

# Randomised controlled trials of interventions to improve NHS staff stress and wellbeing

<b>Submission date</b> 14/06/2017	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 16/06/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 11/07/2023	<b>Condition category</b> Mental and Behavioural Disorders	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims:

The 2016 NHS Staff Survey found that 37% of staff reported feeling unwell due to work-related stress and pressure and the cost of sickness absence in the NHS has been estimated at £2.4 billion a year or 2.5% of the entire NHS budget. In addition, there is a need to improve the delivery of effective, safe and compassionate patient care. A recent review found that CBT-based stress management interventions (a program which aims to reduce stress by changing the way people think and behave) have the strongest evidence for effectiveness in workplace settings in reducing stress and mental health symptoms. There has also been a growing interest in mindfulness-based interventions (MBIs: programs which help people to become more aware of themselves and everything around them) for healthcare staff, which several studies have shown to be effective. Although both of these programs have been shown to be effective, it is unknown whether the benefits are seen on objective indicators of work-related stress, such as sickness absence, or if they expend to helping staff provide higher quality care.

### Who can participate?

Adults currently employed at a participating hospital trust.

### What does the study involve?

Participants are given a preference as to whether they wish to take part in a one day CBT-based stress management workshop or an eight or nine session MBI. Staff will then be randomly allocated to either start their preferred intervention in the immediate future (within three months) or at a later date (in at least six months). Participants are invited to complete questionnaires about stress, depression, anxiety, compassion, wellbeing, burnout, mindfulness (for those undertaking the MBI), sickness absence, and being present at work online at the start of the study, after completing the program and then six months later. The first ten participants in each program who complete these measures are also invited to take part in an optional phone interview about their experiences.

### What are the possible benefits and risks of participating?

Potential benefits of participating include the opportunity to undertake a course which has been found to promote positive mental health and wellbeing and contributing to research which may inform the implementation of wellbeing courses across the NHS to improve outcomes in other

staff. There is a risk that some course techniques may involve reflecting on thoughts, feelings, and experiences, which can sometimes be distressing. Participants are free to stop taking part at any time, without having to give a reason.

Where is the study run from?

1. Sussex Partnership NHS Foundation Trust (UK)
2. Surrey and Borders NHS Foundation Trust (UK)
3. Kent and Medway Partnership NHS Foundation Trust (UK)
4. Sussex Community NHS Foundation Trust (UK)

When is study starting and how long is it expected to run for?  
February 2017 to October 2018

Who is funding the study?

Health Education England; Kent, Surrey, and Sussex (UK)

Who is the main contact?

1. Ms Jenny Gu (public)
2. Dr Clara Strauss (scientific)

## Contact information

### Type(s)

Public

### Contact name

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### Contact details

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### Type(s)

Scientific

### Contact name

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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

224584

**ClinicalTrials.gov number**

**Secondary identifying numbers**

IRAS Project ID: 224584

## **Study information**

### **Scientific Title**

Randomised controlled trials of mindfulness-based and cognitive behavioural therapy-based (CBT-based) courses to improve NHS staff stress and wellbeing with participant preference

### **Study objectives**

Primary hypothesis:

For NHS staff both interventions will be more effective compared to wait-list at reducing stress at post-intervention.

Secondary hypotheses:

Both interventions will be more effective than wait-list at:

1. Reducing anxiety symptoms
2. Reducing depression symptoms
3. Reducing work-related burnout
4. Improving compassion for self and others
5. Improving wellbeing
6. Reducing sickness absence
7. Improving mindfulness (administered to participants randomised to the mindfulness intervention or waiting list for the mindfulness intervention only)

### **Ethics approval required**

Old ethics approval format

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

Jarrow Health Research Authority, 31/05/2017, ref: 18/HRA/0049.

### **Study design**

Multi-centre randomised controlled trial

### **Primary study design**

Interventional

### **Secondary study design**

Randomised controlled trial

### **Study setting(s)**

Other

## **Study type(s)**

Other

## **Participant information sheet**

See additional files

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

Stress and wellbeing

## **Interventions**

Participants will be given a choice between two interventions:

Intervention 1: Group Mindfulness-Based Cognitive Therapy (MBCT). This is an 9-week group intervention (including an orientation session) where participants are trained in mindfulness meditation techniques and techniques from CBT. The groups will closely follow the MBCT manual (Segal et al., 2002, 2012) and will be led by MBCT teachers. Each group will consist of 10 to 15 participants. Each session will take 2 hours and participants will be invited to complete approximately 45 minutes per day of homework. Content in the sessions will include guided mindfulness practices, inquiry into experiences following practices, weekly homework review, and teaching/discussion of CBT skills. The teachers will have completed MBCT teacher training and will meet accreditation criteria set out by the UK Network of Mindfulness Teacher Trainers.

