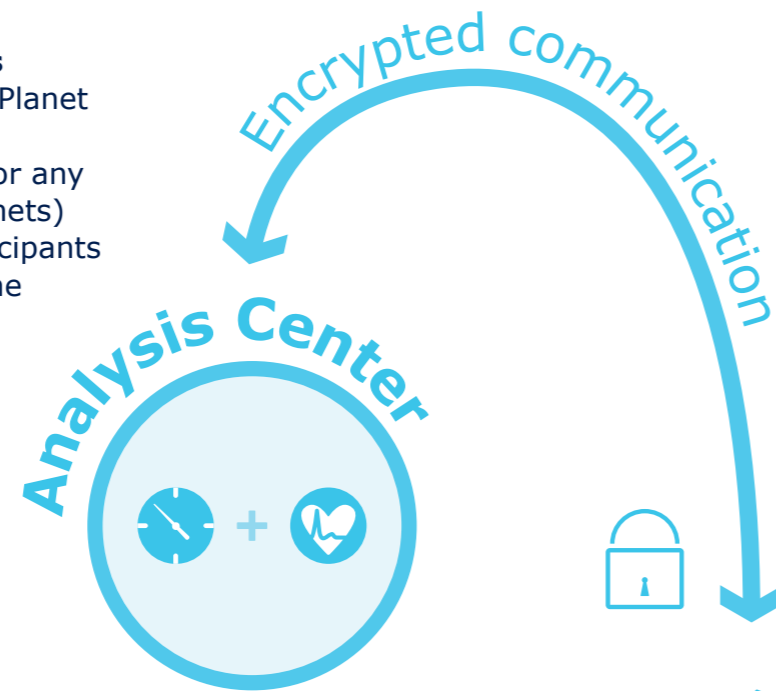
Planet performance features
- Up to 48 hours of digital ECG recording
- Automatic encryption according to the RSA method
- Biderectional ECG communication via Internet
- Visual ECG monitoring, printout and archiving

Secure data transfer
In the Planet analysis community, the data are trandmitted only with recognized encryption algorithms.

Apple

Microsoft

Intelligent comparison function
With this function, two ECGs from a patient can be easily compared with one another. This allows you to identify changes in the ECG at first glance.

Valid ECG processing
The HES algorithm ensures a valid diagnosis. One's own measurement can be performed with the integrated calliper and representative cycles.

ECG interpretation
The precise HES ECG interpretation automatically determines the representative cycle and makes a diagnostic recommendation for possible pathological symptoms.
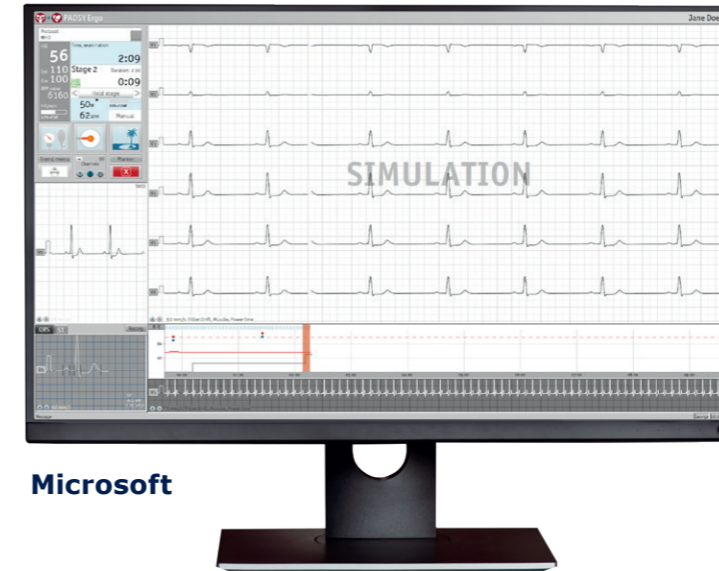
A stress test for your patients – stress-free
PADSY Ergo controls the maximum stress for your patients. You are in control and stay relaxed.

Observation in the network
Observe the ECG from your workstation while the patient performs the stress test in another room.

