

AOMI+ - Novel combined Intervention using Action Observation, Motor Imagery and peripheral Nerve Stimulation in Stroke Patients with limited Dexterity – Effect and Feasibility

Trial registration number:	2022-00815
Duration:	August 2022 until April 2023
Status:	Ongoing
Contributor:	Dr. Frank Behrendt
External collaborator:	Sarina Seitz, Zurich University of Applied Sciences
Contact:	f.behrendt@reha-rhf.ch
Funding:	No external funding
Publication:	The results of the study will possibly be summarised in a manuscript for publication.
Short summary:	<p>Action observation (AO) and Motor Imagery (MI) are often used in rehabilitation after stroke. It has been shown that AO and MI can stimulate the same areas of the brain as active performance of the same movement. AO and MI in combination with peripheral nerve Stimulation (PNS) could improve brain activation in healthy individuals. AO, MI and PNS in combination lead to increased brain activation compared to AO or MI alone in healthy individuals.</p> <p>The aims of this pilot study are to assess the possible effect of a one-time intervention consisting of AO, MI and PNS in stroke patients, and to test the participants' acceptance of the intervention. 15-20 patients after stroke are included in the study. Function of the affected hand will be measured before and after intervention with the Box-and-Block Test, the Finger-Tapping Test and Finger Strength Measurement. To test the acceptability, the Acceptability of Intervention Measure-Questionnaire will be used after the intervention.</p>