Special Issue

Evaluation and Management of Movement Disorder

Message from the Guest Editor

Movement disorders are caused not only by motor system impairments per se, but also by cognitive disorders and psychiatric diseases. For the management of movement disorders, both bottom-up and top-down approaches are investigated, including physical activities inducing motor learning, non-invasive brain stimulation, functional neuromuscular stimulation, botulinum toxin injection, intrathecal baclofen infusion, orthotic devices, robotic training, and multisensory feedback such as virtual reality. However, because of insufficient knowledge on the specific mechanisms of these interventions, combining with large interindividual variations in pathophysiological conditions and therapeutic responses, it is still difficult to determine the individualized treatment for each patient with movement disorders. Thus, the scope of this Special Issue ranges from body function to interpersonal interaction and from neuroscience and rehabilitation medicine to biomedical engineering, aiming to inspire new ideas to ameliorate movement disorders based upon comprehensive understanding of patients' pain points due to the disorder.

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