# CONSORT-EHEALTH (V 1.6.1) -Submission/Publication Form

The CONSORT-EHEALTH checklist is intended for authors of randomized trials evaluating web-based and Internet-based applications/interventions, including mobile interventions, electronic games (incl multiplayer games), social media, certain telehealth applications, and other interactive and/or networked electronic applications. Some of the items (e.g. all subitems under item 5 - description of the intervention) may also be applicable for other study designs.

The goal of the CONSORT EHEALTH checklist and guideline is to be

- a) a guide for reporting for authors of RCTs,
- b) to form a basis for appraisal of an ehealth trial (in terms of validity)

CONSORT-EHEALTH items/subitems are MANDATORY reporting items for studies published in the Journal of Medical Internet Research and other journals / scientific societies endorsing the checklist.

Items numbered 1., 2., 3., 4a., 4b etc are original CONSORT or CONSORT-NPT (nonpharmacologic treatment) items.

Items with Roman numerals (i., ii, iii, iv etc.) are CONSORT-EHEALTH extensions/clarifications.

As the CONSORT-EHEALTH checklist is still considered in a formative stage, we would ask that you also RATE ON A SCALE OF 1-5 how important/useful you feel each item is FOR THE PURPOSE OF THE CHECKLIST and reporting guideline (optional).

Mandatory reporting items are marked with a red \*.

In the textboxes, either copy & paste the relevant sections from your manuscript into this form - please include any quotes from your manuscript in QUOTATION MARKS, or answer directly by providing additional information not in the manuscript, or elaborating on why the item was not relevant for this study.

YOUR ANSWERS WILL BE PUBLISHED AS A SUPPLEMENTARY FILE TO YOUR PUBLICATION IN JMIR AND ARE CONSIDERED PART OF YOUR PUBLICATION (IF ACCEPTED). Please fill in these questions diligently. Information will not be copyedited, so please use proper spelling and grammar, use correct capitalization, and avoid abbreviations.

DO NOT FORGET TO SAVE AS PDF \_AND\_ CLICK THE SUBMIT BUTTON SO YOUR ANSWERS ARE IN OUR DATABASE !!!

Citation Suggestion (if you append the pdf as Appendix we suggest to cite this paper in the caption):

Eysenbach G, CONSORT-EHEALTH Group

CONSORT-EHEALTH: Improving and Standardizing Evaluation Reports of Web-based and Mobile Health Interventions

J Med Internet Res 2011;13(4):e126

URL: http://www.jmir.org/2011/4/e126/

doi: 10.2196/jmir.1923 PMID: 22209829



marcos.economides@unmind.com (not shared) Switch accounts



Draft saved

\*Required

Your name \*

First Last

Marcos Economides

Primary Affiliation (short), City, Country \*

University of Toronto, Toronto, Canada

Unmind Ltd, London, United Kingdom

Your e-mail address \*

abc@gmail.com

marcos.economides@unmind.com

Title of your manuscript \*

Provide the (draft) title of your manuscript.

Feasibility and preliminary efficacy of web-based and mobile interventions for common mental health problems in working adults: a multi-arm randomised pilot trial

# Name of your App/Software/Intervention \*

If there is a short and a long/alternate name, write the short name first and add the long name in brackets.

Unmind

# **Evaluated Version (if any)**

e.g. "V1", "Release 2017-03-01", "Version 2.0.27913"

Versions 2.56.0 - 2.59.0

# Language(s) \*

What language is the intervention/app in? If multiple languages are available, separate by comma (e.g. "English, French")

English

# URL of your Intervention Website or App

e.g. a direct link to the mobile app on app in appstore (itunes, Google Play), or URL of the website. If the intervention is a DVD or hardware, you can also link to an Amazon page.

https://unmind.com/

URL of an image/screenshot (optional)

Your answer

Accessibility * Can an enduser access the intervention presently?
access is free and open
access only for special usergroups, not open
access is open to everyone, but requires payment/subscription/in-app purchases
app/intervention no longer accessible
Other:
Drive en . Ma die al la die atie a /Die acce /Con ditie a *

# Primary Medical Indication/Disease/Condition \*

e.g. "Stress", "Diabetes", or define the target group in brackets after the condition, e.g. "Autism (Parents of children with)", "Alzheimers (Informal Caregivers of)"

Stress, Anxiety, Resilience

# Primary Outcomes measured in trial \*

comma-separated list of primary outcomes reported in the trial

As this was a pilot RCT, it was not powered for

#### Secondary/other outcomes

Are there any other outcomes the intervention is expected to affect?

Perceived Stress Scale-10 (PSS), Generalized Anxiety Disorder-7 (GAD-7) scale, Patient Health Questionnaire-8 (PHQ-8), Brief Resilience Scale (BRS)

Recommended "Dose" * What do the instructions for users say on how often the app should be used?
Approximately Daily
Approximately Weekly
Approximately Monthly
Approximately Yearly
as needed"
Other: Participants had two weeks to complete their allocated intervention, a
Approx. Percentage of Users (starters) still using the app as recommended after 3 months *
unknown / not evaluated
0-10%
11-20%
21-30%
31-40%
O 41-50%
51-60%
61-70%
71%-80%
81-90%
91-100%
Other:

Overall, was the app/intervention effective? *
yes: all primary outcomes were significantly better in intervention group vs control
partly: SOME primary outcomes were significantly better in intervention group vs control
on statistically significant difference between control and intervention
outcomes potentially harmful: control was significantly better than intervention in one or more
inconclusive: more research is needed
Other: As this was a pilot RCT, it was not powered for formal hypothesis testi
Auticle Drese vertice Ctotus (Ctores *
Article Preparation Status/Stage *  At which stage in your article preparation are you currently (at the time you fill in this form)
At which stage in your article preparation are you currently (at the time you fill in this form)
At which stage in your article preparation are you currently (at the time you fill in this form)  Onot submitted yet - in early draft status
At which stage in your article preparation are you currently (at the time you fill in this form)  Onot submitted yet - in early draft status  not submitted yet - in late draft status, just before submission
At which stage in your article preparation are you currently (at the time you fill in this form)  onot submitted yet - in early draft status  not submitted yet - in late draft status, just before submission  submitted to a journal but not reviewed yet
At which stage in your article preparation are you currently (at the time you fill in this form)  not submitted yet - in early draft status  not submitted yet - in late draft status, just before submission  submitted to a journal but not reviewed yet  submitted to a journal and after receiving initial reviewer comments

