CONSORT-EHEALTH Checklist V1.6.2 Report	Manuscript Number	12882
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3/12/2019 0:29:28		
by Emily Brindal		
A smartphone phone application designed to support weight loss maintenance and wellbeing: Results of a randomized trial for the MotiMate app		
1a-i) Identify the mode of delivery in the title		
A smartphone phone application 1a-ii) Non-web-based components or important co-interventions in title		
not relevant, delivered through app only		
1a-iii) Primary condition or target group in the title weight loss maintenance		
ABSTRACT		
"The intervention app included more persuasive and interactive features to help users track their weight, food intake and physical activity and prompted		
users to enter data each day through notifications and included a mood and stress workshopping tool."		
"Both study apps had the same visual appearance and were designed to deliver all intervention content without face-to-face contact."		
1b-iii) Open vs. closed, web-based (self-assessment) vs. face-to-face assessments in the METHODS section of the ABSTRACT "Participants were recruited through advertising and existing databases.		
At all visits the clinical trial manager recorded body weight and participants then completed a computer-delivered survey which measured psychological and		
1b-iv) RESULTS section in abstract must contain use data		
"Eighty-eight adults who had lost and maintained at least 5% of their body weight within last 2 years were randomised (45 MotiMate, 43, control). Of 88 starters, 75% (n=66) were female and 69% (n=61) completed week 24 with no differences in drop-out by condition (χ 2(1,87)=0.70, P=0.490)."		
"Of 61 completers, 53% (n=32) remained within 2% of their starting weight. Significant increases occurred over 24 weeks for satisfaction with life and		
that those receiving the full app remained active users of the app for 46 days longer than controls (P=0.017). Users of the full version of the app also		
reported that they felt more supported than those with the control app (P=0.006)."		
While some aspects of the intervention app such as usage and user feedback showed promise, there were few observable effects on behavioral and		
psychological outcomes. Future evaluation of the app may need to implement more progressive research methods of target more specific populations in order to better understand the utility of the coping interface."		
INTRODUCTION 22-i) Problem and the type of system/solution		
"According to the World Health Organisation, 1.9 billion adults were overweight or obese in 2016 [1]. In response to the challenge of weight management,		
many weight loss programs have been developed. Despite the fact that many people have initial success in changing their dietary and/or physical activity behaviors to lose weight, few successfully maintain their lost weight over the longer term [2]. For example, only 20% of people from the National Weight		
Control Registry in the US managed to maintain initial weight losses after 2 years [3]. Successfully maintaining weight loss for 2-5 years greatly increases the likelihood of longer term success [4] as does increasing the duration of exposure to the weight loss program [5]. However, it currently appears as		
though weight loss is regained in a linear fashion with few mitigating factors [6]."		
"Recent technological progress has resulted in a shift from web-based to smart phone-based weight management interventions, with or without face-to-face		
support with some promising results [9, 10]. Mobile phones could be used to extend the active duration of engagement with a weight management program, even via simple features as a text message [11]. Therefore, applications (apps) may be a useful delivery mechanism for prolonging weight management		
attempts and consequently weight-loss maintenance. Digital interventions are often described as more cost-effective and able to be wider-reaching than more intensive face-to-face programs. As technology becomes more sophisticated, the ability to provide just-in-time intervention means that portable		
devices may also be able to provide intervention at critical times."		
"Therefore, the aim of the current study was to develop and test a theoretically and evidence-based mobile phone intervention for weight loss maintenance"		
 2a-ii) Scientific background, rationale: What is known about the (type of) system		
"Recent technological progress has resulted in a shift from web-based to smart phone-based weight management interventions, with or without face-to-face support with some promising results [9, 10]. Mobile phones could be used to extend the active duration of engagement with a weight management program.		
even via simple features as a text message [11]. Therefore, applications (apps) may be a useful delivery mechanism for prolonging weight management		
auempis and consequently weight-loss maintenance.		
"a review of just-in-time interventions suggested that portable devices may be useful to enhance cognitive-behavioral therapy for weight loss programs [12]. Mobile phones also provide an avenue for regular self-monitoring which have been strongly linked with successful behavior change, particularly in weight		
management [13, 14]. "		
"Previous authors have emphasised the importance of theory-based interventions that use scientific evidence and utilise the functionality of modern phones		
L23, 24, 25]. Does your paper address CONSORT subitem 2b?		
"Specifically, we aimed to design and evaluate an app to improve psychological wellbeing, engagement with the intervention and, ultimately, weight maintenance outcomes."		