Flexible ECG display
With just a few mouse clicks, you can select your preferred ECG display.
- Choice of various lead systems
- Pacemaker detection
- Emergency ECG option

Compatible ECG amplifiers
- ECG Top
- ECG Top D/BT
- ECG Air/Air BT
- Other amplifiers upon request

ECG Top D/BT

User interface for patient safety
All of the information needed for a safe stress test is shown clearly and comprehensibly on a screen.

Algorithms for valid measurement
Using the HES algorithms, pathologies are reliably identified and displayed.

Integration of an automatic blood pressure module
The integrated blood pressure measurement provides precise measured values.

Other functions
- Premade and individual limit setting
- Selection of premade protocols
- Creation of your own protocols
- Optional: Review and Arrhythmia

Compatible bicycle and treadmill ergometers
- Ergoselect 1, 4 and 5
- Ergotop 2
- Other ergometers upon request

Ergoselect

Similarities Resting and Stress

- Adaptation of the calibration wave also during the measurement
- Training option using the integrated simulator

- Individual recording time
- Various filter options to suppress interferences in the signal
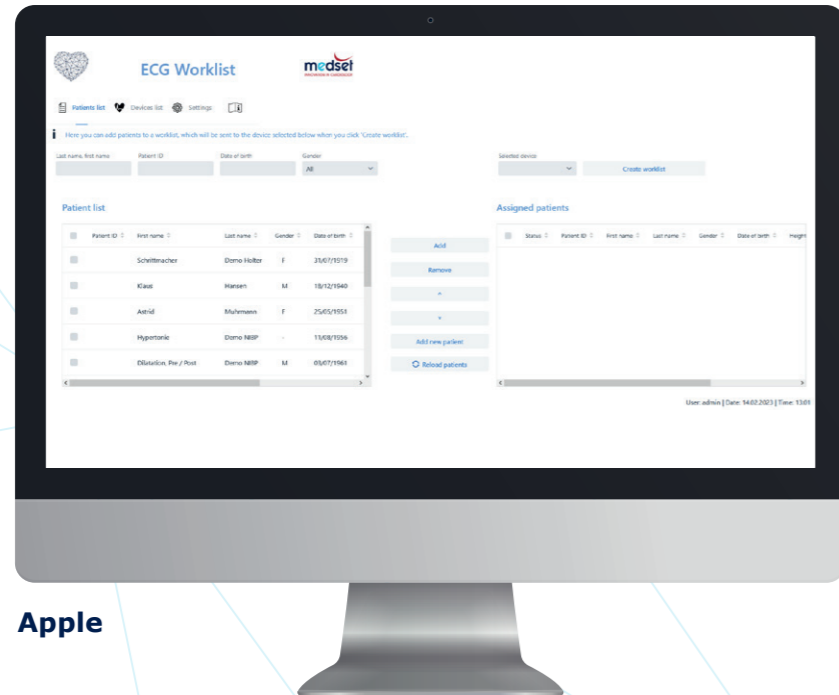
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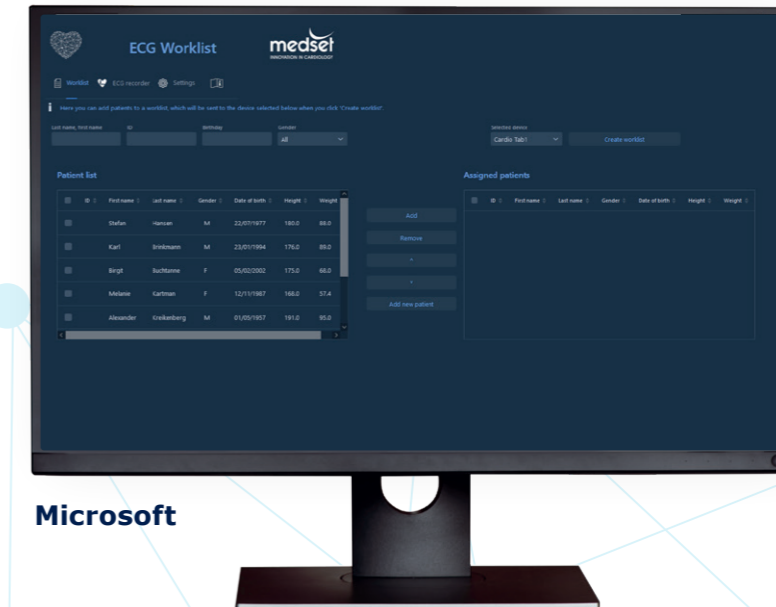
Microsoft

Mobile Working
With the help of the ECG Worklist, you can create worklists to transfer the data of several patients to the device you are using (ECG Mobile or Cardio*Tab 2*). For flexible mobile use wherever it is needed, regardless of the location – both for home or nursing facility visits, and for use on hospital wards.