Journal *
If you already know where you will submit this paper (or if it is already submitted), please provide the journal name (if it is not JMIR, provide the journal name under "other")
onot submitted yet / unclear where I will submit this
Journal of Medical Internet Research (JMIR)
JMIR mHealth and UHealth
JMIR Serious Games
JMIR Mental Health
JMIR Public Health
JMIR Formative Research
Other JMIR sister journal
Other:
Is this a full powered effectiveness trial or a pilot/feasibility trial? *
Is this a full powered effectiveness trial or a pilot/feasibility trial? *  Pilot/feasibility
Pilot/feasibility
<ul><li>Pilot/feasibility</li><li>Fully powered</li></ul>
Pilot/feasibility
<ul> <li>Pilot/feasibility</li> <li>Fully powered</li> <li>Manuscript tracking number *</li> <li>If this is a JMIR submission, please provide the manuscript tracking number under "other" (The ms tracking number can be found in the submission acknowledgement email, or when you login as author in JMIR. If the paper is already published in JMIR, then the ms tracking number is the four-digit number at</li> </ul>
Pilot/feasibility  Fully powered  Manuscript tracking number *  If this is a JMIR submission, please provide the manuscript tracking number under "other" (The ms tracking number can be found in the submission acknowledgement email, or when you login as author in JMIR. If the paper is already published in JMIR, then the ms tracking number is the four-digit number at the end of the DOI, to be found at the bottom of each published article in JMIR)

# TITLE AND ABSTRACT

## 1a) TITLE: Identification as a randomized trial in the title

# 1a) Does your paper address CONSORT item 1a? \* I.e does the title contain the phrase "Randomized Controlled Trial"? (if not, explain the reason under "other") ves Other:

# 1a-i) Identify the mode of delivery in the title

Identify the mode of delivery. Preferably use "web-based" and/or "mobile" and/or "electronic game" in the title. Avoid ambiguous terms like "online", "virtual", "interactive". Use "Internet-based" only if Intervention includes non-web-based Internet components (e.g. email), use "computer-based" or "electronic" only if offline products are used. Use "virtual" only in the context of "virtual reality" (3-D worlds). Use "online" only in the context of "online support groups". Complement or substitute product names with broader terms for the class of products (such as "mobile" or "smart phone" instead of "iphone"), especially if the application runs on different platforms.

subitem not at all important essential

# Does your paper address subitem 1a-i? \*

Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The title identifies the study as including "web-based and mobile interventions".

# 1a-ii) Non-web-based components or important co-interventions in title

Mention non-web-based components or important co-interventions in title, if any (e.g., "with telephone support").

	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 1a-ii?

Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This study did not include any non-web-based components or co-interventions.

# 1a-iii) Primary condition or target group in the title

Mention primary condition or target group in the title, if any (e.g., "for children with Type I Diabetes") Example: A Web-based and Mobile Intervention with Telephone Support for Children with Type I Diabetes: Randomized Controlled Trial

subitem not at all important

essential

# Does your paper address subitem 1a-iii? \*

Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The title refers to the interventions as addressing "common mental health problems in working adults".

# 1b) ABSTRACT: Structured summary of trial design, methods, results, and conclusions

NPT extension: Description of experimental treatment, comparator, care providers, centers, and blinding status.

# 1b-i) Key features/functionalities/components of the intervention and comparator in the METHODS section of the ABSTRACT

Mention key features/functionalities/components of the intervention and comparator in the abstract. If possible, also mention theories and principles used for designing the site. Keep in mind the needs of systematic reviewers and indexers by including important synonyms. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

subitem not at all important

essential

# Does your paper address subitem 1b-i? \*

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The Abstract states that the "The study employed a fully remote, parallel, multi-arm, external pilot RCT, with three intervention arms and a no-intervention control group." The app evaluated in this study "incorporates evidence-based practices such as cognitive behavioral therapy (CBT) and acceptance and commitment therapy (ACT). Three brief, unquided interventions designed to address stress, anxiety, and resilience, respectively, were evaluated."

# 1b-ii) Level of human involvement in the METHODS section of the ABSTRACT

Clarify the level of human involvement in the abstract, e.g., use phrases like "fully automated" vs. "therapist/nurse/care provider/physician-assisted" (mention number and expertise of providers involved, if any). (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

3

subitem not at all important

essential

#### Does your paper address subitem 1b-ii?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 1b-iii) Open vs. closed, web-based (self-assessment) vs. face-to-face assessments in the METHODS section of the ABSTRACT

Mention how participants were recruited (online vs. offline), e.g., from an open access website or from a clinic or a closed online user group (closed usergroup trial), and clarify if this was a purely web-based trial, or there were face-to-face components (as part of the intervention or for assessment). Clearly say if outcomes were self-assessed through questionnaires (as common in web-based trials). Note: In traditional offline trials, an open trial (open-label trial) is a type of clinical trial in which both the researchers and participants know which treatment is being administered. To avoid confusion, use "blinded" or "unblinded" to indicated the level of blinding instead of "open", as "open" in web-based trials usually refers to "open access" (i.e. participants can self-enrol). (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

5 subitem not at all important essential

# Does your paper address subitem 1b-iii?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 1b-iv) RESULTS section in abstract must contain use data

Report number of participants enrolled/assessed in each group, the use/uptake of the intervention (e.g., attrition/adherence metrics, use over time, number of logins etc.), in addition to primary/secondary outcomes. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

5 subitem not at all important essential

#### Does your paper address subitem 1b-iv?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"A total of 383 working adult participants meeting trial eligibility were randomised, of which 356 (93.0%) were retained at t2. Objective engagement data showed that 67.8% of all participants randomised to an intervention arm completed their intervention."

# 1b-v) CONCLUSIONS/DISCUSSION in abstract for negative trials

Conclusions/Discussions in abstract for negative trials: Discuss the primary outcome - if the trial is negative (primary outcome not changed), and the intervention was not used, discuss whether negative results are attributable to lack of uptake and discuss reasons. (Note: Only report in the abstract what the main paper is reporting. If this information is missing from the main body of text, consider adding it)

	ı	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential

# Does your paper address subitem 1b-v?

Copy and paste relevant sections from the manuscript abstract (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# INTRODUCTION

2a) In INTRODUCTION: Scientific background and explanation of rationale

#### 2a-i) Problem and the type of system/solution

Describe the problem and the type of system/solution that is object of the study: intended as stand-alone intervention vs. incorporated in broader health care program? Intended for a particular patient population? Goals of the intervention, e.g., being more cost-effective to other interventions, replace or complement other solutions? (Note: Details about the intervention are provided in "Methods" under 5)

5

subitem not at all important

essential

# Does your paper address subitem 2a-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This is addressed in the background and rationale section of the Introduction. For example:

"There is growing interest in online and smartphone apps as a means of increasing the reach of mental health and wellbeing interventions. Digital platforms can offer a broad range of content within a standardized environment that is interactive and dynamic, whilst also being widely accessible, cost-efficient, and non-stigmatizing." However, "there is a lack of high-quality evidence regarding the impact of MHapps when delivered to employee groups or in workplace settings, suggesting a need for further research."