METHODS		
3a) CONSORT: Description of trial design (such as parallel, factorial) including allocation ratio		
3b) CONSORT: Important changes to methods after trial commencement (such as eligibility criteria), with reasons		
3b-i) Bug fixes, Downtimes, Content Changes		
"Due to technical issues with the ann, an undate was released after the first week of the trial. This affected iPhone users only. The undate was released		
within two days of a reported fault. Four participants reported technical issues with their app. Two of these (did not see a weekly report and last data		
app opening slowly and were both for Android systems. The developers could not replicate this issue and participants persisted with the app despite this		
inconvenience."		
4a) CONSORT: Eligibility criteria for participants		
bathroom scales; want to continue or maintain their weight loss; own a Smartphone with an operating system appropriate for the app (iPhone or Android);		
willing to attend a clinic in the central business district 5 times over 6 months." 4a-i) Computer / Internet literacy		
Not relevant. We were recruiting people who owned their own smartphones and therefore would have a baseline level of literacy		
4a-I) Upen vs. closed, web-based vs. tace-to-tace assessments: "The primary method of recruitment was through an existing clinical research unit database owned by CSIRO which included the contact details of people		
who had consented to be contacted about future research. This method was supplemented by local print advertising, promotional news stories, and unaddressed promotional namphlets delivered by Australia Post. In final recruitment efforts, an external recruitment company was engaged"		
4a-iii) Information giving during recruitment		
"After being screened over the phone by the clinical trial manager, potential participants attended a study information session delivered by the principal investigator, received an information sheet and then provided written consent to participate."		
4b) CONSORT: Settings and locations where the data were collected "Retween late 2014 and mid-2015, participants made five visits to the clinical research unit in Adelaide. South Australia, Visits occurred at becaling (unal-		
0), 4 weeks, 8 weeks, 12 weeks and 24 weeks (Figure 1)."		
4D-I) Report it outcomes were (self-lassessed through online questionnaires		

"At all visits the clinical trial manager recorded body weight and participants then completed a computer-delivered survey that was programmed in Survey	
Wolkey: These visits generally look less than 15 minutes each. 4b-ii) Report how institutional affiliations are displayed	
Participants attended the CSIRO clinic, it is branded as such (not reported specifically in paper)	
5) CONSORT: Describe 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	
"Both groups received a smartphone app designed by the research team to be used without any additional face-to-face support. The app was developed by a orderang company (Fachled, Activity, Australia) with close organization for the order programmed for both IPbone apple (Addicid) areas "	
an owner of one of the history/development process	
"The development and features of the full version of the MotiMate app is described in detail elsewhere [29]."	
5-iii) Revisions and updating "Content tid not change throughout the trial."	
Content du no citange unoquinou de una. 5-iv) Quality assurance methods	
Not relevant, objective interractions captured,	
5-v) Ensure replicability by publishing the source code, and/or providing screenshots/screen-capture video, and/or providing flowcharts of the algorithms used	
Potential commericialisation, therefore source code not provided. Logic is described in previous paper.	
5-vi) Digital preservation	
Screenshots included in Figure 2	
"At the baseline visit, the intervention or control app was manually loaded onto the participants' phones."	
5-viii) Mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework Dearched in default in externation and the transmission of the intervention and comparator, and the theoretical framework	
Described in detail in other paper. Summarized in rable 1 5-ix) Describe use parameters	
"Briefly, both study apps had the same visual appearance, labelled MotiMate and designed for daily use."	
5-x) Clarify the level of human involvement "Vilice state and a state of the participant disistence of the participant the applicable and applied distribution of the participant distribution	
Clinic stall commend conect allocation and recorded allocation in the participant clinic record. They then showed the participant depart to the approximation encoded in the participant scould be grant to participant scould be that participants could be grant and encoded recent and encoded and and enco	
downloaded from an app store, clinic staff did not provide an overview of the app to participants."	
5-XI) keport any prompts/reminders used described in Table 1	
5-xii) Describe any co-interventions (incl. training/support)	
Not relevant, none included.	
ba) CONSORT: Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed See descriptions starting from page 10 under Primary Study Outcomes	
coll downput is during increase to drive in many basis of the second of	
designed/deployed	
Surveys completed in the clinic of completers - not online. Ba-ii) Describe whether and how "use" (including intensity of use/dosage) was defined/measured/monitored	
"Interactions with the app including logging in and accessing each of the core features were captured by the app and sent to an external database."	