Modern design
User-friendly and intuitive interface in a web application. In addition to the standard bright mode, you can select a dark mode for good visual ergonomics and image quality and for reducing eye strain.

Connectivity
With a single click, patient data can be transferred to PADSY ECG individually or as bundled via an existing interface. The signals can be stored and evaluated using the PADSY ECG software component. The ECG Worklist can be integrated into PADSY's client/server structure.
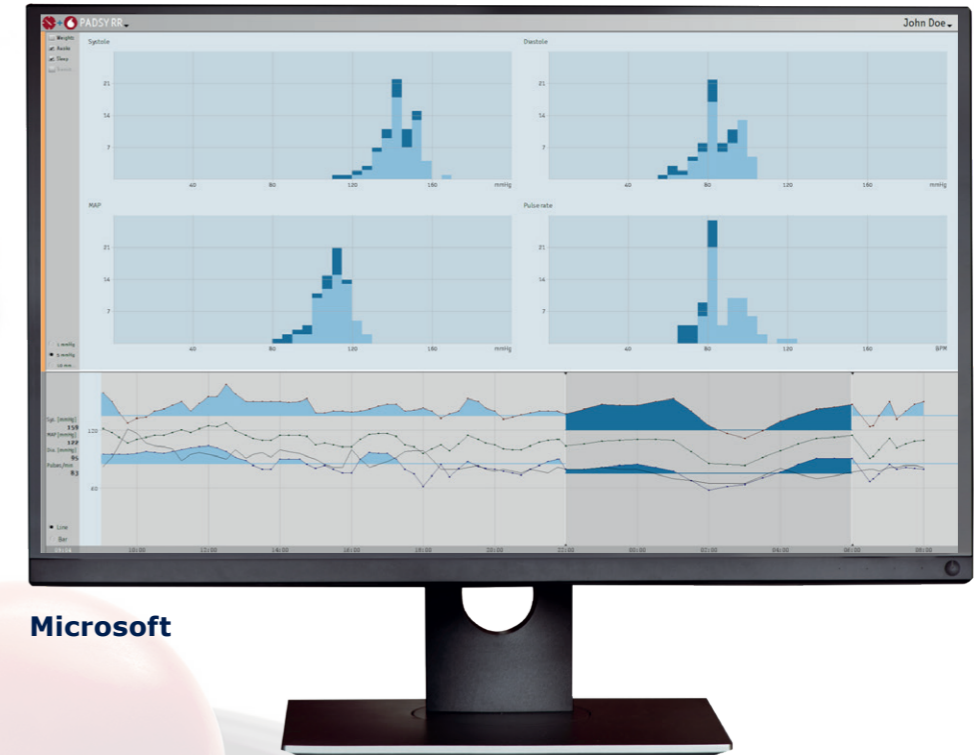
Compatible ECG recorders
- Cardio*Tab 2*
- **ECG Mobile** *by CardioShield*

ECG Mobile

Cardio**Tab 2**

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PADSY RR
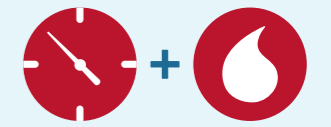
Apple

Microsoft

Valid results at a glance

You get an overview in graph and table form of all of the values of your recording. Histograms and Scattergrams provide you with a quick overview of the distribution of the measured values.

Prepare recorder

Prepare the recorder using PADSY RR individually for your patient. To do this, use standardized or self-produced protocols and differentiate between day, night and transition phases.

Setting options exactly as desired

Create individual limits for the various phases.