"To address this, we conducted an external pilot randomized controlled trial (RCT) as part of the initial testing of Unmind -- a novel, digital mental health platform for the workplace. Unmind provides employees with tools to help them track, maintain, and improve their mental health and wellbeing. It features a broad range of content that draws on multiple evidence-based approaches such as cognitive behavioral therapy (CBT), mindfulness meditation (MM), behavioral activation (BA), acceptance and commitment therapy (ACT), and positive psychology. Central to the platform are individual learning and development courses (known as Series) designed to address specific topics of mental health and wellbeing. Series are short, standalone interventions, typically ranging between 5-7 sessions, each of approximately 10 minutes in duration."

2a	-ii)	Scientific	background,	rationale:	What is k	known	about t	the (t	ype of)	system

Scientific background, rationale: What is known about the (type of) system that is the object of the study (be sure to discuss the use of similar systems for other conditions/diagnoses, if appropiate), motivation for the study, i.e. what are the reasons for and what is the context for this specific study, from which stakeholder viewpoint is the study performed, potential impact of findings [2]. Briefly justify the choice of the comparator.

	1	2	3	4	5	
subitem not at all important	0	0	0	0	$\circ$	essential

#### Does your paper address subitem 2a-ii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This is addressed in the background and rationale section of the Introduction. For example:

"Recent evidence suggests that only a fraction of for-profit mental health apps (MHapps) are supported by empirical evidence, with added concerns that such platforms are frequently characterized by low adherence. In addition, there is a lack of high-quality evidence regarding the impact of MHapps when delivered to employee groups or in workplace settings, suggesting a need for further research. To address this, we conducted an external pilot randomized controlled trial (RCT) as part of the initial testing of Unmind -- a novel, digital mental health platform for the workplace. Central to the platform are individual learning and development courses (known as Series) designed to address specific topics of mental health and wellbeing."

"The primary aim of this study was to evaluate the feasibility of the study methods, and three separate Unmind Series that address the topics of stress, anxiety, and resilience, respectively, in preparation for one or more future definitive RCTs. We chose to evaluate content relating to stress and anxiety as these are highly prevalent in the workplace. In addition, we chose to evaluate content relating to resilience, as evidence suggests it plays an important role in the prevention of mental health problems, and may thus be integral to the effectiveness of a preventative platform."

"We chose to include more than one intervention arm in this study, as this is more efficient than performing sequential two-arm trials, and increases the proportion of participants randomized to an intervention arm. This study thus employed a parallel, multi-arm, external pilot RCT design, and recruited UK-based, community-dwelling, working adult participants, who were randomly allocated to one of three intervention arms or to a no-intervention control group. We chose to implement a no-intervention control, as 1) participants were not selected on the basis of poor mental health, or seeking help for a problem, 2) recent evidence suggests that wait-list groups may introduce nocebo effects in psychotherapy trials, and 3) participants received monetary compensation for taking part."

2b) In INTRODUCTION: Specific objectives or hypotheses

## Does your paper address CONSORT subitem 2b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Consistent with recent guidelines on pilot trials, the primary aim of this study was to evaluate the feasibility of the study methods, and three separate Unmind Series that address the topics of stress, anxiety, and resilience, respectively, in preparation for one or more future definitive RCTs. A secondary aim was to establish the preliminary efficacy of each intervention with respect to self-report measures of stress, anxiety, symptoms of depression, and resilience, including establishing between-group effect sizes and 95% CIs (for each intervention compared to the control group)."

#### **METHODS**

3a) Description of trial design (such as parallel, factorial) including allocation ratio

# Does your paper address CONSORT subitem 3a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"This study was a parallel, multi-arm, external pilot randomized controlled trial (RCT) with pre- (t0) and post-intervention (t1; two weeks after t0) assessments and a 1-month followup (t2). Participants were randomly allocated to one of three brief, self-guided psychological interventions (Series) featured on the Unmind platform, or to a no-intervention control group, with a 1:1:1:1 allocation ratio."

3b) Important changes to methods after trial commencement (such as eligibility criteria), with reasons

## Does your paper address CONSORT subitem 3b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

There were no changes to the trial procedures or eligibility criteria during the conduct of this study.

# 3b-i) Bug fixes, Downtimes, Content Changes

Bug fixes, Downtimes, Content Changes: ehealth systems are often dynamic systems. A description of changes to methods therefore also includes important changes made on the intervention or comparator during the trial (e.g., major bug fixes or changes in the functionality or content) (5-iii) and other "unexpected events" that may have influenced study design such as staff changes, system failures/downtimes, etc. [2].

subitem not at all important

essential

# Does your paper address subitem 3b-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 4a) Eligibility criteria for participants

#### Does your paper address CONSORT subitem 4a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Inclusion criteria were 1) at least 18 years of age, 2) currently residing in the UK, 3) selfidentifying as being in full- or part-time employment, 4) having an active account on Prolific, 5) having access to an internet connection via a smartphone or desktop device, and 6) being fluent in English."

Computer / Internet literacy is often a clarified.	an implicit	t "de facto'	' eligibility	criterion -	this shoul	d be explicitly
	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential
indicate direct quotes from your man	m the mai uscript), o	nuscript (in or elaborat	e on this i	tem by pro	viding add	litional
Copy and paste relevant sections from indicate direct quotes from your man information not in the ms, or briefly e	m the mai uscript), o	nuscript (in or elaborat	e on this i	tem by pro	viding add	litional
Does your paper address sub Copy and paste relevant sections from indicate direct quotes from your man information not in the ms, or briefly e Your answer	m the mai uscript), c xplain wh	nuscript (ii or elaborat y the item	e on this i	tem by pro	oviding add evant for y	litional
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subitem not at all important

essential

## Does your paper address subitem 4a-ii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Participants were working adults recruited from the Prolific online recruitment platform, and the entire study was conducted online between January and March 2021. Prolific implements a pre-screening system that allows researchers to screen for eligibility without implementing a screening questionnaire. Prolific also supports recruitment of study samples representative of the national UK population with respect to age, sex, and ethnicity. The present study drew upon this feature to maximise the generalizability of study findings."

