

Rehabilitation

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Editor's Note Volume 3, Issue 5

In this issue of *International Journal of Neurorehabilitation*, Zhu et al. [1] investigated potential protective effects of *Polygonum multiflorum* extracts (EPM) on SH-SY5Y cells against oxidative stress injury induced by 1-methyl-4-phenyl-pyridine (MPP). Zhu et al. demonstrated that EPM exhibits significant protective effects on SH-SY5Y cells against damage induced by MPP. Researchers propose that the protective mechanism of EPM against MPP may be related to enhancement of mitochondrial function, resistance to oxidative stressors, or down regulation of apoptotic proteins p-JNK and caspase-3.

Smychek [2] reviewed approaches to medical rehabilitation in cerebral stroke patients. The author concluded that rehabilitation of stroke patients should be based upon principles such as succession, continuity, early beginning, complexity, stage-by-stage approach, individualized approach and active participation of patient in the rehabilitation process. Furthermore, Smychek indicated that rehabilitation programs should be guided based on the severity of the stroke, time passed after the stroke, individualized features of the patient, as well as the location or setting of the rehabilitation therapy.

Wang et al. [3] studied the influence of two types of motion, dance and Tai Chi, on knee joint proprioception and analyse the different ways in which physical exercise affects body proprioception. They concluded that compared to Latin dance exercise, Tai Chi exercise can improve both position sense and force sense to improve knee joint control ability and increase body balance to prevent injury in athletes and falls in the elderly.

Thus, the current issue of *International Journal of Neurorehabilitation* engages the neurorehabilitation community with a diverse array of disciplines and informative conclusions for bench-side and bed-side professionals.

References

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Received November 07, 2016; Accepted November 09, 2016; Published November 16, 2016

Citation: Cuoco J (2016) Rehabilitation. *Int J Neurorehabilitation* 3: e128. doi: [10.4172/2376-0281.1000e128](https://doi.org/10.4172/2376-0281.1000e128)

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