



Current neurorehabilitation approaches support the application of functional tasks compared to performing systematic training based on isolated movements.

"[Gloreha] may improve not only visuospatial exploration and attention but also speed to execute gross movement of the arm, hand and fingers, as well as fingertip dexterity in stroke patients".

V. Varalta - J Neuroeng Rehabil. 2014 Dec 5

"A program of robot assisted movements had the advantage of decreasing oedema after just one week of treatment (...). This result could have important consequences on the clinical approaches because a decreased swelling in paretic hand brings a higher possibility to avoid the pain, stiffness (...) and disuse of the hand".

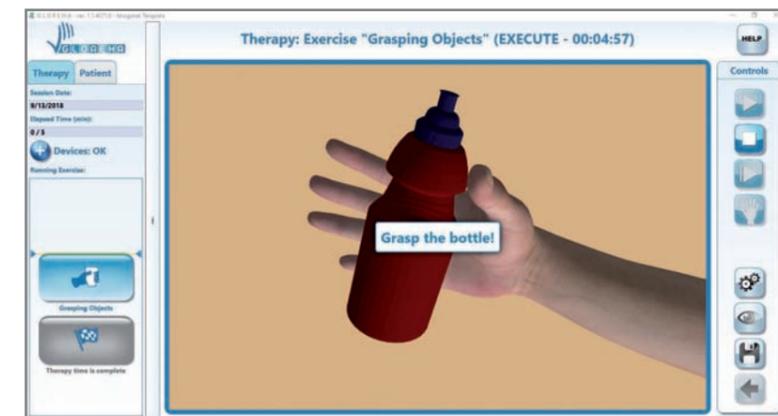
M.G. Montecchi - Int J Phys Ther Rehab 2016, 2: 114

FUNCTIONAL EXERCISES

The aim of every rehabilitation program is to re-educate the patient in the use of the hand and the whole upper limb during the Activities of Daily Living (ADLs). Encouraging the interaction with real objects is among the main goals of the rehabilitation glove

and the software.

Through functional exercises, the movements of the fingers and upper limb are contextualized, encouraging the patient not to think of a movement end in itself, but rather as an action with a final purpose.



- Several motor tasks can be trained: fist grasp, digital pinch, tridigital pinch, bilateral grasp
- The palm is free: the glove allows tactile sensations when taking objects
- The weight of the arm is compensated: the dynamic support favors reaching exercises
- The exercise can be guided also through customizable vocal instructions
- The movement can be carried out entirely by the rehabilitation glove or by the active participation of the patient
- All the rehabilitation modalities (bilateral therapies, interactive games, passive mobilization, and active-assisted mobilization) can be performed in functional terms
- The device can support occupational therapy activities. Objects of daily life with different shapes and sizes can be added to re-educate the patient to the functional gesture through motivating exercises of increasing complexity.

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