Measures taken to protect participant confidentially are detailed in the study protocol, which was preregistered on Open Science Framework (OSF) in December 2020. In brief, Prolific assigns a unique identifier (the 'Prolific ID') to each individual in their participant pool. Prolific IDs were automatically recorded alongside survey responses to allow matching of individual responses across study timepoints. Each participant randomized to an intervention arm was given a unique voucher code to redeem upon accessing the Unmind platform, which enabled the matching of objective in-app usage data to individual survey responses without accessing personal information.

#### 4a-iii) Information giving during recruitment

Information given during recruitment. Specify how participants were briefed for recruitment and in the informed consent procedures (e.g., publish the informed consent documentation as appendix, see also item X26), as this information may have an effect on user self-selection, user expectation and may also bias results.

subitem not at all important essential

#### Does your paper address subitem 4a-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 4b) Settings and locations where the data were collected

#### Does your paper address CONSORT subitem 4b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Participants were working adults recruited from the Prolific online recruitment platform, and the entire study was conducted online between January and March 2021."

Participants had to be residing in the UK at the time the study was conducted in order to take part.

#### 4b-i) Report if outcomes were (self-)assessed through online questionnaires

Clearly report if outcomes were (self-)assessed through online questionnaires (as common in web-based trials) or otherwise.

subitem not at all important essential

# Does your paper address subitem 4b-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

All preregistered secondary outcomes were self-report measures administered online.

"The entire study was conducted online between January and March 2021. All study assessments were hosted on the Qualtrics survey platform. All participants that completed a t0 assessment were invited to complete the t1 and t2 assessments via the Prolific recruitment platform."

4b-ii)	Report	how	institution	al affiliations	are	display	ved

Report how institutional affiliations are displayed to potential participants [on ehealth media], as affiliations with prestigious hospitals or universities may affect volunteer rates, use, and reactions with regards to an intervention. (Not a required item - describe only if this may bias results)

subitem not at all important

essential

# Does your paper address subitem 4b-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

5) The interventions for each group with sufficient details to allow replication, including how and when they were actually administered

# 5-i) Mention names, credential, affiliations of the developers, sponsors, and owners

Mention names, credential, affiliations of the developers, sponsors, and owners [6] (if authors/evaluators are owners or developer of the software, this needs to be declared in a "Conflict of interest" section or mentioned elsewhere in the manuscript).

subitem not at all important essential

#### Does your paper address subitem 5-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

5-ii) Describe the history	//development process
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Describe the history/development process of the application and previous formative evaluations (e.g., focus groups, usability testing), as these will have an impact on adoption/use rates and help with interpreting results.

subitem not at all important

# Does your paper address subitem 5-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 5-iii) Revisions and updating

Revisions and updating. Clearly mention the date and/or version number of the application/intervention (and comparator, if applicable) evaluated, or describe whether the intervention underwent major changes during the evaluation process, or whether the development and/or content was "frozen" during the trial. Describe dynamic components such as news feeds or changing content which may have an impact on the replicability of the intervention (for unexpected events see item 3b).

subitem not at all important

essential

essential

#### Does your paper address subitem 5-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

Provide information on quality assura provided [1], if applicable.				aoy ana q		
	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential
Does your paper address sub	oitem 5	-iv?				
Copy and paste relevant sections from indicate direct quotes from your man information not in the ms, or briefly expenses the section of the ms.	uscript), d	or elaborat	e on this i	tem by pro	viding add	litional
Your answer						
5-v) Ensure replicability by pu screenshots/screen-capture used Ensure replicability by publishing the and/or providing flowcharts of the ald	video,	and/or p	rovidinç	g flowch	arts of t	he algorithms
screenshots/screen-capture used	video, source co	and/or p ode, and/o used. Repl	rovidino r providino icability (i	g flowch g screensh .e., other r	arts of t	he algorithms
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screenshots/screen-capture used Ensure replicability by publishing the and/or providing flowcharts of the algorinciple be able to replicate the students.	source cogorithms y) is a half	and/or pode, and/o used. Replilmark of solution 2  -v? nuscript (in prelaboration)	r providing icability (i cientific re	g screensh.e., other reporting.  4	ots/screenesearchers  5  Ottation manoviding add	che algorithms n-capture video, s should in essential

## 5-vi) Digital preservation

Digital preservation: Provide the URL of the application, but as the intervention is likely to change or disappear over the course of the years; also make sure the intervention is archived (Internet Archive, webcitation.org, and/or publishing the source code or screenshots/videos alongside the article). As pages behind login screens cannot be archived, consider creating demo pages which are accessible without login.

3

subitem not at all important

essential

# Does your paper address subitem 5-vi?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 5-vii) Access

Access: Describe how participants accessed the application, in what setting/context, if they had to pay (or were paid) or not, whether they had to be a member of specific group. If known, describe how participants obtained "access to the platform and Internet" [1]. To ensure access for editors/reviewers/readers, consider to provide a "backdoor" login account or demo mode for reviewers/readers to explore the application (also important for archiving purposes, see vi).

> 3 5

subitem not at all important essential

## Does your paper address subitem 5-vii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"After randomization, participants assigned to one of the intervention arms were sent a message via Prolific's anonymous inbox system with instructions on how to access their intervention, including using a unique voucher code to sign-up to the Unmind platform. [Unmind] can be accessed via web, mobile or tablet (Android or iOS), and the Unmind smartphone app can be downloaded via the Apple or Google Play stores."

"Participants were offered a £7 incentive for completing each of the three study assessments, delivered via Prolific. However, participant reimbursement was not contingent upon intervention adherence."

# 5-viii) Mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework

Describe mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework [6] used to design them (instructional strategy [1], behaviour change techniques, persuasive features, etc., see e.g., [7, 8] for terminology). This includes an in-depth description of the content (including where it is coming from and who developed it) [1]," whether [and how] it is tailored to individual circumstances and allows users to track their progress and receive feedback" [6]. This also includes a description of communication delivery channels and - if computermediated communication is a component - whether communication was synchronous or asynchronous [6]. It also includes information on presentation strategies [1], including page design principles, average amount of text on pages, presence of hyperlinks to other resources, etc. [1].

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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem 5-viii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

A detailed description of the app evaluated in this study, together with the three specific interventions evaluated, is included in the Interventions section of the manuscript. For example:

"Unmind is a digital platform designed to be used by working adults to measure, manage and improve their mental health and wellbeing. It can be accessed via web, mobile or tablet (Android or iOS), and the Unmind smartphone app can be downloaded via the Apple or Google Play stores. The platform features a wide range of resources and content created by academics and clinicians with expertise in adult mental health, and rooted in evidencebased practices such as cognitive behavioral therapy (CBT), mindfulness meditation (MM), behavioral activation (BA), acceptance and commitment therapy (ACT), and positive psychology."

