Special Issue

Trends in Clinical Deep Brain Stimulation

Message from the Guest Editors

To date, Deep Brain Stimulation is considered standard care in patients with movement disorders. The number of clinical indications in which Deep Brain Stimulation therapy is applied, keeps expanding. Exploring new indications remains challenging. Controlled trials are compulsory to proof safety and efficacy. Experimental studies are required to understand mechanisms of action. Technical advances are evolving rapidly, not only Deep Brain Stimulation devices and software are improving, also pre- and intraoperative imaging and electrophysiology techniques are being refined. This has resulted in the use of a variety of devices, imaging modalities and intraoperative assessments. Outcome of Deep Brain Stimulation therapy strongly depends on correct patient selection. Novel machine learning tools have the potential to assist clinicians to predict outcome more accurately. This Special Issue of the Journal of Clinical Medicine will provide the current trends in clinical Deep Brain Stimulation.

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