

Coughy™

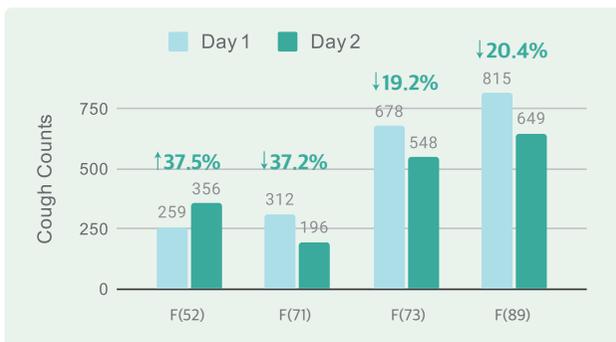
REDEFINING COUGH STUDIES

efficient, reliable, and reproducible cough counts



Why monitor multiple days?

Inherent intrapersonal variance even when compared between consecutive days



Objective 2-days cough measures of the four chronic cough patients at Sher Allergy Specialists in Florida, Apr. 2021

Use more definitive tracking to understand treatment efficacy

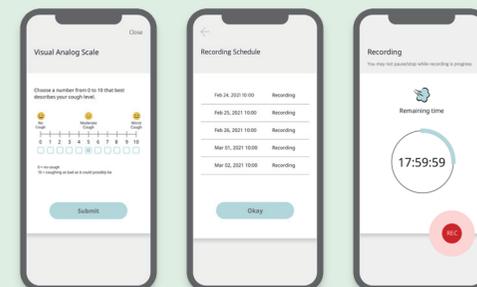
Two asthma exacerbation patients' cough counts for 7 days after ICS prescription



Quantitative and qualitative assessment of coughs using smartphone-based artificial intelligence in Asthma. In partnership with 8 academic hospitals (IRB Numbers: 20-2020-311, KNUCH2021-05-010-001, SEUMC2021-05-006-006, GAIRB2021-06-021-001, K2021-06-021-001, K2021-1017-002, B-2106/693-403)

Why choose Coughy™?

Easy, accessible, and feasible tool for diverse participant population



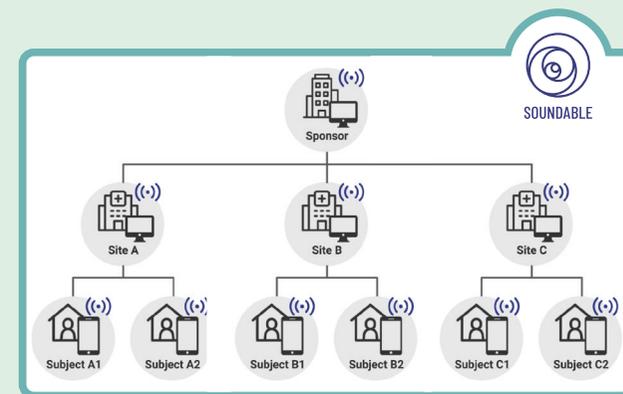
“It was **easier** and **less obtrusive, lighter, simpler to use**”

73yo, Chronic Cough patient, 1 time cough study participant

“I would use **Coughy for other aspects of care** either for **my own information** or **show how harsh I cough**”

78 yo, Chronic Cough patient, 4 times cough study participant

Monitor your study in real-time

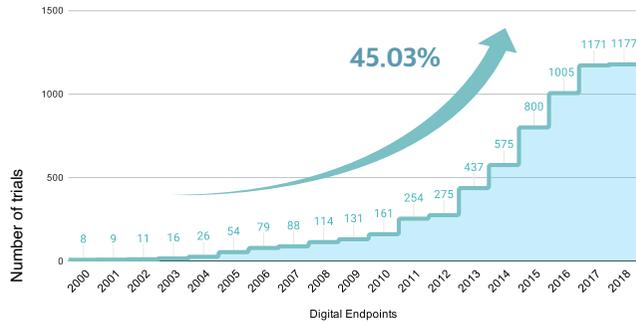


“We are still using **ancient technology** to monitor cough frequency while the other areas of medicine have progressed so much...”

... It would be a **game changer to have a technology simplify the process and increase efficiency for clinical trials.**”

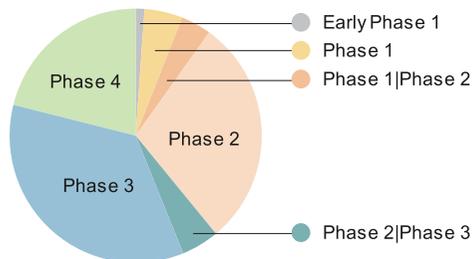
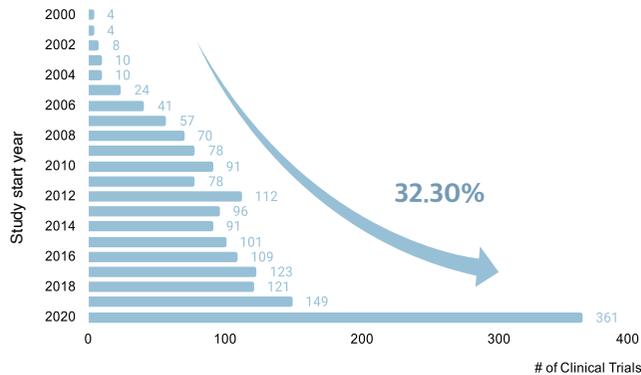
Dr. Sher, Cough Specialist

Digital endpoints are being widely adopted in research



Number of clinical trials using connected digital products by study start year (npj Digital Medicine: Quantifying the use of connected digital products in clinical research 2020)

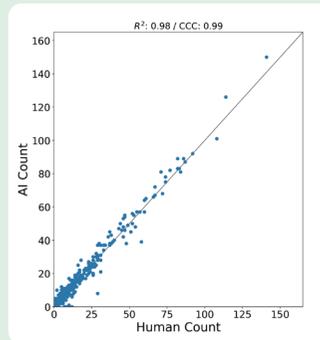
Clinical trials using cough frequency as study outcome measures are rising



ClinicalTrials.gov registry: excluding studies that are suspended, terminated, withdrawn, with unknown status, and without phases

Combination of advanced sound analytics and quality system delivers reliable cough measures

1. Analytics built from over 60,000 clinical cough samples from patients with respiratory conditions (i.e., chronic cough, asthma, and interstitial lung disease)
2. Reliable cough counts powered by robust labelling process with trained listeners
3. Coughy analytics are continuously improving with performance at sensitivity ≥ 0.90 , specificity > 0.99
4. Quality inspection system fulfills the $> 99\%$ accuracy to guarantee reliable cough measures



Soundable Internal Research: 13 subjects with severe asthma observed cough severity for 7 days (Mar. 2022)

Insights you can get with novel cough measures

Objective symptom measures enable studies, such as **treatment intervention efficacy**, and correlation between **subjective vs. objective cough assessment**.

Increase study adherence

With real-time data visibility, monitor participation to **increase study adherence** and **decrease study dropout risk**.

Reliability in cough counts
Scalability in studies
Compliance and adherence

Data turnaround time
Failure and withdrawal rates
Study customization time

Contact us to learn more or explore partnerships

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Privacy and Security

We take privacy very seriously and follow all state, federal rules and HIPAA for protecting your privacy and security.



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