"The present study focused on evaluating Series. Series are brief, unguided learning and development courses, typically consisting of between 5-7 sessions, each of approximately 10 minutes in duration, that are designed to be completed sequentially, and include a mix of audio and video content, infographics, and interaction with a chatbot (see Figure 1 for example screenshots)."

#### 5-ix) Describe use parameters

Describe use parameters (e.g., intended "doses" and optimal timing for use). Clarify what instructions or recommendations were given to the user, e.g., regarding timing, frequency, heaviness of use, if any, or was the intervention used ad libitum.

2 3 subitem not at all important essential

#### Does your paper address subitem 5-ix?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 5-x) Clarify the level of human involvement

Clarify the level of human involvement (care providers or health professionals, also technical assistance) in the e-intervention or as co-intervention (detail number and expertise of professionals involved, if any, as well as "type of assistance offered, the timing and frequency of the support, how it is initiated, and the medium by which the assistance is delivered". It may be necessary to distinguish between the level of human involvement required for the trial, and the level of human involvement required for a routine application outside of a RCT setting (discuss under item 21 - generalizability).

5 subitem not at all important essential

# Does your paper address subitem 5-x?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 5-xi) Report any prompts/reminders used

Report any prompts/reminders used: Clarify if there were prompts (letters, emails, phone calls, SMS) to use the application, what triggered them, frequency etc. It may be necessary to distinguish between the level of prompts/reminders required for the trial, and the level of prompts/reminders for a routine application outside of a RCT setting (discuss under item 21 – generalizability).

3 5 subitem not at all important essential

## Does your paper address subitem 5-xi? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Participants randomized to one of the intervention arms received reminder messages at days 5 and 10 of the intervention (delivered via Prolific's anonymous inbox system), encouraging them to complete all intervention sessions. For the purposes of the study, participants were instructed to only engage with their allocated intervention, despite having access to the full Unmind platform, and were excluded from standard email campaigns that encourage interaction with content not evaluated in this study."

# 5-xii) Describe any co-interventions (incl. training/support)

Describe any co-interventions (incl. training/support): Clearly state any interventions that are provided in addition to the targeted eHealth intervention, as ehealth intervention may not be designed as stand-alone intervention. This includes training sessions and support [1]. It may be necessary to distinguish between the level of training required for the trial, and the level of training for a routine application outside of a RCT setting (discuss under item 21 – generalizability.

subitem not at all important essential

#### Does your paper address subitem 5-xii? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Each intervention arm was designed to be a standalone intervention. The study did not include any co-interventions.

6a) Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed

# Does your paper address CONSORT subitem 6a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

All primary and secondary outcomes are detailed in the Methods section.

"Preregistered primary outcomes included:

- Feasibility: Recruitment, intervention uptake, and retention (at t1 and t2).
- Acceptability: Intervention adherence (the proportion of participants completing all 7 intervention sessions), participant satisfaction, and reasons for discontinuing the intervention.
- Engagement: Average intervention sessions completed, and three questions adapted from Sections A and B of the Mobile App Rating Scale (MARS).
- Transferability: One question adapted from Section E of the MARS.
- Relevance: One question assessing subjective relevance of the intervention.
- Negative effects: One question adapted from recent guidelines on assessing negative effects, and the proportion of participants that reliably deteriorated from t0 to t1 and t1 to t2 across all secondary outcome measures (for each intervention arm and relative to the nointervention control), as per the guidelines.

Primary outcomes were measured through a combination of objective data (captured by the Unmind platform) and self-reported data captured at t1 (and included in the Multimedia Appendix)."

The preliminary efficacy of each intervention arm was assessed via self-report outcome measures delivered pre- (t0) and post-intervention (t1), and at 1-month follow-up (t2). Preregistered secondary outcomes included measures capturing symptoms of common mental health problems, and included the following:

- The Perceived Stress Scale-10 (PSS)
- The Generalized Anxiety Disorder-7 (GAD-7) scale
- The Patient Health Questionnaire-8 (PHQ-8)
- Brief Resilience Scale (BRS)

6a-i) Online questionnaires: describe if they were validated for online use and apply CHERRIES items to describe how the questionnaires were designed/deployed

If outcomes were obtained through online questionnaires, describe if they were validated for online use and apply CHERRIES items to describe how the questionnaires were designed/deployed [9].

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subitem not at all important	0	0	0	0	0	essential

Does your paper address sub	oitem 6	a-i?				
Copy and paste relevant sections from	m manuso	cript text				
Your answer						
6a-ii) Describe whether and defined/measured/monitored Describe whether and how "use" (incl (logins, logfile analysis, etc.). Use/ad reported in any ehealth trial.	d uding inte	ensity of u	se/dosage	e) was defi	ined/meas	ured/monitored
	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential
Your answer  6a-iii) Describe whether, how			alitative	feedba	ck from	participants
was obtained		·				
Describe whether, how, and when qua emails, feedback forms, interviews, fo			om partici	pants was	obtained (	e.g., through
	1	2	3	4	5	
subitem not at all important	0	0	0	0	0	essential
Does your paper address sub Copy and paste relevant sections from						
Your answer						

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# 6b) Any changes to trial outcomes after the trial commenced, with reasons

#### Does your paper address CONSORT subitem 6b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

There were no changes to any trial outcomes.

# 7a) How sample size was determined

NPT: When applicable, details of whether and how the clustering by care provides or centers was addressed

# 7a-i) Describe whether and how expected attrition was taken into account when calculating the sample size

Describe whether and how expected attrition was taken into account when calculating the sample size.

subitem not at all important essential

# Does your paper address subitem 7a-i?

Copy and paste relevant sections from manuscript title (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The present study was powered for confidence intervals on feasibility outcomes. A sample size calculation indicated that approximately 100 participants were required to estimate feasibility outcomes with a margin of error ≤ 10% (based on a conservative population proportion of 50% for retention and/or adherence, and a 95% CI). This is consistent with previous guidelines suggesting that 60-100 participants per intervention arm is optimal for estimating binary outcomes in pilot RCTs. We therefore aimed to recruit 400 participants in total.

# 7b) When applicable, explanation of any interim analyses and stopping quidelines

#### Does your paper address CONSORT subitem 7b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We did not implement any interim analyses or stopping guidelines.

#### 8a) Method used to generate the random allocation sequence

NPT: When applicable, how care providers were allocated to each trial group

#### Does your paper address CONSORT subitem 8a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Randomization occurred at the end of the baseline assessment, and was implemented via the Qualtrics "randomizer" feature".

