AioCare Doctor
Better Diagnostics

Respiratory Disease Management

vyaire™
MEDICAL

AioCare Modern Respiratory Disease Management.

- Time efficient spirometry and diagnosis for experts and general practitioners alike.

- Holistic patient treatment with smart home monitoring.

- Wireless and truly mobile.

- Decisions support algorithm for physicians and an AI-based quality assuring algorithm.

- AioCare x MicroGard™ II Filter – Hygienic and secure.

"*AioCare, an intelligent respiratory disease management to diagnose and monitor pulmonary diseases, even from the homes of my patients.*"

Hardware

Lung diagnostics &
environment
monitoring

AloCare

AioCare

AioCare is a professional system to monitor and treat pulmonary diseases, consisting of a portable spirometer connected to a smartphone app and an online panel to access the results. The device enables a full spirometry test to be conducted in a doctor's office, including a bronchodilator test. Thanks to the applied algorithms, the results are instantly available on the phone and in a computer panel.

The smartphone app module supports the interpretation of the measured data. The system compares the results of subsequent spirometry tests before and after the application of the medicine, and automatically analyses the level and reversibility of obstruction diagnosis within 25 minutes.

AioCare can be used by patients at home to monitor their lungs' parameters, while doctors can track the results and consult if needed. Protecting their patients against the unexpected consequences of disease exacerbation.

Software

Mobile app & secure cloud-based data platform
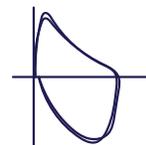
Data

Decisions support & AI-based quality assuring algorithms

Why AioCare?

Confirmed quality

A cutting edge, class IIa medical device (MDD), certified by the notified body TUV Nord. Validated by an observational study in a sample of 80 patients.

Accessibility

A small, portable device that can be taken anywhere. Safety tested by UL. Easy to use and inexpensive. Intuitive interface for creating patient records automatically saves test results, enables statistical analysis and management of the disease history.

