AioCare Doctor
Better Diagnostics

Respiratory Disease Management

AioCare
Modern Respiratory Disease Management

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

Wireless and truly mobile.

AioCare x MicroGard™ II Filter - Hygienic and secure.

Holistic patient treatment with smart home monitoring.

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

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

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 an **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.

Hardware
Lung diagnostics & environment monitoring

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.

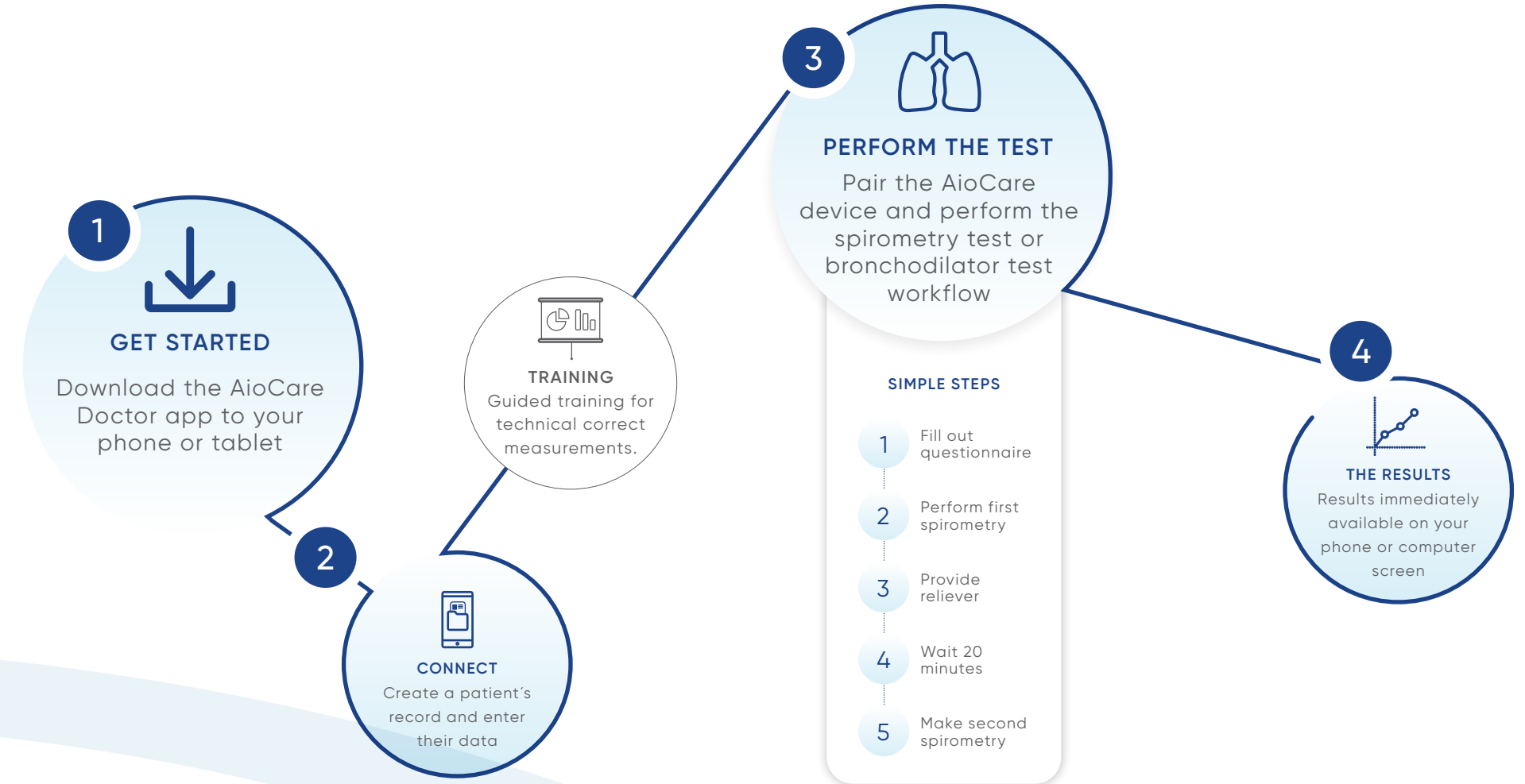### 4 easy steps to your first results
High accuracy of test results identical to those conducted with the medical equipment available at medical centres.

