Behavioural Neurology

Hindawi

Special Issue on

Cognitive Neurorehabilitation in Acquired Neurological Brain Injury

CALL FOR PAPERS

A wealth of empirical research has investigated the behavioural and cognitive consequences associated with acquired neurological brain injury, but relatively less rigorous research has been devoted to investigating their rehabilitation. The main objective of any rehabilitation intervention is to maximize functional recovery and independence, reinstate employment, achieve financial productivity, and improve overall quality of life. Cognitive neurorehabilitation or cognitive rehabilitation (CR) is a therapeutic approach aiming to improve cognitive functioning, such as attention, learning and memory, affect and expression, problem solving abilities, and executive function. It includes an assembly of methods which attempt to retrain (restore), lost functions, or previously established behavioral patterns, with an emphasis in training activities within everyday contexts. Alternatively, compensatory (adaptive) strategies may be taught and applied by the patient or others in order to circumvent their limitations. Addressing the psychological impact and consequences of the brain injury and establishing individual variability patterns are also considered important factors in achieving optimal functional capacity. Despite reports on the positive impact of CR in most forms of acquired brain injury, the benefits reported are mostly short term and do not generalize to everyday contexts. Moreover, systematic reviews generally conclude that efficacy of CR in acquired brain injury, whether of a progressive or nonprogressive nature, is uncertain, requiring large, high quality trials, with ecologically valid outcome measures. In this respect, this special issue aims at compiling the latest research and advances in the rehabilitation of adults with cognitive, behavioural, or emotional difficulties or disorders resulting from stroke, traumatic brain injury, or progressive neurological conditions, specifically mild cognitive impairment, or various types of dementia (e.g., Parkinson's Disease Dementia). We invite authors to submit original empirical research and well-designed systematic review articles presenting their latest research and developments in this growing field. We further encourage authors to provide research papers exploring the impact and implementation of their clinical findings and outcomes into everyday clinical practice.

Potential topics include but are not limited to the following:

- Cognitive reserve, brain reserve, neuroplasticity, and cognitive neurorehabilitation
- Cognitive rehabilitation in patients with severe acquired brain injuries
- Aging, neuroplasticity, and cognitive neurorehabilitation
- Randomized control trials investigating the efficacy of cognitive neurorehabilitation in patients with acquired neurological injury and outcomes of interventions into everyday clinical practice
- Systematic reviews and metanalyses investigating the efficacy of cognitive neurorehabilitation
- Randomized control trials investigating the efficacy of noninvasive brain stimulation TMS or cTBS for cognitive rehabilitation (CR) or combined CR with noninvasive brain stimulation
- Ecological validity of cognitive assessment tools as applied in rehabilitation settings
- Technology and cognitive neurorehabilitation
- Psychological, behavioural, and social dimensions of cognitive neurorehabilitation
- Future of cognitive neurorehabilitation

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/bn/cnanb/.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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