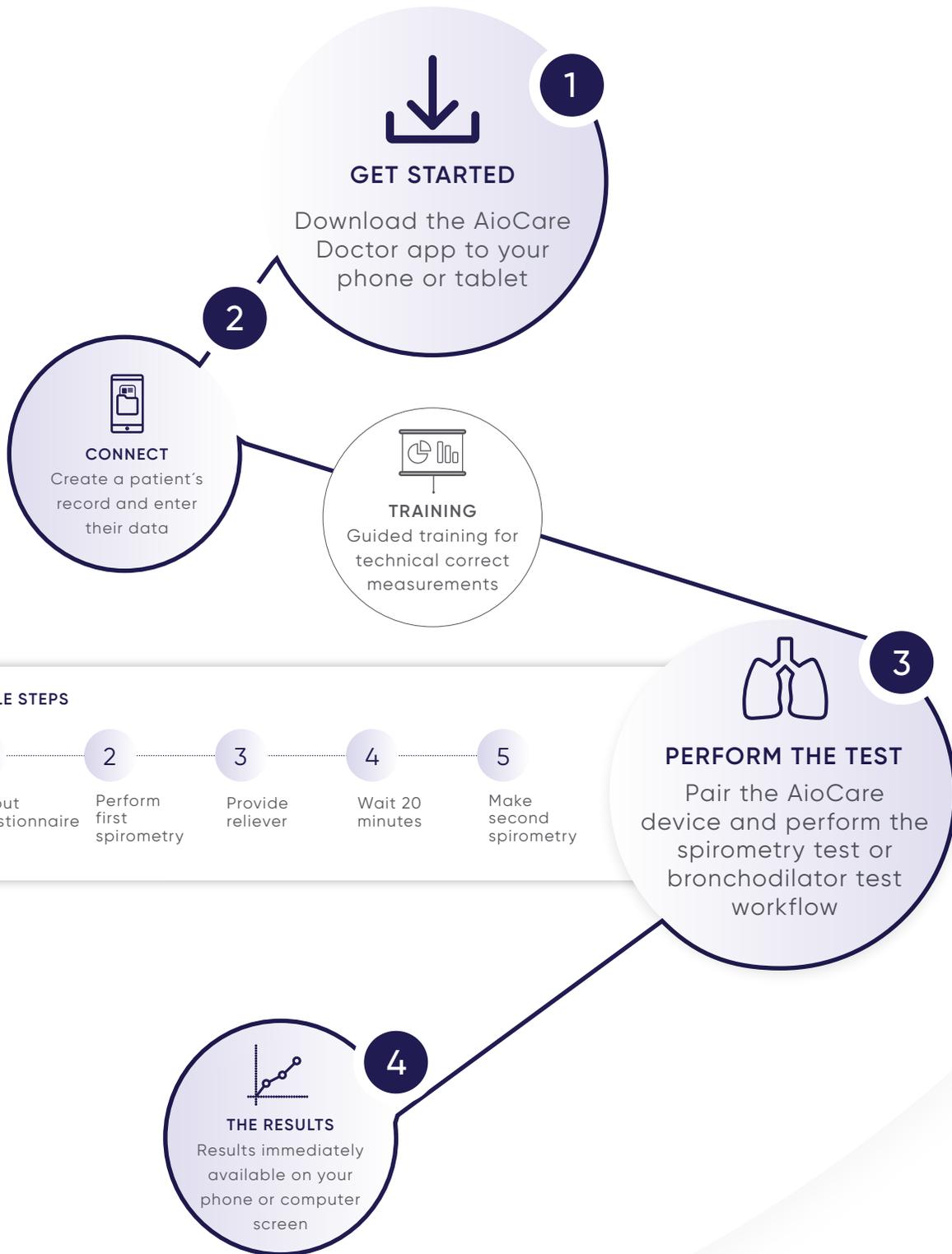## 4 easy steps to your first results

High accuracy of test results identical to those conducted with the medical equipment available at medical centres.

Warranty and support

2-year warranty and customer support line.

4 easy steps to your first results.

1

GET STARTED

Download the AioCare Doctor app to your phone or tablet

2

CONNECT

Create a patient's record and enter their data

TRAINING

Guided training for technical correct measurements

3

PERFORM THE TEST

Pair the AioCare device and perform the spirometry test or bronchodilator test workflow

SIMPLE STEPS

1. Fill out questionnaire
2. Perform first spirometry
3. Provide reliever
4. Wait 20 minutes
5. Make second spirometry

4

THE RESULTS

Results immediately available on your phone or computer screen

Full Spirometry

AioCare registers inspiratory & expiratory flow volume curves corrected by built-in real-time BTPS & displays key parameters, as well as SpO_2/HR.
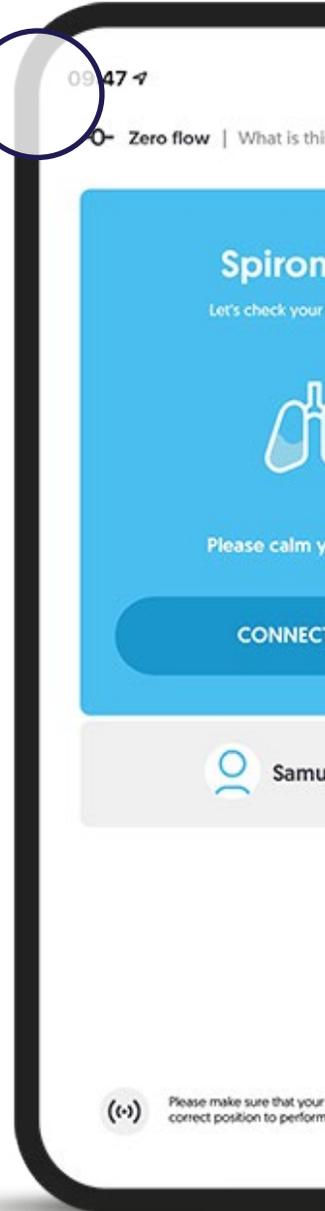
Calibration free

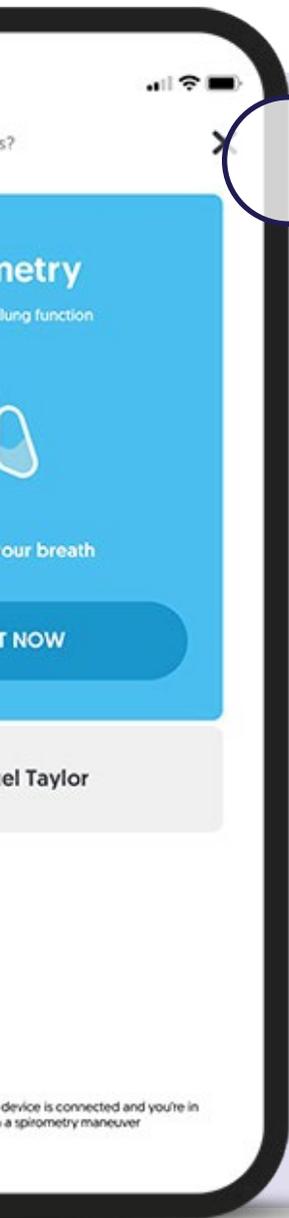Be ready for spirometry at any time.

CONNECTION BLUETOOTH 4.0

Connection secured by AES-128 encryption with Electronic CodeBook (ECB) and directly in the application by authorization of connection with the chosen AioCare spirometer.

Simple Solution

Seamless IT integration.
Wireless connection & charging.

