

# Community pharmacies mood intervention study (CHEMIST)

<b>Submission date</b> 06/03/2017	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 08/03/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 26/04/2023	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Current plain English summary as of 04/04/2019:

### Background and study aims

About 30% of the UK population has long term physical health problems. Many of those people also suffer from depression, which can end up making their physical health problems worse, lowering their quality of life and doubling healthcare costs. Mild/Sub-Threshold depression often goes undetected and untreated despite the fact it also can worsen a person's health and functioning and is a major risk factor for depression. A previous study found that a treatment called collaborative care reduced depression symptoms and nearly halved the number of people who developed major depression in older adults with sub-threshold depression. The program included a type of therapy called behavioural activation, which is a short form of cognitive behavioural therapy (a type of talking therapy that helps people change the way they think and behave), and could be run by people with no professional qualifications who are trained /supported by experts. Community pharmacies may provide an excellent setting for this type of program for people with health problems and sub-threshold depression. The aim of this study is to look at whether the treatment can be adapted and if it can be delivered by suitably trained community pharmacy staff to adults with mild depression and long term health problems.

### Who can participate?

Adults with sub-threshold depression and who have one or more long-term health conditions.

### What does the study involve?

In the initial phase of the study, all participants receive the treatment, called 'Pharmacy Support'. In the second phase of the study a computer randomly allocates (like flipping a coin) participants to receive the Pharmacy Support (50 people) or the usual NHS care (50 people) they normally receive. No treatment is stopped and all participants continue to receive all the care and support they usually do whilst taking part in the study. Participants receiving the Pharmacy Support are contacted by a Healthy Living Advisor from their local pharmacy who arranges their first pharmacy support session. The pharmacy support sessions involve working with a Healthy Living Advisor to plan changes that aim to improve mood and overall wellbeing. The sessions usually take place over the telephone, or if people prefer they can take place face-to-face in their local pharmacy. Participants speak with their Healthy Living Advisor up to 6 times over a four month period and each session lasts for about 15-20 minutes. During the sessions,

participants are provided with information to help them think about their difficulties and what they may be able to do to improve some of them, and the Healthy Living Advisor supports them to work through the self-help workbook. All participants in the study are then sent a questionnaire after four months to complete and return to the study team. Participants may also be asked if they would like to take part in an interview to discuss their views about mental wellbeing and the pharmacy support they received as part of the study. Pharmacy staff will also be invited to take part in an interview to discuss their views about delivering the Pharmacy Support and providing this support within the context of the community pharmacy.

What are the possible benefits and risks of participating?

It is not known whether taking part in this study will help participants, but participants may receive additional support which is not usually available to people from their local pharmacies. Taking part could help improve the treatment offered to people suffering from low mood or depression in the future. There are no anticipated risks to people taking part in the study, but it will take up some of their time to complete the questionnaires and some time will be spent working through the pharmacy support sessions and the associated activities.

Where is the study run from?

The study is run from the University of York and takes place in at least six pharmacies in England (UK)

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

January 2017 to April 2019. The study was later extended to November 2019.

Who is funding the study?

National Institute for Health Research (UK)

Who is the main contact?

1. Dr Liz Littlewood (public)  
liz.littlewood@york.ac.uk
2. Dr David Ekers (scientific)  
david.ekers@york.ac.uk

Previous plain English summary:

Background and study aims

About 30% of the UK population has long term physical health problems. Many of those people also suffer from depression, which can end up making their physical health problems worse, lowering their quality of life and doubling healthcare costs. Mild/Sub-Threshold depression often goes undetected and untreated despite the fact it also can worsen a person's health and functioning and is a major risk factor for depression. A previous study found that a treatment called collaborative care reduced depression symptoms and nearly halved the number of people who developed major depression in older adults with sub-threshold depression. The program included a type of therapy called behavioural activation, which is a short form of cognitive behavioural therapy (a type of talking therapy that helps people change the way they think and behave), and could be run by people with no professional qualifications who are trained /supported by experts. Community pharmacies may provide an excellent setting for this type of program for people with health problems and sub-threshold depression. The aim of this study is to look at whether the treatment can be adapted and if it can be delivered by suitably trained community pharmacy staff to adults with mild depression and long term health problems.

