Influence of a single dose of fluoxetine on muscle activation patterns and functional ability in chronic stroke patients.

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON28567

Source
NTR

Brief title
N/A

Health condition

Chronic (>6months) ischemic stroke.

Sponsors and support

Primary sponsor: M.J. IJzerman
PO Box 310
7500 AH Enschede,
The Netherlands
Tel: (+31)534875700
Fax: (+31)534340849
m.ijzerman@rrd.nl
Source(s) of monetary or material Support: This study was supported in part by Euregio; INTERREG III-A-program.

Intervention

Outcome measures

Primary outcome

Muscle activation patterns, measured by EMG.

Secondary outcome

Grip strength, Motricity Index, Delay times.

Study description

Background summary

By conducting a cross-over, placebo-controlled study with 10 chronic stroke patients, it was found that a single dose of fluoxetine does non-selectively increase muscle activation of the upper limb in these patients. Although no equivalent effects were found for fluoxetine on motor function.

Study objective

A single dose of fluoxetine influences muscle activation patterns and functional ability of the muscles in the lower part of the upper extremity in chronic stroke patients.

Study design

N/A

Intervention

Single administration of 20 mg of fluoxetine, or placebo.

Contacts

Public
Roessingh Research and Development
Rehabilitation Centre
P.O. Box 310

H.I. Genderen, van
Roessingbleekweg 33B

Enschede 7500 AH
The Netherlands
+31 (0)53 4875765
Scientific
Roessingh Research and Development
Rehabilitation Centre
P.O. Box 310
H.I. Genderen, van
Roessingbleekweg 33B

Enschede 7500 AH
The Netherlands
+31 (0)53 4875765

Eligibility criteria

Inclusion criteria

The participating patients suffered a single ischemic stroke (confirmed by CT-scan or MRI-scan) more than six months before the start of the trial, they were over 18 years of age. Furthermore, they were able to perform some selective movements with the paretic wrist (MRC 2). And were able to follow the intructions they were given.

Exclusion criteria

1. Patients suffering from an other neurological disease;

2. Uncompensated hemineglect or cognitive disabilities, resulting in misunderstanding or incapability of executing instructions given;

3. Epilepsy, or first epileptic insult poststroke;
4. Patients with first grade relatives suffering epilepsy;

5. Pregnancy;

6. Pacemaker;

7. State after irritation or lesion of median nerve;

8. Implanted pumps to administer medicines;

9. Metal parts inside the head;

10. Cerebral aneurysm-clips (metal inside);

11. Uncontrolled medical problems;
12. Alcoholism or drug-use;

13. Pathological heart rhythm disorders;
14. Raised intracerebral pressure (hydrocephalus);

15. External catheter.

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Placebo

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	11-03-2004
Enrollment:	10
Type:	Actual

Ethics review

Positive opinion

Date:	05-09-2005
Application type:	First submission

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	ID
NTR-new	NL183
NTR-old	NTR220
Other	: N/A
ISRCTN	ISRCTN88489864

Study results

Summary results
N/A