PFT SOFTWARE PLATFORM

SPIROWARE®
SPIROWARE® Software is an easy to use and application-oriented tool for performing, analyzing and reporting comprehensive pulmonary diagnostics. In combination with the ECO MEDICS devices EXHALYZER® or ANALYZER CLD 88 SP with DENOX 88, it offers a simple yet efficient graphical user interface for performing the measurement, data evaluation and documentation. SPIROWARE® fulfills highest standards of functionality and the recommendations of the ATS/ERS for lung function testing.

**Efficient Workflow**

The intuitive graphical user face including step-by-step guidance facilitates an efficient workflow from patient selection to reporting.

**Integrated Data Security**

- Identity and access management with user-specific login
- Trace files for login, and system settings
- Calibration and verification log files and reports
- MS SQL data storage

**Easy Data Import and Export**

SPIROWARE® supports data exchange with hospital information systems (HIS) or IT systems in private practices. Information such as patient data, numerical and graphical test results can be easily transferred.

**Measurement View**

The measurement view provides an overview of all important graphs and parameters:

- Flow-volume loops
- Capnogram
- Expired N2
- Flow, volume, N2, O2, CO2 curves
- Online values report the status of the measurement

**ATS/ERS Reference Compliant**

SPIROWARE® fulfills the ERS and ATS recommendations, such as quality control mechanisms, graphical display of key parameters and breath-by-breath calculations in multiple breath-measurements.

**Built-in Quality Control**

Several built-in quality checks signal the status of the instrument and measurement. Malfunction of the instrument or measurements beyond defined limits are indicated by warning messages.
Evaluation
Various parameters are calculated from the measured data and statistically analyzed. All graphs are color coded for quick interpretation. The integrated trend chart provides information about the patients’ test history and can give guidance for future treatments.

Reference Database
A large database of reference values supports the correct interpretation of measured results. Import of additional reference values is possible.

Evaluation View
The evaluation view allows the detailed analysis:
- Overview of results with statistical evaluation
- Comparison with reference values
- Trial Selection
- Individual breath analysis
- Customizable parameter table
- Quality criteria

Flexible Export options
From data export to a central server or export of raw data for research applications.

Quality Assurance
Optional over-reading for clinical trials and multicenter studies

Transparent documentation
Measured data, calculated data and calibration status are transparently and reliably documented.

Customizable Report Templates
Report templates facilitate the fast and automatic generation of reports. This avoids user errors and frees time for patients.

EXPORT DATA (HIS)
Flexible export options from data export to a central server or export of raw data for research applications.

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Tidal Breathing Analysis

FeNO
Alveolar NO

FeNO
Caw NO

Daw NO

RR
VT

Nasal NO

FEV1
FVC

FeNO50
nNO

SGNO
Caw NO

N2 MBW
N2 SBW
SF4 MBW

VD Bohr etCO2
P1F
PEF

FEV1/FVC
LCI
FRC
Scond
Sacin
M1/M0

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