DATA TRANSFER

Transfer secured
by SSL certificate
(Secure Socket Layer)

API (REST)

Integration with
any data system
or platform

HIS (HL7)

Integration with
Hospital Information
System

**AIOCARE
SERVER**

MICROSOFT
AZURE
ISO 27001

SENTRYSUITE®

SentrySuite® SOFTWARE

Profit from pulmonary expert reviews due to
the peer review funtionality in **SentrySuite.**
Enter full trend reports and combine with
other pulmonary funtion test measures, as
bodyplethysmography

**AioCare
on-line panel**

Data aggregate in
the desktop version
for doctors

Better Diagnostics.
Highest quality standards.

99%

FEVI
Accuracy

98%

FVC
Accuracy

ATS/ERS
Implemented 2019 guidelines

Patient Validation Tests

Multicenter Observation Study

National obstruction Diagnostic Program

Accuracy Validation Report, May 2020

AioCare x
MicroGard™ II Filter

High level validated cleaning methods

Protect patients, staff and device from cross-contamination by using the MicroGard II in-line filter.

MicroGard II filters provide 99.999% viral and bacterial efficency against cross contamination (Nelson Test Report 1003754).

AioCare. Better lives.

AioCare means higher quality care for your patients. You give your patients a device to self-monitor and take care of their own health in a safe way, under your care. Patients know their data is automatically shared with their doctor. It saves hours of telephone consultations, urgent visits and avoidable emergency interventions.

Stay connected with you patients, independent of any environmental influences.

An electronic journal enables the patient to avoid filling out tables by hand. The results of your AioCare patients are instantly visible in your panel. Additionally, you can easily access information about their medication and other symptoms. As your patients are no technicans, AioCare supports the user with additional sensors and a virtual guide to perform spirometry measurements in a technically correct way.

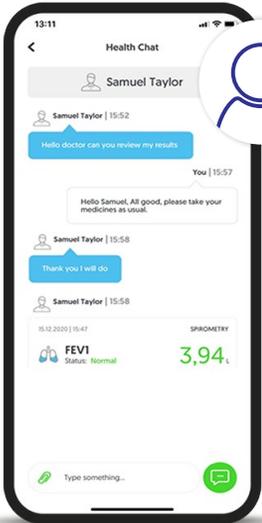## Disease control
individual digital asthma self-control plan.

AioCare
Respiratory Disease Management System

Doctor app

Transfer secured
by SSL certificate
(Secure Socket Layer)

**AIOCARE SERVER /
DOCTOR PANEL**

MICROSOFT
AZURE ISO 27001
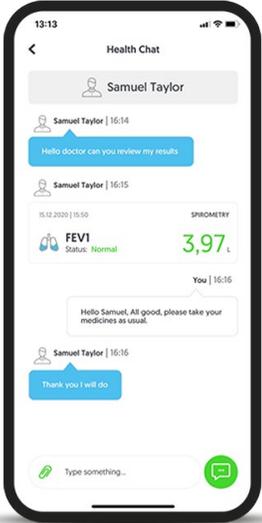
Patient app

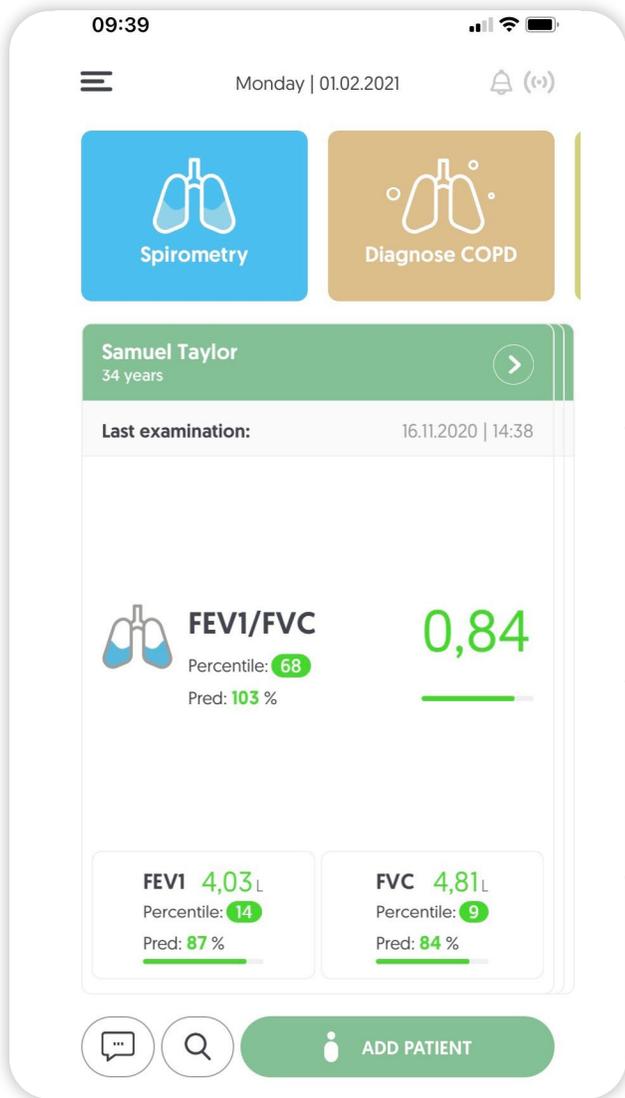Transfer secured
by SSL certificate
(Secure Socket Layer)

