

# Dementia

## Lip Trainer: Patakara can help Dementia (Alzheimer's, Parkinson's etc.)

About 30 million people in the world were diagnosed with dementia in 2009. By 2050, this number will increase to about 100 million. Dementia is a cognitive disorder, which affects the function of the brain. More specifically, it affects the area of memory, attention, language and problem solving. As a result, symptoms can range from gradual memory loss, confusion, changes in behaviour and personality, and inability to perform basic tasks in everyday lives.

There are many types of dementia. The most common causes include **Alzheimer's disease, Parkinson's disease and vascular dementia**. One of the main causes is the degeneration of neuron in the brain resulting in loss of brain function. Current treatments for dementia patients involve consuming drugs, which slows down the effects but does not cure the condition. In addition, it is known that some patients may experience adverse side effects while consuming the drug.

Lip trainer Patakara has the advantage of being a non-invasive approach to treating Dementia. With daily use of Patakara, it was found that it could help the recovery of neuron linkages in the brain. The recovery of the linkages means that brain function is gradually improved. Numerous case studies have been performed in Japan for dementia patients. It was found that enthusiastic Dementia patients who used Lip Trainer Patakara daily showed significant improvements in their conditions including the restoration of memory and basic everyday abilities.

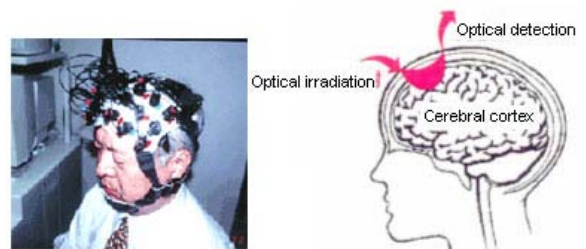
### **Mental & Physical Therapy Rehabilitation for Dementia**

The speech therapists of the Okuno hospital (Tokyo) announced, for the first time in the world that "The dementia (Alzheimer) can be improved with the Lip Trainer Patakara®". **The blood flow in the frontal lobe of the brain increases when lip exercise is done with the Lip Trainer Patakara®**

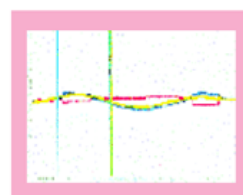
As the brain works as an energy source, it is normally found that the function of the brain is decreased in persons with Dementia and Alzheimer syndrome as the blood flow to the brain has decreased. There are four parts in the

brain, the frontal lobe, the parietal lobe, temporal lobe and the occipital lobe. It is said that from amongst these the blood flow drops first in the frontal lobe as a result of Alzheimer & Dementia.

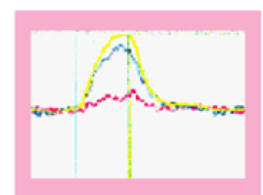
**Testing with Hitachi optical topography**  
(medical equipment which measures the situation of blood flow of the brain)



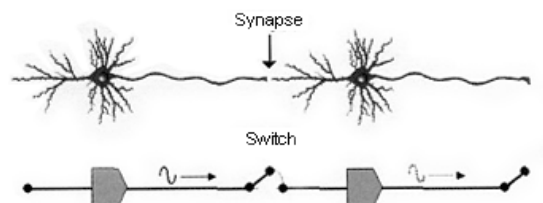
Investigation shows that there was no change in the blood flow of the brain when chewing gum. However, it was found that when Lip Trainer Patakara® was used, the blood flow of the brain increased instantaneously leading to the improvement of the Dementia/Alzheimer conditions over time. Moreover, it has been found from a survey that **there are a lot of Dementia/Alzheimer syndrome patients whose lip closure strength are weak.**



When Chewing gum



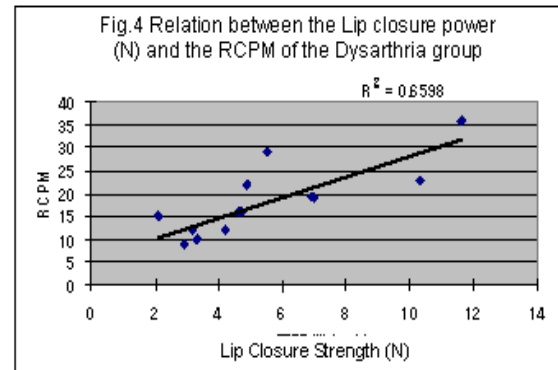
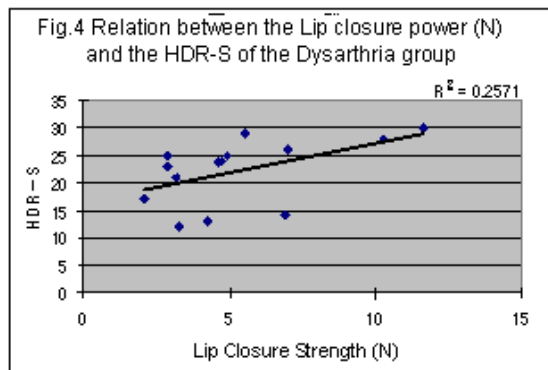
When using Lip Trainer Patakara®



The dementia/Alzheimer syndrome patients were made to train the orbicular muscles of the mouth using the Lip Trainer. Subsequently, the inspection numerical value of the Hasegawa

formula and the Raven Colored Progressive Matrices (**RCPM**) to judge the level of dementia & Alzheimer was shown in relation to the lip closure power on the transverse axis. It is clear that when

the Lip Closure Strength (**LCS**) improves, an improvement in the mental levels is observed. As a result there is an improvement in the Dementia & Alzheimer syndrome. (See charts below)



### Raven Colored Progressive Matrices (RCPM examination)

