



EBM NEWSLETTER

3/2019



Evidence Based 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.

PROFESSIONAL TRAINING IN HEALTH CARE

All training courses in the medical and health area of the NeuroMuscular Taping Institute are certified by Continuing Education Credits in the country where they are held.

NeuroMuscular Taping Institute is an activity of Savà rehabilitation LINK.



CONTACT

Tel: +39 06 3611685

Cell: +39 3387773912

Via Gavinana 2, ROME, ITALY

Email: david.blow@nmtinstitute.org

www.neuromusculartaping.com

www.tapingneuromuscolare.eu

www.nmtinstitute.asia

NEUROMUSCULAR TAPING ENHANCES HAND FUNCTION IN PATIENTS WITH SYSTEMIC SCLEROSIS: A PILOT STUDY

Authors

S. Parisi 1, C. Celletti 2, M. Scarati 1, M. Priora 1, A. Laganà 1, C. L. Peroni 1, F. Camerota 2, G. La Torre 3, D. Blow 4, E. Fusaro 1

1. Rheumatology Unit, Azienda Ospedaliera Città della Salute e della Scienza di Torino, Turin;
2. Physical Medicine and Rehabilitation Division, Umberto I Hospital, Rome;
3. Department of Public Health and Infectious Diseases, "Sapienza" University of Rome, Rome;
4. NeuroMuscular Taping Institute, Rome, Italy

Clin Ter 2017; 168(6):e371-375. doi: 10.7417/CT.2017.2036

ABSTRACT

Hand functioning is often impaired in patients with Systemic sclerosis. Neuromuscular Taping is a novel application of tape able to improve functioning. The aim of this study was to evaluate the possible role of this application in the hand functionality of patients with Systemic sclerosis. Women with a diagnosis of SSc has been recruited and evaluated using different scales before and immediately after NMT application and after one, three and six months.



Fifty-three women has been evaluated and Cochin Hand Functional Disability scale, Hand Mobility in Sclerodermia, Modified Modified Rodnan Skin Score and Dreiser Algo – Functional Index scores showed statistical significant differences during all the period; moreover a reduction of pain and Raynaud Phenomenon’s and an improvement of finger flexion has been observed. Application of NMT in patients with Systemic sclerosis have showed beneficial effect and future studies are needed to confirm these results.

Format: Abstract -

Full text links

See 1 citation found by title matching your search:

Clin.Ter. 2017 Nov-Dec;168(6):e371-e375. doi: 10.7417/T.2017.2036.

Neuromuscular taping enhances hand function in patients with systemic sclerosis: a pilot study.

Parisi S¹, Celletti C², Scarati M¹, Priora M¹, Laganà A¹, Peroni CL¹, Camerota F², La Torre G³, Blow D⁴, Fusaro E¹.

Author information

Abstract

Hand functioning is often impaired in patients with Systemic sclerosis. Neuromuscular Taping is a novel application of tape able to improve functioning. The aim of this study was to evaluate the possible role of this application in the hand functionality of patients with Systemic sclerosis. Women with a diagnosis of SSc has been recruited and evaluated using different scales before and immediately after NMT application and after one, three and six months. Fifty-three women has been evaluated and Cochin Hand Functional Disability scale, Hand Mobility in Sclerodermia, Modified Rodnan Skin Score and Dreiser Algo - Functional Index scores showed statistical significant differences during all the period; moreover a reduction of pain and Raynaud Phenomenon's and an improvement of finger flexion has been observed. Application of NMT in patients with Systemic sclerosis have showed beneficial effect and future studies are needed to confirm these results.

Results

Fifty-three women has been recruited in the study; the baseline characteristics are described in table 1. The functional score used to assess the hand mobility and functionality showed statistical significant differences comparing the baseline and the follow up evaluation during all the period. Except for the CHFDS the other scale showed a non-statistically difference between the pretreatment evaluation and the score after six months; clinical evaluation score (Vas score, flexion and number of Raynaud phenomena) showed statistically significant differences among all the period; a non-significant difference occurred only between number of Raynaud phenomena pretreatment and at six months after evaluation. All the results are in Table 2. Box plot diagram of the all scale are illustrated in Figure 1. No adverse phenomena has been described from participants.

Key words: Hand function, Neuromuscular Taping, Rehabilitation, Systemic sclerosis

READ MORE

Table 2. Results of the scale applied. In bold significant value (p<0.05)

	T0	T1	T2	T3	T4	p T0/T4	PT4-T0	PT1-T0
CHFDS	34 (30-38)	19 (15-24)	23 (21-26)	27 (24-32)	31 (27-39)	0,000	0,000	0,000
MRSS	15,0 (13-19)	10 (8-14)	13 (10-15)	15 (12-17)	15 (13-19)	0,000	0,31	0,000
HAMIS	12 (10-17)	7 (5-10)	9 (8-12)	10 (8-14)	12 (9-16)	0,000	0,31	0,000
IAFD	21 (18-29)	13 (11-16)	15 (14-17)	19 (16-21)	21 (19-25)	0,000	0,18	0,000
VAS	60,6 (40,4-77,5)	10,6 (6,2-20,5)	20,2 (11,5-32,9)	36,8 (24,2-48,1)	53,7 (41,5-62,5)	0,000	0,000	0,000
Flexion (degree)	38,2 (28,2-50,2)	90,3 (77,3-108,3)	82,3 (69,4-93,2)	57,7 (48,2-69,8)	42,3 (37,1-49,5)	0,000	0,000	0,000
Raynaud Phenomenon	5,15 (3,84-7,34)	1,65 (0,76-3,54)	2,10 (1,43-4,44)	3,22 (2,54-5,97)	5,1 (3,88-6,83)	0,000	0,32	0,000



ADVANCED TRAINING IN MEDICAL AND REHABILITATION AREAS

Rehabilitation specific Research Projects. The NMT Institute is committed to creating innovative and continuous training programs to help medical treatment rehabilitation services offer the best therapy possible and offer increasingly updated therapy.

The goal of the NMT Institute is to improve the overall results of patients' rehabilitation treatment and their quality of life by using standardized therapeutic protocols. The use of the technique allows you to reduce both pain and recovery times so that patients can quickly achieve psycho-motor health and well-being.

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.

The NMT Volunteer Projects has the overall objective of breaking the vicious circle of poverty/disability, which is established in not only third world countries but in all countries, through protocols and research programs intended for local specialists who operate in the area.

HELP US TO SHARE YOUR NMT KNOW-HOW TO OTHERS



VOLUNTEER TRAINING PROJECTS ARE ORGANISED IN VARIOUS DEVELOPING COUNTRIES THAT OFFER SPECIFIC NMT KNOW-HOW FOR ORTHOPEDIC AND NEUROLOGICAL REHABILITATION

If you are in the NMT training, photo, tag yourself and follow us on the dedicated album on Facebook.

Your group photo is not there?

Share it or send it to us by email!