Contact initiated
by patient.
Measurement
results sent

Answer sent
by Doctor

Vyaire AioCare Services

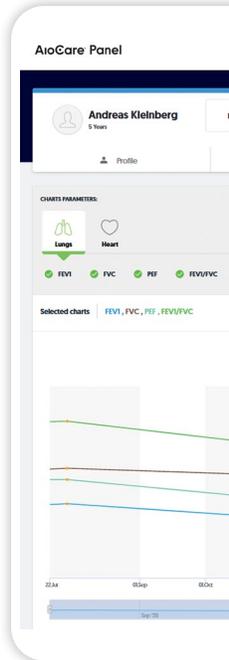## Access to Professional Web Panel and Advanced App Features

AioCare APP

Bronchodilator test with automatic data interpretation COPD diagnostic module

Advanced app feature: Access to patient home monitoring data

Export of results to PDF or Excel / share with email

Chat module for convenient 24/7 contact with your patient

APP + PANEL:

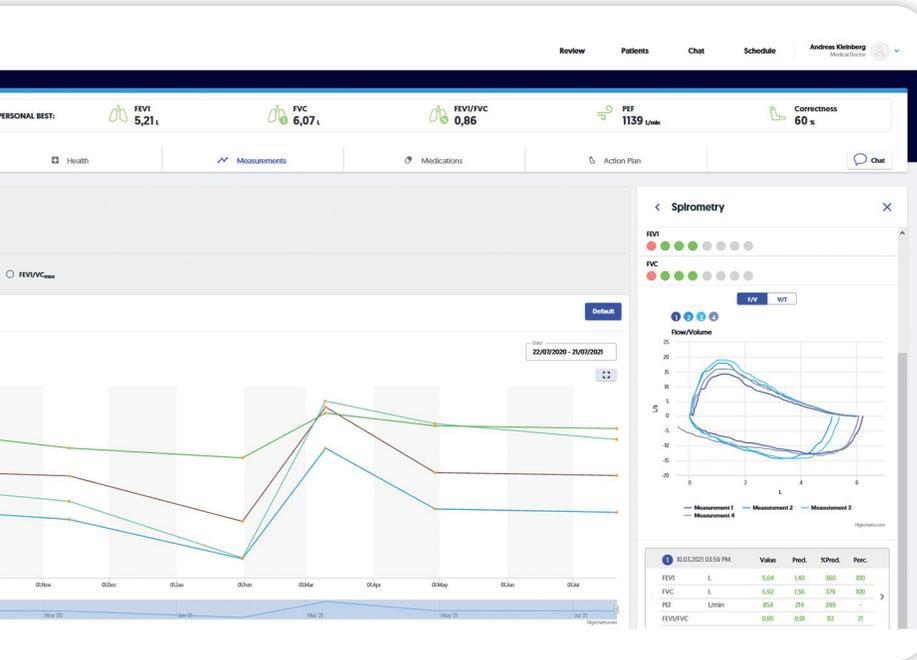Quick online and phone support of a dedicated technical specialist.

AioCare PANEL

Instant access to all results in an online web panel

Preview of data trends

Quick identification of exacerbations

Asthma Action Plan

Chat module for convenient 24/7 contact with your patient

On the fly updates and new features – No Technician needed for any update.

Unlimited secure data storage and backup – Worry free and device independent operation.

Hassle free setup – Just runs in a browser and on a mobile platform.

Default secure and encrypted data transfer – always compliant.

REFERENCES

1. Based on the Bio Burden DIN EN ISO 11737-1: Report 18AA0088

GLOBAL HEADQUARTERS
Vyaire Medical, Inc.
26125 N. Riverwoods Blvd.
Mettawa, IL 60045
USA

AIoCare
⚒ HealthUp S. A.
Twarda 18
00-375 Warsaw:
Poland

CE 2274

MICROGARD™ II FILTER
SENTRYSUITE® SOFTWARE
⚒ Vyaire Medical GmbH
Leibnizstrasse 7
97204 Hoechberg
Germany

CE 0123

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