# A psychosocial therapy to benefit people with Parkinson's-related dementia (INVEST)

Submission date	<b>Recruitment status</b> No longer recruiting	Prospectively registered		
17/03/2016		[X] Protocol		
Registration date	Overall study status	<ul><li>Statistical analysis plan</li></ul>		
18/03/2016	Completed	[X] Results		
<b>Last Edited</b> 26/04/2023	<b>Condition category</b> Nervous System Diseases	Individual participant data		

# Plain English summary of protocol

Background and study aims

Parkinson's disease (PD) is a long-term medical condition which is caused by the gradual loss of nerve cells (neurons) in a part of the brain called the substantia nigra. These neurons are normally responsible for producing dopamine, a chemical messenger (neurotransmitter) which carries signals around the brain that help to coordinate movement. In people suffering from PD, these neurons gradually die over time, causing the level of dopamine in the brain to gradually fall. As the levels of dopamine become lower, the brain is unable to coordinate movement as effectively, causing abnormal movements such as stiffness, tremor (uncontrollable shaking) and slowness of movement (bradykinesia). Parkinson's related dementia is a gradual decline of cognitive function (thinking and reasoning) that develops in someone with Parkinson's disease. There are two forms of dementia associated with PD: Parkinson's disease dementia, PDD (which is diagnosed when someone has had PD for some time) and dementia with Lewy bodies, DLB (which is diagnosed earlier or at the same time as someone is diagnosed with dementia). Increasing availability of psychosocial treatments (psychological therapy which help people develop the social, emotional and intellectual skills they need in order to get by) for people with dementia on the NHS is a key objective of the National Dementia Strategy (2009) and other national dementia policy drivers, however there is almost no evidence to support their use in people with more complex forms of dementia such as a PDD and DLB. For these patients, who make up around 7-10% of dementia cases, there is only very limited drug-bassed treatments available. Without adequate disease management, the risk of these patients being admitted to care is high and providing psychosocial therapies could help to reduce this risk. The aim of this study is to find out whether a new psychosocial therapy called cognitive stimulation therapy (CST) could help to improve cognitive function and quality of life in patients with Parkinson'srelated dementia.

Who can participate?

Adults with dementia who are well enough to take part in the therapy and their carer

What does the study involve?

Patients and their carers are randomly allocated to one of two groups. Couples in the first group

receive a 10 week course of cognitive stimulation therapy (CST). This involves taking part in twothree 30 minute sessions every week in the patient's home. Those in the second group continue to receive treatment as usual and do not take part in any additional treatment during the study.

What are the possible benefits and risks of participating? Not provided at time of registration.

Where is the study run from? University of Manchester (UK)

When is the study starting and how long is it expected to run for? February 2016 to October 2017

Who is funding the study? National Institute for Health Research (UK)

Who is the main contact?

Dr Sheree McCormick

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# **Contact information**

# Type(s)

Scientific

#### Contact name

Dr Sheree McCormick

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# Additional identifiers

EudraCT/CTIS number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers 20631

# Study information

#### Scientific Title

A psychosocial therapy to benefit people with Parkinson's-related dementia: a feasibility and exploratory pilot study of individual cognitive stimulation therapy (INVEST)

#### Acronym

**INVEST** 

## **Study objectives**

The aim of this study is to investigate whether it is feasible to implement individual Cognitive Stimulation Therapy for people with Parkinson's disease with mild cognitive impairment (PD-MCI), dementia in Parkinson's disease (PDD) and dementia with lewy bodies (DLB).

# Ethics approval required

Old ethics approval format

## Ethics approval(s)

15/YH/0531

## Study design

Randomised controlled trial

## Primary study design

Interventional

#### Secondary study design

Randomised controlled trial

# Study setting(s)

Other

# Study type(s)

Treatment

#### Participant information sheet

Not available in web format, please use the contact details to request a patient information sheet

# Health condition(s) or problem(s) studied

Topic: Dementia; Subtopic: Parkinson's Disease; Disease: Parkinson's Disease

#### **Interventions**

Participants are randomly allocated to one of two groups:

#### Active iCST group

Each caregiver-participant dyad will receive a 10-week course of Cognitive Stimulation Therapy. This involves completing two-three activity sessions per week, each session lasting approximately 30 minutes. The therapy is delivered to the participant by the caregiver at home.