Intervention 2: One day Cognitive Behavioural Therapy (CBT)-based stress management workshop. This workshop will teach participants CBT-based stress management techniques and will be facilitated by two mental health practitioners. Participants will also be given self-help resources to take away. Each workshop will consist of around 10 to 20 participants.

They will then be randomised to receive their preferred intervention in the the immediate future (within the next 3 months; intervention arm), or at a later time (in 6 months' time or later; waitlist arm), in a ratio of 1:1. Block randomisation, with researchers blind to block size, will be conducted.

Participants randomised to start their preferred intervention in the immediate future will be assessed at baseline, post-intervention, and follow-up (6 months from post-intervention). They will be asked to complete the same set of self-report measures at each time point, with the exception of demographic questions (baseline only) and engagement questions (post-intervention and follow-up only). Participants randomised to the waitlist arm will be asked to complete self-report measures at baseline and post-intervention only.

## **Intervention Type**

Other

## **Primary outcome measure**

Stress is measured using the stress sub-scale from the short version of the Depression Anxiety and Stress Scales (DASS-21) at baseline, post-intervention, and six months follow-up.

## **Secondary outcome measures**

1. Depression is measured using the depression subscale from the short version of the Depression Anxiety and Stress Scales (DASS-21)
2. Anxiety is measured using the anxiety subscale from the short version of the Depression Anxiety and Stress Scales (DASS-21)

3. Compassion is measured using the Compassion Scale
4. Wellbeing is measured using the Short Warwick Edinburgh Mental Wellbeing Scale
5. Burnout is measured using the Maslach Burnout Inventory – Human Services Survey
6. Mindfulness is measured using the 15-item Five Facet Mindfulness Questionnaire (FFMQ)
7. Sickness absence. This will be the number of sickness absence days taken in the three months following the intervention period (e.g., the three months following the end of the intervention for intervention participants). Equivalent data from the same three-month period in the previous calendar year will be obtained as a baseline measure for each participant. Participants will also be asked to self-report sickness absence in the past three months at all time points.
8. Presenteeism is measured using items from the Institute for Medical Technology Assessment Productivity Cost Questionnaire

All outcome measures, with the exception of objective sickness absence data which are requested at the end of the study, will be administered at baseline and post-intervention to all participants and additionally at six-month follow-up for intervention participants. The FFMQ will be administered to participants randomised to MBCT or waiting list for MBCT only. Demographic data (e.g., gender, age, ethnicity, marital status, education level) will be recorded at baseline only and engagement measures (e.g., number of days/week using the preferred intervention) will be administered at post-intervention and follow-up only, for those randomised to the intervention arms.

**Overall study start date**

14/02/2017

**Completion date**

31/10/2018

## **Eligibility**

**Key inclusion criteria**

1. Employed by (or working in an honorary/voluntary capacity for) Sussex Partnership NHS Foundation Trust, Surrey and Borders NHS Foundation Trust, Kent and Medway Partnership NHS Foundation Trust, or Sussex Community NHS Foundation Trust
2. Currently in work (i.e. not currently on sick leave)
3. Have sufficient English language ability to understand intervention information and questionnaire content
4. Aged 18+ years

**Participant type(s)**

Health professional

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

The study aims to recruit 600 staff into the MBCT part of the trial and 1000 staff into the CBT-based workshop part of the trial.

**Total final enrolment**

234

**Key exclusion criteria**

There are no exclusion criteria

**Date of first enrolment**

01/07/2017

**Date of final enrolment**

01/07/2018

## **Locations**

**Countries of recruitment**

England

United Kingdom

**Study participating centre**

**Sussex Partnership NHS Foundation Trust**

Arundel Road

Worthing

United Kingdom

BN13 3EP

**Study participating centre**

**Sussex Community NHS Foundation Trust**

Brighton General Hospital

Elm Grove

Brighton

United Kingdom

BN2 3EW

**Study participating centre**

**Kent and Medway NHS and Social Care Partnership Trust**

Priority House

Hermitage Lane

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United Kingdom

ME16 9PH

**Study participating centre**  
**Surrey and Borders Partnership NHS Foundation Trust**  
18 Mole Business Park  
Leatherhead  
United Kingdom  
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## **Sponsor information**

**Organisation**  
Sussex Partnership NHS Foundation Trust

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**Sponsor type**  
Other

**ROR**  
<https://ror.org/05fmrjg27>

## **Funder(s)**

**Funder type**  
Government

**Funder Name**  
Health Education England; Kent, Surrey, and Sussex

## **Results and Publications**

**Publication and dissemination plan**

Findings will be written up for publication in a peer-reviewed journal article. The intention to publish date is around one year after the overall trial end date. Findings from this trial may also be disseminated in poster and oral presentations at conferences and seminars.

### **Intention to publish date**

31/10/2019

### **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="#">Participant information sheet</a>	version V1	24/04/2017	21/09/2017	No	Yes
<a href="#">Protocol article</a>	protocol	02/04/2018		Yes	No
<a href="#">Results article</a>		18/02/2021	11/07/2023	Yes	No