

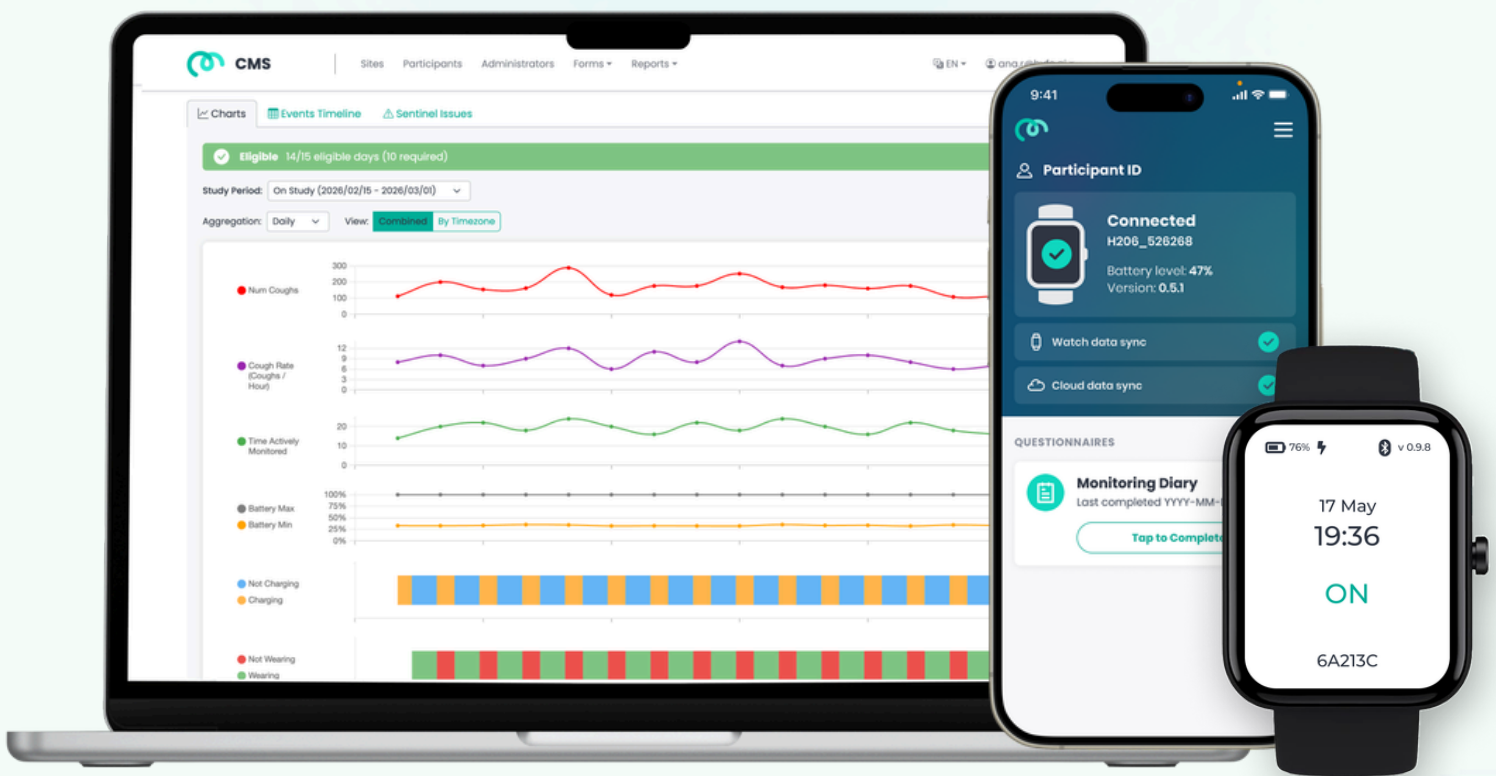


# CoughMonitor

powered by Hyfe

VALIDATED, CONTINUOUS COUGH MONITORING FOR COUGH SCIENCE,  
DRUG DEVELOPMENT AND REAL WORLD EVIDENCE GENERATION

## CoughMonitor Suite (CMS)



# 55+

Clinical trials to date

~PoC through Phase 3 & RWE

# PoC → Ph3

Full endpoint coverage

Plus real-world evidence generation

# 29

Deployed in 29 countries

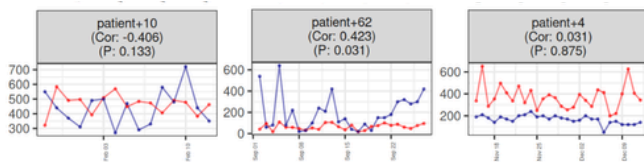
Across 150+ sites

\*Chung KF, et al. Longitudinal cough frequency monitoring in persistent coughers: Daily Variability and Predictability. *Lung*. 2024  
 \*\*Zimmer AJ, et al. Objective cough counting in clinical practice and public health: a scoping review. *Lancet Digit Health*. 2025.  
 \*\*\*Chung KF, McGarvey L, et al. Data from the largest continuous cough monitoring dataset in chronic cough. Manuscript in preparation. 2026

# Why Monitor Cough Objectively & Continuously?

## Subjective PROs ≠ Objective Cough Rate

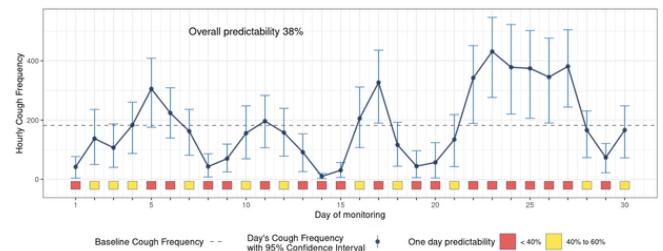
The subjective cough score (in green), and objective cough rate (in blue) often don't correlate - highlighting the gap between perceived and objectively measured symptoms!