#### Treatment as usual

In the 'Treatment as usual' (TAU) arm, the comparator, dyads will not receive any additional

intervention. TAU is defined as standard NHS treatment for the individual's condition and symptomology. In general, the services offered to this group will also be available to those in the active treatment group, the study will, therefore, be examining the additional effects of individual Cognitive Stimulation Therapy.

Total duration of treatment, including a two-week lead-in period is 12 weeks. The two-week lead-in period is provided to ensure the caregiver is confident in delivering the therapy in an effective and efficient manner.

# Intervention Type

Behavioural

## Primary outcome measure

- 1. Quality of life is measured using the Parkinson's Disease Questionnaire-39
- 2. Cognitive functioning is measured using the Addenbrook's Cognitive Examination Revised Version

#### Secondary outcome measures

- 1. Apathy is measured using the Lille Apathy Rating Scale
- 2. Caregiver burden is measured using the Zarit Burden Interview

#### Overall study start date

15/02/2016

## Completion date

31/10/2017

# **Eligibility**

#### Key inclusion criteria

Caregiver inclusion criteria:

- 1. Caregiver of a person with PD-MCI, PDD or DLB: Must live with or be carer for someone who has a diagnosis of PDMCI, PDD or DLB
- 2. Must be well enough to deliver 20 30 minute sessions of iCST, two or three times per week

#### Patient inclusion criteria:

- 1. Must have received a diagnosis of probable PD-MCI, PDD or DLB. Diagnosis will be based on standard clinical diagnostic criteria (Emre et al, 2007; McKeith et al., 2005) determined by the referring clinician and verified by the lead applicant (IL).
- 2. Must be willing to participate in 20 30 minute sessions of iCST, two or three times per week
- 3. Must be well enough to participate in 20 30 minute sessions of iCST, two or three times per week
- 4. Must be stable on medication regime four weeks prior study entry

## Participant type(s)

Patient

#### Age group

Adult

Sex

# Target number of participants

Planned Sample Size: 186; UK Sample Size 186

#### Total final enrolment

76

#### Key exclusion criteria

Caregiver exclusion criteria:

- 1. Not a caregiver for someone with PD-MCI, PDD or DLB
- 2. Cannot understand English or are non-literate
- 3. Severe physical illness
- 4. Diagnosis of dementia
- 5. The person being cared for meets the patient exclusion criteria

#### Patient exclusion criteria:

- 1. Unwilling to participate in 20 30 minute sessions of iCST, two or three times per week
- 2. Not well enough to participate in 20 30 minute sessions of iCST, two or three times per week
- 3. Caregiver contact less than 3 time per week
- 4. No caregiver (or caregiver not willing) to deliver therapy and complete study assessments
- 5. Lives in residential care
- 6. Cannot understand English or are non-literate
- 7. Severe physical illness

#### Date of first enrolment

15/02/2016

#### Date of final enrolment

31/10/2017

# Locations

# Countries of recruitment

England

**United Kingdom** 

# Study participating centre University of Manchester

Jean MacFarlane Building Oxford Road Manchester United Kingdom M13 9PL

# Sponsor information

#### Organisation

Manchester Mental Health & Social Care Trust

# Sponsor details

Rawnsley Building Manchester Royal Informary Oxford Road Manchester England United Kingdom M13 9WL

#### Sponsor type

Hospital/treatment centre

# Funder(s)

# Funder type

Government

#### **Funder Name**

National Institute for Health Research

#### Alternative Name(s)

National Institute for Health Research, NIHR Research, NIHRresearch, NIHR - National Institute for Health Research, NIHR (The National Institute for Health and Care Research), NIHR

# Funding Body Type

Government organisation

# **Funding Body Subtype**

National government

#### Location

United Kingdom

# **Results and Publications**

## Publication and dissemination plan

Not provided at time of registration

# Intention to publish date

31/10/2018

# Individual participant data (IPD) sharing plan

Not provided at time of registration

# IPD sharing plan summary

Not provided at time of registration

# **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	protocol	19/06/2017		Yes	No
Results article	results	01/07/2019	05/06/2019	Yes	No
Results article		04/07/2019	26/04/2023	Yes	No
HRA research summary			28/06/2023	No	No