

# RESP<sup>™</sup> Biosensor for Clinical Trials

Enhanced patient data collection in  
respiratory trials including  
cough monitoring



## Technology Overview

Strados Labs' *RESP* Biosensor is an FDA 510(k) cleared Class II wearable device that continuously and remotely captures lung sounds. It has been designed with and for pulmonary and heart failure patients in conjunction with physicians and engineers to objectively capture lung sounds such as cough and wheeze as well as respiratory rate and other dynamics.\* The lightweight, patient-friendly device transfers data remotely via a bluetooth enabled mobile device to the Strados<sup>™</sup> Clinician Portal which is supported by machine learning algorithms for automated event detection.\*\*

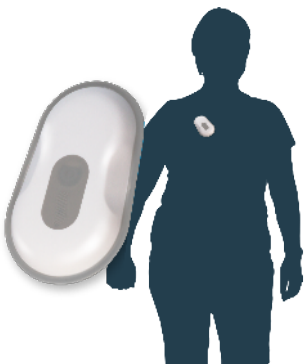
## Metrics-at-a-Glance

- 1st FDA-cleared wearable that captures lung sounds
- 100% of patients found device easy to use<sup>1</sup>
- 97%+ accurate daily cough count via machine learning algorithm\*\*<sup>2</sup>

<sup>1</sup> Sponsor initiated study, 2021

<sup>2</sup> Strados Labs cough detection algorithm publication, 2022

## Why the *RESP* Biosensor?



### Common Cough Monitoring Challenges

- ✗ Burdensome for patients: bulky equipment and wires
- ✗ Limited to cough frequency only
- ✗ Lag time from screening assessment to deployment of device to randomize subjects

### Benefits of the *RESP* Biosensor

- ✓ Patient-friendly device: lightweight, wireless and passive
- ✓ Captures cough frequency and severity as well as other lung sounds
- ✓ Streamlined data collection process and fully remote data transfer allow for faster decision-making



### Technical

- Automated detection of cough, wheeze and other lung events via machine learning algorithms\*
- Adherence event notifications allow for monitoring of device usage
- Continuous 24 hour capture of lung sounds



### Patient Centric

- Easy to setup
- Noise cancelling capabilities
- Lightweight and comfortable
- Speech detection and scrambling
- End-to-end encryption



### Certifications

- CE Mark
- 510(k) Cleared, Class II
- HIPAA Compliant

\*Respiratory rate and dynamics not yet cleared by FDA

\*\*Machine learning algorithms not cleared by FDA

To request a demo, contact:

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