

Early intervention for depression and anxiety in 16-18 year olds: a multi-centre trial of self-referral psychological stress workshop programmes in schools

Submission date 28/05/2020	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 02/06/2020	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 02/09/2024	Condition category Mental and Behavioural Disorders	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Poor mental health in young people is increasing, with clear evidence of mounting psychiatric problems. However, less than a quarter of young people with mental health problems can access services, meaning there is an urgent need for easily accessible and effective mental health resources. Common barriers include the limited provision of services, reluctance of adolescents to seek professional help as well as a fear of stigmatisation.

Young people's mental health is a major government priority, with current policy advocating the development of effective education based mental health care to prevent the escalation of mental health problems, improve access and reduce service waiting times. However, existing school-delivered programmes for depression and anxiety only have modest effects. These programmes are also mainly focused on younger children.

With these factors in mind, we have developed an accessible and non-stigmatising workshop program for older students. This award-winning programme, named DISCOVER, is a brief group workshop programme for 16 - 18-year-olds that was developed in collaboration with a Teenage Advisory Group (TAG) of 16 - 18-year-olds. DISCOVER aims to improve engagement, offer effective treatment, and maintain participants' motivation and improvement to reduce relapse. The DISCOVER workshop is delivered in a group setting, to around 12 - 15 young people, over one school day. The workshop includes videos, discussions, and the chance to learn and practice techniques designed to improve and maintain mental wellbeing. The workshop material is organised into eight short (20 minute) sections and particular attention is paid to personal, relationship and academic worries typical for 16 - 18-year-olds. Specific methods taught include (i) Behavioural methods e.g. time management, sleep hygiene and maintaining motivation (ii) Cognitive methods e.g. learning to challenge negative thoughts and (iii) mindfulness e.g. meditation exercises. Following the workshop, to maintain progress and adherence, participants

receive a DISCOVER workbook and access to a workshop-specific DISCOVER app to remind them of the methods. Participants also receive three 'follow-up' phone calls from the workshop leader to discuss how they are progressing with their personal goals.

We would like to understand whether this workshop is more effective at improving students' mental health than the normal care they receive at school. Specifically, this clinical trial aims to answer the research question of whether the DISCOVER workshop is a clinically effective and cost-effective intervention in schools that reduces symptoms of depression in 16-18-year-olds at 3 and 6 months after the intervention.

The results of this trial will tell us whether DISCOVER is a suitable programme to take forward as a school-based mental health provision. It is very possible that DISCOVER could be a highly effective and popular component in frontline education-based mental health care as advocated by government health and education policy. We see DISCOVER fitting in very well with the current education-based mental health care aims of the government. Therefore, this trial is essential to inform the Department of Health about the effectiveness of this potentially very important intervention for 16 - 18-year-olds.

Who can participate?

The DISCOVER workshop is designed for sixth form/college students between 16 and 18 who are experiencing, or have experienced, stress or low mood problems recently. We hope this program will be helpful for as many people as possible from this group, however we are still assessing how effective it can be. It is not so suitable for young people who have very severe problems or who do not understand spoken and written English.

What does the study involve?

The study involves the comparison of two different intervention groups; the active intervention (the DISCOVER workshop) and a control intervention (normal school care). Each of the 60 schools will be randomly assigned to one of these two groups. Half of the schools (30) will receive the DISCOVER workshop and the other half (30) of schools will receive their normal care. We will assess participants' mood, stress levels and wellbeing before the intervention and at several points afterwards, in both the workshop and control groups. Following trial completion of all participants, we will then analyse this data to evaluate whether the workshop was more beneficial than the normal care students receive.

What are the possible benefits and risks of participating?

If you receive the workshop, it could help you handle stressful situations in a more helpful way, making it easier to tackle everyday problems. The DISCOVER workshop leaders will offer advice and help during the workshop and at the follow up session. However, the decision may be that your school/college will not be receiving the workshops. In which case, you will receive the normal help available from the school/college (e.g. access to websites, school counsellor). This will be helpful for us to know how students get on without receiving any extra help.

