Clinical toxicology of Melagrião® syrup in healthy volunteers

Submission date	Recruitment status	Prospectively registered
19/10/2017	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
13/03/2018	Completed	Results
Last Edited	Condition category	Individual participant data
09/03/2018	Respiratory	Record updated in last year

Plain English summary of protocol

Background and study aims

Melagrião® is a medicine made from six medicinal plants with known action in the respiratory tract (breathing system): Mikania glomerata, Cephaelis ipecacuanha, Aconitum napellus, Polygala senega, Myroxylon balsamum and Nasturtium officinale. The aim of this study is to evaluate the safety and the genotoxic (DNA-damaging) potential of Melagrião® syrup in healthy volunteers.

Who can participate? Healthy volunteers aged 18-50

What does the study involve?

Participants are randomly allocated to take either Melagrião® syrup or a placebo (dummy medicine) as four daily doses for 28 uninterrupted days. Blood samples are taken and clinical and laboratory tests are performed at the start of the study, during the treatment period and at the end of the study.

What are the possible benefits and risks of participating?

If it is found to be safe this medication will be of great value for the treatment of respiratory (lung) diseases. Melagrião® can cause some gastric (stomach) disorders, vomiting and diarrhoea. Blood sampling is a safe procedure and may cause mild discomfort as well as a small purple spot that often resolves without major problems.

Where is the study run from? Federal University of Ceara (Brazil)

When is the study starting and how long is it expected to run for? May 2007 to October 2007

Who is funding the study? Investigator initiated and funded

Who is the main contact? Sérgio Pereira luiss@unifor.br

Contact information

Type(s)

Public

Contact name

Mr Sérgio Pereira

Contact details

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Additional identifiers

Protocol serial number

Protocol 255/07

Study information

Scientific Title

Clinical toxicology of Melagrião® syrup in healthy volunteers: a randomized parallel trial

Study objectives

Melagrião® syrup is safe to use in healthy volunteers.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Research Ethics Committee of the Federal University of Ceará, accredited by the National Health Council / MS (Protocol 255/07), 11/08/2007

Study design

Double-blind single-centre placebo-controlled randomized parallel trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Respiratory diseases

Interventions

48 adult subjects were randomly divided into two groups: Placebo (n=24) and Melagrião® (n=24). In order to have a uniformity of the groups the volunteers were randomized by means of lottery, using sealed envelopes. The subjects were treated for 28 uninterrupted days with 120 mL of Melagrião® or Placebo, divided into four daily doses. Clinical and laboratory evaluations were performed in the pre-study, during the treatment period and after the end of the study. The genotoxicity of Melagrião® was investigated through the comet assay.

Intervention Type

Drug

Phase

Phase I

Drug/device/biological/vaccine name(s)

Melagrião®

Primary outcome(s)

- 1. The genotoxicity of Melagrião® investigated through the comet assay at baseline and after 28 days
- 2. Hematological, renal and metabolic functions, evaluated using hematological and biochemical examinations performed before, during (7th, 14th, 21st and 28th days) and after treatment

Key secondary outcome(s))

Adverse effects assessed by questionnaire every 7 days over the 28 days

Completion date

30/10/2007

Eligibility

Key inclusion criteria

- 1. Men and women aged 18-50 years
- 2. Body mass index (BMI) greater than or equal to 19 and less than or equal to 30
- 3. Good health conditions or without significant diseases, to medical judgment, according to the rules defined in the Protocol, and evaluations to which it was submitted: clinical history, pressure and pulse measurements, physical examination, ECG and complementary laboratory tests

Participant type(s)

Healthy volunteer

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Upper age limit

50 years

Sex

All

Key exclusion criteria

Positive response to any of the following criteria excluded the study volunteer:

1. Hypersensitivity to components of the formulation under study or history of serious adverse reactions

history or presence of liver or gastrointestinal diseases or another condition that interferes with the absorption, distribution, excretion or metabolism of the drug

- 2. Use of maintenance therapy with any drug except oral contraceptive; history of liver, kidney, lung, gastrointestinal, epileptic, haematological or psychiatric disease
- 3. Hypo or hypertension of any etiology that needs pharmacological treatment
- 4. Have a history or had myocardial infarction, angina and/or heart failure
- 5. Smokers (more than 10 cigarettes per day)
- 6. Ingestion of more than 5 cups of coffee or tea per day
- 7. Use of alcohol or illicit drugs; use of regular medication within 4 weeks prior to initiation of treatment of this study
- 8. Use of any medication within one week before starting treatment of this study
- 9. Hospitalization for any reason during the eight weeks prior to the start of treatment of this study
- 10. Pregnant or breastfeeding
- 11. Treatment within three months prior to the study with any drug known to have a well-defined toxic potential in large organs
- 12. Participation in any experimental study
- 13. Ingestion of any experimental drug within the three months preceding the start of this study
- 14. Donation or loss of 450 mL or more of blood within three months prior to initiation of treatment of this study or donation of more than 1500 mL within 12 months prior to initiation of treatment in this study

Date of first enrolment

12/08/2007

Date of final enrolment

30/08/2007

Locations

Countries of recruitment

Brazil

Study participating centre

Federal University of Ceara 60020-181

Sponsor information

Organisation

Federal University of Ceará

ROR

https://ror.org/03srtnf24

Funder(s)

Funder type

Other

Funder Name

Investigator initiated and funded

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from Sérgio Luís da Silva Pereira (luiss@unifor.br).

IPD sharing plan summary

Available on request

Study outputs

Output type **Details** Date created Date added Peer reviewed? Patient-facing? Participant information sheet 11/11/2025 11/11/2025 No

Yes

Participant information sheet