Plan Overview

A Data Management Plan created using DMPTool

Title: Mobile regulation of craving training (mROC-T) to improve dietary intake in rural adolescent girls year long

Creator: Grace Shearrer - ORCID: 0000-0002-0450-4404

Affiliation: University of Wyoming (uwyo.edu)

DMP ID: https://doi.org/10.48321/D1PP5Z

Funder: American Diabetes Association (diabetes.org)

Funding opportunity number: Nutrition and Diabetes Junior Faculty Award

Grant: professional.diabetes.org/grants

Template: NIH-GEN: Generic (Current until 2023)

Project abstract:

The long-term objective of the present proposal is to improve the quality of dietary intake, measured with the healthy eating index, of rural Wyoming adolescent girls through a mobile phone regulation of craving training (mROC-T). Improving adolescent girls’ diets has the potential to prevent insulin resistance in the near future and break intergenerational type 2 diabetes (T2D). Using social justice (rather than simple healthy/unhealthy) messaging with the regulation of craving training builds on two previously successful interventions, and therefore we hypothesize will improve adolescent girls’ dietary intake. We aim to first, develop a mROC-T application specifically for adolescent girls, second to evaluate the impact of mROC-T on dietary intake, and third evaluate the effect of mROC-T on body composition and glycemia over 1-year. Rural communities are understudied and lack interventions tailored to a rural lifestyle. The present intervention combines the previously successful ROC-T cognitive behavioral therapy, adolescent targeted social justice messaging, and is suitable for rural and non-communities. Thus, the present proposal could scale up to larger communities and may produce a mobile phone application that is immediately ready for wide use.

Start date: 07-01-2022

End date: 06-30-2025

Last modified: 03-24-2022

Grant number / URL: professional.diabetes.org/grants

Copyright information:

The above plan creator(s) have agreed that others may use as much of the text of this plan as they would like in their own plans, and customize it as necessary. You do not need to credit the creator(s) as the source of the language used, but using any of the plan's text does not imply that the creator(s) endorse, or have any relationship to, your project or proposal.
Mobile regulation of craving training (mROC-T) to improve dietary intake in rural adolescent girls year long

Data sharing plan

How do you plan to provide access to your data?
We will share our data 6-months after the publication of our main effects paper. The research products will be available immediately after the end of the intervention.

Data will be shared on my (Dr. Shearer’s) Open Science Framework project for this study. The preregistration, post-print, and code (through GitHub) will also be available. The data itself will be tracked using DataLad for data version control.

When will you make the data available?
6 months after the first publication

Which archive/repository/central database have you identified as a place to deposit data?
Open Science Framework, GitHub, and DataLad

Will a data-sharing agreement be required?
Yes, a short data sharing agreement will be required for our documentation of where the data is being used and for what purpose

What metadata/documentation will be submitted alongside the data?
A data dictionary, cleaning code.

What file formats will you use for your data, and why?
Data will be stored as csv files, the combined dataset will also be stored as a .RData file for ease of analysis through R.

What transformations will be necessary to prepare data for preservation/data sharing?
A code book will be developed at the onset.

Do you need funding for the implementation of this data sharing plan?
Potentially but not at this time
Planned Research Outputs

**Dataset - "mROC-T behavioral data"**

- User ID
- Date
- Food craving questionnaire

**Dataset - "mROC-T app data"**

- User ID
- Dates accessed
- What condition was shown (intervention group)
- What food images were shown
- What essays were shown
- Time spent looking at each image
- Time spent looking at the craving rating screen
- Craving rating

**Dataset - "mROC-T biospecimens"**

- User ID
- Date
- HbA1c
- Glucose at fasting, 1hr, 2hr
- Insulin at fasting, 1hr, 2hr

**Dataset - "mROC-T anthropometric"**

- User ID
- Date
- Height (cm, triplicate)
- Weight (kg, triplicate)
- Waist circumference (cm, triplicate)
- Puberal development score

**Dataset - "mROC-T diet"**

This will be the standard output from the ASA-24

### Planned research output details

<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>Anticipated release date</th>
<th>Initial access level</th>
<th>Intended repository(ies)</th>
<th>Anticipated file size</th>
<th>License</th>
<th>Metadata standard(s)</th>
<th>May contain sensitive data?</th>
<th>May contain PII?</th>
</tr>
</thead>
<tbody>
<tr>
<td>mROC-T behavioral data</td>
<td>Dataset</td>
<td>Unspecified</td>
<td>Restricted</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>mROC-T app data</td>
<td>Dataset</td>
<td>Unspecified</td>
<td>Restricted</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>mROC-T biospecimens</td>
<td>Dataset</td>
<td>Unspecified</td>
<td>Restricted</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>mROC-T anthropometric</td>
<td>Dataset</td>
<td>Unspecified</td>
<td>Restricted</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>mROC-T diet</td>
<td>Dataset</td>
<td>Unspecified</td>
<td>Restricted</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>None specified</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Created using DMPTool. Last modified 24 March 2022