

# Memory reconsolidation: a new treatment approach towards nicotine addiction.

Published: 16-10-2018

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Whether disrupting reconsolidation by a noradrenergic beta-blocker provides long-term relief from nicotine-addiction.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON48641

### Source

ToetsingOnline

### Brief title

New treatment for smoking cessation.

### Condition

- Other condition

### Synonym

nicotine-addiction, smoking

### Health condition

nicotine-verslaving

### Research involving

Human

## Sponsors and support

**Primary sponsor:** TNO

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

## Intervention

**Keyword:** addiction, memory, reconsolidation, smoking

## Outcome measures

### Primary outcome

Smokingstatus, as assessed by using an online smoking-diary.

### Secondary outcome

- breath monoxide assessment;
- urine cotinine levels;
- questionnaires related to withdrawal symptoms.

## Study description

### Background summary

Smoking is one of the leading causes of preventable death globally. Quitting before the age of 40 reduces the risk of dying from smoking-related diseases by nearly 90%. Given that existing therapies have limited long-term efficacy, there is a pressing need for innovation in the smoking cessation field.

### Study objective

Whether disrupting reconsolidation by a noradrenergic beta-blocker provides long-term relief from nicotine-addiction.

### Study design

Double-blind randomized placebo-controlled trial.

### Intervention

Single reactivation session of smoking-related behavior followed by the

administration of 40 mg of the noradrenergic beta-blocker propranolol.

### **Study burden and risks**

Participants are receiving a short treatment that is expected to diminish their nicotine-addictive behavior. Based on the SPC we expect that propranolol HCl will be well tolerated and do not anticipate any serious adverse events.

## **Contacts**

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## **Trial sites**

### **Listed location countries**

Netherlands

## **Eligibility criteria**

### **Age**

Adults (18-64 years)

Elderly (65 years and older)

### **Inclusion criteria**

- aged between 18 and 65 years;
- smoking 10 or more cigarettes per day for at least 12 months;

- written approval of participant's own general practitioner for participation.

## Exclusion criteria

- cardiovascular diseases or irregular heartbeat;
- hypotension or hypertension;
- pregnancy or breastfeeding;
- epilepsy;
- current state of asthma or COPD, which necessitates medication use.

## 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:	Recruitment stopped
Start date (anticipated):	27-01-2020
Enrollment:	75
Type:	Actual

### Medical products/devices used

Product type:	Medicine
Brand name:	te genereren door farmaceutisch bedrijf
Generic name:	propranolol hydrochloride
Registration:	Yes - NL outside intended use

## Ethics review

Approved WMO

Date: 16-10-2018

Application type: First submission

Review commission: METC Amsterdam UMC

Approved WMO

Date: 28-08-2019

Application type: First submission

Review commission: METC Amsterdam UMC

Approved WMO

Date: 18-11-2019

Application type: Amendment

Review commission: METC Amsterdam UMC

## 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
EudraCT	EUCTR2018-002829-33-NL
CCMO	NL66903.018.18