Additional options

- Integrated, printable patient diary
- Optional input screen during the initialization for medication and indication
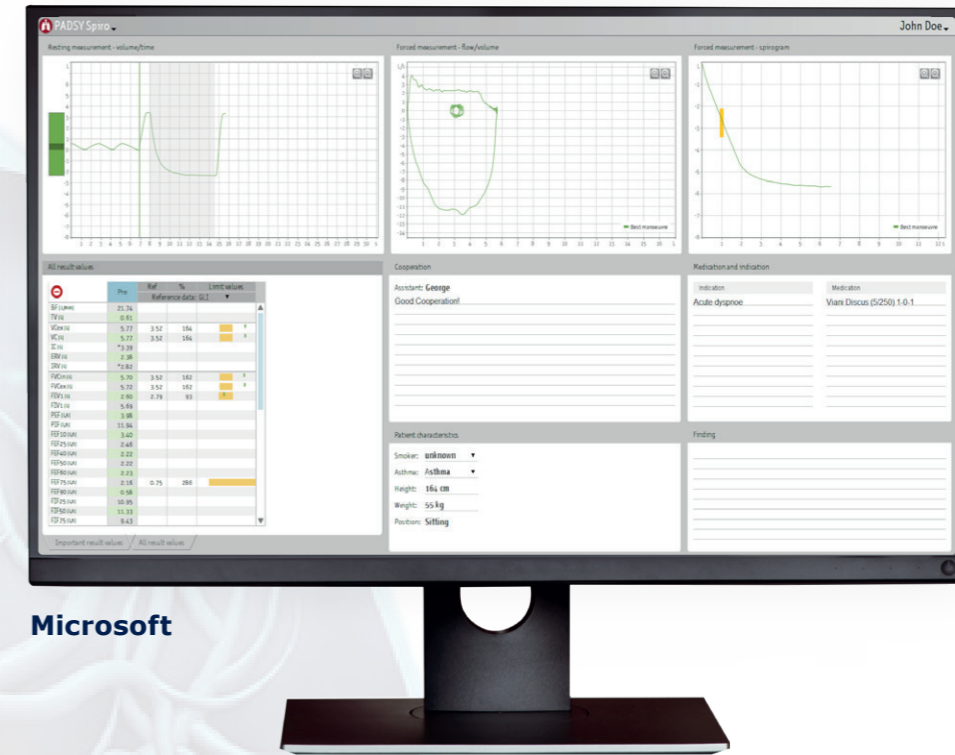
Compatible Holter BP recorders

- SCANLIGHT by IEM
- Other recorders upon request

SCANLIGHT by IEM

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PADSY Spiro

Apple

Microsoft

Reliable respiratory manoeuvres

Quality assessment of the PADSY Spiro software shows the patient's cooperation with each respiratory manoeuvre and thus enables a precise assessment of the flow-volume curve recorded.

No calibration

With minimal flow resistance, the Spiro-SP TrueFlow Sensor with its ultrasound measurement technology precisely measures respiratory flow. The composition of the respiratory gas does not affect the accuracy of the value.

Guidelines according to ERS and ATS

PADSY Spiro was developed according to the guidelines of the European Respiratory Society (ERS) and the American Thoracic Society (ATS) so that an ethnically appropriate assessment of lung function according to GLI is possible.

Convenient measurement procedure

- Choice of various measurement modes (resting mode, flow/volume mode or combined mode)
- The measured values are automatically calculated during the examination
- Through a Pre- and Post-measurement, you have the option of comparing two measurements with each other

Additional benefits

- The compatible spirometers do not require any calibration
- Training option using the integrated simulator

Compatible spirometers

- Spiro-SP TrueFlow Sensor
- Spiroscout
- Other spirometers upon request

Spiro-SP TrueFlow Sensor

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Medset Gate

Hospital → ADT/ORM / MDM/ORU → **Medset Gate** ↔ **PADSY Software** (ECG Worklist)
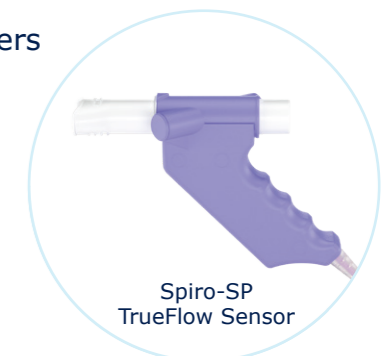
A one-stop solution – data transfer between PADSY and HIS via HL7

