

# Positive Online Weight Reduction (POWeR): A study of a web and smartphone weight management tool

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<b>Registration date</b> 27/03/2013	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 18/11/2016	<b>Condition category</b> Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and Study Aims

POWeR stands for Positive Online Weight Reduction. It is a website and smartphone-based weight management tool, developed by researchers, health professionals, and computer scientists at the University of Southampton (UK). The study will look at how different people use the web and smartphone-based POWeR tools.

### Who can participate

The study is open to adults who have access to the Internet on a regular basis. Notifications that the POWeR programme is ready to use will be sent to users of the myPersonality Facebook application, but you do not have to be a myPersonality user to take part.

You will need to answer some quick online questions to check that POWeR will be suitable before you can sign up.

### What does the study involve?

To sign up to the study you will need to create an account with POWeR and answer some brief online questionnaires. You will then be able to use the POWeR website.

The POWeR website has 12 different topics that you can look at on a weekly basis. POWeR will guide and support you to change your eating and physical activity patterns. There are no strict rules you are free to set your own achievable goals. Topics include fitting weight management into daily life, emotional triggers for eating and gaining social support. Each topic ends with personalised links to other good online sources of information and advice about different aspects of weight management. POWeR Tools will help you to develop skills and strategies for weight management these will be saved for you to use again at anytime you want.

If you have an Android Smartphone you can also download the POWeR Tracker app. This will help you to keep track of your goals and progress.

After 8 weeks you will be sent an email inviting you to tell us more about your experiences of using POWeR and what you thought of POWeR. You'll also have the chance to talk to one of the research team on the phone about how you got on with POWeR (if you want to).

What are the possible benefits and risks of participating?

People who follow POWeR are guided to manage their weight in a safe and gradual way.

If you have a health condition or problem you must check with your GP about the suitability of making dietary and exercise changes before using POWeR.

Participants will be directed to their GP in the case of any health concerns arising during the study.

Where is the study run from?

The study is run by research teams at the University of Southampton and the University of Cambridge. You can take part from your own home, workplace or other location where you have regular access to the Internet.

Who is funding the study?

The study is supported by a grant from the EPSRC Engineering and Physical Sciences Research Council (UK).

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

The project starts in February 2013 and is expected to run until the end of 2013.

Who is the main contact

Dr Leanne Morrison

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## Contact information

**Type(s)**

Scientific

**Contact name**

Dr Leanne Morrison

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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

ClinicalTrials.gov number

Secondary identifying numbers

N/A

## Study information

### Scientific Title

Dissemination of a digital weight management intervention to adult users of the myPersonality Facebook application: An exploration of the role of personality and social influence on intervention uptake, adherence and health-related outcomes

### Study objectives

This study will disseminate a digital weight management intervention, containing web and Smartphone-based components, via the MyPersonality Facebook application. The study will examine research questions centring around:

1. Intervention uptake, adherence, and usage patterns
2. Change in health-related outcomes (e.g. self-regulatory cognitions)
3. Differences between the web and Smartphone-based components
4. Whether personality and social influence variables predict uptake, usage, and health-related outcomes

Note: Countries of recruitment - Since our study will disseminate a weight management intervention via Facebook it is very difficult to specify what countries participants will be recruited from. UK and USA have been selected as we anticipate that the majority of participants are likely to be recruited from these two geographic locations. However, the participants may come from any country.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

University of Southampton Ethics Committee and Research Governance office, 04/03/2013, ref: 5182

### Study design

Non-randomised interventional uncontrolled implementation study

### Primary study design

Interventional

### Secondary study design

Non randomised controlled trial

### Study setting(s)

Other

### Study type(s)

Prevention

## **Participant information sheet**

Since one of the aims of this study is to assess intervention uptake using dissemination via myPersonality we are not providing a URL to members of the public.

