

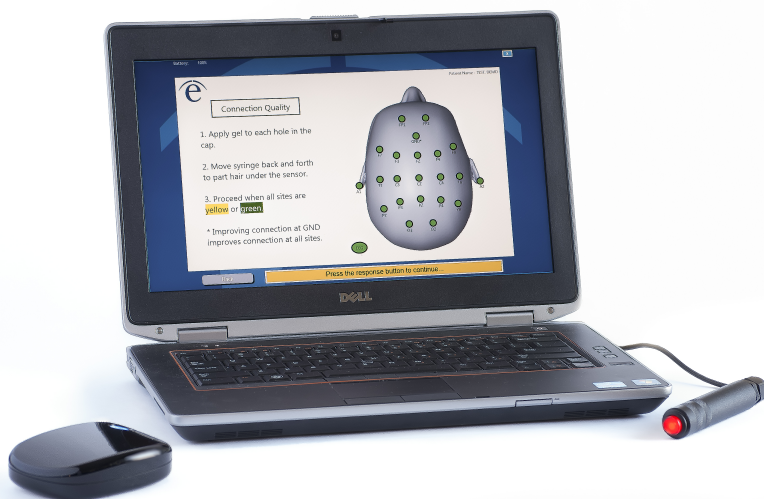
# Evoke Neuroscience aims to develop Artificial Intelligence biomarker for Alzheimer's disease diagnosis

*Evoke Neuroscience begins clinical research at Pacific Neuroscience Institute Brain Health Center to develop diagnostic digital signature of Alzheimer's disease*

NEW YORK, NY, USA, November 8, 2019 /EINPresswire.com/ -- [Evoke Neuroscience](#), a medical device company developing and commercializing technologies to aid in diagnosis of cognitive disorders, announced today initial enrollment of subjects participating in an IRB approved study to develop an Artificial Intelligence (AI) biomarker of mild cognitive impairment (MCI) and Alzheimer's disease (AD). Conducted at the Pacific Neuroscience Institute Brain Health Center ([PBHC](#)), an outpatient clinic of the Providence Saint John's Health Center in Santa Monica, CA, this study is utilizing Evoke's flagship medical device, the eVox® System.

The eVox System is commercially available and used by primary and specialty care physicians to aid in diagnosis of memory loss and other cognitive disorders such as Alzheimer's disease. In the ongoing study, eVox will be used to collect computational electroencephalography (EEG) and event-related potentials (ERP) metrics for 300 patients with cognitive impairment. Data from these patients will be used together with Evoke's existing database of over 55,000 standardized patient brain scans in order to train a novel end-to-end machine learning algorithm and develop a diagnostic digital signature of AD. The resulting AI biomarker is intended to provide rapid, sensitive, and specific diagnosis of MCI and AD in a primary care setting, thereby accelerating next-level care in disease detection and treatment planning.

"Alzheimer's represents one of the most important public health concerns to affect us in the coming decades," explains Dr. David Merrill, MD, PhD, PBHC director and geriatric psychiatrist, and study co-Principal Investigator. "Although currently no cure exists for Alzheimer's, one in



The eVox System aids in diagnosis of cognitive disorders

three cases of dementia could be prevented by addressing various lifestyle factors. But the key to prevention is recognizing brain changes related to cognitive decline as early as possible so physicians have adequate time to implement successful interventions."

As the size and proportion of the U.S. population age 65 and older continue to increase, the number of Americans with Alzheimer's or other dementias is anticipated to grow from 55 million in 2019 to 88 million by 2050. Delaying symptom onset by as little as 1 year could potentially lower AD prevalence by more than 9 million cases over the next 40 years. Thus, there is a need for sensitive and specific diagnostic tools to facilitate the early recognition of individuals at risk of dementia, who potentially can benefit from preventive interventions capable of postponing or avoiding the onset of this severe and disabling cognitive disorder.

"Our goal is to eradicate Alzheimer's disease, and the first step towards that goal is establishing a precise diagnostic algorithm for AD detection," said Dr. Morgan Ingemanson, PhD, Director of Medical Affairs at Evoke Neuroscience and study co-Principal Investigator. "We are thrilled to have begun data collection on what we anticipate to be a pivotal study in the AD digital diagnostics space. This milestone represents our continued commitment to providing the clinical community with critical tools to help diagnose patients with cognitive decline, and we are incredibly optimistic about pairing patient data collected at PBHC together with our vast existing EEG database in order to develop an AD digital signature. It has the potential to revolutionize the current gold standard in Alzheimer's diagnosis."

#### About Pacific Brain Health Center

Pacific Neuroscience Institute Brain Health Center (PBHC, [www.pacificbrainhealth.org](http://www.pacificbrainhealth.org)) is an outpatient clinic of the Providence Saint John's Health Center in Santa Monica, CA specifically focused on the diagnosis and treatment of patients with subjective cognitive impairments (SCI), mild cognitive impairment (MCI), Alzheimer's disease (AD) and other dementias. The PBHC has assembled a highly experienced team of full-time specialists, all previously esteemed researchers and clinicians from UCLA and UCSD specializing in neurology, psychiatry, cognitive psychology, neuroscience and geriatric medicine.

#### About Evoke Neuroscience

Evoke Neuroscience ([www.evokeneuroscience.com](http://www.evokeneuroscience.com)) was formed in 2009 with the mission to improve diagnosis and treatment of cognitive disorders with objective, clinically meaningful and easy-to-use products. The eVox® System is a Class II, FDA 510(k) cleared medical device that acquires objective and stable biomarkers of brain function in-office, via a non-invasive procedure in order to aid in the diagnosis of cognitive and mental disorders. Doctors should use their professional judgment in determining when the eVox® System is appropriate to aid in diagnosis.

Marinela Gombosov  
Evoke Neuroscience  
+1 9172616096  
[email us here](mailto:marinela.gombosov@evokeneuroscience.com)

---

This press release can be viewed online at: <http://www.einpresswire.com>

Disclaimer: If you have any questions regarding information in this press release please contact the company listed in the press release. Please do not contact EIN Presswire. We will be unable to assist you with your inquiry. EIN Presswire disclaims any content contained in these releases. © 1995-2019 IPD Group, Inc. All Right Reserved.