Needling versus Radial Shockwave therapy in Calcific Tendinitis of the shoulder; a prospective randomised trial

Published: 13-03-2009 Last updated: 06-05-2024

Purpose of this investigation is to establish which one of both treatments is most effective in resorption of the calcific deposit in the tendon and diminishing pain.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Tendon, ligament and cartilage disorders
Study type	Interventional

Summary

ID

NL-OMON33563

Source ToetsingOnline

Brief title Needling vs Rswt in Calcific Tendinitis of the shoulder

Condition

• Tendon, ligament and cartilage disorders

Synonym Calcific tendinitis

Research involving Human

Sponsors and support

Primary sponsor: HagaZiekenhuis

Source(s) of monetary or material Support: Financiering via Nederlands Reumafonds wordt aangevraagd / betaling uit eigen onderzoeksfonds

Intervention

Keyword: Calcific, Needling, RSWT, Shoulder

Outcome measures

Primary outcome

Disapearance/ resorption of calcification in the rotator cuff muscles as seen

on standard shoulder x-ray.

Secondary outcome

Effect on pain and function, using VAS, Constant and Oxford shoulder score.

Study description

Background summary

Calcific tendinitis of the shoulder is a self-limiting disease of unknown origin in which calcium deposits are formed in the rotator cuff muscles. Most important symptoms are the deposition of a calcification in the tendon of the rotator cuff, pain and loss of function.

Needling and Radial Shockwave Therapy are both established treatments of calcific tendinitis, with well discribed effect on pain and resorption of the calcific deposit.

Which of these two is the better treatment is not known so far.

Ther are no studies which compare these to methods of treatment.

Study objective

Purpose of this investigation is to establish which one of both treatments is most effective in resorption of the calcific deposit in the tendon and diminishing pain.

Study design

Prospective (open) randomised controlled trial (RCT).

Intervention

Needling or Radial Shockwave therapy.

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Study burden and risks

Needling: 15 minutes of treatment under local anaesthesia with lidocaine. At the end of the procedure, a deposit of corticosteroids is left behind.

RSWT: 4 sessions of 2500 impulses with an interval of a week: 500 x 1.5 Bar at 4.5 Hz followed by 2000 x 2.5 Bar op 10 Hz. Efd 0.10 mJ/ mm. Impuls time 2 ms

Contacts

Public HagaZiekenhuis

Sportlaan 600 2566 MJ Den Haag Nederland **Scientific** HagaZiekenhuis

Sportlaan 600 2566 MJ Den Haag Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

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Pain shoulder Calcification rotator cuff type I or II according to Gartner and Simons/ type I according to Patte and Goutallier Symptoms > 6 months VAS > 4 cm at time of evaluation failure of previous conservative treatments

Exclusion criteria

Non dutch speaking Minor no informed consent rotator cuff tear, glenohumeral or acromioclavicular arthritis or acromioclavicular spur to rule out alternative explanations for the pain Pregnancy Implanted pacemaker Blood coagulation disorders or use of anticoagulant drugs; Inflammatory or neoplastic disorders Presence of type III (cloudy and transparent) calcifications according to the Gartner and Simons radiographic classification/type II according to Patte and Goutallier Conservative treatments administered in the last 2 weeks Participation in other medical trial

Study design

Design

Study type: Interventional	
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Treatment

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-08-2009
Enrollment:	40
Туре:	Actual

Medical products/devices used

Generic name:	Radial Shockwave Therapy
Registration:	Yes - CE intended use

Ethics review

Approved WMO Date: Application type: Review commission:

13-03-2009 First submission METC Leiden-Den Haag-Delft (Leiden) metc-ldd@lumc.nl

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register CCMO ID NL24917.098.08