

Stages in addiction

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON24978

Source

NTR

Health condition

Addiction; Pathological Gambling; Alcohol dependence; gambling addiction;

Sponsors and support

Primary sponsor: AMC, Amsterdam

Source(s) of monetary or material Support: NWO

Intervention

Outcome measures

Primary outcome

- Balance between goal-directed and habitual responding as determined by the habit task
- Interaction between response inhibition and salience attribution as determined by the affective Go/NoGo task
- The effect of affective stimuli on working memory performance as determined by the affective working memory task
- Brain activation as measured with fMRI (Blood Oxygen Level Dependent or BOLD responses) during the habit task, the affective Go/NoGo task and the affective working

memory task

- Connectivity between brain areas: DLPFC-limbic reward circuitry, DLPFC-basal ganglia connectivity, during performance of a cognitive flexibility task and during performance of a cue-reactivity reduction task.
- Baseline fMRI measures, and connectivity after rTMS in an fMRI session in comparison to connectivity during baseline (within subjects comparison). Differences in brain connectivity between non-chronic and chronic alcohol dependence group and pathological gambling group, and healthy control group.

Secondary outcome

- Alcohol use severity as measured by the Alcohol Use Diagnostic Interview Test (AUDIT) [19] and the alcohol abstinence self-efficacy scale [20]
- Gambling severity as measured by the Canadian Problem Gambling Index (CPGI) questionnaire [21]
- Depressive and anxiety symptoms as measured by respectively the 21 item version of the Beck Depression Inventory (BDI) [22], the State version of the state-trait anxiety inventory (STAI) [23]
- Impulsivity as measured by the Barratt Impulsivity Screening (BIS-11) [24]), the Behavioral Inhibition and Behavioral Activation Scales (BIS/BAS) [25], the UPPS Impulsive Behavior Scale [26] and compulsivity measures.
- Executive functioning as measured by a number of CANTAB tasks (see section 5.4 – Self report measures).

Study description

Background summary

The main aim of the proposal is to study the processes involved in non-chronic vs. chronic drug seeking behavior in samples of alcohol dependent persons (ADs) and pathological gamblers (PGs) with different levels of chronicity. We thereby rely on knowledge derived from animal work and implement tests of impulsivity, compulsivity, goal-directed and habitual behavior and positive and negative reinforcement.

Study objective

The main aim of the proposal is to study the processes involved in non-chronic vs. chronic drug seeking behavior in samples of alcohol dependent persons (ADs) and pathological

gamblers (PGs) with different levels of chronicity. We thereby rely on knowledge derived from animal work and implement tests of impulsivity, compulsivity, goal-directed and habitual behavior and positive and negative reinforcement.

Study design

N/A

Intervention

None

Contacts

Public

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Scientific

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Eligibility criteria

Inclusion criteria

Inclusion process: Potential participants are informed about the study and receive an information letter. After this, they are contacted by telephone. If interested to participate, screening for inclusion and exclusion criteria is performed, using structured diagnostic interviews, e.g. Composite International Diagnostic Interview (World Health Organisation, 1997). Relevant sections are included: demographics; alcohol use disorders; substance use disorders; depressive disorders and mania; psychotic disorders and post-traumatic stress disorder. The following sections are included from the Diagnostic Interview Schedule (DIS, Robins, 1981): pathological gambling; antisocial personality disorder.

AD group:

Chronic group

- Recent DSM-V diagnosis of AD (<4 months past detoxification).
- Currently in treatment for AD (>3 weeks past detoxification)
- Seeking treatment for at least the third time lifetime and a minimum illness duration of 7 years (chronic addiction).

Non-chronic group

- Recent DSM-V diagnosis of AD (<4 months past detoxification).
- Currently in treatment for AD (>3 weeks past detoxification)
- Seeking treatment for the first time and with a maximum illness duration of 2 years (non-chronic addiction).

PG group:

Chronic group

- Recent DSM-V diagnosis of PG (active gambling <3 months ago).
- Seeking treatment for at least the third time lifetime and a minimum illness duration of 7 years (chronic addiction).

Non-chronic group

- Recent DSM-V diagnosis of PG (active gambling <3 months ago).
- Seeking treatment for the first time and with a maximum illness duration of 2 years (non-chronic addiction).

HC group:

- No diagnosis (current or history) of AD or PG.

Exclusion criteria

Current major depressive disorder, bipolar disorder, psychotic disorder, alcohol or substance dependence, or any cognitive disorder as assessed with the MINI neurological disorders

section

- IQ below 80
- insufficient command of the Dutch language
- MRI contraindications such as metal implants, claustrophobia, left-handedness, pregnancy
- recent (<2 weeks) use of psychotropic medication other than naltrexone (smoking and nicotine dependence is allowed in all groups).
- Endocrinological disorders or regular use of corticosteroids
- Current treatment with tricyclic antidepressant or antipsychotic medication
- Use of other psychotropic medication (apart from SSRI's), or of recreational drugs over a period of 72 hours prior to each test session, and use of alcohol within the last 24 hours before each measurement
- Irregular sleep/wake rhythm (e.g., regular nightshifts or cross timeline travel).

PG group and HC group:

- more than 21 alcoholic drinks/week for men and more than 15 drinks/week for women, history of AD

PG group:

- any other current substance dependence than PG.

AD group:

- current substance dependence other than AD.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Factorial
Allocation:	Non controlled trial

Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-03-2015
Enrollment:	125
Type:	Anticipated

Ethics review

Not applicable	
Application type:	Not applicable

Study registrations

Followed up by the following (possibly more current) registration

ID: 41763
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL4945
NTR-old	NTR5049
CCMO	NL51301.018.14
OMON	NL-OMON41763

Study results