

Stress and retrieval of heroin-related memories in abstinent heroin addicts

Submission date

21/12/2008

Recruitment status

No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date

23/01/2009

Overall study status

Completed

☐ Statistical analysis plan

☒ Results

Last Edited

04/07/2019

Condition category

Mental and Behavioural Disorders

☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Prof Lin Lu

Contact details

National Institute on Drug Dependence
Peking University
38 Xueyuan Road
Beijing
China
100191

Additional identifiers

Study information

Scientific Title

Stress enhances retrieval of heroin-related memories through concurrent effect on glucocorticoids and norepinephrine in abstinent heroin addicts

Study objectives

We hypothesised that stress may enhance retrieval of heroin-related memories in heroin addicts and this effect involved the noradrenergic systems and glucocorticoids.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The study was approved by Human Investigating Committee of the Peking University Health Center on the 20th August 2007 (ref: 21); clinical trial (medicine) check in 2007.

Primary study design

Interventional

Study design

Double-blind randomised placebo-controlled design

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Heroin addiction

Interventions

There are three groups:

1. Propranolol 40 mg
2. Cortisol 50 mg
3. Placebo

The trial is an acute administration drug and all of them were given orally once.

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Propranolol, cortisol

Primary outcome(s)

The effect of propranolol and cortisol administration on heroin-related memory retrieval in abstinent heroin addicts, measured 1 hour after the medicine treatment.

Key secondary outcome(s)

The effect of propranolol and cortisol on salivary cortisol levels 1 hour after drug administration.

Completion date

30/08/2008

Eligibility**Key inclusion criteria**

1. Aged from 20 to 40 years, male only
2. Diagnostic and Statistical Manual of Mental Disorders, fourth edition (DSM-IV) criteria for heroin dependence with opiate free for at least one month
3. No use of other drugs

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Male

Total final enrolment

102

Key exclusion criteria

1. Current use of any medications
2. Current DSM-IV diagnosis of any affective, anxiety, or psychotic disorder
3. Current dependence on any substance besides heroin and nicotine (based on DSM-IV criteria)
4. Risk factors for untoward side effects from propranolol and cortisol (i.e., irregular heartbeats, history of cardiogenic shock, history of severe heart failure, asthma, fungal infections, hyperlipidaemia, history of hypertension, or abnormal electrocardiogram [ECG] or other laboratory findings)

Date of first enrolment

20/01/2008

Date of final enrolment

30/08/2008

Locations**Countries of recruitment**

China

Study participating centre

National Institute on Drug Dependence

Beijing

China

100191

Sponsor information

Organisation

The National Basic Research Program of China (973 Program) (China)

ROR

<https://ror.org/027s68j25>

Funder(s)

Funder type

Government

Funder Name

The National Basic Research Program of China (973 Program) (China)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/02/2010	04/07/2019	Yes	No