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 SpO2/HR.

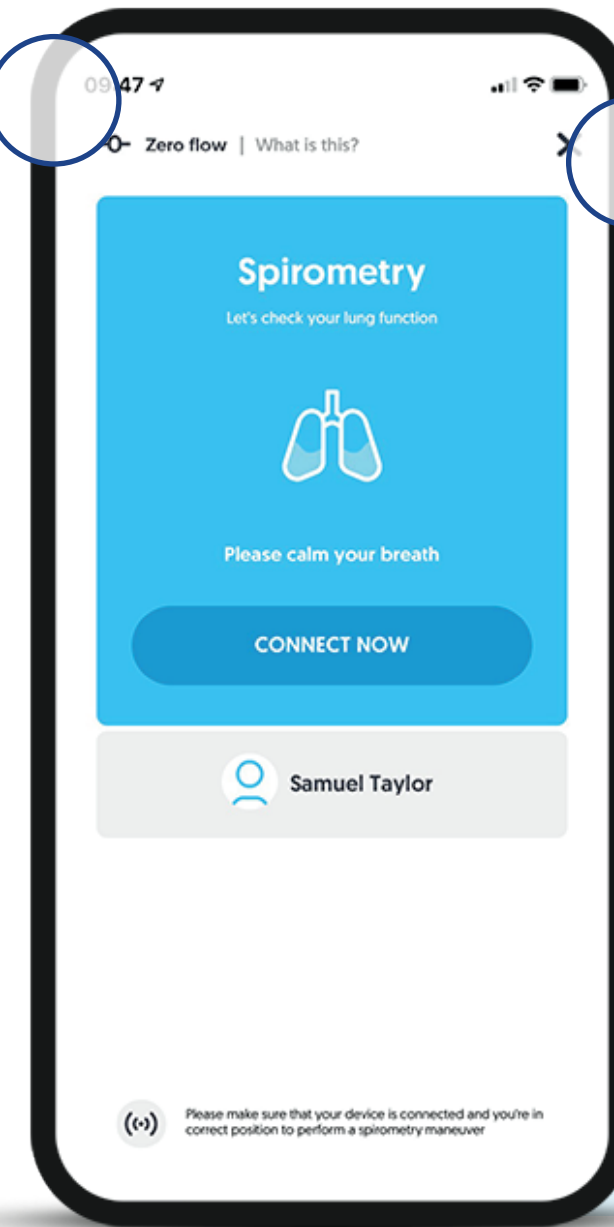## CALIBRATION FREE

Be ready for spirometry at any time.

