



PRESS RELEASE

McCann Health Japan
Acquired evidence for the world's first*
"Dementia prediction model using voice data from daily conversations"

(*According to McCann Health Japan research)

【Tokyo— July 29, 2021】

McCann Health Japan (McCann Health, Headquarters: Minato-ku, Tokyo, President: Junji Yokokawa) announced on July 14, 2021, that the paper jointly authored with Naoki Kondo Laboratory, Department of Social Epidemiology, Graduate School of Medicine, Kyoto University, titled, "Dementia risks identified by vocal features via telephone conversations: a novel machine learning prediction model" was published in a peer-reviewed academic journal, PLOS ONE*¹.

[Published Paper]

A. Shimoda, L. Yue, H. Hayashi, N. Kondo. Dementia risks identified by vocal features via telephone conversations: a novel machine learning prediction model. PLOS ONE. 2021;16(7):e0253988. DOI:

<https://doi.org/10.1371/journal.pone.0253988>

Previous studies have shown that early detection of signs of mild cognitive impairment (MCI), a precursor to dementia, appropriate medical consultation and cognitive training, can contribute to reducing the progression of the dementia and recover cognitive functions*². As a new approach to dementia prevention in an aging society, McCann Health Japan has been working on the development of an AI-driven prediction model that detects the signs of MCI from voice data of daily telephone conversations aiming to, "Providing everyone with the opportunity to correctly detect signs of MCI."

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*1PLOS ONE is one of the world's largest open access peer-reviewed scientific journals, published by the Public Library of Science since 2006. Papers that pass internal and external peer reviews are accepted for publication regardless of perceived academic significance, as long as the research was conducted with scientific validity, strong methodology, and high ethical standards – the acceptance rate is around 50% (As of 2006). The PLOS ONE online platform also allows users to discuss and evaluate papers after publication.

*2Living a healthy life in old age without fear of dementia

Interest in healthy life expectancy is increasing day by day in the era of 100-year life, however it is estimated that the number of dementia patients in Japan will surpass 8 million by 2030. Early detection of dementia has been proven to contribute to reducing the progress of the disease¹ and in addition, a systematic review reported that cognitive function improved by about 40% when appropriate measures such as cognitive training are taken in the MCI stages, the prodromal stage of dementia, contributing to the prevention of dementia.² Identifying signs in the MCI stage is the key to long-term good health.

References.

1. B Dubois, A Padovani, P Scheltens, A Rossi, G Dell'Agnello. Timely Diagnosis for Alzheimer's Disease: A Literature Review on Benefits and Challenges. Journal of Alzheimer's Disease: 2015;49(3):617-631.
2. L Jean, M Bergaron, S Thivierge, M Simard. Cognitive Intervention Programs for Individuals With Mild Cognitive Impairment: Systematic Review of the The American Journal of Geriatric Psychiatry. 2010;18(4):281-296.

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About McCann Health:

McCann Health, three-time Network of the Year winner at Cannes Lions Health and winner of an unprecedented twelve Network of the Year titles from the industry's top five creative award shows, is one of the world's most awarded global healthcare communications networks. Through combining science, creative and strategy we strive to deliver best-in-class services to our clients. Our 1,900+ employees in 60 offices across 20 countries and 6 continents are united by one vision: to help our clients play a meaningful role for healthier lives. McCann Health, spans a range of global practices including strategic consulting, healthcare professional marketing, medical communications, consumer health and wellness, global health and specialty practices like pharmacy, payer and patient engagement. McCann Health is a part of McCann Worldgroup and the Interpublic Group (NYSE: IPG), a global leader in modern marketing solutions. McCann Health Japan with more than 150 dedicated professionals and over 20 years of experience is uniquely positioned to develop and deliver more effective communication strategies to clients by combining domestic stakeholder insights with global marketing expertise. As a result it has been awarded at Campaign Magazines Specialist Agency of the Year for the last eleven years including 9 Golds. <http://www.mccannhealth.co.jp/>

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