Participation does not have any likely risks associated with it. Sometimes, when we ask young people questions about their feelings, it can be mildly upsetting, but there will always be someone available for them to talk to and to provide any help needed.

Where is the study run from?

King's College London (UK). The study will be taking place in 4 sites; London, Bath, Manchester, and Northampton (London is the lead centre for the study). It will involve a total of 60 schools and 900 sixth form students.

When is the study starting and how long is it expected to run for?
January 2020 to April 2024

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

Who is the main contact?
Dr Stephen Lisk, stephen.lisk@kcl.ac.uk
Dr June Brown, june.brown@kcl.ac.uk

Study website

<https://www.kcl.ac.uk/research/brief-educational-workshops-in-secondary-schools-trial-besst>

Contact information

Type(s)

Scientific

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Public

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

NIHR127951

Study information

Scientific Title

Brief Educational workshops in Secondary Schools Trial: a multi-centre cluster randomised controlled trial of self-referral psychological stress workshops in schools for depression and anxiety in 16-18 year-olds.

Acronym

BESST

Study objectives

Current study hypothesis as of 22/07/2021:

1. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater reduction in symptoms of depression at 3 and 6 months
2. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater reduction in symptoms of anxiety at 3 and 6 months post-intervention
3. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater improvement in wellbeing at 3 and 6 months post-intervention
4. Cost-effectiveness of DISCOVER will be comparable to the control treatment in terms of quality adjusted life years (QALYs) at 3 and 6 months post-intervention?
5. The intervention will be considered acceptable by young people
6. What are the contextual (e.g. school) and process (e.g. workshop publicity) factors that influence implementation and clinical effectiveness?
7. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater improvement in sleep quality at 3 and 6 months post-intervention
8. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater improvement in resilience at 3 and 6 months post-intervention

Previous study hypothesis:

1. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater reduction in symptoms of depression at 3 and 6 months
2. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater reduction in symptoms of anxiety at 3 and 6 months post-intervention
3. Compared to those receiving a control intervention, participants receiving the DISCOVER workshop intervention will show greater improvement in wellbeing at 3 and 6 months post-intervention

4. Cost-effectiveness of DISCOVER will be comparable to the control treatment in terms of quality adjusted life years (QALYs) at 3 and 6 months post-intervention?
5. The intervention will be considered acceptable by young people
6. What are the contextual (e.g. school) and process (e.g. workshop publicity) factors that influence implementation and clinical effectiveness?

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 28/10/2020, King's College London Research Ethics Committee (Waterloo Campus, 57 Waterloo Road London, SE1 8WA, UK; rec@kcl.ac.uk)

Study design

Two-arm blinded (researchers, analyst) multi-centre cluster randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

School

Study type(s)

Quality of life

Participant information sheet

Not available in web format, please use contact details to request a participant information sheet.

Health condition(s) or problem(s) studied

Depression and anxiety

Interventions

Participants in the intervention arm will receive a one-day, school-based mental health programme called the DISCOVER workshop, administered by trained NHS practitioners. Participants in the control arm will receive normal school provision and will be offered a brief leaflet signposting them to relevant local and web-based mental health resources. Using an online randomisation system set up by the Kings Clinical Trials Unit (CTU), schools will be randomly assigned to the intervention or control arm (1:1 allocation ratio) after students have consented and baseline data has been collected.