SIMPLE SOLUTION

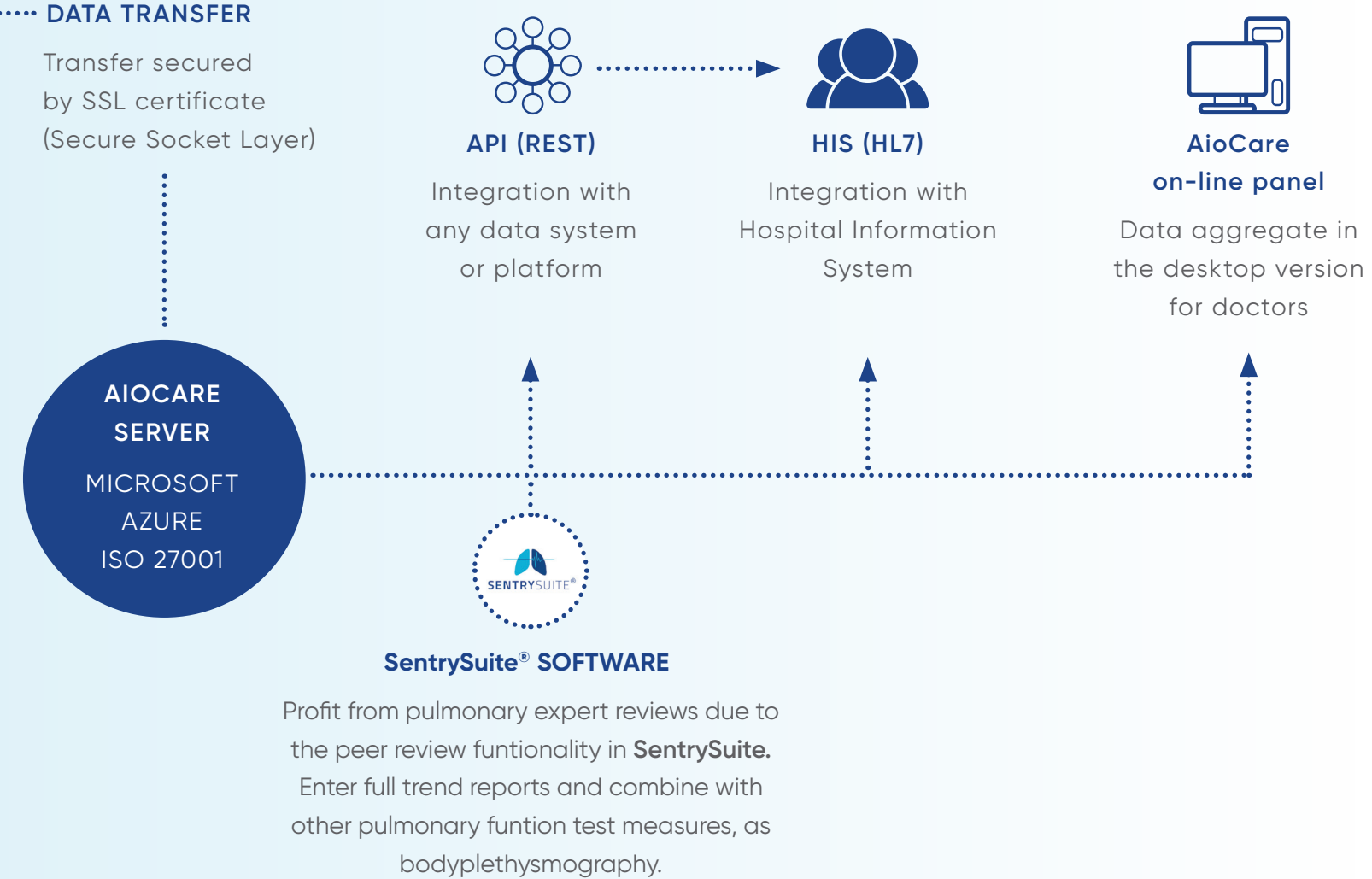Seamless IT integration. Wireless connection & charging.

AioCare

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.

09:47

Zero flow | What is this?

Spirometry

Let's check your lung function

Please calm your breath

CONNECT NOW

Samuel Taylor

Please make sure that your device is connected and you're in correct position to perform a spirometry maneuver

DATA TRANSFER

Transfer secured by SSL certificate (Secure Socket Layer)

AIOCARE SERVER

MICROSOFT AZURE ISO 27001

API (REST)

Integration with any data system or platform

HIS (HL7)

Integration with Hospital Information System

AioCare on-line panel

Data aggregate in the desktop version for doctors

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.

Better Diagnostics.
Highest quality standards.

