The effect of ondansetron, a 5-Ht3 receptor antagonist, on fatigue severity and functional impairment in Chronic Fatigue Syndrome patients

Submission date	Recruitment status No longer recruiting	Prospectively registered		
20/12/2005		☐ Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
20/12/2005		[X] Results		
Last Edited 15/06/2010	Condition category	Individual participant data		
15/06/2010	Nervous System Diseases			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers NTR209

Study information

Scientific Title

Study objectives

Accumulating data in the literature support an important role for serotonin, in the neurobiology of Chronic Fatigue Syndrome (CFS). Neuroendocrine and neuropharmacological studies point to an up-regulated or hyper-responsive serotonin system.

In a randomised controlled trial by our own research group the Selective Serotonin Reuptake Inhibitor (SSRI) fluoxetine proved to be ineffective in Centre for Diseases Control (CDC)-diagnosed CFS patients.

Positive reports of the use of serotonine inhibitors in the treatment of fatigue, due to hepatitis and to fibromyalgia, support an effect. Based on these findings we hypothesise that a serotonin antagonist could be effective in the treatment of CFS.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the local medical ethics committee

Study design

Randomised placebo controlled, parallel group, double blinded trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Chronic fatigue syndrome

Interventions

10 weeks ondansetron versus placebo.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Ondansetron

Primary outcome measure

- 1. Fatigue severity: measured with Checklist Individual Strength
- 2. Functional impairment: measured with Sickness Impact Profile
- 3. CDC-symptoms

Secondary outcome measures

Physical activity level: measured with actometer

Overall study start date

19/06/2002

Completion date

01/03/2006

Eligibility

Key inclusion criteria

- 1. CDC-diagnosed CFS-patients
- 2. Male and female patients 18 65 years of age
- 3. High-fatique severity level
- 4. Substantial functional impairment
- 5. Written informed consent

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

60

Key exclusion criteria

- 1. Pregnancy
- 2. Lactating women
- 3. Participation in CFS-treatment programs
- 4. Participation in other CFS-research
- 5. Psychopharmaca

Date of first enrolment

19/06/2002

Date of final enrolment

01/03/2006

Locations

Countries of recruitment

Netherlands

Study participating centre Department Internal Medicine - 541

Nijmegen Netherlands 6500 HB

Sponsor information

Organisation

University Medical Centre Nijmegen (Netherlands)

Sponsor details

P.O. Box 9101 Nijmegen Netherlands 6500 HB +31 (0)24 361 1111 info@ozi.umcn.nl

Sponsor type

Hospital/treatment centre

Website

http://www.umcn.nl/homepage

ROR

https://ror.org/05wg1m734

Funder(s)

Funder type

Industry

Funder Name

GlaxoSmithKline (Netherlands)

Alternative Name(s)

GlaxoSmithKline plc., GSK plc., GSK

Funding Body Type

Government organisation

Funding Body Subtype

For-profit companies (industry)

Location

United Kingdom

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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	01/05/2010		Yes	No