

Biobehavioral Markers of Depression: Integrated Signal Processing of Speech, Facial Expressions, and Physiology

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BACKGROUND

- Depression affects 20 million people in the U.S.
- Physiological and behavioral changes can serve as indicators for disease progression.
- Mood and depression disease states can be assessed by real-time monitoring and analysis of patient signals.

LONG-TERM RESEARCH OBJECTIVES

- Comparison of healthy and depressed patients in empirical studies.
- Multi-signal integration and predictive analysis of mobile health technology sensor data.
- Beneficial Outcomes: Improvements in the way mental healthcare providers can diagnose and treat patients.

METHODS