99%

FEVI
Accuracy

98%

FVC
Accuracy

ATS/ERS

CRITERIA
Have been met
2019
IMPLEMENTATION PENDING

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.
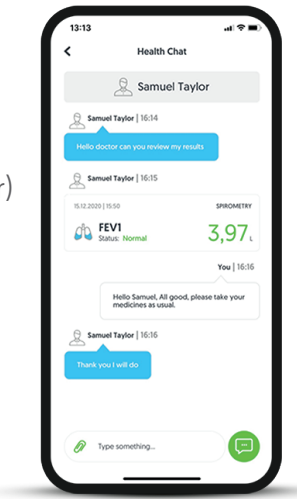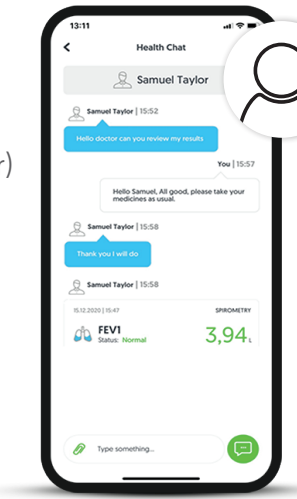
MY ASTHMA
individual digital asthma self-control plan.

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)

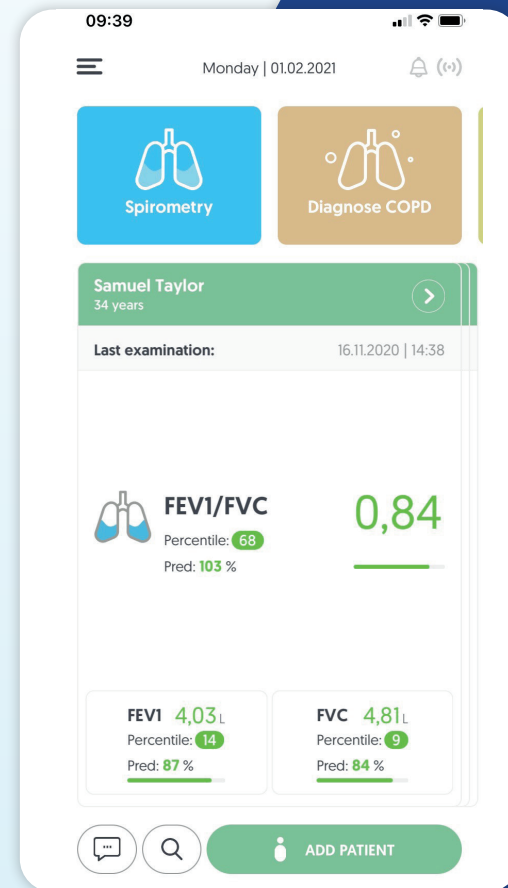Contact initiated by patient. Measurement results sent.

