

iSpiro[®] home spirometry

Complete at-home spirometry solution with real-time virtual coaching

Spirometry done at home enables frequent measurements, is attractive to patients and expands the pool of potential trial participants. However, at-home spirometers often have limited functionality, and without coaching patients are likely to yield a sub-optimal effort, therefore compromising the results.

The solution

The iSpiro[®] system collects full exhalation and inhalation spirometry data directly from the patient's home using an intuitive spirometry sensor paired with a handheld mobile device. Through the device's iSpiro app, patients and clinicians can communicate and view spirometry metrics in real-time, **enabling effective virtual coaching and the generation of high-quality data that meets or exceeds ATS/ERS standards.**

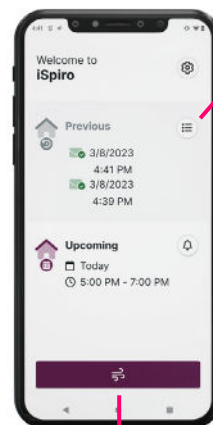
Two options are available for the iSpiro system:

1. At-home self-spirometry Patient-driven assessment

Intuitive patient instructions: The iSpiro app includes an easy-to-follow tutorial video and step-by-step instructions to guide patients through the testing procedure.

Feedback: Users receive notifications regarding measurement and test results, as well as useful tips and information to help them produce high-quality, reproducible data.

ATS/ERS guidelines identified coaching as a critical factor in achieving reliable spirometry data.



Instant feedback and alerts bolster compliance

iSpiro app
On-screen tutorials and instructions



High-quality and high-accuracy spirometry sensor for data capture

2. Virtual site visit

Real-time clinician coaching

Simplified appointment scheduling:

Clinicians can schedule and connect with the patient directly from the Clario Portal.

Real-time video interaction and metrics:

The clinician guides the patient via video communication using the spirometry metrics displayed on-screen in real-time.



All-in-one solution to schedule, connect with and coach the patient



Perform full spirometry at home including FEV₁, FVC, PEF and flow volume loops

Sponsors

- View up-to-date metrics across the entire study through the Clario Portal
- Receive email notifications on transferred data
- Leverage in-home testing to expand participant pool and reduce recruitment burden

Patients

- Easy-to-use device and app with notifications that alert patients when testing is due
- Built-in training videos and live coaching
- Automatic data transfer to portal without the need for patient interaction

Sites

- QR codes and quick setup checklists help sites easily dispense or reassign devices
- Live coaching of full spirometry test parallels the in-person experience
- Receive alerts for sub-threshold patient measurements or missed sessions

Technical specifications

Feature

Specification

Transducer	Type bidirectional high sensitivity vertical turbine
Volume Accuracy	±3% of reading, or 0.05 liters (whichever is greater)
Maximum Volume	8 liters maximum
Maximum Flow	14 liters per second
Flow Sensitivity	Better than 0.025l/s
Power Supply	Rechargeable lithium battery
Battery Life	> 40,000 measurements (with recharging)
GoSpiro Dimensions	80mm (W) x 100mm (D) x 120mm (H)
Charging Station Dimensions	50mm (W) x 100mm (D) x 50mm (H)
Weight (including battery)	300g
Operation Conditions	17°C to 35°C, 30% RH to 75% RH, non-condensing
Transport and Storage Conditions	-20°C to 70°C, 15% RH to 95% RH, non-condensing

Easily capture high-quality respiratory data to power your study with the iSpiro home spirometry solution. Visit clario.com or email info@clario.com

Clario generates the richest clinical evidence. Fusing our deep scientific expertise and global scale into the broadest endpoint technology platform, we empower our partners to transform lives.

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