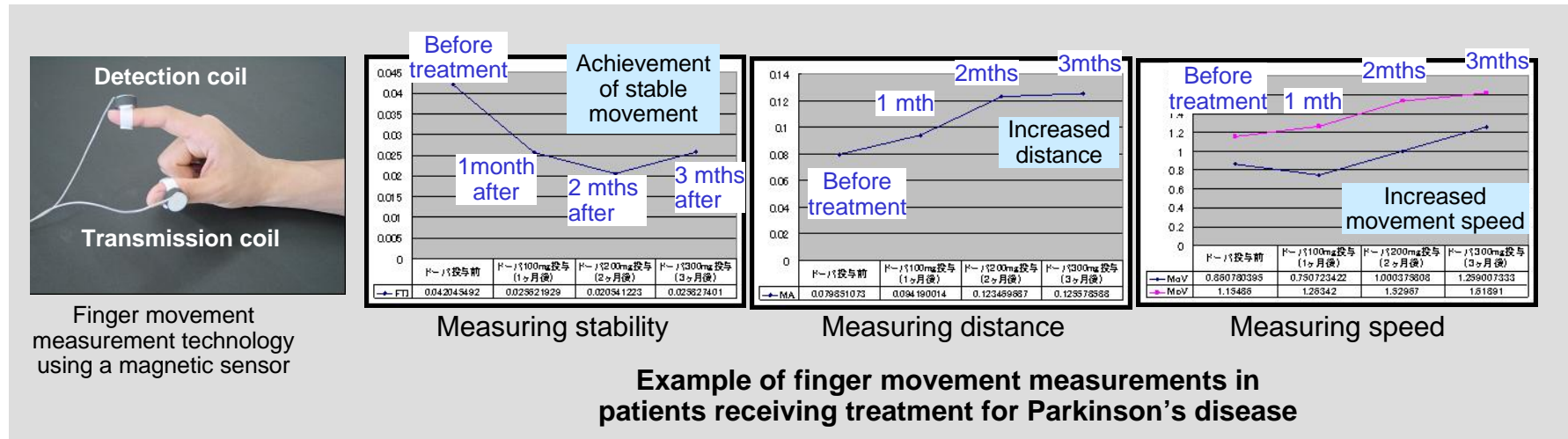


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## Quantitative assessment of drug and rehabilitation efficacy in the treatment of brain lesions - using a magnetic sensor type finger movement measurement technology-



Osaka University (President: Hideo MIYAHARA), the National Cardiovascular Center (President: Seiichi KITAMURA), and Hitachi, Ltd. (President & CEO: Kazuo FURUKAWA) announced today, the successful application of magnetic sensor-based finger movement measurement technology to the quantitative analysis of the degree of recovery in patients suffering from movement disorders resulting from brain lesions. The equipment consisting of two magnetic sensing coils, one for oscillation and the other for detection, worn on two fingers, measures the distance between the sensors to determine motor function abilities. Using this equipment, it was possible to quantitatively assess the efficacy of drug treatment on patients recovering from a cerebral lacunar infarction or with Parkinson's disease, indicating that the equipment is not only a simple and useful tool for the quantitative measurement of the degree of movement disorder, but that it may also be applied to the quantitative analysis of drug and rehabilitation treatment efficacy.

The results of this research will be presented at the 47<sup>th</sup> General Meeting of the Japanese Society of Neurology to be held from 11<sup>th</sup> to 13<sup>th</sup> May 2006, in Tokyo, Japan.