Who can participate?

Depressed adults who have one or more long-term health conditions.

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June 2016 to April 2019

Who is funding the study?

National Institute for Health Research (UK)

Who is the main contact?

1. Dr Liz Littlewood (public)

[liz.littlewood@york.ac.uk](mailto:liz.littlewood@york.ac.uk)

2. Dr David Ekers (scientific)

[david.ekers@york.ac.uk](mailto:david.ekers@york.ac.uk)

## Contact information

**Type(s)**

Public

**Contact name**

Dr Liz Littlewood

**ORCID ID**

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**Contact details**

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**Type(s)**

Scientific

**Contact name**

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**Contact details**

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[david.ekers@york.ac.uk](mailto:david.ekers@york.ac.uk)

## Additional identifiers

**Protocol serial number**

32240

## Study information

**Scientific Title**

Community pHarmacIEs Mood Intervention STudy (CHEMIST): Feasibility and Pilot Study

**Acronym**

CHEMIST

**Study objectives**

Feasibility Study:

The aim of the feasibility study is to adapt a bespoke Enhanced Support Intervention for

implementation by community pharmacy staff to people with sub-threshold depression and long-term conditions, and to test the proposed study processes (recruitment, assessment, intervention and collection of outcome measures) to be used in the pilot RCT.

#### **Pilot RCT:**

The aim of the pilot RCT is to examine delivery of the bespoke Enhanced Support Intervention against usual care in a community pharmacy setting, and to quantify and evaluate the flow of participants (screening, eligibility, recruitment, intervention uptake and retention, and follow-up rate) to determine the feasibility of conducting a larger definitive RCT.

#### **Ethics approval required**

Old ethics approval format

#### **Ethics approval(s)**

North East – Newcastle and North Tyneside 2 Research Ethics Committee, 18/11/2016, ref: 16/NE/0327

#### **Study design**

Randomised; Interventional; Design type: Treatment, Psychological & Behavioural

#### **Primary study design**

Interventional

#### **Study type(s)**

Treatment

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

Depression

#### **Interventions**

Feasibility study:

All participants receive the Enhanced Pharmacy Support Intervention (ESI). The ESI will be adapted for use with individuals with sub-threshold depression and long-term conditions, and will consist of four elements: Behavioural Activation focused self-help support; Proactive follow-up; Symptom monitoring; and Decision supported signposting. It will be delivered by suitably trained pharmacy support staff experienced in delivery of extended pharmacy roles (such as smoking cessation behavioural change approaches) over 4-6 sessions in a 4 month period either over the phone or face-to-face in the privacy of pharmacy consulting rooms. Participants are followed up at 4 months post-recruitment.

#### **Pilot RCT:**

Participants are randomised in a 1:1 ratio using the independent online randomisation service provided by the York Trials Unit) to one of two group.

Intervention group: Participants receive the Enhanced Pharmacy Support Intervention (ESI) over 4-6 sessions in a 4 month period either over the phone or face-to-face in the privacy of pharmacy consulting rooms, as in the feasibility study.

Control group: Participants receive usual primary care management of sub-threshold depression offered by the GP or other local community provision.

Participants in both groups are followed up at 4 months post-randomisation.

## **Intervention Type**

Other

## **Phase**

Phase III

## **Primary outcome(s)**

Feasibility Study:

1. Recruitment and attrition rates
2. Quality of data collection at baseline and 4 months
3. ESI adherence
4. Process evaluation is undertaken through qualitative interviews with participants, ESI facilitators and pharmacy staff

Pilot RCT:

Self-reported depression severity is measured by the Patient Health Questionnaire (PHQ9) at baseline and 4 months.

