

## **Natural Compound Benefits Nonmotor Symptoms in Parkinson Disease**

G.-S., PENG<sup>1\*</sup>, H.-Y., Chan<sup>2</sup>, J.-T., Lee<sup>1</sup>, V.-J. TSAI<sup>3</sup>, Y. NIMIT<sup>2</sup>. <sup>1</sup>Dept. Neurol., Tri-Service Gen. H.; Dept., Taipei, Taiwan, <sup>2</sup>Graduate Institute of Natural Healing Sciences, Nanhua U. Chiayi, Taiwan, and <sup>3</sup>Hololife research institute, CA, USA.

### **Abstract**

Parkinson's disease (PD) is a neurodegenerative disorder characterized by the progressive and selective degeneration of the dopaminergic neurons in the substantia nigra pars compacta (SNpc). It is not only with movement dysfunction, but also with nonmotor symptoms, such as depression, anxiety. Accumulating evidence supports the notion that neuro-inflammation is involved in the pathogenesis of PD. EASE-123 (BioNatural Labs, CA) is made from various kinds of natural plants, which consisting of chitosan, lingzhi, wheat grass, barley grass, glucosamine, grape seed, collagen, bilberry, calcium citrate, ascorbic acid, and vitamin D. The results from unpublished pilot study have shown that food supplement, EASE-123, could alleviate the withdrawal symptoms in patients of heroin or morphine addiction. Therefore, we design an open-labeled clinical trial to determine if EASE-123 acts as an auxiliary therapy to alleviate clinical symptoms in patients with PD. Ten PD patients, 5 male and 5 female, have been completed the study. All the patients have had typical clinical features and have received a complete study including brain images, such as brain MRI scans and cerebral <sup>99m</sup>Tc- TRODAT-1 SPECT images, and the recordings of UPDRS. Therefore, they were under the treatment of EASE-123 for 6 weeks and then withdrawal treatment for 2 weeks. Therefore, they were regular follow-up with the interval of 2 weeks for a total period of 8 weeks. More than half the subjects have benefits from the prolongation of on-time, the reduction of off-time and the alleviation of nonmotor symptoms. The total scores of UPDRS also significantly reduced during the treatment period when comparing to the scores of UPDRS at baseline. From our primitive data, food supplement, EASE-123, was helpful to improve clinical symptoms of PD patients, though the underlying mechanism remained unclear.