# 8b) Type of randomisation; details of any restriction (such as blocking and block size)

# Does your paper address CONSORT subitem 8b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Qualtrics implements block randomization to ensure balanced groups.

9) Mechanism used to implement the random allocation sequence (such as sequentially numbered containers), describing any steps taken to conceal the sequence until interventions were assigned

#### Does your paper address CONSORT subitem 9? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Randomization was implemented via the Qualtrics "randomizer" feature, which uses block randomization to ensure balanced groups. The research team remained blind to group assignment for the duration of data collection."

10) Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions

# Does your paper address CONSORT subitem 10? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Participants were automatically allocated and informed of their study arm at the end of the t0 assessment, using built-in Qualtrics features.

"The research team remained blind to group assignment for the duration of data collection. After randomization, participants assigned to one of the intervention arms were sent a message via Prolific's anonymous inbox system with instructions on how to access their intervention, including using a unique voucher code to sign-up to the Unmind platform."

11a) If done, who was blinded after assignment to interventions (for example, participants, care providers, those assessing outcomes) and how

NPT: Whether or not administering co-interventions were blinded to group assignment

11a-i) Specif	y who was	blinded,	and who	wasn't
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Specify who was blinded, and who wasn't. Usually, in web-based trials it is not possible to blind the participants [1, 3] (this should be clearly acknowledged), but it may be possible to blind outcome assessors, those doing data analysis or those administering co-interventions (if any).

subitem not at all important

essential

# Does your paper address subitem 11a-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"It was not possible to blind participants to group assignment. The research team remained blind to group assignment for the duration of data collection, but were unblinded during data analysis."

# 11a-ii) Discuss e.g., whether participants knew which intervention was the "intervention of interest" and which one was the "comparator"

Informed consent procedures (4a-ii) can create biases and certain expectations - discuss e.g., whether participants knew which intervention was the "intervention of interest" and which one was the "comparator".

> 2 3

subitem not at all important essential

#### Does your paper address subitem 11a-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 11b) If relevant, description of the similarity of interventions

(this item is usually not relevant for ehealth trials as it refers to similarity of a placebo or sham intervention to a active medication/intervention)

#### Does your paper address CONSORT subitem 11b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

A description of the three intervention arms is included in the Methods section, which allows for a comparison of similarities and differences between them. The study utilised a nointervention control group, and thus any description of similarities between the study interventions and control group is not relevant.

# 12a) Statistical methods used to compare groups for primary and secondary outcomes

NPT: When applicable, details of whether and how the clustering by care providers or centers was addressed

#### Does your paper address CONSORT subitem 12a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The manuscript details all statistical methods used to compare groups across both primary and secondary outcomes. For example:

"Fisher's exact test of independence was used to compare categorical responses (such as post-intervention ratings) between intervention arms (with P values computed using Monte Carlo simulation and 2000 iterations). Where tests were significant, post-hoc pairwise comparisons between study arms were performed (using FDR methods to adjust P values)."

Secondary outcome measures were analysed using "linear mixed effects models (LMMs) with restricted information maximum likelihood estimation (via the lme4 package in R). Each model included a within-subject factor "time" (with levels: t0, t1, and t2), a betweensubject factor "group" (CS, WW, BR, or Control), and their interaction as fixed effects, and a separate baseline for each participant."

# 12a-i) Imputation techniques to deal with attrition / missing values

Imputation techniques to deal with attrition / missing values: Not all participants will use the intervention/comparator as intended and attrition is typically high in ehealth trials. Specify how participants who did not use the application or dropped out from the trial were treated in the statistical analysis (a complete case analysis is strongly discouraged, and simple imputation techniques such as LOCF may also be problematic [4]).

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essential

subitem not at all important

# Does your paper address subitem 12a-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"Secondary outcome measures were analysed using both intention-to-treat (ITT) and per protocol (PP) approaches. For the ITT analysis, all participants with complete t0 data were included, regardless of intervention adherence and any deviation from instructions. Participants were excluded from the PP analysis if they failed to complete all 7 intervention sessions, if they started an Unmind Series outside of their allocated intervention, or if they were lost to follow-up at t1."

Analyses were performed using linear mixed effects models (LMMs), which are capable of handling missing data under the 'missing at random' assumption, and are considered superior to other missing data techniques such as single imputation.

12b) Methods for additional analyses, such as subgroup analyses and adjusted analyses

#### Does your paper address CONSORT subitem 12b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

For each outcome in the ITT analysis, we report both unadjusted and Tukey-adjusted P values for between-group contrasts that compare change from t0 to t1, and t0 to t2, for each intervention arm (and all intervention arms combined) relative to the control group.

In addition, "Subgroup analyses were performed to examine change in secondary outcome measures for participants that self-report having at least mild symptoms at t0, or at least moderately low resilience. For simplicity, we report a comparison of Hedge's g effect sizes for these subgroups versus the ITT analysis, but omit the full output of each LMM. In addition, we analysed intervention feedback ratings for these subgroups separately."

X26) REB/IRB Approval and Ethical Considerations [recommended as subheading under "Methods"] (not a CONSORT item)

X26-i) Comment on ethics co	ommitte	ee appro	oval			
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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem X26-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

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x26-ii) Outline informed cons	sent pro	ocedure	S			
Outline informed consent procedures etc.?), and what information was proviousent documents.	-				•	
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subitem not at all important	0	0	0	0	0	essential

#### Does your paper address subitem X26-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### X26-iii) Safety and security procedures

Safety and security procedures, incl. privacy considerations, and any steps taken to reduce the likelihood or detection of harm (e.g., education and training, availability of a hotline)

subitem not at all important

essential

#### Does your paper address subitem X26-iii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### **RESULTS**

# 13a) For each group, the numbers of participants who were randomly assigned, received intended treatment, and were analysed for the primary outcome

NPT: The number of care providers or centers performing the intervention in each group and the number of patients treated by each care provider in each center

#### Does your paper address CONSORT subitem 13a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

These figures are included in a detailed CONSORT flow diagram (Figure 2). In addition, we include the following in the Results:

"One participant withdrew consent post-randomization and 16 participants reported not being employed at t0 (in contrast to their prescreening responses) and were excluded from all analyses. Of the remaining 383 eligible participants, 367 (95.8%) completed an assessment at t1 and 356 (93.0%) completed an assessment at t2. A summary of intervention engagement is shown in Table 2. Of the 289 participants randomised to an intervention, 237 (82.0%) started their allocated intervention, and 196 (67.8%) completed all intervention sessions. Of those completing at least one session, 82.7% proceeded to complete all sessions, which differed across intervention arms (P=.02)."

