

Chronic fatigue syndrome (CFS): cognitive behavioural therapy or rehabilitation?

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Last Edited 05/06/2017	Condition category Nervous System Diseases	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
Is a multidisciplinary rehabilitation treatment more effective than monodisciplinary cognitive behavioural therapy for patients with chronic fatigue syndrome? A multicentre randomised controlled trial

Acronym

FatiGo

Study objectives

This study aims to evaluate the effects of both treatment approaches in outpatient rehabilitation on fatigue severity and quality of life for patients with chronic fatigue syndrome (CFS). Our hypothesis is that the multidisciplinary treatment will result in a significantly greater decrease in fatigue severity and a higher level of quality of life compared to patients treated with cognitive behavioural therapy.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The Ethics Board of Rotterdam and surroundings (Toetsingscommissie Wetenschappelijk Onderzoek Rotterdam e.o.), 18/11/2008, ref: 2008/22 (NL19992.101.08, ABRv4)

Study design

Multicentre single-blind randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Chronic fatigue syndrome (CFS)

Interventions

After the intake, patients will be randomly divided into two groups: cognitive behavioural therapy (CBT) and multidisciplinary rehabilitation therapy (MRT):

1. Cognitive behavioural therapy (CBT):

CBT is based on process variables of a CFS model. This model shows that high physical attributions will decrease physical activity and increase fatigue and functional impairment. A low level of sense of control over symptoms and focusing on physical sensations have a direct causal effect on fatigue. In CFS precipitating and perpetuating factors are important. The perpetuating factors become the focus of the intervention in CBT. An important subject in the therapy is the balance between activity and rest and the patients' responsibility to see to it. Negative beliefs regarding the symptoms of fatigue, self-expectations or self-esteem are identified and patients are encouraged to challenge them the conventional way. Specific lifestyle changes are encouraged if deemed appropriate. At the end of the therapy relapse prevention is addressed. Patients who are assigned to this group will attend 16 individual therapy sessions of one hour duration, spread out over 6 months with a psychologist or behavioural therapist.

2. Multidisciplinary rehabilitation therapy (MRT):

MRT includes CBT, GET, Pacing and Body awareness therapy (investigational treatment):

2.1. CBT: as above

2.2. Graded exposure therapy (GET): a structured and supervised activity management that aims at a gradual but progressive increase in aerobic activities. It is completed by graded activity and

graded exposure in which a gradual and progressive increase of physical and mental activities is trained. The activities include activities of daily living, occupational and social or leisure activities.

2.3. Pacing: helps the patient divide energy over the day/week. Eventually they are encouraged to carry out a gradual increase in physical and mental activity.

2.4. Body awareness therapy: teaches the patient to be aware of healthy physical sensations and to link them in the mind (body mentalisation). Patients will be taught to react adequately to disturbances in the balance between the daily workload and the capacity to deal with it. The balance between activity and rest is also linked to the patients inner control and healthy physical sensations.

MRT includes the following:

1. Two weeks: observation (2 sessions of 1 hour psychology, 2 sessions of 1 hour with a social worker, 2 sessions of 1/2 hour occupational therapy, 2 sessions of 1/2 hour physiotherapy)
 2. Two weeks: no therapy
 3. Ten weeks therapy (5 sessions of 1 hour psychology, 4 sessions of 1 hour with a social worker, 26 sessions of 1/2 hour physiotherapy and 20 sessions of 1/2 hour occupational therapy)
 4. Six weeks no therapy
 5. One session of 1 hour with a social worker (after 6 weeks of no therapy)
 6. Two sessions of both 1/2- 1 hour of therapy with the therapists choice by the participants.
- During MRT therapy, a participant sees the physician in rehabilitation three times (20 minutes per visit).

The total duration of both treatments is 6 months. The duration of follow up for both treatments is also 6 months.

