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DOES NEUROMUSCULAR TAPING INFLUENCE HAND KINESIOLOGY? A PILOT STUDY ON DOWN'S SYNDROME.

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Abstract

This paper is a first attempt analysis of hand and upper limb proprioception coordination induced by NeuroMuscular Taping (NMT): application in a group of 5 participants with Down syndrome. The participants underwent a drawing test with motion capture system acquisition before and after NMT application. Specific and descriptive parameters were computed and analysed in order to quantify the differences.

Results showed statistical differences between pre and post treatment sessions: the 5 participants with Down syndrome evidenced more reliance on proprioceptive signals in the post treatment session during the execution of the specific writing tasks. Based on the hypothesis that modifications in proprioception should alter motor pathway mapping of the motor cortex, NeuroMuscular taping may play a role in the treatment

Evidence

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NeuroMuscular Taping Institute is an activity of Savà rehabilitation LINK.



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of dysgraphia and improving hand coordination following CNS impairment, even though a small treatment group was chosen for this pilot study the results lead to further discussions concerning the role of different afferent signals in a pathological context.

Key words: Down syndrome; Dysgraphia; Neuromuscular taping; Proprioception; Writing skills

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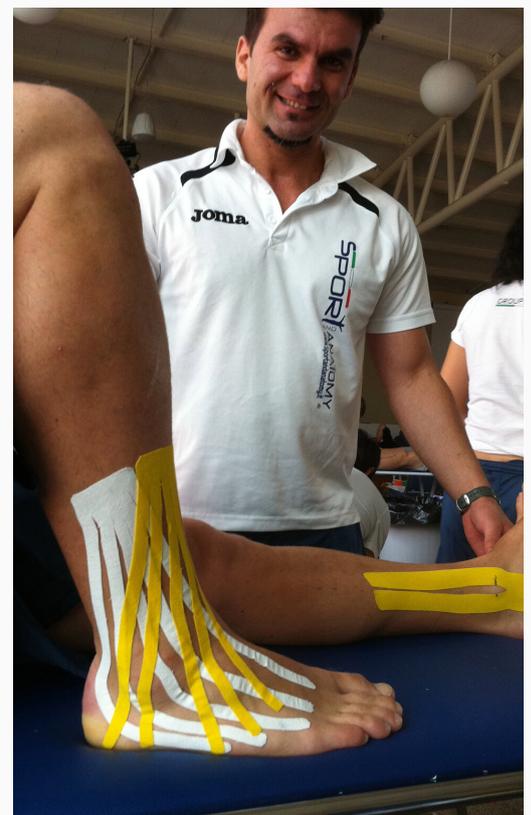


Evidence Based Research and Clinical Effectiveness

Research and Clinical Effectiveness

The Research & Development aspect of the NMT institute is based upon the creation of clinical experiences and controlled treatment trials leading to research projects that eventually modify how we treat our patients. A good idea is not enough – it has to be substantiated using correct and precise treatment methodology.

The EB selection of clinical papers is an international open access to all areas in medicine and rehabilitation that underline possible advances in basic and advanced clinical medical research. Our objective is to create a platform for sharing correct NMT treatment methodology and result reciprocity which is the basis to all “good quality” evidence based research and clinical trials. This ongoing NeuroMuscular Taping EB selection newsletter will present research articles, reviews, short communications, patient testimonials and case reports which have been published and available from independent sources. Authors and trained NMT specialists are encouraged to publish their personal experience. Only through your personal effort to share your consolidated and sometimes experimental results you are able to positively influence “how we treat our patients” and to increase our understanding of fundamental principles in the treatment and rehabilitation progression.



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Regards, David Blow



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The NMT Institute's goal is to improve patients' overall treatment results and quality of life by using our treatment protocols to maximize patients' rehabilitation time, reduce pain, and enable patients to achieve active and healthy lifestyles. The comprehensive medical rehabilitation education program maintains high quality standards that will guide medical and rehabilitation staff in gaining new treatment skills to improve short and long-term rehabilitative care.

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