

Pediatric Cough Pattern Detection Clinical AI

Business Need & Use Case Overview

UCSF Benioff Children's Hospitals have used the Hyfe mobile app which can analyze sounds from patients real-time to decipher coughs through its AI algorithm. This innovation offers a significant advancement from the traditional method of asking patients about cough symptoms or assessing improvement. This new tool provides objective data that can aid in distinguishing different diseases, such as RSV, based on cough patterns and objectively monitoring treatment progress.

Ethical/Regulatory Considerations

Not disclosed

Archetype

Taker

AI Technique(s) Used

Generative AI

Core System(s) Used

Not disclosed

Digital Solution(s) Used

Hyfe

Implementation Stage

Implementing

Assessments*

Risk	Complexity	Financial Impact
3.8/5	3/5	\$\$

Challenges/Lessons Learned

- Clinician buy-in to use technology
- Collaboration with clinicians and researchers is critical for effective implementation

Initial Outcomes

Not disclosed

Source: How AI can help detect and monitor coughing in infants and young children | Contemporary Pediatrics