In the Methods we state: "Secondary outcome measures were analysed using both intention-to-treat (ITT) and per protocol (PP) approaches. For the ITT analysis, all participants with complete t0 data were included, regardless of intervention adherence and any deviation from instructions. Participants were excluded from the PP analysis if they failed to complete all 7 intervention sessions, if they started an Unmind Series outside of their allocated intervention, or if they were lost to follow-up at t1."

13b) For each group, losses and exclusions after randomisation, together with reasons

Does your paper address CONSORT subitem 13b? (NOTE: Preferably, this is shown in a CONSORT flow diagram) \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

We include a detailed CONSORT flow diagram (Figure 2) that reports on losses and exclusions with reasons (where known) for each study arm.

#### 13b-i) Attrition diagram

Strongly recommended: An attrition diagram (e.g., proportion of participants still logging in or using the intervention/comparator in each group plotted over time, similar to a survival curve) or other figures or tables demonstrating usage/dose/engagement.

subitem not at all important

essential

#### Does your paper address subitem 13b-i?

Copy and paste relevant sections from the manuscript or cite the figure number if applicable (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 14a) Dates defining the periods of recruitment and follow-up

#### Does your paper address CONSORT subitem 14a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"The study was enrolled in January 2021 within 48 hours of launching the study advert, and data were collected between January to March 2021."

"The study included pre- (t0) and post-intervention (t1; two weeks after t0) assessments and a 1-month follow-up (t2). Participants had two weeks to complete their allocated intervention, and were free to progress through the intervention at their own pace."

#### 14a-i) Indicate if critical "secular events" fell into the study period

Indicate if critical "secular events" fell into the study period, e.g., significant changes in Internet resources available or "changes in computer hardware or Internet delivery resources"

subitem not at all important

essential

#### Does your paper address subitem 14a-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 14b) Why the trial ended or was stopped (early)

#### Does your paper address CONSORT subitem 14b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The trial did not stop early.

# 15) A table showing baseline demographic and clinical characteristics for each group

NPT: When applicable, a description of care providers (case volume, qualification, expertise, etc.) and centers (volume) in each group

#### Does your paper address CONSORT subitem 15? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Table 1 includes participant demographics and baseline variables for the overall sample and split by study arm.

#### 15-i) Report demographics associated with digital divide issues

In ehealth trials it is particularly important to report demographics associated with digital divide issues, such as age, education, gender, social-economic status, computer/Internet/ehealth literacy of the participants, if known.

subitem not at all important

essential

#### Does your paper address subitem 15-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The study recruited a sample representative of the UK population with respect to age, sex, and ethnicity. We report on age, education, sex, ethnicity, employment status, and workplace industry in Table 1. We did not collect data on socio-economic status or ehealth literacy, though participants were asked whether they had engaged with talking therapy or a mental health app within a 6-month period prior to taking part in the study. Participants were also required to have access to an internet connection via a smartphone or desktop device to take part in the study.

16) For each group, number of participants (denominator) included in each analysis and whether the analysis was by original assigned groups

#### 16-i) Report multiple "denominators" and provide definitions

Report multiple "denominators" and provide definitions: Report N's (and effect sizes) "across a range of study participation [and use] thresholds" [1], e.g., N exposed, N consented, N used more than x times, N used more than y weeks, N participants "used" the intervention/comparator at specific pre-defined time points of interest (in absolute and relative numbers per group). Always clearly define "use" of the intervention.

3

subitem not at all important

essential

#### Does your paper address subitem 16-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

All relevant denominators are included in the manuscript figures and tables.

"Intervention sessions were characterised as "complete" if all components of the session were played, and thus engagement was defined as an integer ranging from 0-7 complete sessions per participant." Intervention engagement was based on objective in-app data provided by Unmind (the creator of the interventions evaluated in this study).

"Secondary outcome measures were analysed using both intention-to-treat (ITT) and per protocol (PP) approaches. For the ITT analysis, all participants with complete t0 data were included, regardless of intervention adherence and any deviation from instructions. Participants were excluded from the PP analysis if they failed to complete all 7 intervention sessions, if they started an Unmind Series outside of their allocated intervention, or if they were lost to follow-up at t1."

#### 16-ii) Primary analysis should be intent-to-treat

Primary analysis should be intent-to-treat, secondary analyses could include comparing only "users", with the appropriate caveats that this is no longer a randomized sample (see 18-i).

subitem not at all important

essential

#### Does your paper address subitem 16-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

17a) For each primary and secondary outcome, results for each group, and the estimated effect size and its precision (such as 95% confidence interval)

#### Does your paper address CONSORT subitem 17a? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

As this is a pilot trial, intervention efficacy was evaluated as a secondary aim, and all results are considered preliminary. Between-group Hedge's g effect sizes (and 95% confidence intervals) for the four secondary outcome measures are included in Table 6, for each intervention arm (and the pooled effect of all intervention arms) relative to the control group. These include effect sizes for both intention-to-treat (ITT) and subgroup analyses.

### 17a-i) Presentation of process outcomes such as metrics of use and intensity of use

In addition to primary/secondary (clinical) outcomes, the presentation of process outcomes such as metrics of use and intensity of use (dose, exposure) and their operational definitions is critical. This does not only refer to metrics of attrition (13-b) (often a binary variable), but also to more continuous exposure metrics such as "average session length". These must be accompanied by a technical description how a metric like a "session" is defined (e.g., timeout after idle time) [1] (report under item 6a).

	'	2	3	7	0	
subitem not at all important	0	0	0	0	0	essential

Б

#### Does your paper address subitem 17a-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 17b) For binary outcomes, presentation of both absolute and relative effect sizes is recommended

#### Does your paper address CONSORT subitem 17b? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

None of the intervention outcomes included in this study were binary.

# 18) Results of any other analyses performed, including subgroup analyses and adjusted analyses, distinguishing pre-specified from exploratory

#### Does your paper address CONSORT subitem 18? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Subgroup analyses were performed for all secondary outcome measures to explore intervention effects for participants self-reporting at least mild symptoms (or moderately low resilience) at t0. These are reported in the manuscript Results. Per protocol (PP) analyses are reported in the Multimedia Appendix only.

Several exploratory analyses (not pre-specified) are reported in the Results. Several minor deviations were made from the preregistered data analysis plan in order to streamline analyses, simplify the reporting of results, and provide additional statistical comparisons between the three intervention arms for relevant primary outcomes. These differences are reported in the Multimedia Appendix.