Intervention Type

Behavioural

Primary outcome measure

Symptoms of depression, measured using the Mood and Feelings Questionnaire (MFQ), collected at baseline, and 3 and 6 months post-intervention

Secondary outcome measures

Current secondary outcome measures as of 22/07/2021:

1. Symptoms of anxiety, measured using the Revised Child Anxiety and Depression Scale (RCADS), collected at baseline, and 3 and 6 months post-intervention
2. Wellbeing, measured using the Warwick Edinburgh Mental Wellbeing scale (WEMWBS), collected at baseline, and 3 and 6 months post-intervention
3. Cost-effectiveness, measured using the Child and Adolescent Service Use Schedule (CA-SUS), collected at baseline and 3 and 6 months post-intervention
4. Quality of life, measured using the EQ-5D-3L (a self-report measure of health-related quality of life, used to calculate quality-adjusted life years (QALYs) suitable for economic evaluation), collected at baseline, and 3 and 6 months post-intervention
5. Participant satisfaction, measured using the the Client Satisfaction Questionnaire, collected immediately post-intervention, and 3 and 6 months post-intervention
6. A qualitative process evaluation, designed to (a) examine the contextual and process factors that either support or obstruct the implementation of the intervention, (b) examine the experience of participants and workshop facilitators and (c) assess whether and how the contextual (e.g. school regime and environment) and process factors (e.g. publicity, component parts of the workshop) identified through this work influence the intermediary outcomes (e.g. engagement, intervention fidelity, adherence to intervention protocol) as well as the primary and secondary outcomes assessed in the trial. The qualitative process evaluation will be conducted in 8 intervention schools (following completing of follow-up measures), using semi-structured interviews (with n=16 students, n=8 workshop facilitators) and focus groups with school staff (n=8).
7. Sleep quality, measured using the Sleep Condition Indicator (SCI), collected at baseline, and 3 and 6 months post-intervention.
8. Resilience, measured using the Child and Youth Resilience Measure 12 (CYRM-12), collected at baseline, and 3 and 6 months post-intervention.

Previous secondary outcome measures:

1. Symptoms of anxiety, measured using the Revised Child Anxiety and Depression Scale (RCADS), collected at baseline, and 3 and 6 months post-intervention
2. Wellbeing, measured using the Warwick Edinburgh Mental Wellbeing scale (WEMWBS), collected at baseline, and 3 and 6 months post-intervention
3. Cost-effectiveness, measured using the Child and Adolescent Service Use Schedule (CA-SUS), collected at baseline and 3 and 6 months post-intervention
4. Quality of life, measured using the EQ-5D-3L (a self-report measure of health-related quality of life, used to calculate quality-adjusted life years (QALYs) suitable for economic evaluation), collected at baseline, and 3 and 6 months post-intervention
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Overall study start date

01/01/2020

Completion date

01/04/2024

Eligibility

Key inclusion criteria

Current participant inclusion criteria as of 01/09/2023:

1. Aged between 16 - 18 years
2. Enrolled at one of the schools taking part in the trial, with planned attendance until the end of the summer term
3. Sufficient English to provide valid informed consent and complete assessments
4. Be seeking help for stress (with or without teacher encouragement)
5. Able to attend and take part in the workshop

School/college inclusion criteria:

1. Secondary school with 6th form or dedicated 6th form college
2. State-funded
3. Sufficient resources available to host trial

Previous participant inclusion criteria as of 22/07/2021 to 01/09/2023:

1. Aged between 16 - 18 years
2. Enrolled at one of the schools taking part in the trial, with planned attendance until the end of the summer term
3. Sufficient English to provide valid informed consent and complete assessments
4. Be seeking help for stress (with or without teacher encouragement)
5. Able to attend and take part in the workshop

School/college inclusion criteria:

1. Secondary school with 6th form or dedicated 6th form college
2. State-funded
3. Mixed gender
4. Sufficient resources available to host trial

Previous participant inclusion criteria:

1. Aged between 16 - 18 years
2. Enrolled at one of the schools taking part in the trial, with planned attendance until the end of the summer term
3. Sufficient English to provide valid informed consent and complete assessments
4. Be seeking help for stress (with or without teacher encouragement)
5. Able to attend and take part in the workshop

Participant type(s)

Other

Age group

Mixed

Lower age limit

16 Years

Upper age limit

18 Years

Sex

Both

Target number of participants

900

Total final enrolment

900

Key exclusion criteria

Current participant exclusion criteria as of 01/09/2023:

