

Immediate effect of ultrasound and ischaemic compression techniques for the treatment of trapezius myofascial trigger points in patients with neck pain: A randomized controlled study.

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The treatment of Myofascial Trigger Points (MTrPs) in the trapezius muscle with ischaemic compression and ultrasound originated a short-term improvement of cervical mobility, relaxation of trapezius, and reduction of its sensitivity in patients with...

Ethische beoordeling	Positief advies
Status	Werving gestopt
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON24474

Bron

Nationaal Trial Register

Verkorte titel

Myofascial Pain Syndrome, Myofascial Trigger Points, Musculoskeletal Manipulations, Ultrasonic Therapies, Pain Measurement

Aandoening

Neck pain

Ondersteuning

Primaire sponsor: CEU-Cardenal Herrera University

Overige ondersteuning: No funding source

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1. Active range of motion of cervical rachis (lateral flexion), measured with a cervical range of motion instrument;

2. Basal electrical activity of trapezius muscle, measured using a surface electromyography;

3. Pressure Tolerance, using a pressure analog algometer. A pressure of 2.5 kg/cm² will be applied on myofascial trigger point. A visual analog scale will record the sensation the subject perceived in that moment.

Toelichting onderzoek

Achtergrond van het onderzoek

The purpose of this study was to determine immediate effects of ischemic compression (IC) and ultrasound (US) for the treatment of myofascial trigger points (MTrPs) in the trapezius muscle in patients with neck pain.

Subjects will be randomly distributed into three groups G1, will receive IC treatment for MTrPs; G2, will receive US; and G3 (control), will receive sham US. The following data will be recorded before and after each treatment: active range of motion (AROM) of cervical rachis measured with a cervical range of motion instrument, basal electrical activity (BEA) of muscle trapezius measured with surface electromyography, and pressure tolerance of MTrP measured with visual analogue scale assessing local pain evoked by the application of 2.5 kg/cm² of pressure using a pressure analog algometer.

Doel van het onderzoek

The treatment of Myofascial Trigger Points (MTrPs) in the trapezius muscle with ischaemic compression and ultrasound originated a short-term improvement of cervical mobility, relaxation of trapezius, and reduction of its sensitivity in patients with neck pain.

Onderzoeksopzet

Immediate.

Onderzoeksproduct en/of interventie

Ultrasound and ischaemic compression techniques. There are three groups:

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1. G1, which will receive ischemic compression on myofascial trigger point;
2. G2, which will receive ultrasound;
3. G3 (control), which receive sham ultrasound (the ultrasound is disconnected).

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. 25-65 age;
2. Neck pain.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Analgesic usage within the previous 24 hours;
2. Fail to identify MTrPs of the trapezius clearly;

3. History of cervical surgery;
4. Having undergone myofascial pain treatment within the previous month to the study;
5. History of cervical whiplash.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Dubbelblind
Controle:	Placebo

Deelname

Nederland	
Status:	Werving gestopt
(Verwachte) startdatum:	06-11-2009
Aantal proefpersonen:	66
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies	
Datum:	30-10-2009
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL1984
NTR-old	NTR2101
Ander register	Ethical Committee of the Research Commission of CEU-Cardenal Herrera University : 69 (09 nov 2009)
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

Montañez et al, IMMEDIATE EFFECT OF ULTRASOUND AND ISCHEMIC COMPRESSION TECHNIQUES FOR THE TREATMENT OF TRAPEZIUS LATENT MYOFASCIAL TRIGGER POINTS IN HEALTHY SUBJECTS: A RANDOMIZED CONTROLLED STUDY. J Manipulative Physiol Ther 2009;32:515-520.