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

Overweight / obesity

## **Interventions**

The POWeR website is a series of online modules which the participant is encouraged to complete on a weekly basis. The POWeR intervention guides and supports users in changing their eating and physical activity. Every session comprises self-monitoring, goal setting and tailored feedback on progress. Additional content of sessions are around topics such as fitting weight management into daily life, emotional triggers for eating and gaining social support. Each session concludes with personalised links to good online sources of information and advice about different aspects of weight management. Skills and strategies developed in the sessions are saved for the user to access later. Participants who have smartphones can download an accompanying POWeR app to track their goals and progress. New POWeR content is provided over a period of 12 weeks. Participants are free to continue using POWeR to track their weight and goals up to 1 year. Participants will be asked to complete self-report follow-up measures, online, 8 weeks post-baseline. No randomisation processes were used since this is an observational study.

## **Intervention Type**

Other

## **Phase**

Not Applicable

## **Primary outcome measure**

1. Intervention use (automatically recorded data on log-ins, page views, and duration of views of the web and smartphone interventions);
2. Intrinsic Motivation (The Treatment Self-Regulation Questionnaire-Modified, Levesque et al. 2007) at baseline
3. Social norms for weight management (Adapted version of social norms scales by Lemmon et al. In Press) at baseline and 8 weeks;
4. Number and type of social ties also managing weight at baseline
5. Number and type of social ties also using POWeR at 8 weeks
6. Personality (NEO personality inventory, McCrae & Costa 1987)
7. Action control for dietary behaviour and physical activity (measure adapted from Sniehotta et al., 2005) at baseline and 8 weeks;
8. Automatically recorded data on smartphone use, sensed by smartphone (e.g. number of calls, number of SMS, current time/location, power status etc.)
9. Positive Intervention Perceptions (Yardley et al., 2010) at 8 weeks
10. Perceived ease of use (Venkatesh & Davis, 2000)
11. Self-reported smartphone usage at baseline
12. Preferences for POWeR use via website or Smartphone and /or reasons for non-use at 8 weeks
13. Self-reported weight at baseline and 8 weeks

## **Secondary outcome measures**

No secondary outcome measures

**Overall study start date**

25/02/2013

**Completion date**

31/12/2013

## Eligibility

**Key inclusion criteria**

1. Adults, aged 18 or older, either sex
2. Self-reported BMI > 19
3. Able to access the internet on a regular basis

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

Uptake of the intervention when disseminated via Facebook is one of our main research questions. We therefore do not have a target number of participants.

**Key exclusion criteria**

Potential participants with health conditions that influence their diet or physical activity are advised to check with their GP before taking part.

POWeR is currently also being evaluated in an ongoing clinical trial in specific areas within the UK. Participants who reside in these areas will be excluded from taking part.

**Date of first enrolment**

08/05/2013

**Date of final enrolment**

30/08/2013

## Locations

**Countries of recruitment**

England

United Kingdom

United States of America

**Study participating centre**  
**University of Southampton**  
Academic Unit of Psychology  
University Road  
Southampton  
United Kingdom  
SO17 1BJ

**Study participating centre**  
**University of Cambridge**  
Department of Psychology  
Downing Street  
Cambridge  
United Kingdom  
CB2 3EB

## **Sponsor information**

**Organisation**  
University of Southampton (UK)

**Sponsor details**  
c/o Dr Martina Prude  
Research Governance Office  
Highfield Campus  
Southampton  
England  
United Kingdom  
SO192DX

**Sponsor type**  
University/education

**Website**  
<http://www.southampton.ac.uk/>

**ROR**  
<https://ror.org/01ryk1543>

## **Funder(s)**

**Funder type**

Research council

**Funder Name**

UBhave: Ubiquitous and Social Computing for Positive Behaviour Change (UK)

**Funder Name**

Engineering and Physical Sciences Research Council (EPSRC) EP/I032673/1 (UK)

## **Results and Publications**

**Publication and dissemination plan**

Due to poor recruitment rates there are no plans to publish or disseminate findings from this trial.

**Intention to publish date****Individual participant data (IPD) sharing plan**

Due to poor recruitment rates the participant level data for this study will not be available.

**IPD sharing plan summary**

Not expected to be made available