Answer sent by Doctor

Vyaire AioCare Services

**ACCESS TO PROFESSIONAL WEB
PANEL AND ADVANCED APP FEATURES**

APP + PANEL:
Quick online and phone support of a
dedicated technical specialist
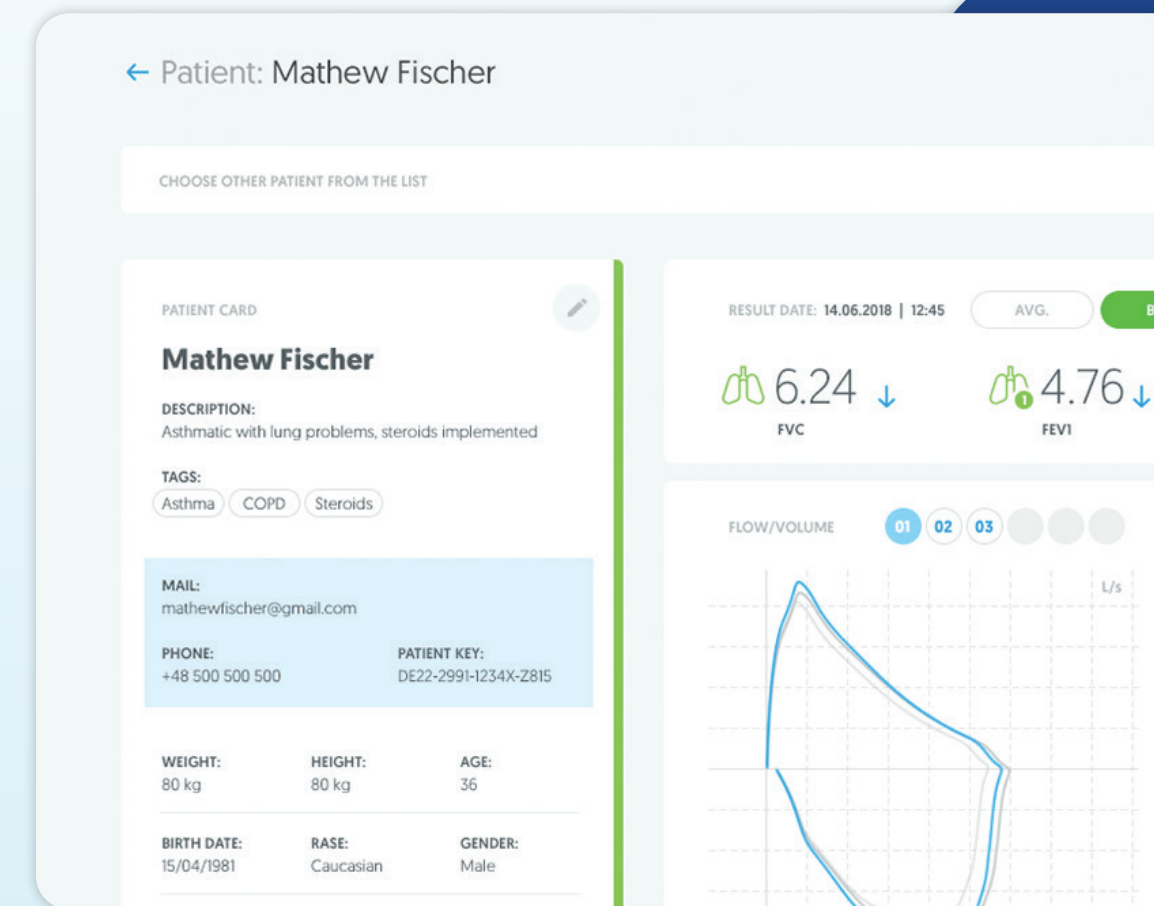(within 60 min. during working hours)

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 screen content

09:39

Monday | 01.02.2021

Spirometry

Diagnose COPD

Samuel Taylor
34 years

Last examination: 16.11.2020 | 14:38

FEV1/FVC 0,84
Percentile: 68
Pred: 103 %

FEV1 4,03 L
Percentile: 14
Pred: 87 %

FVC 4,81 L
Percentile: 9
Pred: 84 %

ADD PATIENT

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

Panel screen content

← Patient: Mathew Fischer

CHOOSE OTHER PATIENT FROM THE LIST

PATIENT CARD

Mathew Fischer

DESCRIPTION:
Asthmatic with lung problems, steroids implemented

TAGS: Asthma COPD Steroids

MAIL:
mathewfischer@gmail.com

PHONE: PATIENT KEY:
+48 500 500 500 DE22-2991-1234X-Z815

WEIGHT: HEIGHT: AGE:
80 kg 80 kg 36

BIRTH DATE: RASE: GENDER:
15/04/1981 Caucasian Male

RESULT DATE: 14.06.2018 | 12:45   AVG.   BEST

6.24 ↓   4.76 ↓
FVC   FEV1

FLOW/VOLUME   01 02 03

L/s

vyaire™
MEDICAL

AioCare

MicroGard™ II Filter
SentrySuite® Software

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