

# Disruption of memory reconsolidation of alcohol-related memory associations by propranolol

Published: 20-11-2007

Last updated: 10-05-2024

Reduce previously learned positive associations with alcoholic drinks by administering propranolol after reactivation of the alcohol-related memory associations.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Will not start
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON31741

### Source

ToetsingOnline

### Brief title

effects of alcohol and betablocker

### Condition

- Other condition

### Synonym

addiction, alcohol abuse

### Health condition

alcoholisme (etiologie), probleemdrinken

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Universiteit Maastricht

**Source(s) of monetary or material Support:** Ministerie van OC&W

## Intervention

**Keyword:** alcohol, memory reconsolidation, propranolol

## Outcome measures

### Primary outcome

Alcohol motivations: scores on a computer task in which participants work for points which render alcohol.

### Secondary outcome

scores on a computertest which assesses alcohol-associations

## Study description

### Background summary

Research has indicated that memories stored in long term memory become activated after retrieval and then become reconsolidated again. This study investigates whether it is possible to disturb the memory reactivation of conditioned associations with an alcoholic drink by administration of propranolol after reactivation of the alcohol-memory. If it is possible to disturb alcohol-related associations in this way, this may eventually lead to new ways to reduce problem drinking.

### Study objective

Reduce previously learned positive associations with alcoholic drinks by administering propranolol after reactivation of the alcohol-related memory associations.

### Study design

Fully experimental: both the learning of the associations and the retrieval happen in a controlled fashion. We use a double-blind crossover design,

including a session with a placebo and a session with propranolol.

## **Intervention**

disturbance of memory-reactivation of alcohol-related memory associations by propranolol

## **Study burden and risks**

There is no appreciable risk attached to participation to the study. Alcohol consumption will remain below legal limits, nevertheless participants are advised to not drive and use public transport. Use of propranolol is not associated with known negative side effects other than lowering blood pressure. We therefore exclude participants with a very low blood pressure.

## **Contacts**

### **Public**

Universiteit Maastricht

PO Box 616  
6200 MD Maastricht  
Nederland

### **Scientific**

Universiteit Maastricht

PO Box 616  
6200 MD Maastricht  
Nederland

## **Trial sites**

### **Listed location countries**

Netherlands

## **Eligibility criteria**

### **Age**

Adults (18-64 years)

Elderly (65 years and older)

## Inclusion criteria

alcohol abuse

## Exclusion criteria

high blood pressure

## Study design

### Design

Study phase:	4
Study type:	Interventional
Intervention model:	Crossover
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	Placebo
Primary purpose:	Basic science

### Recruitment

NL	
Recruitment status:	Will not start
Start date (anticipated):	01-01-2008
Enrollment:	60
Type:	Anticipated

### Medical products/devices used

Product type:	Medicine
Registration:	Yes - NL outside intended use

## Ethics review

Approved WMO

Date: 20-11-2007

Application type: First submission

Review commission: METC academisch ziekenhuis Maastricht/Universiteit Maastricht, METC azM/UM (Maastricht)

Approved WMO

Date: 16-01-2008

Application type: First submission

Review commission: METC academisch ziekenhuis Maastricht/Universiteit Maastricht, METC azM/UM (Maastricht)

## 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	EUCTR2007-005929-30-NL
CCMO	NL20257.068.07