

7<sup>th</sup> World Congress on

# PHYSICAL MEDICINE AND REHABILITATION

May 18-19, 2018 Osaka, Japan



## Marcos Maldonado Diaz

*Clínica Alemana Santiago, Chile*

### Intervention strategies for patients with acquired brain injury considering the motor learning pathways available

Despite the variety of motor learning tools that we find for the physiotherapy treatment of patients who have suffered an acquired brain injury, we do not necessarily use the most optimal learning paths considering each case. The virtual reality programs that are currently being incorporated use the principles of motor learning, through visual, auditory and verbal stimuli and provide quantitative information on the motor performance of patients according to parameters such as intensity, frequency and time, parameters that we do not necessarily consider in our therapeutic decisions. Many times, we work with the best-known ways of learning and do not incorporate alternative ways that could lead to the achievement of the patient's goals. If we do not know how to program our routines with a technical perspective, we will have difficulties in incorporating technology into our services, affecting patient learning in an optimal way. Four clinical conditions were analyzed and the best learning routes were proposed according to the analysis of the affected memory processes and the most appropriate conditions of practice were suggested. We chose four types of conditions that are not generally considered in systematic studies. These are expressive aphasia, comprehensive aphasia, executive disorders and agnosias. The evidence existing in the last 5 years regarding the therapeutic management of these tables and the measurement of their progression was compared and compared with the use of motor learning principles. A guide was designed for the therapist that allows choosing the most precise pathways of practice using the principles of motor learning.

### Biography

Marcos Maldonado Diaz is currently part of the Neurorehabilitation team of Clinica Alemana de Santiago and is a Professor at the Universidad de Los Andes. He also participates as a Deputy of the Magister in Neurorehabilitation of the Andres Bello University. He has completed his Diploma in Health Management and Research Methodology. He has published 3 papers in the *Chilean Kinesiology Journal* and one in *Neurorehabilitation and Neural Repair*.

[marcosmaldonado.k@gmail.com](mailto:marcosmaldonado.k@gmail.com)