1. Identified as actively suicidal (through risk assessment)
2. Current involvement with Child and Adolescent Mental Health Services (reviving psychological therapy for anxiety or depression)
3. Severe learning difficulties or psychosis

School/college exclusion criteria:

1. Further education college
2. Privately funded school/college
3. 6th form/College student population <70

Previous participant exclusion criteria as of 27/09/2022 to 01/09/2023:

1. Identified as actively suicidal (through risk assessment)
2. Current involvement with Child and Adolescent Mental Health Services
3. Severe learning difficulties or psychosis

School/college exclusion criteria:

1. Further education college
2. Single-gender school/college
3. Privately funded school/college
4. 6th form/College student population <70

Previous participant exclusion criteria as of 22/07/2021:

1. Identified as actively suicidal (through risk assessment)
2. Current involvement with Child and Adolescent Mental Health Services
3. Current involvement with school counselling
4. Severe learning difficulties or psychosis

School/college exclusion criteria:

1. Further education college
2. Single-gender school/college
3. Privately funded school/college
4. 6th form/College student population <70

Previous participant exclusion criteria:

1. Identified as actively suicidal (through risk assessment)

2. Current involvement with Child and Adolescent Mental Health Services
3. Current involvement with school counselling
4. Severe learning difficulties or psychosis

Date of first enrolment

01/09/2021

Date of final enrolment

01/12/2022

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

King's College London

Institute of Psychiatry, Psychology and Neuroscience (IoPPN)

16 De Crespigny Park

Camberwell

London

United Kingdom

SE5 8AF

Study participating centre

The University of Manchester

Oxford Rd

Manchester

United Kingdom

M13 9PL

Study participating centre

University of Bath

Claverton Down

Bath

United Kingdom

BA2 7AY

Study participating centre

University of Northampton

Waterside Campus,

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NN1 5PH

Sponsor information

Organisation

King's College London

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Sponsor type

University/education

Website

<http://www.kcl.ac.uk>

ROR

<https://ror.org/0220mzb33>

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

We aim to publish our trial protocol in a peer reviewed open access journal (e.g. Trials) prior to the end of recruitment. We aim to publish our main trial findings in high impact, peer-reviewed, open access journals (e.g. Lancet, BMJ).

We will ensure that the trial outcome is known to clinicians and academics by presenting our findings at relevant national meetings (e.g. Association of Child and Adolescent Mental Health) and International Conferences (World Congress of Behavioural and Cognitive Therapy; European Association of Cognitive and Behavioural Therapy).

Results will be made available to all participants and presented to teachers after the completion of the study. Young Advisors, as part of DISCOVER PPI, will help draft the results in different styles and formats using different media (video-blogs, tweets) that will be accessible for young people and their carers. Wide service user and public audiences will access background information and reports through a designated project website, the contents and features of which will be co-produced by Young Advisors. We will also raise public awareness of our results through press releases, and the media.

We will share our results with policy makers through the Improving Access to Psychological Therapies Programme for Children and Young People (IAPT-CYP) which is a national training programme which oversees the development of CAMHS training in evidence-based interventions. We will also disseminate our findings to the Department for Education and Department of Health in relation to the new national Green Paper initiatives which detail plans for national level frameworks to train graduate mental health workers who specifically run interventions in schools. We will also disseminate our findings to schools and academies, and relevant education conferences, teacher training, clinical psychology training courses and CAMHS courses eg MSc in Child Mental Health at KCL.

With regard to publications in scientific journals, we aim to publish four papers:

- i) Protocol
- ii) Clinical effectiveness
- iii) Economic evaluation
- iv) Process evaluation

Intention to publish date

01/04/2024

Individual participant data (IPD) sharing plan

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

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article		09/11/2022	11/11/2022	Yes	No
Results article		04/05/2024	07/05/2024	Yes	No
Results article	Clinical effectiveness and cost-effectiveness	13/05/2024	20/05/2024	Yes	No
Other publications	Secondary analysis	29/08/2024	02/09/2024	Yes	No