6a-iii) Describe whether, how, and when qualitative feedback from participants was obtained	
All qualitative with some open-ended items	
b) CONSOLT. Any changes to that outcomes are the that commencer, with reasons Between late 2014 and mid-2015, participants made five visits to the clinical research unit in Adelaide, South Australia. Visits occurred at baseline (week	
0), 4 weeks, 8 weeks, 12 weeks and 24 weeks (Figure 1). "	
7a) CONSORT: How sample size was determined 7a) Describe whether and how expected attriction was taken into account when calculating the sample size	
Power calculations were based on changes in mood observed in our previous study [26]. In a sample with 44 females divided into two conditions, we were	
able to detect a moderate effect (0.45) for changes in mood. The initial aim was to recruit 150 volunteers to allow for 30% drop out [26, 27] and the inclusion of make which may increase the variability in observations of make which may increase the variability in observations of the second seco	
or makes which may indicate unit variability in docat variability. To) CONSORT: When applicable, explanation of any interim analyses and stopping guidelines	
See descriptions starting from page 10 under Primary Study Outcomes	
6a) CONSOR : Method used to generate the random allocation sequence "The clinical trial manager allocated participants based on their ID using a random number generator."	
bb) CONSORT: Type of randomisation; details of any restriction (such as blocking and block size)	
"During randomization, subjects were balanced for sex, age and weight status (currently overweight/obese or not)."	
CUNSUR1: 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	
All participants received an app called MotiMate and were blinded regarding their allocation. None of the investigators were involved with participant	
allocation. Due to the collection of objective usage data (described turther below), investigators could not be blinded surrounding participant allocation; some participants had app feature interactions only available on the MotiMate intervention app"	
10) CONSORT: Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions	
"The clinical trial manager allocated participants based on their ID using a random number generator." 143 CONSOT: Blinding _ If done, who was blinded after assignment to interventions for avample, participants, care providers, those assessing	
The construction in the second se	
11a-i) Specify who was blinded, and who wasn't	
An participants received an app called infolumate and were billided regarding their allocation. Note of the investigators were involved with participant allocation. Bue to the collection of objective usage data (described further below), investigators could not be blinded surrounding participant allocation;	
some participants had app feature interactions only available on the MotiMate intervention app"	
11a-ii) Discuss e.g., whether participants knew which intervention was the "intervention or interest" and which one was the "comparator" "All participants received an ano called MotiMate and were binded regarding their allocation. None of the investigators were involved with participant	
allocation. Due to the collection of objective usage data (described further below), investigators could not be blinded surrounding participant allocation;	
some participants had app teature interactions only available on the MotiMate intervention app" 11b) CONSORT: If relevant, description of the similarity of interventions	
Table 1	
12a) CONSORT: Statistical methods used to compare groups for primary and secondary outcomes	
All analyses were performed in SFSS version 20 (IBM, New York, USA). The primary analyses involved intention-to-treat methods using mixed modelling to assess differences in wellbeing, weight, dietary intake and physical activity levels over the study period between the intervention groups.	
Given the smaller than-desired final sample, preliminary bivariate correlations were used to assess the relevance of including all confounding variables.	
Detaily resulant was only weakly associated with a smain number of the outcomes and consequently was not controlled to it any of the models. Neuroticism, self-esteem and dispositional optimism (life orientation) related moderately to most of the psychological outcomes. For consistency, these	
variables were included in models assessing wellbeing, coping, resilience, and self-efficacy. All models also controlled for participant sex and age. The	
primary supprison variables were app container, changes over une (by week) and the interaction detweet these two variables. In the presence of significant interaction effects between app condition and week, pairwise comparisons were made using Bonferroni adjustments.	
Due to skew in the app interaction data, comparisons of usage of features were made using negative binomial linear models. These models were over-	
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Hgure 3 12b i) Attrition diagram	
Four 5	
14a) CONSORT: Dates defining the periods of recruitment and follow-up	
"Between late 2014 and mid-2015, participants made five visits to the clinical research unit in Adelaide, South Australia."	
