

NEUROMODULATION BY NON-INVASIVE METHODS IN NEUROREHABILITATION - NON-PHARMACOLOGICAL STRATEGY

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A great proportion of efforts in neurorehabilitation in the subacute phase after brain damage is devoted to facilitate plastic changes in the CNS in the direction of functional recovery and repair.

Neuromodulation is the broadest possible general umbrella term to summarize a plethora of different approaches which is coming into widespread use but often only loosely defined.

The lecture will give a critical review on the usefulness of this concept and address the following techniques in more detail:

Training techniques

Pharmacological approaches

Peripheral stimulation and blocking

Transcranial magnetic and DC stimulation

An attempt for a reasonable unitary concept formation will be presented.