ECG management
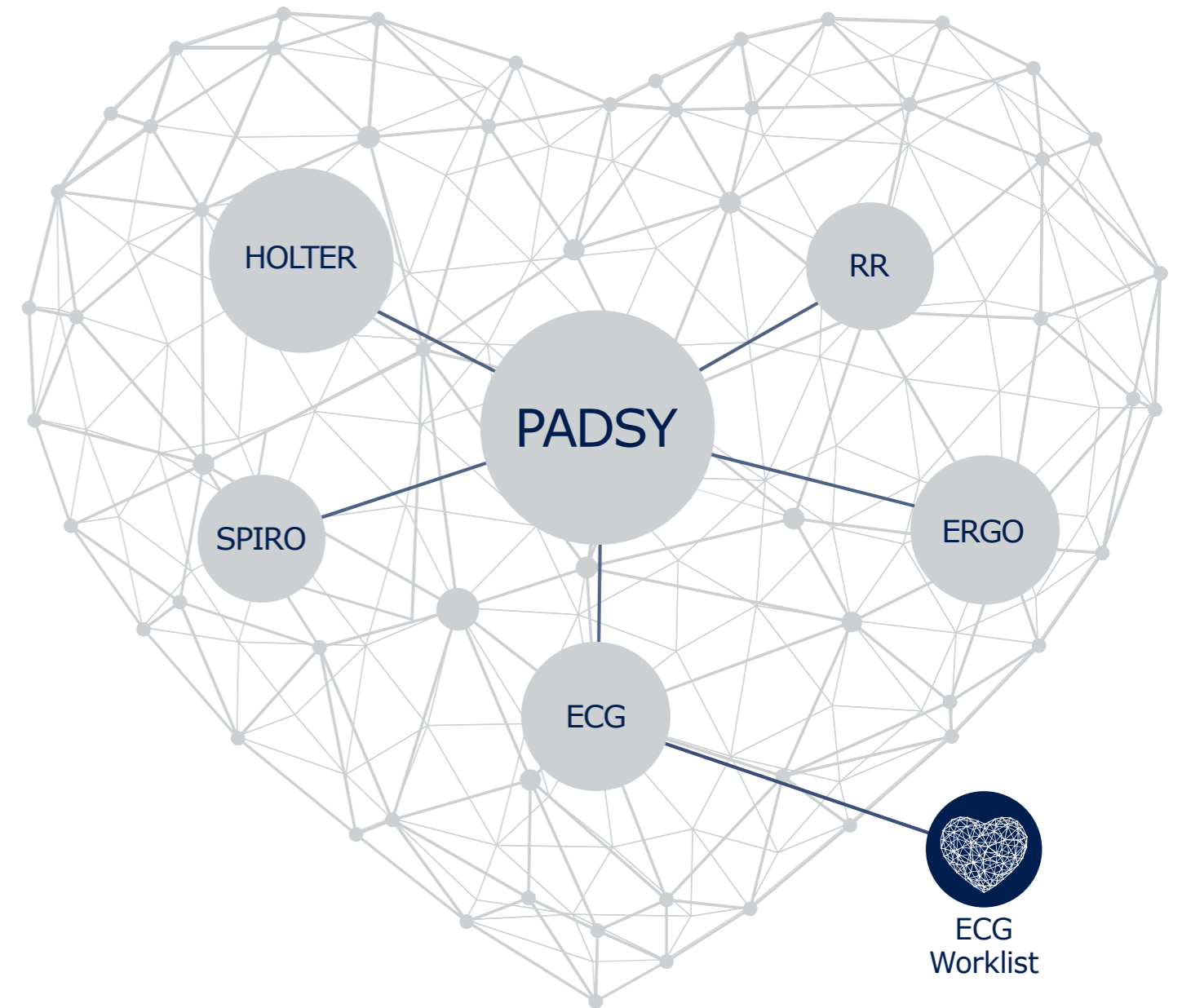Medset offers you a compact overall solution for your hospital management. With a single point of contact, you get everything from one source.

Medset Gate Basis
organises the transfer of patient data (ADT) from HIS.
The findings (MDM) are then returned to HIS.

Medset Gate Advanced
additionally organises the transfer of requirement data (ORM) from HIS. The findings (ORU) are returned to HIS in accordance with the requirements.

ECG recorder
Possibility of connecting external ECG recorders (Nihon Kohden).

Flexibility
Medset Gate can be flexibly configured according to your wishes.

HOLTER — RR — PADSY — ERGO — SPIRO — ECG — ECG Worklist

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