



Aplicación de la alta tecnología en lesiones neurológicas para el proceso de rehabilitación [

2020

text (article)

Analítica

Neurological disorders have affected millions of people in the world, because nervous system integrates sensorial perceptual abilities, consciousness, cognition, learning, language and motor control. It is necessary to carry out studies that determine the applicability of high technology in neurological injuries for the rehabilitation process. Objective: Identify the main applications of high technology in patients with neurological disorders. Method: The research included 130 articles, 59 met the inclusion criteria so a scientific literature search process was carried out in PubMed, Central Cochrane Registry of Controlled Clinical Trials - CENTRAL, LILACS, Scielo, as well as, in the virtual libraries, ScienceDirect, ProQuest, SpringerLink, BioMed Central, Occupational Therapy Systematic Evaluation of Evidence (OTSEEKER), Physiotherapy Evidence Database (PEDro), searches was carried out in the period November 25, 2018 to April 25, 2019. Results: There are different intervention strategies mediated by high technology around motor function $P < .01$, activity scales $P < .01$ for MAS, MFT and WMFT-ability, and $P < .05$ WMFT-time, showing different evolutionary patterns in measurements of function and activity, which determines clear benefits related to training assisted by robotic devices and virtual reality. Conclusion: It is necessary to highlight that the implementation of high technology in rehabilitation has demonstrated an outstanding level of effectiveness in the functional capacity of subjects with neurological injury, chosen as a strategy that allows to expand the social participation of people with disabilities in cultural areas, recreational, sports among others

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Título: Aplicación de la alta tecnología en lesiones neurológicas para el proceso de rehabilitación electronic resource]

Editorial: 2020

Tipo Audiovisual: Alta tecnología rehabilitación lesión neurológica High technology rehabilitation neurological injury

Documento fuente: fisioGlía: revista de divulgación en Fisioterapia, ISSN 2340-6151, Vol. 7, Nº. 3, 2020, pags. 61-65

Nota general: application/pdf

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Lengua: Spanish

Enlace a fuente de información: fisioGlía: revista de divulgación en Fisioterapia, ISSN 2340-6151, Vol. 7, Nº. 3, 2020, pags. 61-65

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