



**strados**  
making every breath count

CLINICAL TRIALS

# RESP<sup>®</sup> Biosensor

The Next Generation Wearable for Cough Monitoring

[www.stradoslabs.com](http://www.stradoslabs.com)

FDA-CLEARED

# Technology Overview

## RESP BIOSENSOR FOR CLINICAL TRIALS

Strados Labs developed the RESP® Biosensor for remotely monitoring cough and lung sounds such as wheeze and crackles in response to the increasing demand for objective health data in clinical trials. Designed to measure cough in daily life, the RESP® Biosensor offers drug developers an innovative set of data points that allow for greater insight into treatment response and stronger evidence to complement patient self-reports.



## RESP BIOSENSOR MEASUREMENTS

Collect a robust combination of cough, lung sound and quality of life metrics from screening to the research phases.

- Cough frequency, intensity,\* and bouts
- Wheeze, rhonchi, and crackles

## ADDITIONAL INSIGHTS:

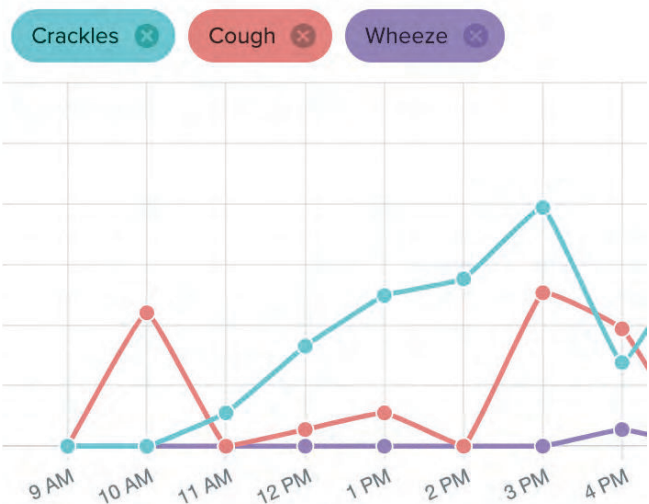
- Respiratory rate\*
- Activity level\*
- Sleep/wake\*
- Body positioning\*
- Heart rate\*

## METRICS-AT-A-GLANCE

- 600k+** | validated coughs
- 20m+** | breaths captured
- 4** | continents
- 35** | languages
- 2** | FDA 510(k) clearances
- 1** | CE Mark

## VALIDATED OVERREAD PROCESS

Our team of respiratory therapists and trained labelers prepare subject reports to meet regulatory and clinical requirements for data accuracy.



# Why Choose the RESP<sup>®</sup> Biosensor?



## PRIVACY & SECURITY

End-to-end encryption and noise filtering ensure patient privacy is protected.



## SUBJECT COUGH ONLY

Multi-modal data from biosensor is used to distinguish subject coughs from external coughs.

## FEATURES

- Lightweight
- Wireless & handsfree
- Water resistant
- 24+ hour battery life
- Rechargeable
- Continuous
- Adherence reports
- Noise filtering



## BEYOND COUGH COUNT

Collect additional measurements to cough count such as cough intensity and bouts for greater clinical context.



## PATIENT-CENTERED DESIGN

Low-burden, discreet design aids patient comfort and compliance while mirroring real-life conditions.



## ACCELERATED RESULTS

Real-time, cloud-based syncs reduce the wait time from data collection to actionable insights.

**Clinical validation** includes equivalent performance to digital stethoscopes as well as a stepwise validation of our cough detection machine learning algorithm\*\*



Learn more at [stradoslabs.com/clinical-evidence](https://stradoslabs.com/clinical-evidence)

## ENHANCED SCREENING

Enroll the right participants in your trial using objective cough and lung sound data.

## PRIMARY ENDPOINTS

Seamlessly measure 24-hour cough frequency in cough trials alongside other metrics.

## EXPLORATORY ENDPOINTS

Complement PROs and pulmonary function tests with objective cough and lung sound metrics.

## STRENGTHEN YOUR EVIDENCE ACROSS SEVERAL DISEASE AREAS

- Chronic Cough
- IPF/ILD
- COPD
- Asthma
- RSV
- Cystic Fibrosis
- Congestive Heart Failure



Designed for Daily Life and Activities

\*\*Machine learning algorithm not FDA-cleared





Respiratory trial success hinges on the ability to collect clinically accurate data. The RESP® Biosensor allows clinical trialists to capture objective cough and lung sound data in daily life, reducing variability in reports and providing new insights about respiratory status in connection with treatments.

To request a demo, contact:  
[sales@stradoslabs.com](mailto:sales@stradoslabs.com)

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