

MACHINE LEARNING PLATFORM TO REMOTELY MEASURE DIGITAL BIOMARKERS

Leverage computer vision and AI to gather and analyze visual and auditory cues directly through the patient's smartphone. Pinpoint critical patient responses and behavioral trends. Scientifically-validated, remote assessment of patient response deepens the pool of clinical data available to interpret study findings and drive decision-making.

EMPOWER STUDY TEAMS WITH POWERFUL INSIGHTS FOR FASTER TRIALS

In any clinical trial, the collection of accurate data of a patient's response to treatment is critical to understanding the impact a drug has on patients. Often, clinical trials require several in-person patient visits where clinicians determine any changes in a person's response to treatment. These visits, which can be burdensome for patients and expensive for trial sponsors, can be infrequent and subjective, especially as patient symptoms may not be visible at the time of the visit. AiCure aims to eliminate these blind spots by creating more frequent check-ins that take place in the comfort of a patient's home, providing more accurate insights.

- **Available to All, Anywhere, Anytime** - AiCure is revolutionizing the digital biomarker industry by tracking both visual and auditory data simultaneously, including facial expressivity, voice, speech, and movement. By using a smartphone, the platform helps to democratize access and participation.
- **Provides Complete Data Privacy** - Provides objective observations of patients and clinical trial participants in their natural environment while delivering HIPAA and GDPR compliant patient data. This allows for secure data capture and processing.
- **Scientifically and Clinically Sound** - Built on methodologies validated in scientific literature, AiCure's digital biomarker algorithms provide meaningful, clinically sound available for submission to regulatory agencies.
- **Transparency And Open Access** - Complete transparency and open access to algorithms' methodologies empower study teams with high-quality data with robust audit trails.

Facial expressivity

- Emotional expressivity
- Blunted affect
- Pain and anxiety
- Computer vision-based measurement of facial behavior through landmarks, action units, and emotions

Verbal acoustics

- Pitch of voice
- Speaking volume
- Vocal tremor
- Quantification of acoustic properties of voice using digital signal processing

Speech characteristics

- Rate of speech
- Speech sentiment
- Length of pauses
- Measurement of characteristics of speech using natural language processing

Patterns of movement

- Head movement
- Facial tremor
- Eye blinks and gaze
- Computer vision-based measurement of movement as can be observed from the front-facing camera