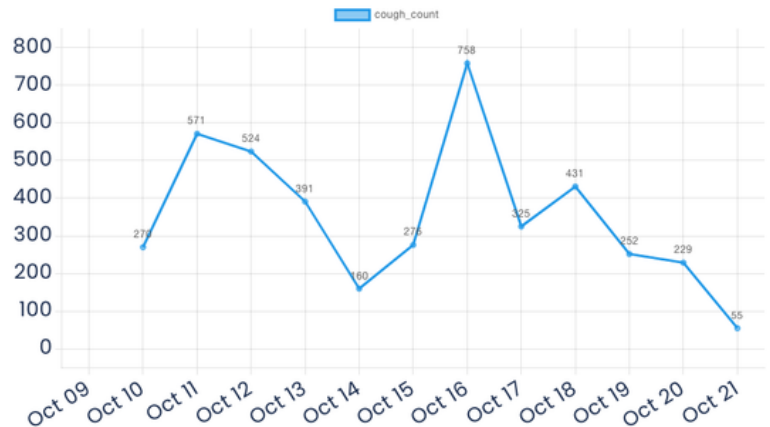
Continuous cough monitoring & daily VAS for 30 days

## Persistent Coughers are Highly Variable

Only through continuous cough monitoring can this variability be effectively evaluated - ensuring an accurate baseline and meaningful assessment of treatment response.



Patients often misremember how much they coughed. Tracking cough continuously shows whether a drug or intervention actually reduces coughing, even in small or gradual ways that patients may not notice themselves.



## No conversations are recorded or can be listened to!

### Continuous

At all times, during day and at night while charging, resulting in 24/7 data for days, weeks, months.

### Unobtrusive

Watch is discrete, light, waterproof and comfortable - designed for everyday wear for long periods of time.

### Privacy-preserving

All processing is done on the watch; no sound is recorded, no conversations can be listened to.

### Fully automated

Data collection is passive and requires minimal patient interaction.

### Validated

Observed Lin's concordance correlation coefficient with ground truth was 0.985.

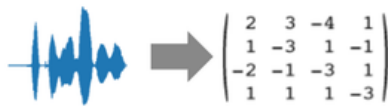
## HOW IT WORKS

# AI-powered cough detection

### Step 1: Peak detection & feature extraction

AI monitors environmental sound levels and identifies “explosive” sounds, e.g. a dog bark, door slam, or a cough.

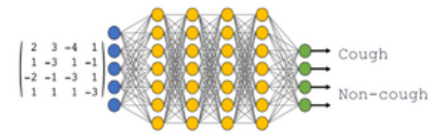
AI model simplifies each explosive sound to a mathematical matrix representing the key ‘features’.



### Step 2 : Cough classifier

2nd AI model reviews the ‘features’, and categorizes them as either cough or non-cough.

Each cough is time-stamped.



To protect users’ privacy, both steps are performed entirely on-device.

## Hyfe’s CoughMonitor Suite (CMS) Components

### ID206

A watch that detects and timestamps coughs



### Companion App

A phone app that collects customizable PROs and transfers data to the cloud



### Insights Dashboard

A web-based dashboard for viewing data and analysis



Plus full end-to-end execution services including study protocol support, database setup, logistics, site training, helpdesk, site performance monitoring, statistical analysis, etc, as required

# Gained in ~55 Studies to Date

## 55+

**Clinical trials to date**

~PoC through Phase 3 & RWE

## PoC → Ph3

**Full endpoint coverage**

Plus real-world evidence generation

## 29

**Deployed in 29 countries**

Across 150+ sites



### **Clear, simple patient materials**

Translated & localised for each market and patient population



### **Online e-Learning Platform**

Accessible 24/7, plus skilled in-person site trainers



### **Fully Compliant Documentation & Database**

Regulatory-grade data management throughout



### **Global Logistics Network**

Local depots with shipping & customs expertise across all markets



### **Real-Time Data Verification**

Customisable adherence monitoring and automated alerts



### **On-Demand Live Site Support**

Via email & phone across full US & EU timezones

## SCIENTIFIC LEADERSHIP

# Hyfe is a leader in cough science

Read our 20+ peer-reviewed publications, white-papers and conference abstracts: the most comprehensive cough monitoring evidence base in the field.

**Discuss your upcoming trial & cough endpoints:**

Dr Peter Small, Chief Medical Officer  
[peter@hyfe.com](mailto:peter@hyfe.com)

VISIT THE COUGH SCIENCE HUB



[science.hyfe.com](https://science.hyfe.com)