Effects of a novel psychoactive sustance

No registrations found.

Ethical review Positive opinion

Status Pending

Health condition type -

Study type Interventional

Summary

ID

NL-OMON27465

Source

Nationaal Trial Register

Brief title

4-FA

Health condition

Safety profile Pharmacokinetics Healty volunteers

Veiligheidsprofiel Farmacokinetiek Healthy volunteers

Sponsors and support

Primary sponsor: Maastricht University

Source(s) of monetary or material Support: The European Commission, Predicting Risk of

Emerging Drugs with In silico and Clinical Toxicology (PREDICT)

Intervention

Outcome measures

Primary outcome

safety profile, vital signs (body temperature, blood pressure, heart rate and respiratory rate), clinical laboratory safety (hematology, clinical chemistry and urinalysis) and side effects

Secondary outcome

pharmacokinetics, cognitive performance (cognitive tests), mood and subjective drug experience (questionnaires)

Study description

Background summary

There are probably more than a hundred novel psychoactive substances which are designed to closely mimic effects of common illicit drugs. 4-FA is a ring-substituted amphetamine with properties that are also encountered with cocaine and other amphetamine-like psychostimulants and a key feature includes the ability to increase extracellular levels of dopamine, norepinephrine and serotonin, respectively. Despite the fact that these synthetic substances have become increasingly popular and are easily available, the potential risks in humans are insufficiently known.

The present study will evaluate the safety profile and identify the side effects of 4-FA, a commonly encountered novel psychoactive substance in the EU. In addition, the pharmacokinetics of 4-FA will be determined.

Participants will take part in 3 separate test days. The sequence of drug conditions will be randomized. For safety reasons, the low dose of 4-FA will always precede the high dose of 4-FA. During each test day, they will be closely monitored for 12 hours. During this period they will remain in the laboratory under medical supervision. ECG, blood pressure, heart rate, temperature, respiration rate, SpO2 and cardiac arrhythmia will be monitored continuously by a medical supervisor, and blood samples, urine samples, oral fluid samples, will be taken regularly after administration. Cognitive performance, mood and subjective drug experience are also measured

Study objective

To determine whether 4-FA can be safely administered in healthy volunteers in doses up to 150 mg

Study design

Tmax

Intervention

Participants will receive a single dose of 100 and 150 mg of 4-FA on separate days.

Contacts

Public

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Eligibility criteria

Inclusion criteria

Previous experience with psychostimulants (≤ 1 time / week) and at least one time during the previous year • Age between 18 and 40 years • Free from psychotropic medication • The participant is in good health, in the opinion of the investigator, based on assessments of medical history, physical examinations, vital signs, electrocardiogram, and the results of haematology, clinical chemistry, urinalysis, serology, and other laboratory tests • Clinical laboratory test values within the reference ranges. Borderline values may be accepted if they are, in the opinion of the investigator, clinically insignificant. • Absence of any major medical, endocrine and neurological condition, as determined by the medical history, medical examination, electrocardiogram and laboratory analyses (haematology, clinical chemistry, urinalysis, serology) • Normal binocular visual acuity, corrected or uncorrected • Normal weight, body mass index (weight/height2) between 19,5 and 28 kg/m2 • Written Informed Consent

Exclusion criteria

History of drug abuse or addiction (determined by the medical questionnaire, drug questionnaire and medical examination) • Excessive drinking (> 20 alcoholic consumptions a week) • Pregnancy or lactation • Hypertension (diastolic> 90; systolic> 140) • Current or history of psychiatric disorder (determined by the medical questionnaire and medical examination) • Liver dysfunction • (Serious) side effects to previous psychostimulant use • History of cardiac dysfunctions (arrhythmia, ischemic heart disease,...) • Simultaneous participation in another clinical trial • For women: not using reliable contraceptive • Blood donor

Study design

Design

Study type: Interventional

Intervention model: Crossover

Allocation: Randomized controlled trial

Masking: Single blinded (masking used)

Control: Placebo

Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 23-11-2016

Enrollment: 12

Type: Anticipated

Ethics review

Positive opinion

Date: 13-12-2016

Application type: First submission

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

NTR-new NL6033 NTR-old NTR6164

Other EudraCT number : 2016-003127-34

Study results