

# Pulsed radiofrequency for hand osteoarthritis pain

Published: 18-02-2022

Last updated: 27-12-2024

To assess the efficacy of transcutaneous pulsed radiofrequency therapy (tPRF) as a treatment for pain in hand OA.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruiting
<b>Health condition type</b>	Joint disorders
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON51929

### Source

ToetsingOnline

### Brief title

PROAP

## Condition

- Joint disorders

### Synonym

Hand osteoarthritis

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Leids Universitair Medisch Centrum

**Source(s) of monetary or material Support:** ReumaNederland

## Intervention

**Keyword:** Hand osteoarthritis, Pain, Pulsed radiofrequency, Sensitization

## Outcome measures

### Primary outcome

Hand pain assessed with the numerical rating scale over 6 weeks after treatment compared to sham.

### Secondary outcome

Associations of somatosensory profiles measured with quantitative sensory testing and transcutaneous pulsed radiofrequency therapy efficacy.

Efficacy of pulsed radiofrequency therapy efficacy in hand osteoarthritis measured in depression and anxiety scores, hand function, global perceived effect, health-related quality of life.

## Study description

### Background summary

Different types of pain may be present in patients with hand osteoarthritis (OA), including nociceptive pain and non-nociceptive pain. This makes adequate pain treatment difficult, and thus new treatment options are needed.

### Study objective

To assess the efficacy of transcutaneous pulsed radiofrequency therapy (tPRF) as a treatment for pain in hand OA.

### Study design

Randomized clinical trial (RCT).

### Intervention

Transcutaneous pulsed radiofrequency therapy of the hand versus sham.

### Study burden and risks

This RCT will have little burdens and risk for the subjects. The proposed intervention, tPRF, is well tolerated, with no known serious side effects.

## Contacts

### Public

Leids Universitair Medisch Centrum

Albinusdreef 2  
Leiden 2333ZA  
NL

### Scientific

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

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

### Inclusion criteria

Previous participation in and completion of the SensOA study

### Exclusion criteria

Exclusion from the SensOA study

Unwillingness to participate in this study

## Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Placebo
Primary purpose:	Treatment

### Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	12-05-2022
Enrollment:	60
Type:	Actual

### Medical products/devices used

Generic name:	Pulsed radiofrequency generator
Registration:	Yes - CE intended use

## Ethics review

Approved WMO	
Date:	18-02-2022
Application type:	First submission
Review commission:	METC Leiden-Den Haag-Delft (Leiden)
	metc-ldd@lumc.nl

Approved WMO	
Date:	18-07-2022

Application type:	Amendment
Review commission:	METC Leiden-Den Haag-Delft (Leiden)
	metc-ldd@lumc.nl
Approved WMO	
Date:	08-12-2022
Application type:	Amendment
Review commission:	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	ID
CCMO	NL78447.058.21