**AMUsED Framework Stage 1 Checklist: familiarisation with the data and identifying variables**

| **Generic questions by data type** | **Intervention details** |
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| **1. Intervention characteristics. Data for intervention architecture and content.**  |
| * 1. **Workflow. Intervention structure and expected participant interaction and navigation through the intervention.**
 |
| How many logins/sessions are available? |  |
| When are they available?  |  |
| Are new sessions released depending on time elapsed or task-completion?  |  |
| Are there limitations on the availability of the intervention? |  |
| Is the purpose of a session to collect self-report measures and/or use the intervention? |  |
| When is the intervention considered to be finished? |  |
| What prompts are used to encourage usage (e.g. emails, texts, notifications) and when are they sent?  |  |
| Does the intervention contain ‘tunneled’ (compulsory) sequences of pages which users have to view to move forward? |  |
| Are users able to select linked components they wish to view, and avoid others? |  |
| **1.2. Content. Content available within the pages of the intervention.** |
| What are the components available? |  |
| What is the aim of each component and are they based on underlying theoretical constructs? |  |
| In what order is it anticipated the components will be used?  |  |
| What interactive features are available (e.g. forums, videos, printable information)? How long should they take to complete? |  |
| Are all components/features available to all users throughout the intervention or are some tailored for specific times or users? |  |
| Which pages are for collecting self-report measures or for administrative purposes (e.g. questionnaires, login, password change)? |  |
| Are there specific pages to mark the start and end of sessions? |  |
| Which pages contain BCTs (e.g. information, planning, feedback) and what are they? |  |
| In which sessions are they available? |  |
| Can specific BCTs be identified on particular pages or groups of pages? How many groups are there? |  |
| Do any of the pages have response options to collect information in addition to baseline/follow-up measures? What data is collected? |  |
| **2. Accrued data. Data collected during an intervention.** |  |
| **2.1. Self-report. Users’ self-reported responses collected across various stages of the trial.**  |
| When are self-report questionnaires collected (e.g. weekly logins, monthly symptom information, follow-up at 6 months)?  |  |
| What demographic information is available (e.g. age, gender, education)?  |  |
| Which measures are specifically related to the target behavior and how often are they collected? |  |
| Which measures of beliefs influential on the target behavior are collected and when?  |  |
| Are measures of health collected (e.g. conditions which may impact on target behavior or are co-morbid) and psychosocial factors (e.g. anxiety, illness perception, motivation)?  |  |
| Are additional measures collected at follow-up (e.g. satisfaction, adherence)?  |  |
| **2.2. Log-data. Information automatically collected through engagement with an intervention.**  |
| What data is the software platform able to record?  |  |
| Are number, date and time of logins available by individual user? |  |
| Are individuals’ total durations of usage accessible? |  |
| Are the number and time of usage prompts recorded? |  |
| Are there details for which pages were viewed, the sequential order and time spent viewing? |  |
| **2.3. External data. Data collected independently but alongside intervention usage.** |
| How and where is the data collected (e.g. GP or support staff notes, lab reports, other digital data such as activity or location trackers)? |  |
| What data is collected? |  |
| Which of these measures relate to or may impact on the target behavior? |  |
| **3. Contextual data. Data indirectly related to the running of the intervention which may be influential over usage and analysis.** |
| **3.1. External factors. Structures and events which may influence participation in the intervention.** |
| How are users recruited to the intervention?  |  |
| Did any specific large-scale events, with the potential to impact on the intervention, occur during the period of the intervention (e.g. changes in treatment, health campaigns, illness outbreak, technical issues with the intervention)? |  |
| **3.2. Previous theory and findings. Results of behavioral analyses carried out during intervention development (e.g. logic models), and analyses of clinical outcomes if available.** |
| What are the hypothesized mechanisms of the intervention (e.g. as specified in the intervention’s logic model)? |  |
| Which factors are identified as important in qualitative research, and can they be related to the variables collected in the trial (e.g. preferences for specific pages)? |  |
| Which variables are identified as relating to outcomes (e.g. behavioral determinants, theoretical constructs, health factors)? |  |