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Fatigue severity measured using the Checklist Individual Strength at baseline, 6 months and 12 months after start of therapy

Key secondary outcome(s)

1. Quality of life measured using the 36-item Short-Form Health Survey (SF-36)
2. Psychological wellbeing measured using Symptom Check List-90
3. Sense of control in relation to CFS complaints measured using Self-Efficacy Scale
4. Somatic attributions measured using Causal Attribution List
5. Mindfulness measured using Mindfulness Attention Awareness Scale
6. Functional activities (the most important) which a patient wants to improve during treatment measured using Patient Specific Complaints and Goals questionnaire
7. Impact of disease on both physical and emotional functioning measured using Sickness Impact Profile
8. Physical activity measured using the Body Media Sensewear activity monitor
9. Self-rated improvement measure using five questions on 5 and 10-point Likert-scale
10. Life satisfaction measured using Life Satisfaction Questionnaire
11. Utility measured using EuroQol 6-D
12. Treatment expectancy and credibility measured using Devilly and Borkovec questionnaire

All outcomes are measured at baseline, 6 and 12 months after start of therapy. Treatment costs and additional expenses (work related costs, health care and non-health care costs) are measured using Trimbos/iMTA questionnaire for Costs associated with Psychiatric Illness which will be measured every month (from baseline until 12 months after start of therapy).

Completion date

01/07/2011

Eligibility

Key inclusion criteria

Patients are included if they fulfil the CDC-94 criteria for CFS and score more or equal to 40 on the Checklist Individual Strength (CIS)-fatigue questionnaire. CDC-94 criteria for CFS are as follows:

At least 6 months of persistent or recurring fatigue for which no physical explanation has been found and which:

1. Is of new onset, that is to say it has not been lifelong
2. Is not the result of ongoing exertion
3. Is not substantially alleviated by rest
4. Severely limits functioning

In combination with four or more of the following symptoms, persistent or regularly recurring over a period of 6 months and which must not have predated the fatigue:

5. Self-reported impairment in memory or concentration
6. Sore throat
7. Tender cervical lymph nodes
8. Muscle pain
9. Multi-joint pains
10. Headache
11. Unrefreshing sleep
12. Post-exertional malaise lasting 24 hours or longer

Other additional inclusion criteria for this study are:

13. Patients are willing to participate in a treatment which is set up to change behaviour
14. Aged between 18 years and 60 years, either sex
15. Able to speak, understand and write the Dutch language

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

1. Any medical condition that may explain the presence of chronic fatigue
2. A psychotic, major or bipolar depressive disorder (but not an uncomplicated depression)
3. Dementia
4. Anorexia or bulimia nervosa
5. Alcohol and/or drug abuse
6. Severe obesity (body mass index [BMI] greater than or equal to 45)
7. Pregnancy
8. Not able to speak, understand or write the Dutch language
9. Patients who had cognitive behavioural therapy (CBT) and multidisciplinary rehabilitation therapy (MRT) in the past involving CFS

Date of first enrolment

27/11/2008

Date of final enrolment

01/07/2011

Locations**Countries of recruitment**

Netherlands

Study participating centre

Rehabilitation Centre Breda

Breda

Netherlands

4817 JW

Sponsor information**Organisation**

The Netherlands Organisation for Health Research and Development (ZonMw) (Netherlands)

ROR

<https://ror.org/01yaj9a77>

Funder(s)**Funder type**

Research organisation

Funder Name

Rehabilitation Centre Breda (Netherlands)

Funder Name

ZonMw

Alternative Name(s)

Netherlands Organisation for Health Research and Development

Funding Body Type

Private sector organisation

Funding Body Subtype

Other non-profit organizations

Location

Netherlands

Funder Name

The Rehabilitation Fund (Revalidatiefonds) (Netherlands) (ref: 2007176/SW)

Funder Name

The Nuts-Ohra Foundation (Stichting Nuts Ohra [SNO]) (Netherlands) (ref: 0801-06)

Funder Name

Myalgic encephalomyelitis/chronic fatigue syndrome Foundation Netherlands (ME/ CVS Stichting Nederland) (Netherlands)

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				

Results article		30/05/2012	Yes	No
Other publications	economic evaluation	02/06/2017	Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No
				Yes