VR during experimental pain

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON20465

Source
Nationaal Trial Register

Health condition

Experimental pain - Experimentele pijn
Distraction - Afleiding
Virtual Reality

Sponsors and support

Primary sponsor: Martini Hospital Groningen
Source(s) of monetary or material Support: -

Intervention

Outcome measures

Primary outcome

1) the distraction technique is significantly associated with the VAS-pain score

2) the distraction technique is significantly associated with the tolerance time

Secondary outcome

3) the executive functions and catastrophizing thoughts have a moderating role in the expected relation of the distraction technique and VAS pain score

4) the VAS presence score predicts the VAS pain score

5) the VAS presence score predicts the tolerance time

6) the executive functions predict the VAS presence score

7) the distraction technique predicts the VAS presence score

Study description

Background summary

Virtual Reality as distraction technique is promising in reducing the pain experience. The extent to which VR is effective in reducing pain depends on the extent to which someone is present in the virtual world. This study investigates if the quality of different executive functions (inhibition, divided attention and working memory) and the degree of catastrophizing thoughts influences the presence in the virtual world and herewith the effect on pain.

Study objective

Virtual Reality (VR) as distraction technique is promising as pain relief. The extent to which VR is effective in relieving pain depends on the extent of presence in the virtual world. This study investigates if the quality of different executive functions and the presence of catastrophizing thoughts influences the presence in the virtual world and herewith the effect of VR on pain.

Study design

-

Intervention

Interactive VR computerbased distraction through 3D head mounted display

Contacts

Public
Postbus 30033
K.F. Lamberts
Groningen 9700 RM

The Netherlands
+31 (0) 50 524 5990
Scientific
Postbus 30033
K.F. Lamberts
Groningen 9700 RM
The Netherlands
+31 (0) 50 524 5990

Eligibility criteria

Inclusion criteria

Healthy adults between 18 and 75 years old.

Exclusion criteria

Limited sight or hearing, limited communication skills, acute or chronic pain, Phenomenon of Raynaud, cardiovascular disorders, hypertension, endocrine, metabolic and neurologic disorders, musculoskeletal disorders, epilepsy, psychiatric diagnoses, current injuries to the hands, use of medication, pregnancy, use of alcohol or drugs 24 hours before participation

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-03-2016

Enrollment:	78
Type:	Anticipated

Ethics review

Positive opinion
Date: 08-07-2016
Application type: First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 43440
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL5729
NTR-old	NTR5916
CCMO	NL56224.099.15
OMON	NL-OMON43440

Study results