Applications of Neuromodulation on Pain and Motor Learning

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Message from the Guest Editors

Neuromodulation is a slightly specific term coined in the 1960s which refers to techniques that aim to improve the signs and symptoms of patients by stimulating or inhibiting both the central and peripheral nervous systems. According to the International Neuromodulation Society, neuromodulation today employs advanced medical device technologies to enhance or suppress activity of the nervous system for the treatment of disease. These technologies include implantable as well as non-implantable devices that deliver electrical, chemical or other agents to reversibly modify brain and nerve cell activity. There are several possibilities to apply neuromodulation, and its devices are the fastest-growing segment of the overall medical device industry. The number of novel neuromodulation devices approved by the FDA grew 35% in 2007. Therefore, it seems pertinent to collect information on this current topic. The objective of this Special Issue is to bring together high-quality clinical articles and recent reviews that can provide further support to the use of these therapies both to reduce pain (especially chronic pain) and to improve motor re-learning.

Special Issue

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Message from the Editor-in-Chief

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