#### 18-i) Subgroup analysis of comparing only users

A subgroup analysis of comparing only users is not uncommon in ehealth trials, but if done, it must be stressed that this is a self-selected sample and no longer an unbiased sample from a randomized trial (see 16-iii).

subitem not at all important

essential

#### Does your paper address subitem 18-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### 19) All important harms or unintended effects in each group

(for specific guidance see CONSORT for harms)

#### Does your paper address CONSORT subitem 19? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

There were no privacy breaches or technical problems during or after the study.

As per recent guidelines, we included one post-intervention question assessing perceived negative effects for each intervention arm. We also report on the proportion of participants that reliably deteriorated from t0 to t1 and t1 to t2 across all secondary outcome measures (for each intervention arm and relative to the no-intervention control; see Table 4). These data are reported in full in the Results.

Include privacy breaches, technical problems. This does not only include physical "harm" to participants, but also incidents such as perceived or real privacy breaches [1], technical problems, and other unexpected/unintended incidents. "Unintended effects" also includes unintended positive effects [2].

subitem not at all important

essential

#### Does your paper address subitem 19-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 19-ii) Include qualitative feedback from participants or observations from staff/researchers

Include qualitative feedback from participants or observations from staff/researchers, if available, on strengths and shortcomings of the application, especially if they point to unintended/unexpected effects or uses. This includes (if available) reasons for why people did or did not use the application as intended by the developers.

subitem not at all important

essential

#### Does your paper address subitem 19-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### DISCUSSION

# 22) Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence

NPT: In addition, take into account the choice of the comparator, lack of or partial blinding, and unequal expertise of care providers or centers in each group

# 22-i) Restate study questions and summarize the answers suggested by the data, starting with primary outcomes and process outcomes (use)

Restate study questions and summarize the answers suggested by the data, starting with primary outcomes and process outcomes (use).

essential

subitem not at all important

#### Does your paper address subitem 22-i? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

The first three paragraphs of the Discussion cover the requirements of this subitem. For example: "Intervention research can be undermined by problems with intervention delivery, acceptability, participant retention, and smaller than anticipated effect sizes. Guidelines therefore suggest conducting pilot studies to test trial feasibility, and to estimate important trial parameters, prior to running a definitive trial. This study reports on the feasibility and preliminary efficacy of three interventions featured on the Unmind MHapp, when delivered to working adults in the UK. The study methods and interventions were found to be feasible, and all preregistered progression criteria were met. This suggests that a definitive trial is now warranted, though a number of minor proposed protocol amendments are discussed."

"Participant retention and intervention adherence were largely consistent with or higher than comparable studies. For instance, only 7% of participants were lost to attrition at follow-up, which compares favourably to recent meta-analyses reporting average attrition rates of 23-48% for MHapp trials. Objective engagement data suggested that 68% of randomized participants (and 87% of those starting their intervention) completed all intervention sessions, which is similar to or higher than average completion rates ranging between 30-65% for other MHapp interventions."

	, suggest	future rese	00	future ı	research	1
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subitem not at all important	0	0	0	0	0	essential
Does your paper address sub Copy and paste relevant sections from indicate direct quotes from your man information not in the ms, or briefly e	m the mar uscript), c	nuscript (ir or elaborat	e on this it	tem by pro	viding add	itional
20) Trial limitations, address relevant, multiplicity of anal	•	ırces of	potenti	al bias,	impreci	sion, and, if
20-i) Typical limitations in eh						
Typical limitations in ehealth trials: P look at a multiplicity of outcomes, ind intervention/usability issues, biases t	creasing ri	isk for a Ty	pe I error.	Discuss b	iases due	to non-use of the
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subitem not at all important	0	0	0	0	0	essential

#### 21) Generalisability (external validity, applicability) of the trial findings

NPT: External validity of the trial findings according to the intervention, comparators, patients, and care providers or centers involved in the trial

#### 21-i) Generalizability to other populations

Generalizability to other populations: In particular, discuss generalizability to a general Internet population, outside of a RCT setting, and general patient population, including applicability of the study results for other organizations

1 2 3 4 5

subitem not at all important

# O O O O essential

#### Does your paper address subitem 21-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

# 21-ii) Discuss if there were elements in the RCT that would be different in a routine application setting

Discuss if there were elements in the RCT that would be different in a routine application setting (e.g., prompts/reminders, more human involvement, training sessions or other co-interventions) and what impact the omission of these elements could have on use, adoption, or outcomes if the intervention is applied outside of a RCT setting.

1 2 3 4 5

subitem not at all important O O O essential

#### Does your paper address subitem 21-ii?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### OTHER INFORMATION

#### 23) Registration number and name of trial registry

#### Does your paper address CONSORT subitem 23? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

"The trial was preregistered at International Standard Randomized Controlled Trial Number (ISRCTN) 80309011, and a full study protocol was preregistered at Open Science Framework (OSF) in December 2020."

#### 24) Where the full trial protocol can be accessed, if available

#### Does your paper address CONSORT subitem 24? \*

Cite a Multimedia Appendix, other reference, or copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

A full study protocol was preregistered at Open Science Framework (OSF) in December 2020. This will remain under embargo until peer-reviewed publication of the manuscript.

#### 25) Sources of funding and other support (such as supply of drugs), role of funders

#### Does your paper address CONSORT subitem 25? \*

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

This study was funded in full by Unmind Ltd., the creator of the interventions evaluated.

#### X27) Conflicts of Interest (not a CONSORT item)

#### X27-i) State the relation of the study team towards the system being evaluated

In addition to the usual declaration of interests (financial or otherwise), also state the relation of the study team towards the system being evaluated, i.e., state if the authors/evaluators are distinct from or identical with the developers/sponsors of the intervention.

subitem not at all important

essential

#### Does your paper address subitem X27-i?

Copy and paste relevant sections from the manuscript (include quotes in quotation marks "like this" to indicate direct quotes from your manuscript), or elaborate on this item by providing additional information not in the ms, or briefly explain why the item is not applicable/relevant for your study

Your answer

#### About the CONSORT EHEALTH checklist

As a result of using this checklist, did you make changes in your manuscript? \*

yes, major changes

yes, minor changes

no

What were the most important changes you made as a result of using this checklist?

Your answer

How much time did you spend on going through the checklist INCLUDING making changes in your manuscript \*

The corresponding author spent approximately 4 hours completing the checklist and making relevant amendments to the manuscript.

As a result of using this checklist, do you think your manuscript has improved? *					
yes					
O no					
Other:					
Would you like to become involved in the CONSORT FLIFALTLI group?					
Would you like to become involved in the CONSORT EHEALTH group?  This would involve for example becoming involved in participating in a workshop and writing an "Explanation and Elaboration" document					
O yes					
O no					
Other:					
Any other comments or questions on CONSORT EHEALTH					
Your answer					

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