## **Key secondary outcome(s)**

Pilot RCT:

1. Prevention of depression measured by binary depression scores on the PHQ9 at baseline and 4 months
2. Anxiety is measured using the GAD7 at baseline and 4 months
3. Health Related Quality of Life measured by the SF-12v2 at baseline and 4 months
4. Health State Utility measured by the EQ-5D at baseline and 4 months
5. Health Service Use, collected by a bespoke questionnaire (adapted AD-SUS) at baseline and 4 months
6. Participant's use of Enhanced Support Intervention, collected from intervention facilitator records at 4 months
7. Process evaluation is undertaken using qualitative interviews with participants, pharmacy staff and GPs at 4 months

## **Completion date**

30/11/2019

# **Eligibility**

## **Key inclusion criteria**

1. Adults (male or female, aged 18 years and over)
2. One or more long-term conditions (Arthritis, Cancer, Cardiovascular Conditions, Diabetes, Respiratory Conditions, Stroke).
3. Sub-threshold depression (screen positive with 2-4 symptoms confirmed by diagnostic assessment tool)

## **Participant type(s)**

Patient

## **Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

68

**Key exclusion criteria**

Current participant exclusion criteria as of 04/04/2019:

1. Alcohol or drug dependence
2. Cognitive impairment
3. Bipolar disorder or psychosis/psychotic symptoms
4. Actively suicidal (ascertained by eligibility screening interviews)
5. Currently in receipt of psychological therapy

Previous participant exclusion criteria:

1. Alcohol or drug dependence
2. Cognitive impairment
3. Bipolar disorder or psychosis/psychotic symptoms
4. Acutely suicidal (ascertained by eligibility screening interviews)
5. Currently in receipt of psychological therapy

**Date of first enrolment**

22/03/2017

**Date of final enrolment**

05/04/2019

## **Locations**

**Countries of recruitment**

United Kingdom

England

**Study participating centre**

**Whitworth – Your Family Pharmacy**

17 Beresford Buildings,

Thorn tree

Middlesbrough

United Kingdom

TS3 9NB

**Study participating centre**  
**Whitworth – Your Family Pharmacy**  
13-15 Woods Terrace,  
Murton  
Seaham  
United Kingdom  
SR7 9AD

**Study participating centre**  
**Whitworth – Your Family Pharmacy**  
7 Healaugh Park  
Yarm  
United Kingdom  
TS15 9XN

**Study participating centre**  
**Norchem, Queens Park Medical Centre**  
Farrer Street  
Stockton-on-Tees  
United Kingdom  
TS18 2AW

**Study participating centre**  
**Norchem, Crossfell Pharmacy**  
The Berwick Hills Centre  
Ormesby Road  
Middlesbrough  
United Kingdom  
TS3 7RP

**Study participating centre**  
**Marton Pharmacy**  
4 Marton Estates Square  
Stokesley Road  
Marton  
Middlesbrough  
United Kingdom  
TS7 8DU



**Study participating centre**  
**University of York**  
Department of Health Sciences/York Trials Unit  
Heslington  
York  
United Kingdom  
YO10 5DD

## **Sponsor information**

**Organisation**  
Tees, Esk and Wear Valleys NHS Foundation Trust

**ROR**  
<https://ror.org/04s03zf45>

## **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**

**Individual participant data (IPD) sharing plan**

The current data sharing plans for the current study are unknown and will be made available at a later date.

## IPD sharing plan summary

Data sharing statement to be made available at a later date

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	protocol	03/02/2022	15/02/2022	Yes	No
<a href="#">Results article</a>		01/03/2022	26/04/2023	Yes	No
<a href="#">Protocol article</a>		29/05/2019	05/06/2019	Yes	No
<a href="#">HRA research summary</a>	Participant information sheet		28/06/2023	No	No
<a href="#">Participant information sheet</a>		11/11/2025	11/11/2025	No	Yes