14a-i) Indicate if critical "secular events" fell into the study period	
No changes 14b) CONSORT: Why the trial ended or was stopped (early)	
Not stopped early 15) CONSORT: A table showing baseline demographic and clinical characteristics for each group	
Reported in text due to high number of tables. "The sample was between the ages of 20 and 67 years old and mostly female (n=66; 75%). A majority owned an iPhone (n=62; 70.5%) rather than an Android handset. The group's starting weight ranged from 53.4 to 170.4kg with an average of 85.8kg (SD=22.08). Body Mass Index was between 20.9 and	
60.8 with 19.3% (n=17), 39.8% (n=35), 23.9% (n=21) and 17.0% (n=15) of the sample being normal weight, overweight, obese (category I) and obese (category II) and obese	
15-i) Report demographics associated with digital divide issues	
"The sample was between the ages of 20 and 67 years old and mostly temale (n=66; 75%). A majority owned an iPhone (n=62; 70.5%) rather than an Android handset. The group's starting weight ranged from 53.4 to 170.4kg with an average of 85.8kg (SD=22.08). Body Mass Index was between 20.9 and 60.8 with 19.3% (n=17), 39.8% (n=35), 23.9% (n=21) and 17.0% (n=15) of the sample being normal weight, overweight, obese (category I) and obese (category II) respectively. "	
16a) CONSORT: 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	
Reported throughout results	
16-ii) Primary analysis should be intent-to-treat	
Analysis was intention-to-treat	
17a) CONSORT: For each primary and secondary outcome, results for each group, and the estimated effect size and its precision (such as 95% confidence interval) Reported throughout results section.	
17a-i) Presentation of process outcomes such as metrics of use and intensity of use	
Figure 5	
T/D) CONSULT: For binary outcomes, presentation or both absolute and relative enect sizes is recommended	
18) CONSORT: Results of any other analyses performed, including subgroup analyses and adjusted analyses, distinguishing pre-specified from	
exponency Not relevant	
18-1) Subgroup analysis of comparing only users	
Included in section on app usage	
19) CONSORT: All important harms or unintended effects in each group	
Not relevant	
19-i) Include privacy breaches, technical problems	
Due to technical issues with the app, an update was released after the first week of the trial. This affected iPhone users only. The update was released within two days of a reported fault. Four participants reported technical issues with their app. Two of these (did not see a weekly report and last data entered not saved) resolved themselves and may have been related to a temporary outage of the external database. The other two reports related to the	
app opening slowly and were both for Android systems. The developers could not replicate this issue and participants persisted with the app despite this inconvenience."	
19-ii) Include qualitative feedback from participants or observations from staff/researchers	
DISCUSSION	
DISCUSSION 20) CONSORT: Trial limitations, addressing sources of potential bias, imprecision, multiplicity of analyses	
DISCUSSION 20) CONSORT: Trial limitations, addressing sources of potential bias, imprecision, multiplicity of analyses 20-i) Typical limitations in ehealth trials "Close to 40% of accels accelsing the lose weight while as the trial own though they had as support accelsingly directed towards weight lose from the accel "Close to 40% of accelsingly accelsing the lose weight while as the trial own though they had as support accelsingly directed towards weight lose from the accel "Close to 40% of accelsingly accelsingly accelsingly accelsingly accelsingly accelsingly directed towards weight lose from the accel	
20) CONSORT: Trial limitations, addressing sources of potential bias, imprecision, multiplicity of analyses 20-i) Typical limitations in ehealth trials "Close to 40% of people continued to lose weight while on this trial even though they had no support specifically directed towards weight loss from the app."	
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Subscription 20) CONSORT: Trial limitations, addressing sources of potential bias, imprecision, multiplicity of analyses 20-i) Typical limitations in ehealth trials "Close to 40% of people continued to lose weight while on this trial even though they had no support specifically directed towards weight loss from the app." "At the start of our trail participants were within different ranges from their lowest ever weights and they each had different timeframes with which they had been maintaining their weight, as well as different experiences with weight loss programs prior to starting the study. It would have been interesting to explore how these factors may have altered weight outcomes, however our ability to do this was limited due to the sample size. The choice to recruit people with a range of weight management experiences; however this may have also added increased variability to the outcomes " 21, CONECT: Concentrices " 21, CONECT: Concentri	
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25) CONSORT: Sources of funding and other support (such as supply of drugs), role of funders	
Bupa Health Foundation is a Principle Partner for the development and evaluation of the MotiMate app. They had no direct involvement with the	
development and evaluation of MotiMate.	
X26-i) Comment on ethics committee approval	
"The study was approved by the CSIRO Human Research Ethics Committee (14/02) in April 2014 and registered with the Australian New Zealand Clinical	
Trials Registry (ACTRN12614000474651)."	
x26-ii) Outline informed consent procedures	
"After being screened over the phone by the clinical trial manager, potential participants attended a study information session delivered by the principal	
investigator, received an information sheet and then provided written consent to participate."	
X26-iii) Safety and security procedures	
Not relevant	
X27-i) State the relation of the study team towards the system being evaluated	
All government employees	