

Exploratory study to assess the cerebral bioavailability of Silexan® WS® 1265 standard softgel capsule and Silexan® WS® 1265 enteric-coated capsule using quantitative Electroencephalography (EEG) in healthy volunteers

Submission date 08/02/2011	Recruitment status No longer recruiting	☐ Prospectively registered
Registration date 18/03/2011	Overall study status Completed	☐ Protocol
Last Edited 18/03/2011	Condition category Mental and Behavioural Disorders	☐ Statistical analysis plan
		☐ Results
		☐ Individual participant data
		☐ Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Protocol serial number

750201.01.025

Study information

Scientific Title

Exploratory study to assess the cerebral bioavailability of Silexan® WS® 1265 standard softgel capsule and Silexan® WS® 1265 enteric-coated capsule using quantitative Electroencephalography (EEG) in healthy volunteers: a single-centre, randomised, double-blind, placebo-controlled, crossover study

Acronym

Silexan® (WS® 1265): EEG

Study objectives

To assess the influence of Silexan® (Silexan WS® 1265 standard softgel capsule part 1 and Silexan® WS® 1265 enteric-coated capsule part 2) on electric power of six defined frequency ranges with respect to 17 electrode positions during pharmaco electroencephalography in combination with psychometry. Investigation of bioavailability of Silexan® to the brain.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee at the State Medical Board of Hessen (Ethik-Kommission bei der Landesärztekammer Hessen) approved on 8th February 2011

Study design

Single-centre randomised double-blind placebo-controlled crossover study

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Anxiety disorder

Interventions

Cross-over with 3 sequences and 3 periods (part1: Silexan® WS® 1265 standard softgel capsule 80mg, 160mg , placebo; part2: Silexan® WS® 1265 enteric-coated capsule: 80mg, 160mg, placebo).

Each sequence for 14 days; one capsule once a day.

First administration at day 1 of each sequence before EEG sessions every hour until 4 hours after administration; then drugs are dispensed for the following 14 days.

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Silexan® (Silexan WS® 1265 standard softgel capsule , Silexan® WS® 1265 enteric-coated capsule

Primary outcome(s)

Outcome variables describing the bio-availability of Silexan® to the brain

1. Quantitative source density EEG: electric power (V2) within the six frequency ranges (delta, theta, alpha1, alpha2, beta1 and beta2) for each of the 17 electrode positions (102 variables). The variables are assessed for recording condition "eyes open" and "eyes closed" separately. Electrode positions from two different brain regions of interest (ROI) (fronto-temporal delta and theta power and centro-parietal alpha1,2 and beta1,2 power) are grouped and averaged together to give a total of six parameters (one for each frequency) for the recording condition of three challenges: performance of the d2-test, the concentration performance test CPT (under stress) and the memory test. Thus, 18 parameters will be assessed for the recordings during mental challenges. All parameters are assessed 1 - 4 hours after administration as difference to absolute power of pre-drug values (which are set to 100%).

2. Outcome variables of psychometry

2.1. Attention-Load-Test (d2-Test)

2.2. Concentration-Performance-Test (CPT)

2.3. Memory Test (ME)

3. Outcome variables of safety

3.1. Adverse events

3.2. Laboratory tests

Key secondary outcome(s)

No secondary outcome measures

Completion date

30/10/2011

Eligibility**Key inclusion criteria**

1. Male or female outpatients aged 18 to 65 years (both inclusive)
2. Written informed consent in accordance with the legal requirement
3. Readiness and ability on the part of the patient to comply with the physicians instructions and to fill in the self-assessment scales
4. Negative pregnancy test within 7 days before baseline visit in women with childbearing potential (non-childbearing potential is defined as post-menopause for at least one year or surgical sterilisation or hysterectomy at least three months before the study starts)
5. Use of adequate double contraception in women with childbearing potential [oral or injectable contraception or hormonal intra-uterine system (IUS) combined with condom]

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Participation in another clinical trial during the preceding 3 months
2. Pregnancy, lactation
3. Any acute medical disorder
4. History of relevant diseases of vital organs, of the central nervous system or other organs
5. Gastrointestinal disorders with uncertain absorption of orally administered drugs (e.g. partial or total gastrectomy, enterectomy, inflammatory bowel disease, celiac disease, symptomatic lactose intolerance, other disorders associated with chronic diarrhoea)
6. Subjects with a medical disorder, condition or history of such that would impair the subjects ability to participate or complete this study in the opinion of the investigator or the sponsor
7. Known hypersensitivity to lavender preparations
8. Regular daily consumption of more than 25 cigarettes
9. Regular daily consumption of more than half litre of usual beer or the equivalent quantity of approximately 20 g of alcohol in another form
10. Regular daily consumption of more than one litre of xanthin-containing beverages
11. Use of medication within the 2 weeks preceding the study which could interfere with the investigational product
12. Prohibited concomitant medication
13. Relevant deviation from the normal range in clinical chemistry, haematology or urinalysis
14. Resting heart rate in the awake subject below 45 beats per minute (BPM) or above 100 BPM
15. Systolic blood pressure below 90 mmHg for women and below 100 mmHg for men or above 150 mmHg
16. Diastolic blood pressure above 95 mmHg
17. History or evidence of alcohol and/or substance abuse or dependence, particularly of sedatives, hypnotics and anxiolytics within last 6 months before the study
18. Subjects testing positive in the drug screening
19. Participation in any previous clinical study with Silexan®/Lavender oil WS1265 or participation in a further clinical trial at the same time
20. Massive deviation from normal quantitative electroencephalography (EEG) parameters

Date of first enrolment

28/02/2011

Date of final enrolment

30/10/2011

Locations**Countries of recruitment**

Germany

Study participating centre
NeuroCode AG
Wetzlar
Germany
35578

Sponsor information

Organisation
Dr. Willmar Schwabe GmbH & Co. KG (Germany)

ROR
<https://ror.org/043rrkc78>

Funder(s)

Funder type
Industry

Funder Name
Dr. Willmar Schwabe GmbH & Co. KG (Germany)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration