Study of lymphocyte neurotransmitter markers in depression and anxiety

Submission date	Recruitment status	Prospectively registered		
31/01/2008	No longer recruiting	☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
27/06/2008	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
11/06/2019	Mental and Behavioural Disorders			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number FONACIT G-1387

Study information

Scientific Title

A randomised study on the antidepressive effect of fluoxetine and folic acid, as possible augmenter, and the SYNThesis of serotonin (5-HT) in lymphocytes prior and after treatment

Acronym

5HTSYNT

Study objectives

The administration of folic acid plus the antidepressant fluoxetine to patients with major depression could augment the response to the antidepressant, and also modify the content, the synthesis of serotonin, neurotransmitter and immunomodulator, and the presence of tryptophan hydroxylase in lymphocytes, and then influence functionality

Ethics approval required

Old ethics approval format

Ethics approval(s)

This trial was part of a project "Nervous System Markers in Lymphocytes of Patients with Major Depression or Generalized Anxiety." This project received approval from three ethics committees:

- 1. Ethic Committees of the Venezuelan Institute of Scientific Invesgigations (Instituto Venezolano de Investigaciones Científicas; IVIC). Approved in 2000
- 2. Caracas Hospital (Hospital Vargas de Caracas; VHC). Approved in 2001
- 3. The National Fund of Scientific Technology and Innovation (FONACIT; http://www.fonacit.gov. ve). Approved in 2001

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Major depression

Interventions

As of 22/07/2008, information on the dose and route of administration for each drug/supplement were added to the interventions:

This trial consists of two studies:

Study 1: Fluoxetine (oral) 20 mg/day plus placebo (30 participants) vs fluoxetine (oral) 20 mg/day plus omega-3 (oral) 900 mg/day (30 participants)

Study 2: Fluoxetine (oral) 20 mg/day plus placebo (30 participants) vs fluoxetine (oral) 20 mg/day plus folic acid (oral) 10 mg/day (30 participants)

Total number of participants = $30 \times 4 = 120$

Interventions provided at time of registration:

This trial consists of two studies:

Study 1: Fluoxetine plus placebo (30 participants) vs fluoxetine plus omega-3 (30 participants) Study 2: Fluoxetine plus placebo (30 participants) vs fluoxetine plus folic acid (30 participants)

Total number of participants = $30 \times 4 = 120$ participants.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

fluoxetine and folic acid

Primary outcome(s)

- 1. Response to differential treatment at 2, 4 and 6 weeks
- 2. Magnitude of the response at 2, 4 and 6 weeks
- 3. Biochemical analyses on blood samples at 0 and 6 weeks:
- 3.1. Neurotransmitters in plasma
- 3.2. Isolation of lymphocytes
- 3.3. Neurotransmitters in lymphocytes
- 3.4. Detection of tryptophan hydroxylase
- 3.5. Folate levels
- 3.6. Homocysteine levels
- 3.7. Vitamin B12 levels
- 4. In participants who took omega-3, brain-derived neurotrophic factor (BDNF) in serum and lymphocytes will be determined

Key secondary outcome(s))

Correlation between response to antidepressant and biochemical measurements

Completion date

29/02/2008

Eligibility

Key inclusion criteria

- 1. Both males and females
- 2. 18 to 60 years
- 3. Major depression episode, according to the Diagnostic and Statistical Manual of Mental Disorders, 4th edition (DSM-IV) criteria
- 4. Without psychotic symptoms
- 5. Mild and moderate
- 6. Without risks of suicide
- 7. Without another psychiatric disorder
- 8. Without another medical illness
- 9. Free of pharmacological treatment for one month prior to inclusion into the study

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

27

Key exclusion criteria

- 1. Pregnancy
- 2. Surgery
- 3. Adverse effect to treatments
- 4. Allergies, infections, inflammation
- 5. Excessive consumption of coffee, tea, tobacco or alcohol

Date of first enrolment

01/12/2006

Date of final enrolment

29/02/2008

Locations

Countries of recruitment

Venezuela

Study participating centre Laboratorio de Neuroquímica

Caracas Venezuela 1020-A

Sponsor information

Organisation

Venezuelan Institute of Scientific Investigations (Instituto Venezolano de Investigaciones Científicas) (Venezuela)

ROR

https://ror.org/02ntheh91

Funder(s)

Funder type

Government

Funder Name

The National Fund of Scientific Technology and Innovation (FONACIT; ref: G-1387) (Venezuela)

Funder Name

The Venezuelan Institute of Scientific Investigations (IVIC) (Venezuela)

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	01/07/2008	11/06/2019	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes